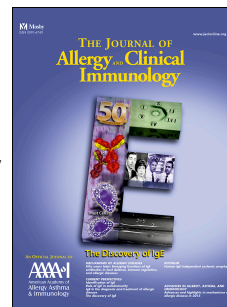


# Accepted Manuscript

Epithelial IL-6 trans-signaling defines a new asthma phenotype with increased airway inflammation

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PII: S0091-6749(18)30847-9

DOI: [10.1016/j.jaci.2018.05.026](https://doi.org/10.1016/j.jaci.2018.05.026)

Reference: YMAI 13467

To appear in: *Journal of Allergy and Clinical Immunology*

Received Date: 11 October 2017

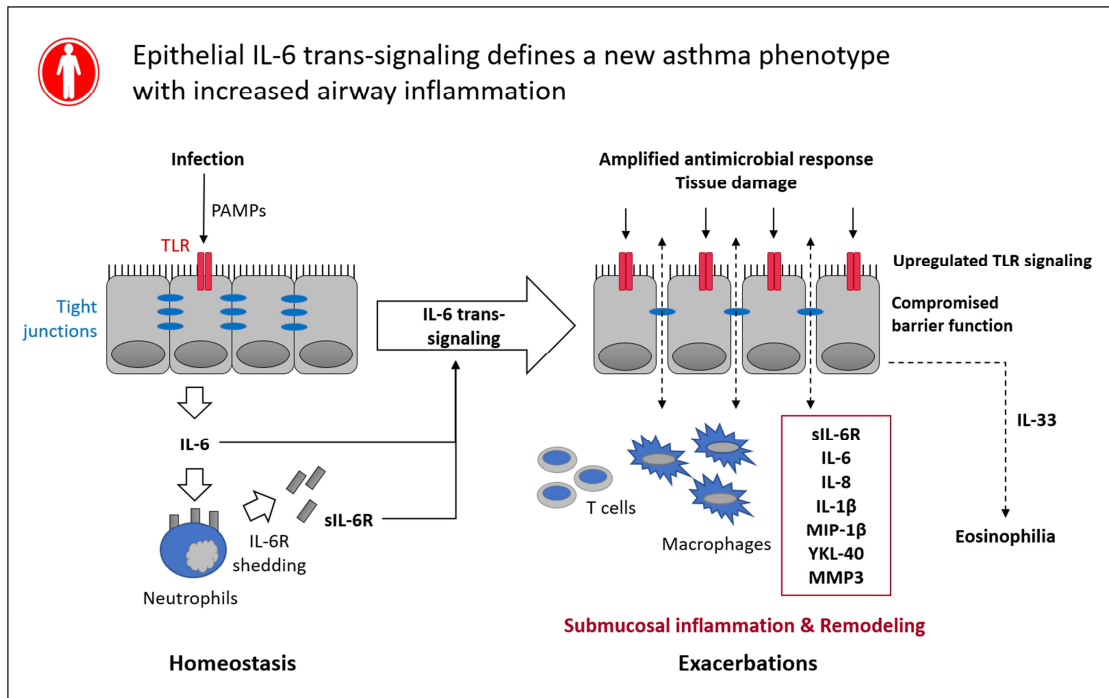
Revised Date: 15 April 2018

Accepted Date: 4 May 2018

Please cite this article as: Jevnikar Z, Östling J, Ax E, Calvén J, Thörn K, Israelsson E, Öberg L, Singhania A, Lau LCK, Wilson SJ, Ward JA, Chauhan A, Sousa AR, De Meulder B, Loza MJ, Baribaud F, Sterk PJ, Chung KF, Sun K, Guo Y, Adcock IM, Payne D, Dahlen B, Chanez P, Shaw DE, Krug N, Hohlfeld JM, Sandström T, Djukanovic R, James A, Hinks TSC, Howarth PH, Vaarala O, van Geest M, Olsson HK, and the U-BIOPRED study group, Epithelial IL-6 trans-signaling defines a new asthma phenotype with increased airway inflammation, *Journal of Allergy and Clinical Immunology* (2018), doi: 10.1016/j.jaci.2018.05.026.

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1 **Epithelial IL-6 trans-signaling defines a new asthma phenotype with**  
 2 **increased airway inflammation**

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52 Sources of funding:

53 IMED Biotech Unit AstraZeneca. EA was supported by The Swedish Foundation for Strategic Research  
54 (SSF). The U-BIOPRED consortium receives funding from the European Union and from the European  
55 Federation of Pharmaceutical Industries and Associations as an IMI JU funded project (no. 115010). The  
56 Wessex Severe Asthma Cohort was funded by the Medical Research Council (G0800649). TSCH was  
57 supported by Wellcome Trust Clinical Research Fellowship (088365/z/09/z and 104553/z/14/z) and by  
58 the Academy of Medical Sciences. Infrastructure support was funded by the NIHR Southampton  
59 Respiratory Biomedical Research Unit. We acknowledge the support of the National Institute for Health  
60 Research, through the Primary Care Research Network, and through an Academic Clinical Fellowship  
61 awarded to TSCH. AS was supported by the Faculty of Medicine, University of Southampton. IMA and  
62 KFC are supported by the NIHR Respiratory Disease Biomedical Research Unit at the Royal Brompton  
63 and Harefield NHS Foundation Trust and Imperial College London. IMA is also supported by the  
64 Wellcome Trust (076472/2/05/Z).

65

66 Conflicts of interest:

67 ZJ, JO, EA, KT, EI, LO, OV, MvG and HO are employees of AstraZeneca, which supported the study.  
68 MJL and FB are employees and shareholders of Janssen R&D. AS, LCKL, SJW, JAW, AC, ARS, BDM,  
69 PJS, KFC, KS, YG, IMA, DP, BD, PC, DES, NK, JMH, TS, RD, AJ, TSCH and PHH have nothing to  
70 declare.

71

72

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74

**75 Abstract**

76

**77 Background**

78 Although several studies link high levels of IL-6 and soluble IL-6 receptor (sIL-6R) with asthma severity  
79 and decreased lung function, the role of IL-6 trans-signaling (IL-6TS) in asthma is unclear.

**80 Objective**

81 To explore the association between epithelial IL-6TS pathway activation and molecular and clinical  
82 phenotypes in asthma.

**83 Methods**

84 An IL-6TS gene signature, obtained from air-liquid interface (ALI) cultures of human bronchial epithelial  
85 cells stimulated with IL-6 and sIL-6R, was used to stratify lung epithelium transcriptomic data (U-  
86 BIOPRED cohorts) by hierarchical clustering. IL-6TS-specific protein markers were used to stratify  
87 sputum biomarker data (Wessex cohort). Molecular phenotyping was based on transcriptional profiling of  
88 epithelial brushings, pathway analysis and immunohistochemical analysis of bronchial biopsies.

**89 Results**

90 Activation of IL-6TS in ALI cultures reduced epithelial integrity and induced a specific gene signature  
91 enriched in genes associated with airway remodeling. The IL-6TS signature identified a subset of IL-6TS  
92 High asthma patients with increased epithelial expression of IL-6TS inducible genes in absence of  
93 systemic inflammation. The IL-6TS High subset had an overrepresentation of frequent exacerbators,  
94 blood eosinophilia, and submucosal infiltration of T cells and macrophages. In bronchial brushings, TLR  
95 pathway genes were up-regulated while the expression of tight junction genes was reduced. Sputum sIL-  
96 6R and IL-6 levels correlated with sputum markers of remodeling and innate immune activation, in  
97 particular YKL-40, MMP3, MIP-1 $\beta$ , IL-8 and IL-1 $\beta$ .

**98 Conclusions**

99 Local lung epithelial IL-6TS activation in absence of type 2 airway inflammation defines a novel subset  
100 of asthmatics and may drive airway inflammation and epithelial dysfunction in these patients.

101

**102 Key Messages**

- 103 • A subset of asthma patients (IL-6TS High subset) distinct from Type 2 asthma shows lung  
104 epithelial IL-6 trans-signaling pathway activation in absence of systemic IL-6 inflammation.

- 105       • The IL-6TS High subset constitutes a novel asthma phenotype associated with frequent  
106       exacerbations, eosinophilia, airway inflammation, remodeling and impaired epithelial integrity.
- 107       • The identification of local airway IL-6 trans-signaling pathway activation as a potential disease  
108       driver may open up for a stratified medicine approach to treating asthma.

109

### 110 **Capsule Summary**

111 By cluster analysis of lung epithelium transcriptomics data using an IL-6 trans-signaling gene signature  
112 we demonstrate the presence of a poorly controlled asthma patient subset associated with airway  
113 inflammation, remodeling and compromised epithelial barrier function.

114

### 115 **Keywords**

116 Asthma; lung epithelium; transcriptomics; hierarchical clustering; IL-6 signaling; exacerbation frequency;  
117 eosinophils; airway inflammation; remodeling; epithelial integrity.

118

### 119 **Abbreviations used**

120 IL-6TS: IL-6 trans-signaling

121 sIL-6R: Soluble IL-6 receptor

122 HBEC: Human bronchial epithelial cells

123 ALI: Air liquid interface

124 TEER: Trans-epithelial electrical resistance

125 TLR: Toll-like receptors

126

### 127 **Introduction**

128

129 Type 2 (T2) inflammation defines one major asthma endotype, but a significant proportion of asthma  
130 patients do not express airway T2 inflammation markers and do not respond to treatments targeting this  
131 pathway (1). Thus, identification of the cellular and molecular disease drivers beyond T2 asthma is  
132 required in order to achieve disease control in these patients.

133 Interleukin-6 (IL-6) is a pleiotropic cytokine that can be produced by many cell types in response to a  
134 wide array of inflammatory stimuli and cytokines (2). In the classical pathway, binding of IL-6 to its  
135 membrane bound receptor (IL-6R) induces recruitment and homodimerization of the signal-transducing  
136 receptor glycoprotein 130 (gp130), which leads to phosphorylation of STAT family transcription factors  
137 (STAT3 and/or STAT1) by the Janus tyrosine kinase family (JAK1, JAK2, TYK2). In addition, it causes  
138 activation of the mitogen-activated protein kinase (MAPK) and phosphoinositide 3-kinase (PI3K)  
139 cascades (3,4). Classical signaling is prominent in cells expressing high levels of IL-6R on their surface  
140 such as neutrophils, macrophages and some types of T cells (5). In contrast, cell types with no or low  
141 expression of membrane IL-6R depend on IL-6 trans-signaling (IL-6TS) mediated by a soluble form of  
142 the IL-6 receptor (sIL-6R) which associates with gp130 after forming a complex with IL-6 (6). sIL-6R is  
143 produced as a result of alternative mRNA splicing (7) or through shedding of IL-6R from the cell surface  
144 by ADAM and meprin proteases (8,9) in response to various inflammatory signals, such as C-reactive  
145 protein (CRP), IL-8, CXCL1, bacterial pore-forming toxins and LPS (10-13). Neutrophils have been  
146 proposed as the main source of sIL-6R generated at sites of inflammation (11), and a recent study showed  
147 that neutrophils may be an important source of sIL-6R in the lungs of asthma patients (14).

148 Increased levels of IL-6 have been found in serum, sputum and bronchoalveolar lavage fluid (BALF) of  
149 asthma patients (15-17), and also in BALF from patients with non-allergic asthma as compared to patients  
150 with allergic asthma, suggesting a role for IL-6 in non-T2 asthma (18). Supporting this, a recent study  
151 conducted in the UCSF and SARP asthma cohorts identified a strong association between high systemic  
152 IL-6 levels and asthma severity, while no correlation was found between IL-6 and T2 inflammation  
153 biomarkers including blood and sputum eosinophils, blood IgE and FeNO (19). As for IL-6, also the  
154 levels of sIL-6R have been found to be significantly increased in serum (20), BALF (21) and sputum (22)  
155 from asthma patients compared to those of control subjects. A role for IL-6 as an asthma disease driver is  
156 also emerging from genetic evidence, and a genome-wide association study (GWAS) revealed an  
157 association between the single nucleotide polymorphism (SNP) rs4129267 in intron 8 of the IL-6R gene  
158 and an increased asthma risk (23).

159 In this study we identified an IL-6TS driven patient subset in the U-BIOPRED (Unbiased Biomarkers in  
160 Prediction of Respiratory Disease Outcomes) cohorts (24) based on an epithelial IL-6TS specific gene  
161 signature. These patients were characterized by their unique clinical and histopathological features,  
162 including a history of frequent exacerbations, a remarkable increase in submucosal T cell and macrophage  
163 infiltration, and they also showed markers of impaired epithelial barrier integrity and airway remodeling.

164

## 165 **Methods**

166

**167 Primary cell culture and activation**

168 Primary human bronchial epithelial cells (HBECs; Lonza) were expanded to passage 2 in BEGM  
169 Bronchial Epithelial Cell Growth Medium (Lonza). These cells were then seeded on 0.4  $\mu$ m Corning®  
170 HTS Transwell®-24 well permeable supports (Sigma-Aldrich) coated with PureCol (Advanced  
171 BioMatrix) and differentiated at Air-Liquid Interface (ALI) using PneumaCult™-Ex and ALI Media  
172 (Stemcell) according to the manufacturer's protocol. Once fully differentiated, cells were stimulated for  
173 3-48h by basolateral addition of human recombinant proteins IL-4 and IL-13 (30 ng/ml; R&D Systems)  
174 or IL-6 (10 - 150 ng/ml; R&D Systems) and sIL-6R (10 - 150 ng/ml; PeproTech) diluted in  
175 PneumaCult™-ALI medium. 1 $\mu$ M JAK1 inhibitor (25) or DMSO were added apically for 30 minutes in  
176 200 $\mu$ L medium that was removed before stimulation. Phosphorylation of STAT3 on tyrosine 705 was  
177 quantified with a pSTAT3 detection kit (Meso Scale Discovery) following the manufacturer's instruction.

**178 Patient cohorts, transcriptomics and proteomics**

179 The U-BIOPRED study was a cross-sectional, observational study using the baseline visits of the U-  
180 BIOPRED cohorts from 16 clinical centers in 11 countries across Europe. It includes steroid-treated adult  
181 asthma patients, classified and treated according to the Global Initiative for Asthma (GINA) guidelines, as  
182 well as healthy controls. Definitions for each group of subjects and collection of clinical variables have  
183 been published previously by Shaw et al. (24). The current study employed data from 147 subjects from  
184 the U-BIOPRED asthma cohorts, including patients with mild to moderate asthma (n= 36), severe asthma  
185 (n=49), smokers with severe asthma (n=18) and healthy nonsmoking controls (n=44) that underwent  
186 fiberoptic bronchoscopy for central airway epithelial cell brushings (26). Transcriptomic data from  
187 brushings were obtained by using a HT HG-U133+ PM microarray platform (Affymetrix Plus 2.0) as  
188 described (27). Affymetrix Plus 2.0 microarray data was downloaded from U-BIOPRED/tranSMART  
189 database, version Aug 2016. Blood samples were collected (24) and biomarkers (IL-6 and sIL-6R) were  
190 analyzed by SomaScan v3 platform (SomaLogic) as described (28).

**191 Unsupervised hierarchical clustering**

192 Hierarchical clustering of U-BIOPRED gene expression data was performed using the average linkage  
193 and Euclidean metric methods, with each variable normalized to mean 0 and variance 1, using Qlucore  
194 Omics Explorer 3 (Qlucore Lund, Sweden). Results were visualized as dendrogram heat maps where the  
195 color scale is given as log<sub>2</sub> fold changes with a range from -2.0 (blue), via 0.0 (grey) to +2.0 (red). Data  
196 from multiple probes was collapsed to single genes using the highest value.

## 197 **Statistical Analysis**

198 Gene expression data was log<sub>2</sub> transformed and analyzed by General Linear Model based statistical tests,  
199 adjusting for age, gender and site code, using Qlucore Omics Explorer 3.3 (Qlucore Lund, Sweden).  
200 Benjamini-Hochberg multiple correction was used to control for rate of false positives (referred to as q-  
201 value). Statistical analysis of clinical variables and biomarker data was performed with Kruskal-Wallis  
202 tests in Spotfire 7.0.2 (TIBCO Spotfire). The p-value for MetaCore (MetaCore, Thomson Reuters) and  
203 Ingenuity (IPA, Ingenuity Pathway Analysis, QIAGEN Inc) pathway analysis was calculated using the  
204 right-tailed Fisher Exact Test. All statistical analyses of in vitro data were performed using two-tailed  
205 unpaired t-test. All data analyses except analysis of gene expression data were considered hypothesis  
206 based and significance reached if  $p \leq 0.05$ . Correlations were tested with the Spearman's  $r$  statistics. Prism  
207 6.0 (GraphPad Software) was used for data analysis and graphical representation.

208

## 209 **Results**

210

### 211 **IL-6TS induces a specific gene expression profile distinct from the type 2 inflammation gene** 212 **signature in primary bronchial epithelial cells**

213 Stimulation of primary human bronchial epithelial cells (HBEC) grown as air-liquid interface (ALI)  
214 cultures with either recombinant IL-6 alone (classical IL-6 signaling) or in combination with sIL-6R (IL-  
215 6TS) induced robust STAT3 phosphorylation within 30 minutes. The increase in STAT3 phosphorylation  
216 was considerably stronger in the presence of sIL-6R, which was added at a concentration (150 ng/mL)  
217 comparable to the levels found in serum of asthmatic patients (20). Moreover, only IL-6TS led to  
218 persistent STAT3 phosphorylation after prolonged exposure with daily applications of IL-6 or IL-6/sIL-  
219 6R (Figure 1A). Pretreating cells with a JAK1-selective inhibitor (25), abrogated STAT3 phosphorylation  
220 induced by IL-6TS (Figure 1B,C). In order to identify genes regulated by IL-6TS we stimulated HBEC  
221 ALI cultures for 24 hours with IL-6/sIL-6R followed by global gene expression analysis by RNA  
222 sequencing. In total 8781 protein coding genes ( $q < 0.05$ ) were differentially expressed between IL-6/sIL-  
223 6R (IL-6TS)-stimulated and unstimulated control cells, while 6514 genes were affected by IL-6 alone. All  
224 genes regulated by both IL-6 and by IL-6/sIL-6R (6041 overlapping genes) had a consistent direction of  
225 change, and IL-6/sIL-6R consistently produced a stronger expression of the majority of these genes than  
226 IL-6 on its own (Figure 1D, Supplementary Table 1 and 2). The expression of selected IL-6TS inducible  
227 genes was validated by qPCR in three additional donors (Supplementary Figure S1). Several of the genes  
228 that were strongly induced by IL-6TS have been associated with airway remodeling in respiratory disease

229 and include genes for matrix metalloproteinases (MMP1, 3 and 12) (29), chitinase-like proteins (CHI3L1/  
230 YKL-40 and CHI3L2/ YKL-39) (30), osteopontin (SPP1) (31) and IL-33 (32). The exact biological role  
231 of YKL-40 in asthma remains unclear, but it consistently correlates with airway obstruction and with  
232 measures of airway remodeling, such as thickness of the bronchial wall (33,34). MMP3 has been found to  
233 be increased in BALF of patients with severe asthma (35), and it has been implicated in emphysematous  
234 airway remodeling in COPD patients (36). The specific induction of YKL-40 and MMP3 by IL-6/sIL-6R  
235 was confirmed also on protein levels in 6 different HBEC donors (Figure 1G).

236 As control we stimulated the HBEC ALI cultures with a combination of IL-4 and IL-13 to induce a  
237 typical T2 inflammatory gene profile as confirmed by increased expression of T2 signature genes  
238 including CCL26 and NOS2 previously reported by Choy *et al* (37). The IL-4/IL-13 induced gene  
239 signature was distinct from the IL-6TS gene signature, and T2 stimulation of HBEC ALI cultures had no  
240 or only weak effect on the majority of IL-6TS specific genes (Figure 1D-F; Supplementary Figure S2A;  
241 Supplementary Table 3). Further, IL-6TS induced gene expression was completely blocked in presence of  
242 the JAK1 inhibitor, confirming the essential role of the JAK/STAT pathway for downstream IL-6  
243 signaling in lung epithelium (Figure 1H; Supplementary Figure S2B; Supplementary Table 4). Raw and  
244 processed data of all RNA sequencing experiments are deposited in the NCBI GEO database (accession  
245 number GSE113185).

246

#### 247 **IL-6TS specific gene signature in lung epithelium defines a novel subset of asthma patients**

248 To investigate whether the IL-6TS pathway is activated in airway epithelium of patients with asthma we  
249 analyzed the transcriptomic data derived from 103 central airways epithelial brushings from the U-  
250 BIOPRED asthma cohorts, including patients with mild to moderate (n= 36) and severe (n=49) asthma  
251 and smokers with severe asthma (n=18). Hierarchical clustering analysis based on the genes most strongly  
252 induced by IL-6TS in HBEC ALI cultures identified a set of eight co-clustered genes (TNFAIP6, PDE4B,  
253 IL1R2, S100A9, S100A8, S100A12, CHI3L1, and SPP1) that defined a clear subset of patients (n=17)  
254 with increased expression of these IL-6TS inducible genes (from now on referred to as the IL-6TS High  
255 subset) (Figure 2A). Unexpectedly, this IL-6TS High subset did not show increased levels of systemic IL-  
256 6 and sIL-6R as compared to the remaining asthma patients (n=86) (from now on referred to as the IL-  
257 6TS Low subset) or healthy controls (n=95) (Figure 2B). The IL-6TS High subset did show a robust  
258 increase in the expression of the main IL-6/JAK/STAT3 pathway genes, such as MCL-1, SOCS3, and  
259 MAPKAPK2 (38) as compared to IL-6TS Low and healthy controls (Figure 2C) confirming the  
260 connection between the IL-6TS High subset and IL-6 signaling. Taken together these results suggest that  
261 the identified IL-6TS High subset is driven by local rather than systemic IL-6 pathway activation.



262 To examine the IL-6TS High subset in relation to T2 inflammation the same group of patients (apart from  
263 smokers) was clustered based on the expression of the “T2 gene signature” (POSTN, CLCA1, and  
264 SERPINB2) previously shown to be a hallmark of T2 inflammation (39). There was no enrichment of  
265 patients with epithelial T2 signature in the IL-6TS High subset (Figure 2D).

266

267 **IL-6TS High patient subset is characterized by frequent exacerbations, eosinophilic airway**  
268 **inflammation and increased numbers of T cells and macrophages infiltrating the airway submucosa**

269 The IL-6TS High and Low subsets did not differ in respect to gender, steroid treatment, atopic status or  
270 smoking history. The proportion of patients with 3 or more exacerbations per year was significantly  
271 higher in the IL-6TS High subset as compared to the IL-6TS Low subset (Table 1, Supplementary Figure  
272 S3). Further, the number of patients with blood (>300/ $\mu$ L) and sputum (>20%) eosinophilia was  
273 significantly increased in the IL-6TS High subset, whereas the absolute numbers as well as the proportion  
274 of sputum macrophages was decreased as compared to the IL-6TS Low subset. Previous studies have  
275 shown IL-6 to be associated with neutrophilic inflammation (19, 40), but even though we observed a  
276 trend towards increased sputum neutrophil numbers in the IL-6TS High subset as compared to IL-6TS  
277 Low patients, the difference did not reach statistical significance.

278 Immunohistochemical analysis of bronchial biopsies showed significantly higher numbers of total  
279 immune cells including mast cells, neutrophils, eosinophils, T cells and macrophages in the submucosa of  
280 IL-6TS High vs IL-6TS Low asthmatics (Figure 3A). This difference was mainly driven by a striking  
281 increase in the infiltration of CD3<sup>+</sup>, CD4<sup>+</sup> and CD8<sup>+</sup> T cells and CD68<sup>+</sup> macrophages ( $p=0.0008$ ,  
282  $p=0.00007$ ,  $p=0.0003$ , and  $p=0.001$ ) but not by granulocytes (Table 1; Figure 3B and C).

283 **Reduced expression of genes related to lung epithelial barrier function in the IL-6TS High patient**  
284 **subset**

285 We found reduced expression of several genes involved in barrier function in the epithelial brushings  
286 from the IL-6TS High subset with major differences observed for the expression of the epithelial tight and  
287 adherent junction components  $\beta$ -catenin (CTNNB1), claudins 1, 8, and 18 (CLDN1/8/18), and zonula  
288 occludens-1 (ZO-1) (all  $q < 0.05$ ), while there was no difference in the expression of occludin (OCLN)  
289 (Figure 4A).

290 To evaluate the functional impact of IL-6TS on epithelial barrier integrity in vitro, we performed  
291 prolonged stimulation of HBEC ALI cultures and observed that a combination of IL-6/sIL-6R, but not IL-  
292 6 or sIL-6R on their own, resulted in extensive loss of epithelial integrity as measured by trans-epithelial



293 electrical resistance (TEER) (Figure 4B,C). These results suggest that IL-6TS specifically contributes to  
294 compromised epithelial integrity as a feature of asthma involving local activation of the IL-6TS pathway.

295

### 296 **Transcriptional profiling links the IL-6TS High subset with immune cell migration and TLR** 297 **signaling**

298 The separation of the identified IL-6TS High subset from the rest of the patients was evident also when  
299 comparing the global transcription profiles (20233 available mRNAs) in lung epithelial brushings.  
300 Remarkably, a total of 4417 transcripts were differentially expressed ( $q < 0.05$ ) in the IL-6TS High subset  
301 as compared to the IL-6TS low subset and 6491 as compared to healthy subjects.

302 The involvement of the differentially expressed transcripts in the IL-6TS High subset in specific  
303 pathophysiological processes was investigated by IPA (Ingenuity Pathway Analysis) disease function  
304 analysis. This showed a striking enrichment of genes involved in the activation of cell movement,  
305 especially migration and chemotaxis of leukocytes (Supplementary Table 5), an observation well-aligned  
306 with the increased submucosal infiltration of immune cells detected in the IL-6TS High subset (Figure 3).  
307 The activation of the same cell migration functions emerged after analysis of the transcripts induced by  
308 IL-6/sIL-6R stimulation of ALI cultures, providing a further connection between IL-6TS signaling and  
309 immune cell infiltration, as observed in the IL-6TS High subset (Supplementary Table 5).

310 MetaCore pathway analysis identified Toll-like receptor (TLR) signaling as the most strongly activated  
311 pathway in the IL-6TS High subset (Supplementary Table 6), which is in agreement with the  
312 identification of TLR2, TLR4, MYD88, and CD14 as up-regulated genes in these individuals (Figure  
313 5A). In addition, there was increased expression of TREM-1, which is known to co-operate with TLR  
314 signaling (41), and several pro-inflammatory mediators directly induced by TLR2 and TLR4, such as IL-  
315 8, CCL4 (MIP-1 $\beta$ ), IL-1 $\beta$ , IL-6, and TNF $\alpha$  (Figure 5A and B).

316

### 317 **Confirmation of the IL-6TS High asthma subset in independent replication cohorts**

318 Next we sought to confirm the existence of an IL-6TS High subset in two independent replication cohorts  
319 of asthma patients. Hierarchical clustering of transcriptomic data based on the IL-6TS specific 8-gene  
320 signature was done in a cohort including 38 mild to moderate and severe asthmatics (replication cohort 1;  
321 42,43) and in a cohort including 17 severe asthmatics with epithelial brushing samples from central and/or  
322 peripheral airways (replication cohort 2; 44). This analysis clearly clustered the patients from both cohorts  
323 into an IL-6TS High and an IL-6TS Low group (Supplementary Figure S4A,B). Importantly, the IL-6TS

324 High subset was, again, associated with the up-regulation of genes related to TLR signaling, including  
325 TLR2, MYD88, TREM-1 and CCL4 (Supplementary Figure S4C).

326

327 **IL-6TS surrogate sputum biomarkers YKL-40, MMP3, IL-8, MIP-1 $\beta$  and IL-1 $\beta$  define an IL-6TS**  
328 **High subset in Wessex severe asthma cohort**

329

330 A putative IL-6TS High patient subset was identified by hierarchical clustering of asthma patients  
331 (n=146; BTS Groups 4 and 5) from the Wessex severe asthma cohort (22) based on the levels of five  
332 sputum biomarkers strongly associated with IL-6TS, namely YKL-40 and MMP3 surrogate biomarkers  
333 induced by IL-6TS stimulation of ALI cultures in vitro (Figure 1F,G), and IL-8, MIP-1 $\beta$  and IL-1 $\beta$ ,  
334 which were found to be significantly over-expressed in epithelial brushings of IL-6TS High patients from  
335 U-BIOPRED cohort (Figure 5B).

336 The Wessex IL-6TS High subset (n=24) was comparable with the U-BIOPRED IL-6TS High subset in  
337 size (around 16% of the asthma patients in both cohorts) as well as in clinical characteristics (Figure 6A;  
338 Table 2), including significantly increased blood eosinophil numbers (p=0.0008), higher percentage of  
339 patients with blood eosinophilia (>300/ $\mu$ L; p=0.0004) and a reduced proportion of sputum macrophages  
340 (p=0.009). In addition, sputum neutrophils were elevated in the Wessex IL-6TS High patient subset  
341 (p=0.01).

342 Importantly, the Wessex IL-6TS High subset was associated with significantly increased levels of sputum  
343 sIL-6R (p<0.0001) and sputum IL-6 (p<0.0001), while there was no difference in serum CRP (Figure 6B-  
344 D), providing evidence for a local IL-6TS driven inflammation. Also, there was no difference in the levels  
345 of classical T2 biomarkers, including serum Periostin (Figure 6E) or sputum IL-5 and Eotaxin  
346 (Supplementary Figure S5E,F).

347

348 **Discussion**

349

350 Although increased levels of IL-6 and sIL-6R in patients with asthma have been observed by others (22,  
351 23, 45), the molecular understanding of the role of IL-6 signaling in asthmatic airways is limited. Here we  
352 generated a gene signature induced by activation of IL-6 trans-signaling (IL-6TS) in HBEC ALI cultures  
353 and used this signature to identify an asthma patient subset in the U-BIOPRED cohorts with signs of lung  
354 epithelial IL-6TS pathway activation. We revealed that the IL-6TS driven asthma patients were  
355 characterized by a history of frequent exacerbations and significantly increased submucosal infiltration of  
356 T cells and macrophages. Furthermore, they showed a reduced expression of genes regulating epithelial

357 barrier function and an increased expression of TLR pathway activation and remodeling genes in their  
358 epithelial brushings. Interestingly, the IL-6TS High asthma subset had increased blood eosinophil counts  
359 despite not being enriched with patients with type 2 (T2) inflammation in the lung epithelium. This  
360 suggests that the eosinophilia observed in the IL-6TS High subset is disconnected from T2 inflammation  
361 and results as a direct or indirect consequence of IL-6 signaling in the airways. Our results emphasize that  
362 asthma patients with eosinophilia need to be further stratified with respect to the biological driver of the  
363 eosinophilic lung infiltration, which may not necessarily be T2 inflammation (39). Although the  
364 understanding of the mechanism leading to systemic eosinophilia in the IL-6TS High subset requires  
365 further studies, it is tempting to speculate that IL-6TS promotes the observed phenotype by inducing the  
366 expression of IL-33, which is a potent activator of mature eosinophils (46), and it can also regulate  
367 eosinophil development within the bone marrow (47) and within the tissue (48). In support of this  
368 hypothesis, IL-33 was one of the genes most strongly induced upon stimulation of primary bronchial  
369 epithelial cells with IL-6/sIL-6R, but not with IL-4/IL-13 (Figure 1D,F and Supplementary Figure S1B).

370 Importantly, despite upregulation of IL-6/JAK/STAT3 pathway genes in epithelial brushings from the IL-  
371 6TS High subset, these patients did not show increased serum IL-6 and sIL-6R levels. This suggests that  
372 the IL-6TS High subset described in this study is distinct from the recently described IL-6 high asthma  
373 subset characterized by systemic IL-6 inflammation, metabolic dysfunction and obesity (19), and instead  
374 represents a separate entity with local IL-6TS driven airway inflammation.

375 Activation of the IL-6 pathway has previously been associated with neutrophilic and mixed granulocytic  
376 airway inflammation in asthmatics (49, 50). A connection between IL-6 dependent inflammation and a  
377 mixed granulocytic phenotype was observed also in a mouse cockroach induced asthma model, where  
378 specific blocking of IL-6TS reduced accumulation of both eosinophils and neutrophils in BALF (49).  
379 However, while the IL-6TS High subset described in this study was significantly enriched with highly  
380 eosinophilic patients, there were no significant differences in blood or sputum neutrophils between the IL-  
381 6TS High and Low subsets. Instead we observed a striking increase of airway submucosal T cell  
382 populations and macrophages in the IL-6TS High subset, indicating an increased airway inflammation in  
383 these patients. In line with this observation, a link between the IL-6TS High subset and activation of  
384 immune cell migration was shown by the IPA analysis of differentially expressed transcripts between the  
385 IL-6TS High and IL-6TS low subsets. The correlation between IL-6TS and immune cell infiltration is  
386 also consistent with previous studies showing that IL-6TS is essential for macrophage and T cell  
387 recruitment to the site of acute inflammation in mice (11, 51). IL-6TS has been proposed to coordinate a  
388 temporal switch from initial infiltration of neutrophils to a more sustained population of mononuclear  
389 leukocytes by regulating the expression of CXC and CC chemokines (11), which could potentially

390 explain the absence of a strong neutrophilic inflammation component in the airways of patients in the U-  
391 BIOPRED IL-6TS High subset.

392 Another key feature of the IL-6TS High asthma patients was decreased levels of several tight junction  
393 transcripts, with particularly low levels of claudins (1, 8 and 18) and  $\beta$ -catenin. Furthermore, we  
394 demonstrated that IL-6TS impairs epithelial integrity in vitro in HBEC ALI-cultures providing a direct  
395 link between IL-6TS and epithelial dysfunction. Previous reports have shown that dysfunctional tight  
396 junctions are closely connected to the severity and progression of asthma, and that decreased expression  
397 of tight junction proteins such as ZO-1, claudins and  $\beta$ -catenin in asthma patients may result in tight  
398 junction disruption and declining epithelial barrier function (52-55).

399 Epithelial barrier defects and reduced tight junction integrity in the intestines are linked to microbial  
400 dissemination and inflammation through TLR signaling, and it has been shown that *H. influenzae* and *S.*  
401 *pneumoniae* exploit TLR2 and TLR4-mediated down-regulation of tight junction components to facilitate  
402 translocation across lung epithelium (56-58). Notably, TLR signaling was the most significantly activated  
403 pathway in the IL-6TS High subset as shown by MetaCore pathway analysis of differentially expressed  
404 transcripts. Besides the significant upregulation of essential TLR pathway molecules, the patients in the  
405 IL-6TS High subset also exhibited significantly increased expression of pro-inflammatory mediators (IL-  
406 8, CCL-4 (MIP-1 $\beta$ ), IL-1 $\beta$ , IL-6, and TNF $\alpha$ ) known to be induced in response to TLR2 and TLR4  
407 triggering (59, 60). These results point to hyper-activation of TLR pathways in response to bacterial  
408 colonization as one possible cause of the reduced expression of tight junction proteins and the promotion  
409 of submucosal inflammation. An important clinical phenotype of the IL-6TS High subset was the history  
410 of frequent exacerbations, which could be related to colonization of the airways with pathogens such as  
411 *H. influenzae* (61) triggering an un-controlled innate inflammatory response.

412 The potential connection between the IL-6TS High subset and microbial colonization is supported by a  
413 recent publication showing increased sputum bacterial numbers in a subset of asthma and COPD patients,  
414 the so called “cluster 2” or “IL-1 $\beta$  High - cluster”, which is also characterized by significantly increased  
415 sputum IL-6 and sIL-6R (45).

416 In a replication cohort of treatment-resistant severe asthmatics all receiving high doses of inhaled steroids  
417 (44), the IL-6TS specific signature was present in nearly half of the patients suggesting that the IL-6TS  
418 High phenotype correlates with disease severity. In yet another replication cohort consisting of mild to  
419 moderate and severe asthmatics (42,43), the IL-6TS High subset overlapped with the majority of severe  
420 asthmatics, further strengthening the association of epithelial IL-6TS with asthma severity.

421 It should be noted that the identification of the IL-6TS High subset in the U-BIOPRED cohort was based  
422 on a relatively small number of epithelial brushings with available transcriptomic data. To overcome this  
423 limitation we validated the findings from U-BIOPRED in a larger sputum biomarker dataset obtained  
424 from the Wessex severe asthma cohort (22). In this cohort a putative IL-6TS High subset was identified  
425 by hierarchical clustering of asthma patients based on the levels of the IL-6TS surrogate biomarkers  
426 YKL-40, MMP3, IL-8, MIP-1 $\beta$  and IL-1 $\beta$  in induced sputum. As in U-BIOPRED, the Wessex IL-6TS  
427 High patients were characterized by blood eosinophilia, without a significant increase of T2 biomarkers.  
428 Furthermore, the IL-6TS High subset was associated with increased sputum neutrophils, supporting the  
429 connection between IL-6 signaling and neutrophilic inflammation proposed by other studies (19, 40).  
430 Finally, the significantly increased sputum levels of sIL-6R and IL-6 directly link the Wessex IL-6TS  
431 High subset to a local IL-6-driven inflammatory response.

432 The role of the local IL-6 signaling as a disease driver in chronic airway disease is further supported by a  
433 transgenic mouse model driven by local over-expression of IL-6 in lung tissue. These mice showed  
434 emphysema-like airspace enlargement, thickening of airway walls, sub-epithelial airway fibrosis and  
435 accumulation of mononuclear immune cells in the peribronchiolar space (62).

436 In conclusion, we used an IL-6TS specific epithelial gene signature to identify and describe a novel  
437 asthma patient subset with IL-6TS pathway activation in the lung epithelium as a biological driver. We  
438 showed that these patients constitute a molecular phenotype characterized by an increased exacerbation  
439 rate, T2 inflammation-independent eosinophilia, increased submucosal inflammation, activation of innate  
440 signaling pathways, increased markers of airway remodeling and decreased expression of epithelial  
441 junctions components. This novel IL-6TS High asthma subset appears to be associated with poor asthma  
442 control and our results may provide one further step towards a stratified medicine approach to addressing  
443 a significant unmet medical need in severe asthma patients.

444

## 445 **Acknowledgements**

446 We thank Maryam Clausen from AstraZeneca, Discovery Sciences for the support with NGS sequencing.  
447 We are grateful for assistance from Clair Barber, Hitasha Rupani, Tom Brown and Ramesh  
448 Kurukulaaratchy who contributed to sample collection, processing and recruitment. The study was  
449 performed on behalf of The U-BIOPRED Study Group with input from the U-BIOPRED Patient Input  
450 Platform and patient representatives from the Ethics Board and Safety Management Board. We thank all  
451 the members of each recruiting center for their dedicated effort, devotion, promptness and care in the  
452 recruitment and assessment of the participants in this study.

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## 674 **Tables and figure legends**

675 **Table 1. Clinical Characteristics of IL-6TS High vs IL-6TS Low subjects from the U-BIOPRED**  
 676 **asthma cohorts.**

677 **Table 2. Clinical Characteristics of IL-6TS High vs IL-6TS Low subjects from the Wessex severe**  
 678 **asthma cohort.**

679 **Figure 1: IL-6TS induces a specific JAK1-dependent gene expression pattern that is distinct from**  
 680 **type 2 inflammation signature in ALI cultures.** Primary HBEC ALI cultures were stimulated with IL-  
 681 6, IL-6/sIL-6R, or IL-4/IL-13. Cells were pretreated (30 min) with a JAK1 inhibitor (JAK1i) or DMSO  
 682 control where indicated **A-C**) STAT3 phosphorylation. **A, B**) Data are representative of two independent  
 683 experiments. **C**) 3 different HBEC donors (mean and standard deviations; \* \*\*\*\* $P \leq 0.0001$ ; unpaired t-  
 684 test). **D, E**) Cells were stimulated for 24h and gene expression was assessed by RNA sequencing,  
 685 normalized and compared to non-stimulated control. The most up-regulated genes are shown as heat maps  
 686 of log<sub>2</sub>FC (log<sub>2</sub> Fold Change). **F**) The expression of indicated genes was analyzed by qPCR. Mean  
 687 log<sub>2</sub>FC values from 3 HBEC donors. **G**) Secreted levels of YKL-40 and MMP3 after 24h stimulation  
 688 with IL-6 and sIL-6R from 6 HBEC donors. (\*\* $P \leq 0.01$  and \*\*\* $P \leq 0.001$ ; unpaired t-test) **H**) Cells were  
 689 stimulated for 24h with IL-6/sIL-6R. The effect of IL-6/sIL-6R (vs DMSO, first column) and the effect of  
 690 JAK1i on IL-6/sIL-6R stimulation (IL-6/sIL-6R/JAK1i vs IL-6/sIL-6R/DMSO, second column) for the  
 691 top-induced genes in D) is shown as a heat map of log<sub>2</sub>FC.

692 **Figure 2: IL-6TS specific gene signature in bronchial epithelium defines a new IL-6TS High patient**  
 693 **subset within the U-BIOPRED asthma cohorts.** **A)** Hierarchical clustering of patients with  
 694 transcriptomic data derived from bronchial brushings (n = 103) using the IL-6TS specific gene signature  
 695 (TNFAIP6, PDE4B, IL1R2, S100A9, S100A8, S100A12, CHI3L1, and SPP1). High gene expression is  
 696 denoted by red and low expression by blue. The subset of patients with increased IL-6TS gene signature  
 697 (IL-6TS High) is highlighted (red box). **B)** Serum levels of IL-6 and sIL-6R presented as change in  
 698 relative fluorescence units (RFU). **C)** Gene expression scores for the main IL-6/JAK/STAT3 pathway  
 699 genes in bronchial brushings calculated from normalized and zero-centered gene expression values.  
 700 Protein (B) and mRNA levels (C) from IL-6TS High group (n=17) were compared to the rest of  
 701 asthmatics (IL-6TS Low; n=86) and to healthy controls (n=44). Statistically significant differences are  
 702 indicated (Kruskal-Wallis test for protein levels ( $p \leq 0.05$ ); Benjamini-Hochberg test for gene expression  
 703 ( $q \leq 0.05$ )). **D)** Percentage of subjects with high expression of epithelial type 2 inflammation (T2) specific  
 704 gene signature. The distribution of T2 asthmatics was not significantly different ( $p = 0.70$ ; Chi Square test)  
 705 between the two groups. ns-not significant.

706 **Figure 3: The U-BIOPRED IL-6TS High subset is characterized by significantly higher numbers of**  
 707 **T cell and macrophage infiltration in submucosa.** Immunohistochemical analysis of immune cells in  
 708 glycol methacrylate resin-embedded biopsies from IL-6TS High (n=17) and Low (n=70) asthma patients  
 709 from the U-BIOPRED asthma cohorts. **A)** Total immune cells. **B)** AA1<sup>+</sup> mast cells, elastase<sup>+</sup> neutrophils  
 710 and EG2<sup>+</sup> eosinophils. **C)** CD4<sup>+</sup>, CD8<sup>+</sup>, CD3<sup>+</sup> T cells and CD68<sup>+</sup> macrophages. Statistically significant  
 711 differences ( $p \leq 0.05$ ; Kruskal-Wallis test; ns-not significant) are indicated.

712 **Figure 4: Decreased expression of epithelial junction proteins in IL-6TS High asthmatics from U-**  
 713 **BIOPRED cohorts.** **A)** mRNA levels of epithelial junction components in bronchial brushings from the  
 714 U-BIOPRED asthma cohorts. Gene expression from IL-6TS High group (n=17) was compared to the rest  
 715 of asthmatics (IL-6TS Low; n=86) and to healthy controls (n=44). Gene expression scores, calculated  
 716 from normalized and zero-centered gene expression values, are shown. Statistically significant differences  
 717 are indicated ( $q \leq 0.05$ ; Benjamini-Hochberg test). **B)** TEER (trans-epithelial electrical resistance) was  
 718 measured in HBEC ALI-cultures after stimulation with sIL-6R (150 ng/ml), IL-6 (150 ng/ml) and IL-  
 719 6/sIL-6R (both 150 ng/ml). Data are representative of two independent experiments (\*\* $P \leq 0.01$  and  
 720 \*\*\* $P \leq 0.001$ ; unpaired t-test). **C)** The effect of IL-6TS on the reduction of epithelial integrity after 48h  
 721 stimulation with 20ng/mL IL-6 and 50ng/mL sIL-6R was confirmed in 6 different HBEC donors  
 722 (\*\*\* $P \leq 0.001$ ; unpaired t-test).

723 **Figure 5: TLR pathway genes are up-regulated in bronchial brushings from U-BIOPRED IL-6TS**  
 724 **High asthmatics.** mRNA levels of **A)** TLR signaling and co-stimulatory molecules and **B)** TLR

725 signaling-inducible pro-inflammatory mediators in bronchial brushings from the U-BIOPRED asthma  
726 cohorts. Gene expression from IL-6TS High group (n=17) were compared to the rest of asthmatics (IL-  
727 6TS Low; n=86) and to healthy controls (n=44). Gene expression scores are calculated from normalized  
728 and zero-centered gene expression values. Statistically significant differences are indicated ( $q \leq 0.05$ ;  
729 Benjamini-Hochberg test).

730 **Figure 6: Identifying and characterizing the IL-6TS High subset in the Wessex asthma cohort**  
731 **based on IL-6TS surrogate biomarkers in sputum. A)** Identification of the IL-6TS High subset in the  
732 Wessex asthma cohort by hierarchical clustering of patients (BTS Groups 4 and 5; n=146) based on high  
733 (red) vs low (blue) expression of the IL-6TS High surrogate biomarkers YKL-40, IL-8, MIP-1 $\beta$ , IL-1 $\beta$   
734 and MMP3 in sputum. The subset of patients with increased IL-6TS gene signature (IL-6TS High) is  
735 highlighted (red box). **B, C)** Sputum sIL-6R and IL-6 in the Wessex IL-6TS High compared to Low  
736 subset and healthy controls. **D, E)** Serum CRP and Periostin in the Wessex IL-6TS High compared to  
737 Low subset and healthy controls. Log<sub>10</sub> transformed data are shown. Values below the detection range  
738 are marked by squares. Median values and statistically significant differences are indicated (Kruskal-  
739 Wallis test ( $p \leq 0.05$ ); ns-not significant).

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Table 1. Clinical Characteristics of IL-6TS High vs IL-6TS Low subjects from the U-BIOPRED asthma cohorts.

Parameter	IL-6TS High	IL-6TS Low	P
Group size	17	86	
Female (%)	41.2	53.5	0.35
Body mass index (kg/m <sup>2</sup> )	28.3 ± 1.6	29.1 ± 0.6	0.70
Age (years)	43.9 ± 3.9	46.2 ± 1.5	0.59
Severe asthmatics (%)	70.0	64.0	0.6
Severe asthmatics - smokers (%)	11.8	18.6	0.5
Never smokers (%)	70.6	68.6	0.87
Pack years	17.8 ± 12.1	16.0 ± 3.5	0.78
ICS - High dose (%)	70.6	63.9	0.60
Maintenance OCS (%)	37.5 (n=16)	26.8 (n=82)	0.39
FEV <sub>1</sub> % (L)	77.8 ± 5.8	80.7 ± 2.3	0.56
Exacerbations (No/previous year)	3.0 (2.3-4.0) (n=10)	2.0 (1.0-3.0) (n=52)	0.096
Exacerbations, 3 or more/previous year (%)	70.0 (n=10)	36.5 (n=52)	0.049*
History of exacerbations (No/year)	2.5 (0.0-4.0) (n=16)	1 (0.0-2.0)	0.13
History of exacerbations, 3 or more/year (%)	50.0 (n=16)	23.3	0.028*
Positive atopic status (%)	87.5 (n=16)	79.0 (n=76)	0.43
Total IgE (IU/mL)	131 (43-566)	105 (40-290)	0.48
Serum CRP (µg/mL)	2 (0.6-5.0)	1.4 (0.6-3.2)	0.64
FeNO ppb	22.7 (19.0-48.8) (n=16)	23.8 (16.0-54.5) (n=82)	0.98
Blood eosinophils (x1000/µL)	0.3 (0.14-0.5)	0.2 (0.1-0.3)	0.050*
≥300/µL Blood eosinophils (%)	58.8	31.4	0.031*
>300/µL Blood eosinophils (%)	47.0	15.1	0.0028*
% Sputum eosinophils	1.7 (0.8-26.2) (n=10)	0.7 (0-4.6) (n=33)	0.14
>3% Sputum eosinophils (%)	40.0 (n=10)	33.3 (n=33)	0.70
>20% Sputum eosinophils (%)	40.0 (n=10)	6.1 (n=33)	0.007*
Blood neutrophils (x1000/µL)	4.4 (3.4-7.3)	4.1 (3.0-5.9)	0.46
% Sputum neutrophils	61.9 (47.7-76.5) (n=10)	45.3 (31.9-63.4) (n=33)	0.13
>60% Sputum neutrophils (%)	50.0 (n=10)	30.3 (n=33)	0.25
% Sputum macrophages	16.7 (7.2-28.4) (n=10)	44.0 (27.6-63.7) (n=33)	0.0089*
Sputum macrophages (No)	125.0 ± 36.9 (n=10)	235.3 ± 20.7 (n=33)	0.011*
Submucosal CD3 <sup>+</sup> T cells (cells/mm <sup>2</sup> )	70.8 ± 15.0 (n=17)	35.7 ± 3.6 (n=70)	0.0008*
Submucosal CD4 <sup>+</sup> T cells (cells/mm <sup>2</sup> )	29.3 ± 6.3 (n=17)	10.9 ± 1.3 (n=70)	0.00007*
Submucosal CD8 <sup>+</sup> T cells (cells/mm <sup>2</sup> )	38.2 ± 6.9 (n=17)	17.2 ± 1.9 (n=70)	0.0003*
Submucosal CD68 <sup>+</sup> macrophages (cells/mm <sup>2</sup> )	7.0 ± 1.3 (n=17)	3.1 ± 0.4 (n=70)	0.0011*

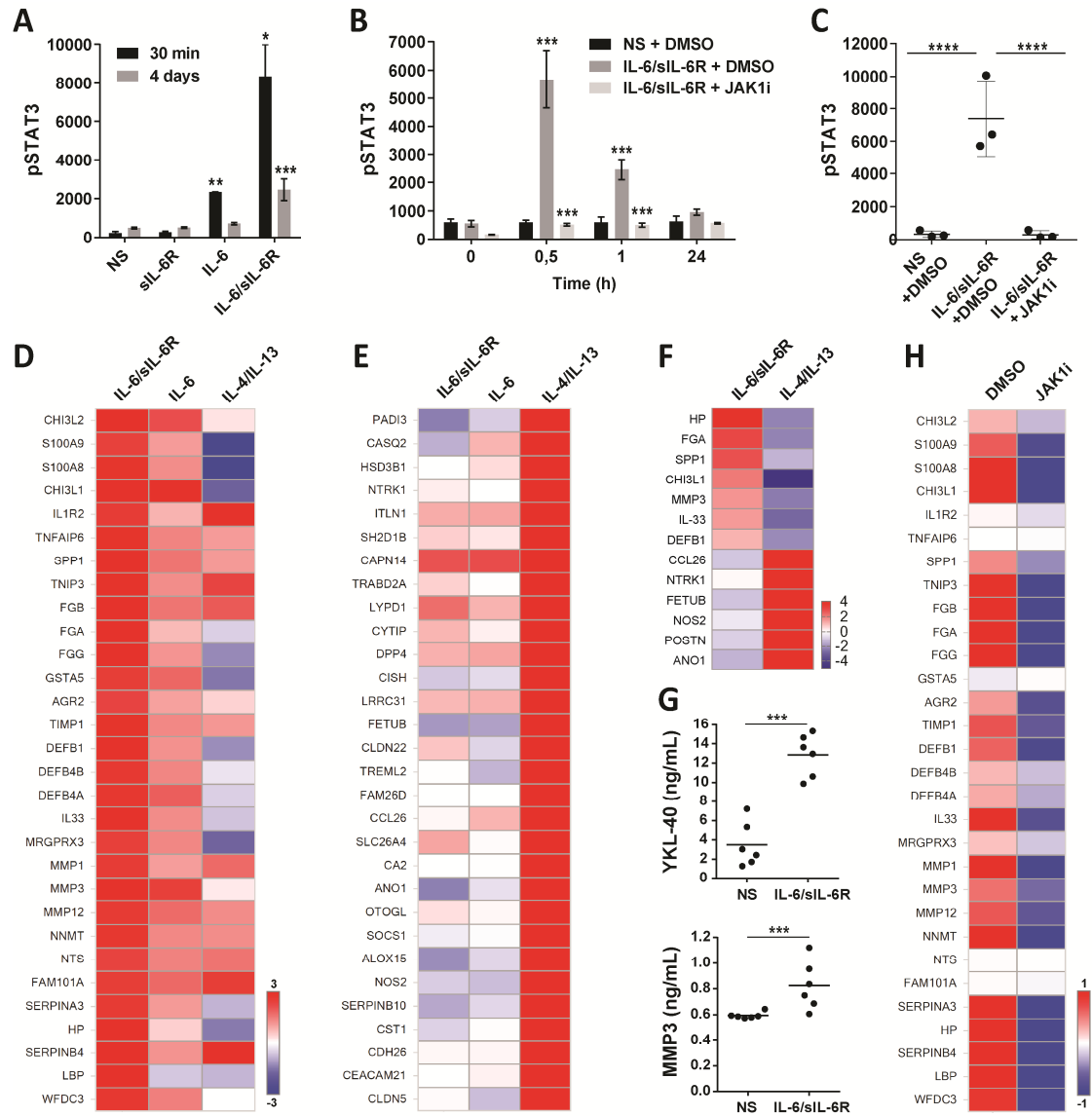
Data are presented %, mean ± SE or median (interquartile range (q1-q3)); Number of subjects is 17 in the IL-6TS High subset and 86 in the IL-6TS Low subset, unless stated otherwise (n); p – Kruskal-Wallis test was used for continuous data and Chi Square test for categorized data; \*- statistically significant (P<0.05); CRP - C-reactive protein; ICS – inhaled corticosteroids; ICS - High dose -1000 µg or more fluticasone or equivalent; OCS - oral corticosteroids.

**Table 2. Clinical Characteristics of IL-6TS High vs IL-6TS Low subjects from the Wessex severe asthma cohort.**

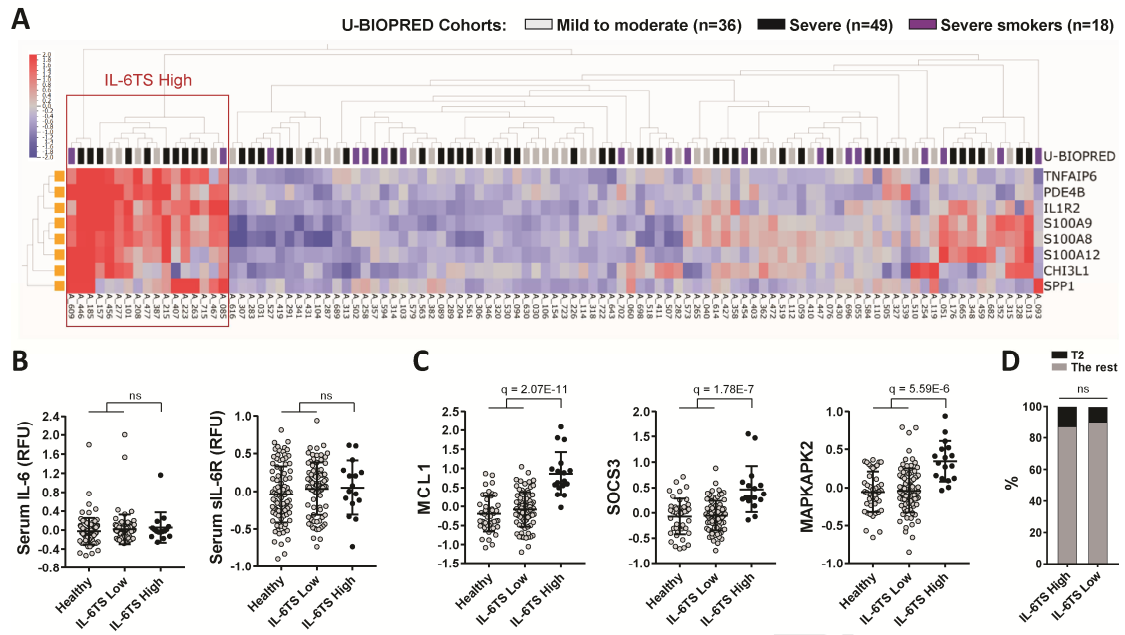
Parameter	IL-6TS High	IL-6TS Low	P
Group size	24	122	
Female (%)	58.3	57.4	0.93
Body mass index (kg/m <sup>2</sup> )	31.8 ± 0.7	30.7 ± 1.4	0.57
Age (years)	46.5 ± 2.6	51.3 ± 1.1	0.09
Current smokers (%)	8.3	8.2	0.98
Never smokers (%)	50.0	48.4	0.59
Pack years	10.2 ± 3.7	9.9 ± 1.3	0.76
ICS dose (equivalent µg of BDP)	1940 (1600-2000)	1940 (1600-2060)	0.67
Maintenance OCS (%)	29	31 (n=119)	0.79
Prednisolone dose (amongst OCS users)	10 (10-10)	10 (5-15)	1.00
FEV <sub>1</sub> % (L)	66.5 ± 2.1	63.9 ± 4.4	0.62
Positive atopic status (%)	79.2	69.7	0.35
Total IgE (IU/mL)	126 (25-384) (n=23)	190 (68-531) (n=113)	0.19
FeNO ppb	23 (13.3-42.5) (n=23)	14 (8.3-24.9) (n=109)	0.023*
Blood eosinophils (x1000/µL)†	0.51 (0.34-0.91)	0.21 (0.11-0.49)	0.0008*
≥300/µL Blood eosinophils (%)	79.2	38.7	0.0004*
>300/µL Blood eosinophils (%)	79.2	38.7	0.0004*
% Sputum eosinophils	1 (0.33-7.65) (n=23)	1.25 (0.25-8.5) (n=113)	0.88
>3% Sputum eosinophils (%)	30.4 (n=23)	43.4 (n=113)	0.25
>20% Sputum eosinophils (%)	8.7 (n=23)	14.2 (n=113)	0.48
Blood neutrophils (x1000/µL)†	6.07 (3.9-7.5)	6.12 (4.4-8.1)	0.60
% Sputum neutrophils	68.4 (42.8-80.3)	45.4 (26.1-64.1)	0.010*
>60% Sputum neutrophils (%)	62.5	31.1	0.004*
% Sputum macrophages	18.8 (6.7-36.5)	36.2 (23.6-56.0)	0.009*

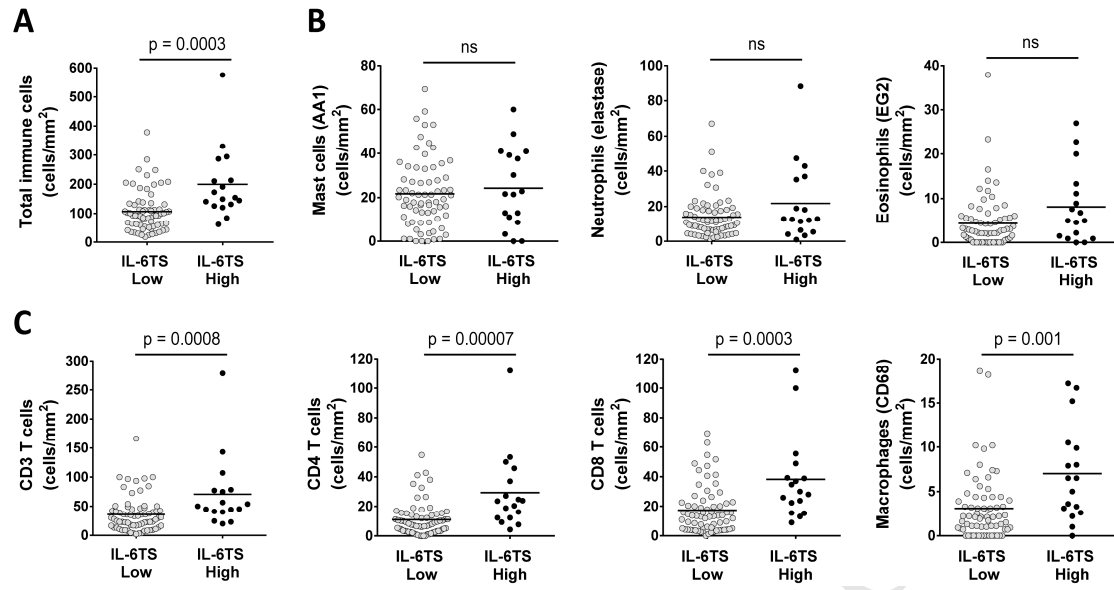
Data are presented as %, mean ± SE or median (interquartile range (q1-q3)); Number of subjects is 24 in the IL-6TS High subset and 122 in the IL-6TS Low subset, unless stated otherwise (n); p – Kruskal-Wallis test was used for continuous data and Chi Square test for categorized data; \*- Statistically significant (P≤0.05); †-Statistical tests were performed on transformed data; ICS – inhaled corticosteroids; OCS - oral corticosteroids; BDP, beclomethasone dipropionate.

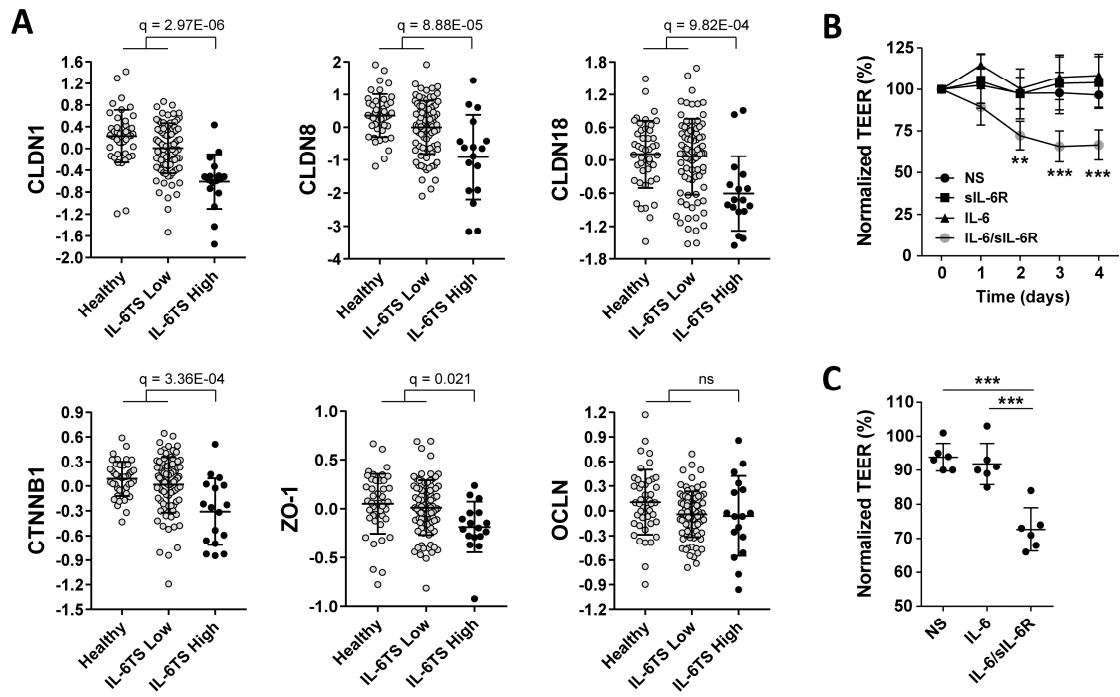




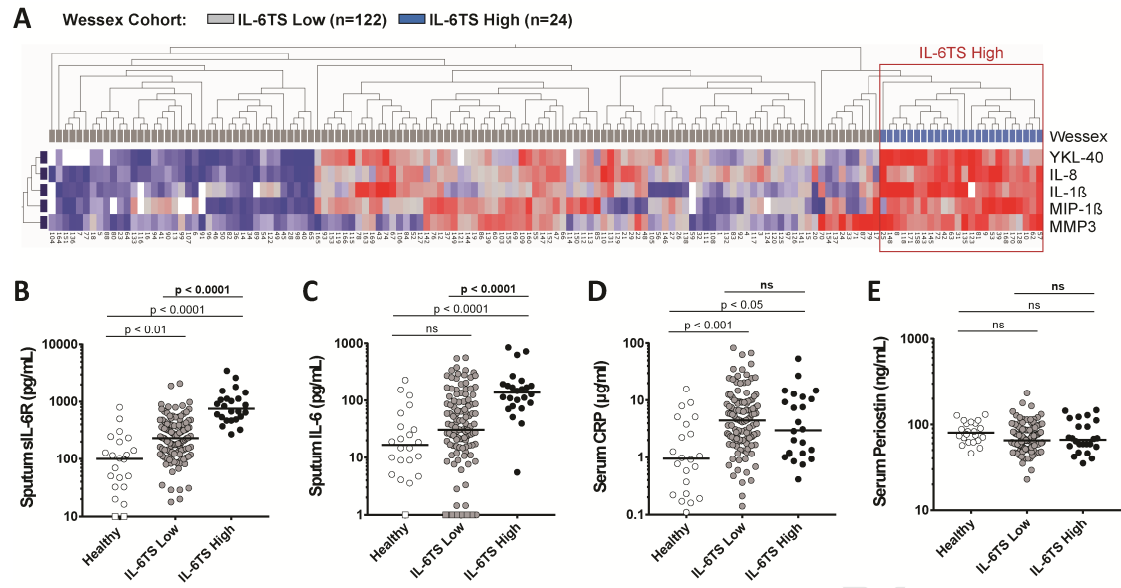


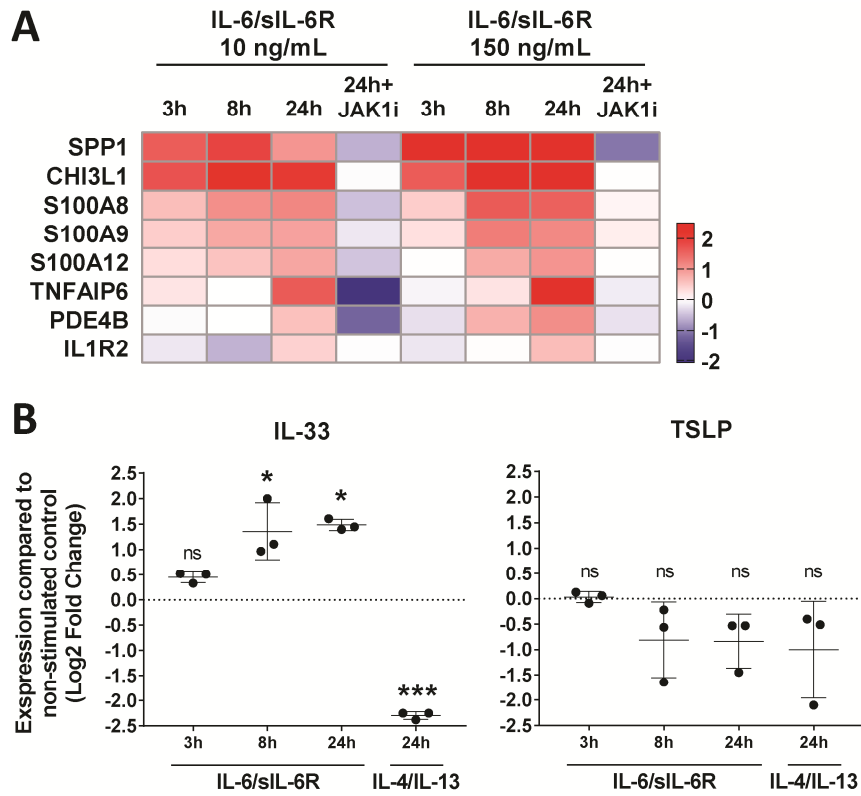


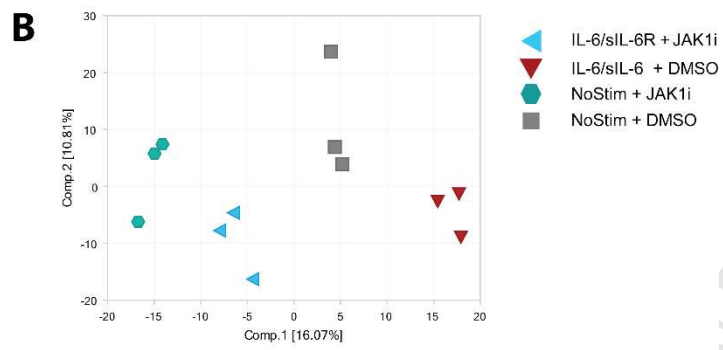
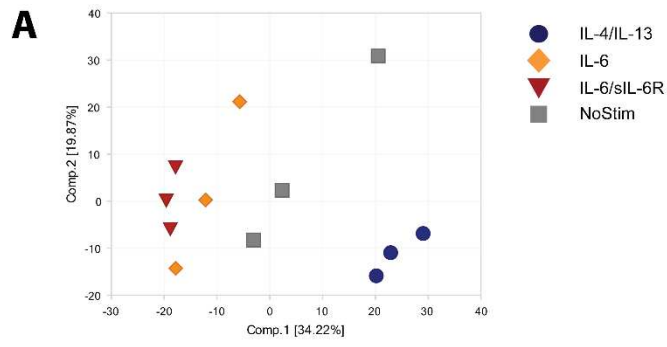


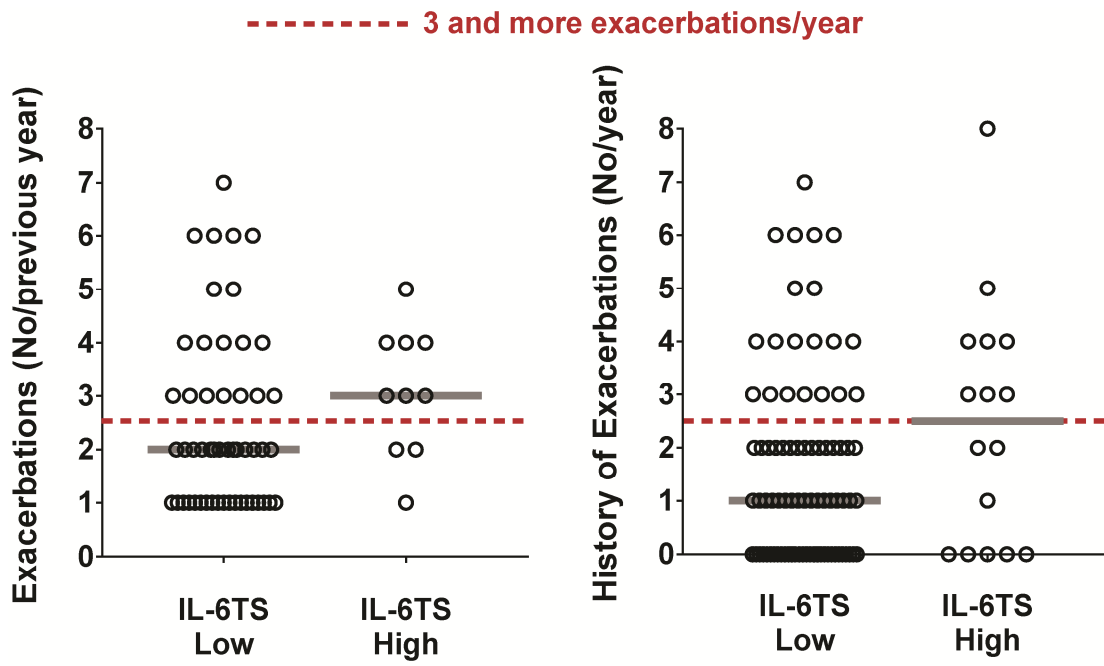




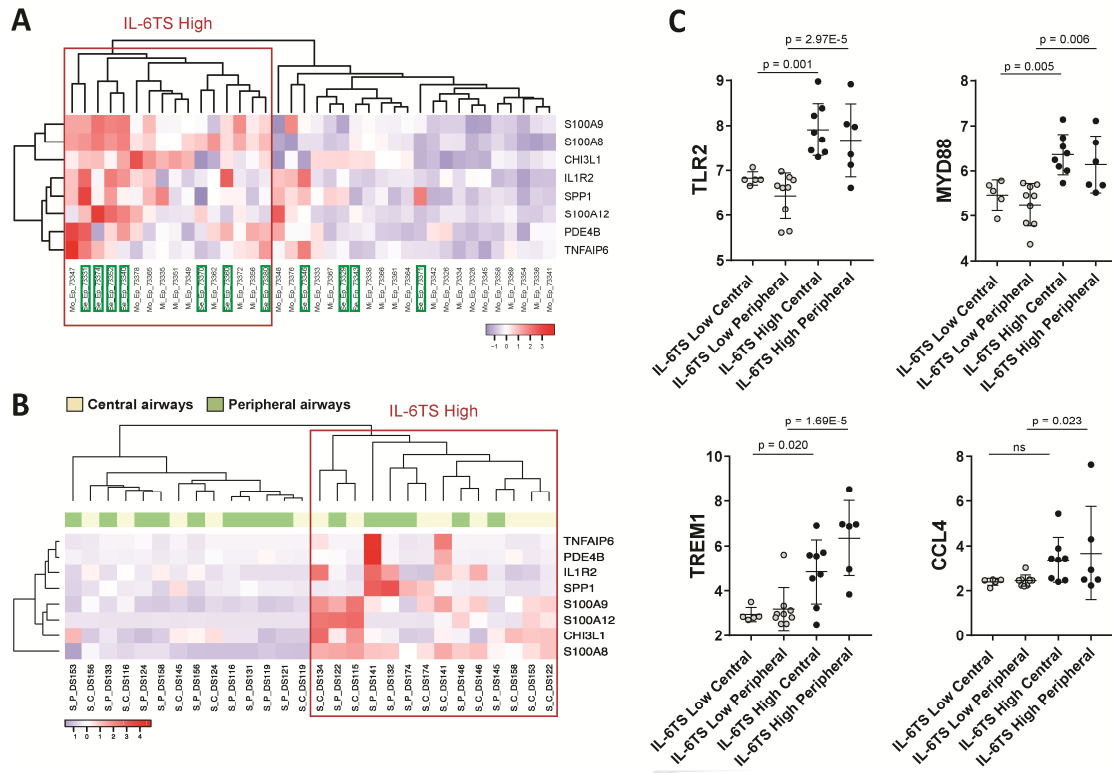


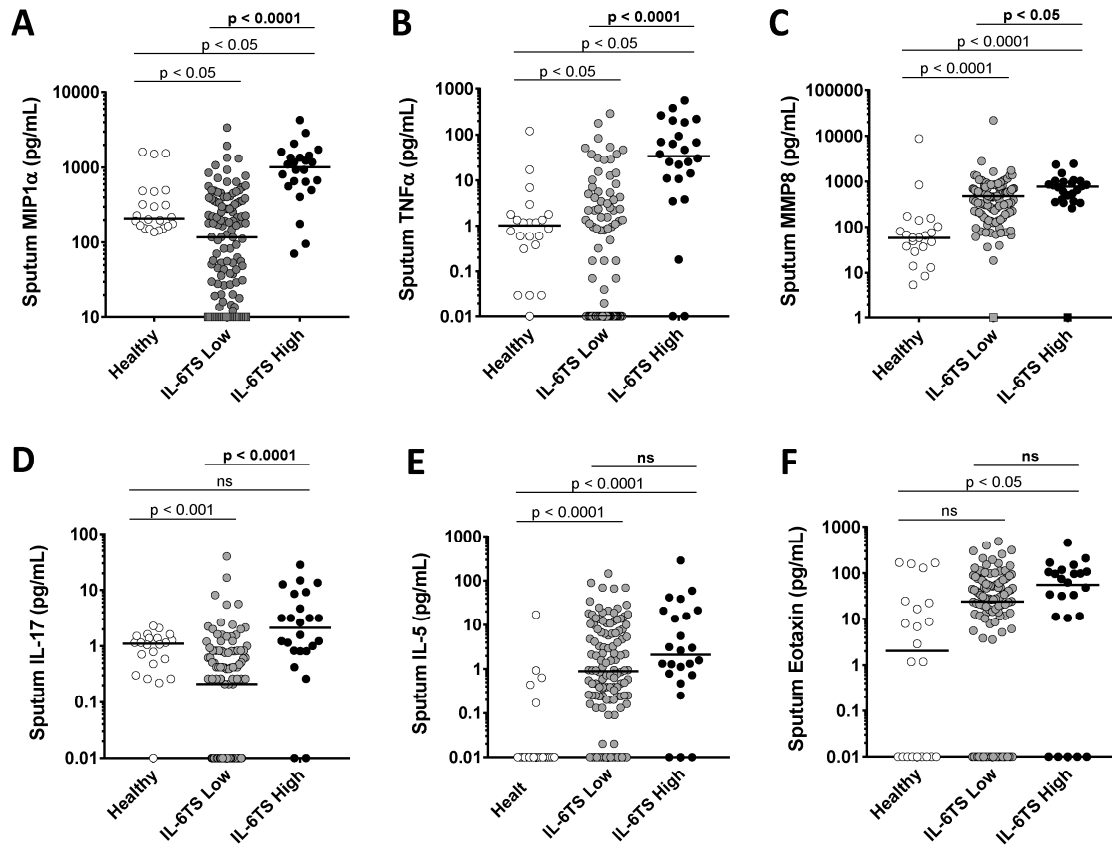












**1 Online Repository materials****2 Supplemental methods****3 RNA isolation and Next Generation RNA sequencing**

4 After 24h stimulation, HBEC ALI cultures were lysed in QIAzol Lysis Reagent (Qiagen), scraped off the  
5 wells and briefly vortexed. RNA was isolated using the RNeasy Mini Kit (Qiagen) following the  
6 manufacturer's instruction and RNA integrity was assessed (Bioanalyzer 2100, Agilent). RNA was  
7 diluted to 10 ng/μl and converted to mRNA libraries using the TruSeq Stranded mRNA kit (Illumina)  
8 with dual indexing following standard instructions but with 5 min fragmentation time. Libraries were  
9 validated on the Fragment Analyzer platform (AATI) using a standard sensitivity NGS fragment analysis  
10 kit, and concentrations were determined using the Quant-iT dsDNA High Sensitivity assay kit on the  
11 Qubit fluorometer (Thermo Fisher Scientific). Sample libraries were pooled in equimolar concentrations,  
12 diluted and denatured according to Illumina guidelines. Sequencing was performed using a High Output  
13 flow cell on an Illumina NextSeq500 in 2 x 76 cycles. Two separate RNA sequencing (RNA-seq) studies  
14 were performed: The "IL-6 vs T2 study" compared gene expression after stimulation with control  
15 medium, IL-6, IL-6/sIL-6R and IL-4/IL-13, while the "JAK1-inhibition study" addressed the effect of  
16 JAK1 inhibition on IL-6TS induced gene expression. RNA sequencing (RNA-seq) fastq files were  
17 processed separately using bcbio-nextgen (version 0.9.9a-1ccf093 / 0.9.7) where reads were mapped to  
18 the human genome build hg38 (GRCh38.79) using hisat2 (version 2.0.4 / 2.0.2-beta) (63). The  
19 sequencing depth used in the IL-6 vs T2 study was 31.2-53.1 M mapped reads per sample (39.8 M on  
20 average) with a 96% mapping frequency or higher while 23.9-41.1 M mapped reads per sample (32.2 M  
21 on average) with a 93% mapping frequency or higher were used for the Jak1 inhibition study. Gene level  
22 quantifications (counts) were generated with featurecounts (version 1.4.4 / 1.4.4) (64) within bcbio.  
23 ArrayStudio (version 9 / 9; OmicSoft) was used for further data analysis. Differential gene expression was  
24 assessed with DESeq2 (65), using raw counts as input. Genes were considered significantly differentially  
25 expressed if they had a  $q < 0.05$  with Benjamini-Hochberg multiple correction. Principal component  
26 analysis (PCA) was performed separately for each RNA-seq study, using the top 1000 most variable  
27 genes (log<sub>2</sub>-transformed DESeq-normalized counts and interquartile range (IQR) as variability  
28 measurement). For illustrative purposes of gene-regulations, estimates (log<sub>2</sub>-ratios) for individual  
29 comparisons were used as input for heat maps. Values outside of the defined range for individual heat  
30 maps were set to maximal intensity. Up-regulation is denoted by red and down-regulation by blue.

**31 Reverse transcriptase quantitative PCR (RT-qPCR)**

32 For RT-qPCR, total RNA was converted into cDNA using the High-Capacity cDNA Reverse  
33 Transcription Kit (Applied Biosystems). The qPCR was run with the comparative Ct method on a  
34 QuantStudio 7 Flex Real-Time PCR system (Thermo Fisher Scientific) using TaqMan™ Fast Advanced  
35 Master Mix (Thermo Fisher Scientific). Probes from TaqMan Real-Time PCR Assays (Thermo Fisher  
36 Scientific) were used for gene expression. The expression was normalized to the housekeeping gene  
37 ACTB. For illustrative purposes of gene-regulations, estimates (log<sub>2</sub>-ratios) for individual comparisons  
38 were used as input for heat maps. Values outside of the defined range for individual heat maps were set to  
39 maximal intensity. Up-regulation is denoted by red and down-regulation by blue.

#### 40 **Measurement of secreted biomarkers**

41 Fully differentiated ALI cultures of primary HBEC were stimulated for 48 hours and the levels of YKL-  
42 40 and MMP3 in culture medium were analyzed using human Chitinase 3-like 1 (Quantikine, R&D  
43 Systems) and human MMP3 ELISA kits (Abcam) following the manufacturer's instruction.

#### 44 **Measurement of epithelial integrity**

45 ALI cultures were exposed to daily re-stimulation with control medium, IL-6, sIL-6R or IL-6/sIL-6R in  
46 the basolateral compartment for 2 to 4 days. Trans-epithelial electrical resistance (TEER) was measured  
47 every 24 hours by using the EVOM2 Epithelial Volt/Ohm Meter (World Precision Instruments) after  
48 adding 200 µl of ALI media to the apical compartment. Only ALI culture wells with a starting TEER  
49 higher than 300 Ohm/cm<sup>2</sup> were used in the experiments and at least 4 separate wells were evaluated for a  
50 single condition.

#### 51 **Bronchial biopsy immunohistochemical analysis**

52 U-BIOPRED bronchoscopy procedure and collection of samples was described previously by Wilson et  
53 al. (26). Immunohistochemical analysis of mast cells, eosinophils, neutrophils and macrophages, as well  
54 as CD3<sup>+</sup>, CD4<sup>+</sup> and CD8<sup>+</sup> lymphocytes in the GMA resin-embedded biopsies was undertaken, as  
55 described (66), in the Histochemistry Research Unit at the University of Southampton (Southampton,  
56 UK).

#### 57 **Validation cohorts**

58 The first validation cohort consisted of 17 severe asthma patients with inadequate disease control  
59 described in details by Singhania et al. (44) and the second consisted of 38 mild to moderate and severe  
60 asthmatics as described (42,43) Briefly, the patients underwent bronchoscopy for central and peripheral  
61 (only in the first cohort) and airway epithelial cell brushings for generation of transcriptomic data were  
62 obtained by using a HT HG-U133+ PM microarray platform (Affymetrix). Hierarchical clustering of

63 replication cohorts gene expression data was performed using complete linkage method and Euclidean  
 64 metric. Gene expression values for multiple probes were averaged and scaled across the row to indicate  
 65 the number of standard deviations above (red) or below (blue) the mean, denoted as row Z-score. The  
 66 third replication cohort was the Wessex Severe Asthma Cohort described in details by Hinks et al. (22).  
 67 Sputum samples from this cohort were obtained by hypertonic saline induction and sputum biomarkers,  
 68 were measured by using ELISAs or cytokine bead arrays. Wessex sputum biomarker data for YKL-40,  
 69 MMP3, IL-8, MIP-1 $\beta$  and IL-1 $\beta$  was age and gender adjusted and Hierarchical clustering data was  
 70 performed using complete linkage.

## 71 **Supplemental results**

72 **Supplementary Table 1. RNAseq data from HBEC ALI cultures stimulated with IL-6/sIL-6R (IL-  
 73 6TS) compared to non-stimulated control.** (q<sub>BH</sub>: adjusted p-value using Benjamini-Hochberg)

74 **Supplementary Table 2. RNAseq data from HBEC ALI cultures stimulated with IL-6 compared to  
 75 non-stimulated control.** (q<sub>BH</sub>: adjusted p-value using Benjamini-Hochberg)

76 **Supplementary Table 3. RNAseq data from HBEC ALI cultures stimulated with IL-4/IL-13  
 77 compared to non-stimulated control.** (q<sub>BH</sub>: adjusted p-value using Benjamini-Hochberg)

78 **Supplementary Table 4. RNAseq data from HBEC ALI cultures stimulated with IL-6/sIL-6R (IL-  
 79 6TS) after pretreatment with DMSO or JAK1 inhibitor.** (NoStim – non-stimulated; q<sub>BH</sub>: adjusted p-  
 80 value using Benjamini-Hochberg)

81 **Supplementary Table 5. IPA analysis of differentially expressed transcripts in the U-BIOPRED IL-  
 82 6TS High subset and of transcripts induced after L-6TS stimulation of ALI-cultures.**

83 **Supplementary Table 6. MetaCore pathway analysis of differentially expressed transcripts in the  
 84 U-BIOPRED IL-6TS High subset.**

85 **Figure S1: Time-course analysis of the expression of IL-6TS specific genes in HBEC ALI cultures  
 86 stimulated with IL-6/sIL-6R.** Primary HBEC ALI cultures from 3 independent donors were pretreated  
 87 for 30 min with a JAK1 inhibitor (JAK1i) or DMSO control and stimulated with IL-6/sIL-6R or IL-4/IL-  
 88 13, for indicated time points. **A)** The heat map shows mean log<sub>2</sub> Fold Change values of the IL-6TS  
 89 specific 8-gene signature (TNFAIP6, PDE4B, IL1R2, S100A9, S100A8, S100A12, CHI3L1, and SPP1)  
 90 compared to non-stimulated control/DMSO, or compared to IL-6/sIL-6R/DMSO if JAK1i was added.  
 91 High expression is denoted by red and low expression by blue. Values outside of the defined range were  
 92 set to maximal intensity. **B)** Expression of IL-33 and TSLP compared to non-stimulated control (\*P $\leq$ 0.05,  
 93 \*\*\*P $\leq$ 0.001 and ns-not significant; unpaired t-test).

94 **Figure S2: Unbiased clustering of RNAseq data.** Principal component analysis (PCA) was performed  
95 separately for each RNA-seq study to reveal clustering of individual samples. **A)** PCA for the “IL-6 vs T2  
96 study” (control medium (NoStim), IL-6, IL-6/sIL-6R and IL-4/IL-13). **B)** PCA for the “JAK1-inhibition  
97 study” addressed the effect of JAK1 inhibition on IL-6TS induced gene expression.

98 **Figure S3: The number of exacerbations in the U-BIOPRED IL-6TS High subset as compared to**  
99 **the IL-6TS Low subset.** Grey line – median.

100 **Figure S4: Identification of the IL-6TS High subset in 2 independent replication cohorts.** **A)**  
101 Hierarchical clustering of severe (green boxes), moderate and mild asthma patients with transcriptomic  
102 data derived from central bronchial brushing (n = 38, replication cohort 1) using the IL-6TS specific gene  
103 signature (TNFAIP6, PDE4B, IL1R2, S100A9, S100A8, S100A12, CHI3L1, and SPP1). High gene  
104 expression is denoted by red and low expression by blue. The subset of patients with increased IL-6TS  
105 gene signature (IL-6TS High) is highlighted (red box). **B)** Hierarchical clustering of severe asthma  
106 patients with transcriptomic data derived from central (S\_C\_) and/or peripheral (S\_P\_) bronchial brushing  
107 (n = 17, replication cohort 2) performed and presented as in A. **C)** Gene expression (Log2 expression  
108 values) of TLR signaling associated molecules in central and peripheral bronchial brushing of the  
109 replication cohort 2. Statistically significant differences are indicated ( $p \leq 0.05$ ; Benjamini-Hochberg test;  
110 ns-not significant).

111 **Figure S5: Sputum biomarkers in the Wessex IL-6TS High subset compared to IL-6TS Low**  
112 **asthmatics and to healthy controls.** Log10 transformed data are shown. Values below the detection  
113 range are marked by squares. Median values and significant differences are indicated (Kruskal-Wallis test  
114 ( $p \leq 0.05$ ); ns-not significant).

115

Table S1. RNAseq data from HBEC ALI cultures stimulated with IL-6/sIL-6R (IL-6TS) compared to non-stimulated control. (q<sub>BH</sub>: adjusted p-value using Benjamini-Hochberg)

Variable	Estimate	FoldChange	RawPvalue	q <sub>BH</sub>	Associated Gene Name	Descriptor Gene type	Chromosor	Gene Start	Gene End	Strand	Band
ENSG00000171564	5.6013	48.5462	6.22E-34	2.91E-32	FGB	fibrinogen   protein_co	4	1.55E+08	1.55E+08	1	q31.3
ENSG00000171557	4.8594	29.0287	3.03E-24	5.69E-23	FGG	fibrinogen   protein_co	4	1.55E+08	1.55E+08	-1	q32.1
ENSG00000171560	4.644	25.0016	6.30E-19	7.43E-18	FGA	fibrinogen   protein_co	4	1.55E+08	1.55E+08	-1	q31.3
ENSG00000133048	4.2262	18.7157	1.70E-52	7.04E-50	CHI3L1	chitinase 3- protein_co	1	2.03E+08	2.03E+08	-1	q32.1
ENSG00000149968	4.0837	16.9561	1.35E-25	2.87E-24	MMP3	matrix met protein_co	11	1.03E+08	1.03E+08	-1	q22.2
ENSG00000064886	4.0222	16.2484	4.90E-28	1.30E-26	CHI3L2	chitinase 3- protein_co	1	1.11E+08	1.11E+08	1	p13.2
ENSG00000118785	3.683	12.8438	4.25E-15	3.65E-14	SPP1	secreted pl protein_co	4	87975650	87983426	1	q22.1
ENSG00000206073	3.6251	12.3388	7.96E-31	2.71E-29	SERPINB4	serpin pept protein_co	18	63637259	63644298	-1	q21.33
ENSG00000257017	3.526	11.5195	2.55E-17	2.63E-16	HP	haptoglobii protein_co	16	72054592	72061055	1	q22.2
ENSG00000129988	3.2943	9.8104	2.14E-09	1.14E-08	LBP	lipopolysac protein_co	20	38346356	38377023	1	q11.23
ENSG00000164825	3.2565	9.5566	2.32E-41	2.58E-39	DEFB1	defensin, b protein_co	8	6870575	6878022	-1	p23.1
ENSG00000137033	3.2368	9.4273	5.57E-42	6.41E-40	IL33	interleukin protein_co	9	6215786	6257983	1	p24.1
ENSG00000050730	2.9007	7.4678	5.34E-15	4.55E-14	TNIP3	TNFAIP3 in protein_co	4	1.21E+08	1.21E+08	-1	q27
ENSG00000102265	2.8355	7.1377	7.69E-49	1.88E-46	TIMP1	TIMP meta protein_co X		47582313	47586789	1	p11.3
ENSG00000123610	2.8325	7.1231	5.72E-12	3.81E-11	TNFAIP6	tumor necr protein_co	2	1.51E+08	1.51E+08	1	q23.3
ENSG00000143546	2.7703	6.8223	2.38E-17	2.47E-16	S100A8	S100 calciu protein_co	1	1.53E+08	1.53E+08	-1	q21.3
ENSG00000166741	2.6771	6.3958	1.95E-07	8.67E-07	NNMT	nicotinami protein_co	11	1.14E+08	1.14E+08	1	q23.2
ENSG00000171711	2.6734	6.3795	7.60E-11	4.61E-10	DEFB4A	defensin, b protein_co	8	7894629	7896711	1	p23.1
ENSG00000124116	2.665	6.3423	8.52E-14	6.60E-13	WFDC3	WAP four-c protein_co	20	45747944	45791932	-1	q13.12
ENSG00000177257	2.6415	6.24	3.08E-10	1.77E-09	DEFB4B	defensin, b protein_co	8	7414860	7416863	-1	p23.1
ENSG00000196136	2.5899	6.0205	2.41E-07	1.06E-06	SERPINA3	serpin pept protein_co	14	94612384	94624055	1	q32.13
ENSG00000262406	2.5895	6.0188	1.09E-10	6.50E-10	MMP12	matrix met protein_co	11	1.03E+08	1.03E+08	-1	q22.2
ENSG00000225833	2.5404	5.8175	1.42E-11	9.15E-11	GS1-594A7.3	antisense X		15602881	15621484	1	p22.2
ENSG00000115590	2.5309	5.7792	1.47E-06	6.01E-06	IL1R2	interleukin protein_co	2	1.02E+08	1.02E+08	1	q11.2
ENSG00000196611	2.5305	5.7776	2.40E-08	1.16E-07	MMP1	matrix met protein_co	11	1.03E+08	1.03E+08	-1	q22.2
ENSG00000182793	2.4933	5.6307	3.85E-08	1.84E-07	GSTA5	glutathione protein_co	6	52831655	52870329	-1	p12.2
ENSG00000178882	2.491	5.6217	3.25E-10	1.86E-09	FAM101A	family with protein_co	12	1.24E+08	1.24E+08	1	q24.31
ENSG00000260549	2.4898	5.6169	1.43E-12	1.00E-11	MT1L	metallothic unitary_pse	16	56617476	56618818	1	q13
ENSG00000276171	2.4617	5.5086	5.09E-11	3.13E-10	AC114498.1	miRNA	1	630896	630958	1	p36.33
ENSG00000179826	2.433	5.4002	2.95E-08	1.42E-07	MRGPRX3	MAS-relate protein_co	11	18120955	18138480	1	p15.1
ENSG00000163220	2.4017	5.2842	8.39E-25	1.65E-23	S100A9	S100 calciu protein_co	1	1.53E+08	1.53E+08	1	q21.3
ENSG00000266970	2.375	5.1874	2.06E-06	8.27E-06	RP11-806H10.4	lincRNA	17	78360453	78373911	1	q25.3
ENSG00000251495	2.3608	5.1366	5.79E-08	2.72E-07	PPIAP11	peptidylprc processed_	5	82009602	82010094	-1	q14.1
ENSG00000133636	2.3576	5.1251	1.23E-08	6.13E-08	NTS	neurotensii protein_co	12	85874295	85882992	1	q21.31
ENSG00000232774	2.3467	5.0864	1.90E-06	7.64E-06	FLJ22447	uncharacte lincRNA	14	61570540	61658696	1	q23.1
ENSG00000106541	2.3345	5.0439	2.61E-26	5.95E-25	AGR2	anterior gr; protein_co	7	16791811	16833433	-1	p21.1
ENSG00000205057	2.3194	4.9913	1.93E-06	7.78E-06	CLLU1OS	chronic lymr protein_co	12	92420094	92428148	-1	q22
ENSG00000108176	2.3142	4.9732	2.66E-12	1.82E-11	DNAJC12	DnaJ (Hsp4 protein_co	10	67796665	67838166	-1	q21.3



ENSG00000188293	2.3128	4.9684	2.06E-05	7.35E-05	IGFL1	IGF-like fan protein_co	19	46229752	46231243	1	q13.32
ENSG00000184588	2.3003	4.9257	5.00E-09	2.58E-08	PDE4B	phosphodi protein_co	1	65792514	66374579	1	p31.3
ENSG00000143556	2.2976	4.9162	1.40E-08	6.90E-08	S100A7	S100 calciu protein_co	1	1.53E+08	1.53E+08	-1	q21.3
ENSG00000165181	2.2928	4.9001	5.16E-17	5.22E-16	C9orf84	chromoson protein_co	9	1.12E+08	1.12E+08	-1	q31.3
ENSG00000241280	2.2889	4.887	5.03E-08	2.37E-07	RP11-221J22.2	lincRNA	3	1.02E+08	1.02E+08	1	q12.3
ENSG00000134873	2.2866	4.8791	6.11E-08	2.86E-07	CLDN10	claudin 10   protein_co	13	95433604	95579759	1	q32.1
ENSG00000244067	2.2817	4.8626	1.11E-11	7.19E-11	GSTA2	glutathione protein_co	6	52750089	52763569	-1	p12.2
ENSG00000163221	2.2816	4.8623	4.87E-11	3.00E-10	S100A12	S100 calciu protein_co	1	1.53E+08	1.53E+08	-1	q21.3
ENSG00000123689	2.2614	4.7946	1.11E-11	7.17E-11	G0S2	G0/G1 swit protein_co	1	2.1E+08	2.1E+08	1	q32.2
ENSG00000188761	2.2611	4.7934	1.15E-19	1.45E-18	BCL2L15	BCL2-like 1 protein_co	1	1.14E+08	1.14E+08	-1	p13.2
ENSG00000230561	2.2585	4.7848	2.72E-06	1.08E-05	LINC01183	long interglincRNA	5	1.28E+08	1.28E+08	1	q23.2
ENSG00000258175	2.2581	4.7836	2.83E-12	1.93E-11	RP11-412H8.2	lincRNA	14	28592223	28613623	-1	q12
ENSG00000265107	2.2459	4.7434	5.54E-05	0.0002	GJA5	gap junctio protein_co	1	1.48E+08	1.48E+08	-1	q21.2
ENSG00000170054	2.242	4.7304	3.74E-06	1.46E-05	SERPINA9	serpin pept protein_co	14	94462717	94479689	-1	q32.13
ENSG00000170476	2.2388	4.72	1.04E-05	3.85E-05	MZB1	marginal zc protein_co	5	1.39E+08	1.39E+08	-1	q31.2
ENSG00000212664	2.2294	4.6893	2.82E-08	1.36E-07	RP11-592N21.1	processed_	15	71341158	71341712	-1	q23
ENSG00000177359	2.2276	4.6836	1.08E-06	4.49E-06	RP11-551L14.1	transcribed	12	31111652	31206154	-1	p11.21
ENSG00000183098	2.2259	4.6781	2.96E-08	1.42E-07	GPC6	glypican 6   protein_co	13	93226842	94407401	1	q31.3
ENSG00000185885	2.2121	4.6334	1.02E-26	2.43E-25	IFITM1	interferon i protein_co	11	313506	315272	1	p15.5
ENSG00000197249	2.2084	4.6217	1.52E-09	8.24E-09	SERPINA1	serpin pept protein_co	14	94376747	94390693	-1	q32.13
ENSG00000250548	2.2016	4.6	4.74E-05	0.0002	RP11-47I22.2	lincRNA	14	61556313	61570653	-1	q23.1
ENSG00000178342	2.1994	4.5929	6.57E-05	0.0002	KCNG2	potassium   protein_co	18	79863668	79900184	1	q23
ENSG00000163993	2.196	4.5821	8.60E-30	2.67E-28	S100P	S100 calciu protein_co	4	6693069	6697170	1	p16.1
ENSG00000204889	2.1939	4.5753	2.26E-07	1.00E-06	KRT40	keratin 40   protein_co	17	40977716	40987135	-1	q21.2
ENSG00000236824	2.1884	4.5581	1.60E-10	9.45E-10	BCYRN1	brain cytop lincRNA	2	47331060	47344517	1	p21
ENSG00000124614	2.1825	4.5395	4.89E-24	9.03E-23	RPS10	ribosomal   protein_co	6	34417454	34426125	-1	p21.31
ENSG00000123843	2.1811	4.5351	1.47E-09	7.94E-09	C4BPB	complemer protein_co	1	2.07E+08	2.07E+08	1	q32.1
ENSG00000164318	2.1801	4.5317	1.34E-05	4.90E-05	EGFLAM	EGF-like, fil protein_co	5	38258409	38465021	1	p13.2
ENSG00000231023	2.174	4.5129	9.79E-07	4.07E-06	LINC00326	long interglincRNA	6	1.33E+08	1.33E+08	1	q23.2
ENSG00000136149	2.1711	4.5037	1.39E-14	1.15E-13	RPL13AP25	ribosomal   processed_	13	54440704	54441315	-1	q14.3
ENSG00000198937	2.1639	4.4811	4.81E-44	6.68E-42	CCDC167	coiled-coil   protein_co	6	37482920	37499922	-1	p21.2
ENSG00000248468	2.1549	4.4534	0.0002	0.0006	RP11-517B11.4	antisense	3	1.32E+08	1.32E+08	1	q22.1
ENSG00000255823	2.1531	4.4479	5.54E-15	4.72E-14	MTRNR2L8	MT-RNR2-l   protein_co	11	10507887	10509189	-1	p15.4
ENSG00000002079	2.1515	4.4429	1.49E-08	7.34E-08	MYH16	myosin, he. unitary_pse	7	99238794	99311130	1	q22.1
ENSG00000174156	2.1285	4.3727	3.10E-06	1.22E-05	GSTA3	glutathione protein_co	6	52847910	52909685	-1	p12.2
ENSG00000103175	2.12	4.3471	0.0001	0.0004	WFDC1	WAP four-c protein_co	16	84294646	84329851	1	q24.1
ENSG00000256393	2.1145	4.3304	9.06E-14	7.00E-13	RPL41P5	ribosomal   processed_	12	93083598	93083675	-1	q22
ENSG00000162366	2.1136	4.3276	6.91E-20	8.90E-19	PDZK1IP1	PDZK1 inte protein_co	1	47183593	47191044	-1	p33
ENSG00000273259	2.1109	4.3196	4.97E-05	0.0002	SERPINA3	serpin pept protein_co	14	94592058	94624646	1	q32.13
ENSG00000182585	2.1092	4.3144	5.40E-09	2.77E-08	EPGN	epithelial n protein_co	4	74308473	74315307	1	q13.3
ENSG00000115350	2.1057	4.3042	3.53E-51	1.17E-48	POLE4	polymerase protein_co	2	74958492	74970128	1	p12



ENSG00000269028	2.1045	4.3005	1.24E-15	1.11E-14	MTRNR2L12	MT-RNR2-l protein_co	3	96617188	96618236	-1	q11.2
ENSG00000246228	2.0996	4.286	1.02E-15	9.21E-15	CASC8	cancer susc antisense	8	1.27E+08	1.27E+08	-1	q24.21
ENSG00000174792	2.096	4.2752	2.17E-05	7.73E-05	C4orf26	chromoson protein_co	4	75556048	75565885	1	q21.1
ENSG00000154133	2.083	4.2369	6.08E-05	0.0002	ROBO4	roundabou protein_co	11	1.25E+08	1.25E+08	-1	q24.2
ENSG00000267795	2.0734	4.2089	1.12E-11	7.26E-11	SMIM22	small integ protein_co	16	4788397	4796491	1	p13.3
ENSG00000214711	2.0702	4.1995	5.98E-08	2.80E-07	CAPN14	calpain 14  protein_co	2	31173056	31233858	-1	p23.1
ENSG00000229453	2.0676	4.1919	8.87E-07	3.71E-06	SPINK8	serine pept protein_co	3	48306842	48328341	-1	p21.31
ENSG00000182326	2.0629	4.1783	1.26E-17	1.34E-16	C1S	complemer protein_co	12	6988259	7071032	1	p13.31
ENSG00000227081	2.0586	4.1659	2.19E-15	1.92E-14	RP11-543P15.1	processed_	12	3211663	3211917	-1	p13.32
ENSG00000168653	2.0519	4.1466	1.02E-59	9.16E-57	NDUFS5	NADH dehy protein_co	1	39026318	39034636	1	p34.3
ENSG00000249051	2.0518	4.1461	1.16E-06	4.80E-06	RP11-447E20.1	processed_	4	73777636	73778060	-1	q13.3
ENSG00000264281	2.0474	4.1335	2.71E-11	1.70E-10	CTD-2031P19.4	processed_	5	55944656	55944733	1	q11.2
ENSG00000239719	2.0456	4.1283	0.0002	0.0006	RP4-800G7.1	processed_	7	1.49E+08	1.49E+08	-1	q36.1
ENSG00000256338	2.0454	4.1279	1.93E-12	1.33E-11	RPL41P2	ribosomal Ꞥ processed_	15	28315651	28316059	1	q13.1
ENSG00000186010	2.0417	4.1173	1.12E-18	1.30E-17	NDUFA13	NADH dehy protein_co	19	19515736	19529054	1	p13.11
ENSG00000263639	2.0337	4.0945	1.03E-05	3.81E-05	MSMB	microsemir protein_co	10	46033307	46046269	-1	q11.22
ENSG00000150779	2.0228	4.0637	5.16E-34	2.45E-32	TIMM8B	translocase protein_co	11	1.12E+08	1.12E+08	-1	q23.1
ENSG00000132704	2.0224	4.0627	0.0002	0.0006	FCRL2	Fc receptor protein_co	1	1.58E+08	1.58E+08	-1	q23.1
ENSG00000273132	2.0219	4.0613	4.06E-14	3.23E-13	RP11-350J20.12	antisense	6	1.5E+08	1.5E+08	1	q25.1
ENSG00000171860	2.0201	4.0561	6.01E-07	2.55E-06	C3AR1	complemer protein_co	12	8058302	8066471	-1	p13.31
ENSG00000180879	2.0191	4.0533	1.20E-38	9.72E-37	SSR4	signal sequ protein_co X		1.54E+08	1.54E+08	1	q28
ENSG00000136810	2.0166	4.0464	4.55E-28	1.21E-26	TXN	thioredoxir protein_co	9	1.1E+08	1.1E+08	-1	q31.3
ENSG00000184515	2.0122	4.0338	8.64E-05	0.0003	BEX5	brain expre protein_co X		1.02E+08	1.02E+08	-1	q22.1
ENSG00000212802	2.0057	4.0158	9.07E-16	8.22E-15	RPL15P3	ribosomal Ꞥ processed_	6	12514110	12514724	1	p24.1
ENSG00000232472	2.0046	4.0128	1.76E-14	1.44E-13	EEF1B2P3	eukaryotic processed_ X		24788392	24789069	-1	p22.11
ENSG00000244398	2.0043	4.0119	8.70E-19	1.02E-17	RP11-466H18.1	processed_	11	16974693	16975013	-1	p15.1
ENSG00000167644	2.0027	4.0076	2.60E-23	4.48E-22	C19orf33	chromoson protein_co	19	38304161	38305009	1	q13.2
ENSG00000119705	2.0022	4.0061	2.56E-37	1.77E-35	SLIRP	SRA stem-l protein_co	14	77708071	77761104	1	q24.3
ENSG00000148803	1.9994	3.9984	2.02E-21	2.98E-20	FUOM	fucose mut protein_co	10	1.33E+08	1.33E+08	-1	q26.3
ENSG00000059804	1.9983	3.9954	0.0002	0.0006	SLC2A3	solute carri protein_co	12	7919230	7936275	-1	p13.31
ENSG00000119632	1.9979	3.9943	8.80E-48	1.84E-45	IFI27L2	interferon, protein_co	14	94127779	94130253	-1	q32.12
ENSG00000136942	1.994	3.9833	2.41E-20	3.20E-19	RPL35	ribosomal Ꞥ protein_co	9	1.25E+08	1.25E+08	-1	q33.3
ENSG00000101198	1.9927	3.9797	1.18E-05	4.33E-05	NKAIN4	Na+/K+ tra protein_co	20	63240784	63272694	-1	q13.33
ENSG00000246985	1.9893	3.9704	2.60E-08	1.25E-07	SOCS2-AS1	SOCS2 anti: processed_	12	93542463	93571768	-1	q22
ENSG00000124107	1.9877	3.9661	1.40E-17	1.48E-16	SLPI	secretory lk protein_co	20	45252239	45254564	-1	q13.12
ENSG00000180318	1.9832	3.9537	0.0003	0.001	ALX1	ALX homec protein_co	12	85280107	85301784	1	q21.31
ENSG00000158716	1.9818	3.9499	1.04E-20	1.43E-19	DUSP23	dual specifi protein_co	1	1.6E+08	1.6E+08	1	q23.2
ENSG00000136244	1.9804	3.9461	0.0003	0.001	IL6	interleukin protein_co	7	22725884	22732002	1	p15.3
ENSG00000269985	1.9783	3.9403	2.26E-07	1.00E-06	RP1-232P20.1	antisense	6	5451683	5458075	-1	p25.1
ENSG00000226221	1.9752	3.9318	1.91E-07	8.51E-07	AC022431.1	processed_	5	56504635	56505072	-1	q11.2
ENSG00000220749	1.9731	3.9262	1.46E-07	6.58E-07	RPL21P28	ribosomal Ꞥ processed_	1	2.12E+08	2.12E+08	-1	q32.3

ENSG00000164266	1.9722	3.9238	5.67E-05	0.0002 SPINK1	serine pept protein_co	5	1.48E+08	1.48E+08	-1 q32
ENSG00000108342	1.9711	3.9206	8.50E-05	0.0003 CSF3	colony stim protein_co	17	40015361	40017813	1 q21.1
ENSG00000197238	1.9704	3.9187	6.64E-14	5.19E-13 HIST1H4J	histone clu protein_co	6	27824108	27824480	1 p22.1
ENSG00000224961	1.9658	3.9063	8.28E-08	3.82E-07 RP1-278O22.1	lincRNA	20	10753090	10753966	1 p12.2
ENSG00000230615	1.9657	3.9061	2.62E-06	1.04E-05 RP5-1198O20.4	lincRNA	1	44030443	44104975	1 p34.1
ENSG00000139055	1.9656	3.9056	1.71E-21	2.53E-20 ERP27	endoplasm protein_co	12	14914035	14939082	-1 p12.3
ENSG00000134545	1.9616	3.8949	0.0001	0.0004 KLRC1	killer cell le protein_co	12	10442264	10454685	-1 p13.2
ENSG00000244716	1.9614	3.8944	5.06E-09	2.61E-08 RP11-20024.4	processed_	1	1.09E+08	1.09E+08	1 p13.3
ENSG00000183011	1.9592	3.8885	3.42E-29	1.01E-27 NAA38	N(alpha)-ac protein_co	17	7856685	7885238	-1 p13.1
ENSG00000223551	1.9572	3.883	0.0001	0.0005 TMSB4XP4	thymosin b processed_	9	1.28E+08	1.28E+08	1 q34.11
ENSG00000198918	1.9516	3.8681	1.75E-24	3.33E-23 RPL39	ribosomal p protein_co X		1.2E+08	1.2E+08	-1 q24
ENSG00000129255	1.949	3.8609	5.47E-47	1.05E-44 MPDU1	mannose-P protein_co	17	7583529	7592789	1 p13.1
ENSG00000143977	1.9461	3.8533	5.25E-37	3.50E-35 SNRPG	small nucle protein_co	2	70281362	70293771	-1 p13.3
ENSG00000185479	1.945	3.8504	1.21E-07	5.49E-07 KRT6B	keratin 6B   protein_co	12	52446651	52452126	-1 q13.13
ENSG00000210082	1.9439	3.8476	3.09E-31	1.09E-29 MT-RNR2	mitochond Mt_rRNA MT		1671	3229	1
ENSG00000137673	1.9426	3.844	7.28E-08	3.38E-07 MMP7	matrix met protein_co	11	1.03E+08	1.03E+08	-1 q22.2
ENSG00000112695	1.9426	3.8439	4.21E-37	2.85E-35 COX7A2	cytochrome protein_co	6	75237675	75250323	-1 q14.1
ENSG00000236439	1.9424	3.8434	1.94E-07	8.63E-07 RP11-175B9.3	processed_	1	2.02E+08	2.02E+08	-1 q32.1
ENSG00000234676	1.9386	3.8333	0.0008	0.0023 IFT74-AS1	IFT74 antisense	9	26955780	26956295	-1 p21.2
ENSG00000092841	1.938	3.8317	3.04E-64	5.46E-61 MYL6	myosin, ligl protein_co	12	56158161	56163496	1 q13.2
ENSG00000229117	1.9367	3.8283	7.90E-25	1.55E-23 RPL41	ribosomal p protein_co	12	56116586	56117943	1 q13.2
ENSG00000175768	1.9356	3.8255	5.00E-24	9.23E-23 TOMM5	translocase protein_co	9	37582646	37592642	-1 p13.2
ENSG00000134825	1.9314	3.8142	1.31E-31	4.83E-30 TMEM258	transmemt protein_co	11	61768501	61792802	-1 q12.2
ENSG00000175728	1.9313	3.8139	0.0008	0.0023 C11orf44	chromoson protein_co	11	1.31E+08	1.31E+08	1 q24.3
ENSG00000234393	1.9311	3.8135	7.18E-06	2.71E-05 RP11-211N11.5	antisense	10	1.14E+08	1.14E+08	-1 q25.3
ENSG00000248538	1.9311	3.8134	5.98E-06	2.27E-05 RP11-10A14.5	lincRNA	8	9189011	9202854	1 p23.1
ENSG00000244306	1.9306	3.8121	0.0008	0.0022 LINC01296	long interg transcribed	14	19284653	19337730	-1 q11.2
ENSG00000235888	1.9304	3.8115	0.0006	0.0016 AF064858.8	lincRNA	21	38988707	39006153	-1 q22.2
ENSG00000170498	1.929	3.8079	7.18E-05	0.0002 KISS1	KISS-1 met; protein_co	1	2.04E+08	2.04E+08	-1 q32.1
ENSG00000124479	1.9281	3.8055	9.26E-08	4.26E-07 NDP	Norrie dise protein_co X		43948776	43973504	-1 p11.3
ENSG00000236345	1.9256	3.7989	0.0005	0.0015 RP11-59D5__B.2	antisense	6	63806836	63822642	1 q12
ENSG00000210107	1.9233	3.7929	1.26E-17	1.34E-16 MT-TQ	mitochond Mt_tRNA MT		4329	4400	-1
ENSG00000242299	1.9218	3.789	1.92E-13	1.45E-12 RP11-234A1.1	processed_	3	1.02E+08	1.02E+08	-1 q12.3
ENSG00000169020	1.9209	3.7865	1.41E-32	5.65E-31 ATP5I	ATP syntha protein_co	4	672436	674338	-1 p16.3
ENSG00000234797	1.9166	3.7753	4.65E-09	2.40E-08 RPS3AP6	ribosomal p processed_	15	59768352	59769146	1 q22.2
ENSG00000220842	1.9164	3.7749	6.91E-17	6.93E-16 RP11-572P18.1	processed_	10	1.2E+08	1.2E+08	-1 q26.12
ENSG00000111678	1.9132	3.7665	4.12E-19	4.94E-18 C12orf57	chromoson protein_co	12	6942978	6946003	1 p13.31
ENSG00000232810	1.913	3.766	6.33E-05	0.0002 TNF	tumor necr protein_co	6	31575567	31578336	1 p21.33
ENSG00000226084	1.9109	3.7605	1.77E-10	1.03E-09 RP4-706A16.3	processed_	1	77129114	77129668	1 p31.1
ENSG00000188624	1.9101	3.7583	0.0003	0.0008 IGFL3	IGF-like fan protein_co	19	46120071	46124674	-1 q13.32
ENSG00000110852	1.9097	3.7574	5.77E-14	4.52E-13 CLEC2B	C-type lecti protein_co	12	9852984	9870136	-1 p13.31

ENSG00000213741	1.9095	3.7569	1.19E-14	9.93E-14	RPS29	ribosomal Ꞥ protein_co	14	49570984	49599164	-1	q21.3
ENSG00000071082	1.9084	3.7538	6.06E-18	6.59E-17	RPL31	ribosomal Ꞥ protein_co	2	1.01E+08	1.01E+08	1	q11.2
ENSG00000125691	1.9082	3.7534	7.97E-24	1.43E-22	RPL23	ribosomal Ꞥ protein_co	17	38847865	38853843	-1	q12
ENSG00000224877	1.9069	3.75	4.62E-45	7.15E-43	C17orf89	chromosom protein_co	17	81239239	81241281	1	q25.3
ENSG00000168894	1.9063	3.7485	1.80E-65	3.51E-62	RNF181	ring finger Ꞥ protein_co	2	85595725	85597613	1	p11.2
ENSG00000169429	1.9062	3.7482	1.91E-05	6.86E-05	CXCL8	chemokine protein_co	4	73740506	73743716	1	q13.3
ENSG00000196954	1.9061	3.748	6.72E-70	1.60E-66	CASP4	caspase 4 Ꞥ protein_co	11	1.05E+08	1.05E+08	-1	q22.3
ENSG00000140379	1.9045	3.7439	8.39E-10	4.63E-09	BCL2A1	BCL2-relate protein_co	15	79960889	79971446	-1	q25.1
ENSG00000166069	1.9021	3.7376	2.07E-05	7.38E-05	TMCO5A	transmem Ꞥ protein_co	15	37921939	37967724	1	q14
ENSG00000228997	1.8982	3.7275	0.0006	0.0018	RP1-186E20.1	processed_	10	10776223	10776661	-1	p14
ENSG00000164405	1.8978	3.7265	1.49E-38	1.19E-36	UQCQRQ	ubiquinol-c protein_co	5	1.33E+08	1.33E+08	1	q31.1
ENSG00000174898	1.8978	3.7264	7.75E-05	0.0003	CATSPERD	catsper cha protein_co	19	5720677	5778734	1	p13.3
ENSG00000170469	1.8966	3.7233	3.55E-07	1.54E-06	SPATA24	spermatogꞤ protein_co	5	1.39E+08	1.39E+08	-1	q31.2
ENSG00000225383	1.8964	3.723	2.14E-07	9.48E-07	SFTA1P	surfactant Ꞥ lincRNA	10	10784437	10794980	-1	p14
ENSG00000184924	1.8954	3.7201	2.74E-45	4.30E-43	PTRHD1	peptidyl-tR protein_co	2	24789734	24793382	-1	p23.3
ENSG00000234851	1.891	3.7089	3.49E-29	1.03E-27	RP11-3P17.3	processed_	3	1.61E+08	1.61E+08	-1	q26.1
ENSG00000146677	1.8895	3.7051	7.88E-07	3.31E-06	AC004453.8	processed_	7	44467897	44468304	1	p13
ENSG00000124102	1.8885	3.7025	1.07E-24	2.08E-23	PI3	peptidase i protein_co	20	45174876	45176544	1	q13.12
ENSG00000137970	1.8883	3.7021	1.32E-19	1.65E-18	RPL7P9	ribosomal Ꞥ processed_	1	96678874	96679620	-1	p21.3
ENSG00000124172	1.8882	3.7017	2.46E-40	2.39E-38	ATP5E	ATP syntha protein_co	20	59025467	59032382	-1	q13.32
ENSG00000266850	1.888	3.7013	4.74E-08	2.24E-07	RP11-370A5.1	antisense	18	22723491	22907721	-1	q11.2
ENSG00000142534	1.8868	3.6981	5.87E-23	9.76E-22	RPS11	ribosomal Ꞥ protein_co	19	49496365	49499689	1	q13.33
ENSG00000161970	1.8864	3.697	2.07E-20	2.77E-19	RPL26	ribosomal Ꞥ protein_co	17	8377520	8383213	-1	p13.1
ENSG00000164587	1.8847	3.6928	8.18E-20	1.05E-18	RPS14	ribosomal Ꞥ protein_co	5	1.5E+08	1.5E+08	-1	q33.1
ENSG00000109475	1.8837	3.6903	3.54E-18	3.92E-17	RPL34	ribosomal Ꞥ protein_co	4	1.09E+08	1.09E+08	1	q25
ENSG00000261040	1.8834	3.6895	5.16E-20	6.71E-19	WFDC21P	WAP four-c processed_	17	60083566	60091885	-1	q23.1
ENSG00000167772	1.8829	3.6882	3.38E-06	1.32E-05	ANGPTL4	angiopoieti protein_co	19	8363289	8374373	1	p13.2
ENSG00000166794	1.8826	3.6874	2.56E-48	5.68E-46	PPIB	peptidylꞤ protein_co	15	64155812	64163205	-1	q22.31
ENSG00000196754	1.8825	3.6871	1.52E-23	2.67E-22	S100A2	S100 calciu protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000099795	1.8794	3.6793	8.99E-27	2.16E-25	NDUFB7	NADH dehy protein_co	19	14566078	14572062	-1	p13.12
ENSG00000236552	1.8791	3.6785	2.07E-13	1.55E-12	RPL13AP5	ribosomal Ꞥ processed_	10	96750288	96750899	1	q24.1
ENSG00000125743	1.876	3.6706	7.07E-32	2.65E-30	SNRPD2	small nucle protein_co	19	45687454	45692569	-1	q13.32
ENSG00000086696	1.8758	3.67	4.01E-07	1.73E-06	HSD17B2	hydroxyste protein_co	16	82035004	82098534	1	q23.3
ENSG00000166562	1.8755	3.6694	5.56E-33	2.32E-31	SEC11C	SEC11 hom protein_co	18	59139477	59158836	1	q21.32
ENSG00000213442	1.875	3.668	2.97E-14	2.39E-13	RPL18AP3	ribosomal Ꞥ processed_	12	1.04E+08	1.04E+08	1	q23.3
ENSG00000155368	1.8716	3.6593	5.04E-23	8.43E-22	DBI	diazepam Ꞥ protein_co	2	1.19E+08	1.19E+08	1	q14.2
ENSG00000246203	1.8705	3.6566	6.69E-05	0.0002	RP11-29H23.5	unprocesse	1	1.56E+08	1.56E+08	-1	q22
ENSG00000214253	1.8696	3.6543	3.60E-35	1.92E-33	FIS1	fission 1 (mꞤ protein_co	7	1.01E+08	1.01E+08	-1	q22.1
ENSG00000224094	1.8657	3.6445	5.19E-05	0.0002	RPS24P8	ribosomal Ꞥ processed_	3	45159774	45160175	-1	p21.31
ENSG00000090266	1.8599	3.6299	1.88E-36	1.15E-34	NDUFB2	NADH dehy protein_co	7	1.41E+08	1.41E+08	1	q34
ENSG00000184557	1.856	3.6201	7.93E-23	1.31E-21	SOCS3	suppressor protein_co	17	78356778	78360077	-1	q25.3

ENSG00000169976	1.8554	3.6186	9.26E-34	4.21E-32 SF3B5	splicing fac protein_co	6	1.44E+08	1.44E+08	-1 q24.2
ENSG00000228474	1.8543	3.6159	6.88E-41	7.15E-39 OST4	oligosacch protein_co	2	27070472	27071773	-1 p23.3
ENSG00000144713	1.8544	3.6159	6.45E-21	9.04E-20 RPL32	ribosomal p protein_co	3	12834485	12841588	-1 p25.2
ENSG00000217094	1.8542	3.6154	5.80E-07	2.47E-06 PPIAP31	peptidylprc processed_	10	32188323	32188817	-1 p11.22
ENSG00000205246	1.8538	3.6145	2.76E-12	1.89E-11 RPSAP58	ribosomal p protein_co	19	23763005	23828135	1 p12
ENSG00000122026	1.8523	3.6108	3.40E-21	4.92E-20 RPL21	ribosomal p protein_co	13	27251309	27256691	1 q12.2
ENSG00000138326	1.8522	3.6104	1.67E-20	2.25E-19 RPS24	ribosomal p protein_co	10	78033760	78056812	1 q22.3
ENSG00000198258	1.8516	3.6089	7.88E-49	1.90E-46 UBL5	ubiquitin-li protein_co	19	9827892	9830115	1 p13.2
ENSG00000183648	1.8504	3.606	6.34E-31	2.18E-29 NDUFB1	NADH dehy protein_co	14	92116122	92121917	-1 q32.12
ENSG00000101000	1.8491	3.6026	3.69E-14	2.95E-13 PROCR	protein C r protein_co	20	35172073	35177362	1 q11.22
ENSG00000187653	1.848	3.6	5.87E-09	3.01E-08 TMSB4XP8	thymosin b processed_	4	90838903	90839037	-1 q22.1
ENSG00000197756	1.8478	3.5995	6.53E-22	9.98E-21 RPL37A	ribosomal p protein_co	2	2.16E+08	2.17E+08	1 q35
ENSG00000204277	1.8458	3.5946	0.0011	0.0031 RP11-219G17.4	lincRNA	17	78261349	78278492	-1 q25.3
ENSG00000188372	1.8457	3.5942	2.32E-14	1.89E-13 ZP3	zona pelluc protein_co	7	76397518	76442071	1 q11.23
ENSG00000251331	1.8453	3.5932	2.20E-07	9.75E-07 RP11-689K5.3	lincRNA	4	81602797	82044244	-1 q21.22
ENSG00000237506	1.845	3.5925	3.61E-09	1.89E-08 RPSAP15	ribosomal p processed_ X	87703343	87704203	-1 q21.31	
ENSG00000123349	1.8448	3.5921	4.86E-26	1.08E-24 PFDN5	prefoldin si protein_co	12	53295291	53299450	1 q13.13
ENSG00000223783	1.8432	3.588	0.0003	0.0009 AC124944.5	lincRNA	3	1.96E+08	1.96E+08	-1 q29
ENSG00000083845	1.8404	3.581	5.63E-16	5.22E-15 RPS5	ribosomal p protein_co	19	58386400	58394806	1 q13.43
ENSG00000111341	1.84	3.5801	5.14E-10	2.89E-09 MGP	matrix Gla p protein_co	12	14881181	14885926	-1 p12.3
ENSG00000145088	1.8397	3.5793	7.12E-19	8.36E-18 EAF2	ELL associa protein_co	3	1.22E+08	1.22E+08	1 q13.33
ENSG00000261235	1.8382	3.5756	3.64E-06	1.42E-05 RP11-510J16.5	antisense	16	82044336	82139631	-1 q23.3
ENSG00000179271	1.837	3.5726	1.70E-23	2.98E-22 GADD45GIP1	growth arr protein_co	19	12953119	12957236	-1 p13.13
ENSG00000171863	1.8359	3.57	1.10E-17	1.18E-16 RPS7	ribosomal p protein_co	2	3575205	3580919	1 p25.3
ENSG00000134809	1.8352	3.5681	5.93E-37	3.94E-35 TIMM10	translocase protein_co	11	57528463	57530803	-1 q12.1
ENSG00000103363	1.8347	3.5671	4.69E-39	3.97E-37 TCEB2	transcriptic protein_co	16	2771414	2777297	-1 p13.3
ENSG00000253593	1.8347	3.567	0.0006	0.0018 RP11-157E21.1	lincRNA	8	1.34E+08	1.34E+08	1 q24.22
ENSG00000131469	1.831	3.5579	9.57E-23	1.57E-21 RPL27	ribosomal p protein_co	17	42998273	43002959	1 q21.31
ENSG00000175701	1.8301	3.5555	8.09E-29	2.31E-27 LINC00116	long interg protein_co	2	1.1E+08	1.1E+08	-1 q13
ENSG00000147604	1.8293	3.5537	8.68E-25	1.70E-23 RPL7	ribosomal p protein_co	8	73290267	73295789	-1 q21.11
ENSG00000229119	1.8293	3.5537	1.78E-06	7.22E-06 CTB-63M22.1	processed_	5	1.66E+08	1.66E+08	1 q34
ENSG00000169067	1.8293	3.5535	1.16E-05	4.28E-05 ACTBL2	actin, beta- protein_co	5	57480016	57482809	-1 q11.2
ENSG00000138495	1.827	3.548	1.55E-39	1.39E-37 COX17	COX17 cytc protein_co	3	1.2E+08	1.2E+08	-1 q13.33
ENSG00000173221	1.8263	3.5462	3.51E-43	4.52E-41 GLRX	glutaredoxi protein_co	5	95751319	95823005	-1 q15
ENSG00000099937	1.8255	3.5442	7.76E-05	0.0003 SERPIND1	serpin pept protein_co	22	20773879	20787720	1 q11.21
ENSG00000197345	1.8249	3.5429	9.70E-20	1.23E-18 MRPL21	mitochondi protein_co	11	68891276	68903835	-1 q13.3
ENSG00000160752	1.8241	3.5409	1.67E-91	3.60E-87 FDPS	farnesyl di protein_co	1	1.55E+08	1.55E+08	1 q22
ENSG00000237550	1.8219	3.5355	2.50E-16	2.39E-15 UBE2Q2P6	ubiquitin-c transcribed	15	82372196	82372912	-1 q25.2
ENSG00000254261	1.8184	3.5268	8.49E-07	3.56E-06 RP11-18A15.1	lincRNA	9	26746953	26786874	1 p21.2
ENSG00000175183	1.8178	3.5255	1.58E-16	1.54E-15 CSRP2	cysteine an protein_co	12	76858715	76879060	-1 q21.2
ENSG00000263531	1.8166	3.5225	0.0009	0.0024 RP13-753N3.1	antisense	17	30863921	30864940	-1 q11.2

ENSG00000130203	1.8165	3.5224	8.62E-06	3.22E-05	APOE	apolipoprotein	19	44905754	44909393	1	q13.32
ENSG00000145592	1.816	3.5209	1.59E-17	1.68E-16	RPL37	ribosomal protein	5	40825262	40835335	-1	p13.1
ENSG00000210117	1.8145	3.5174	6.18E-05	0.0002	MT-TW	mitochondrial tRNA		5512	5579		1
ENSG00000213553	1.8139	3.5159	1.14E-13	8.75E-13	RPLP0P6	ribosomal protein	2	38481851	38482804	1	p22.1
ENSG00000165949	1.8107	3.5081	1.59E-14	1.31E-13	IFI27	interferon, protein	14	94104836	94116698	1	q32.12
ENSG00000198618	1.81	3.5063	3.28E-18	3.65E-17	PPIAP22	peptidylprolyl	21	18857779	18858276	1	q21.1
ENSG00000243955	1.8088	3.5036	3.83E-13	2.82E-12	GSTA1	glutathione protein	6	52791664	52803910	-1	p12.2
ENSG00000127184	1.808	3.5015	4.74E-28	1.26E-26	COX7C	cytochrome protein	5	86617904	86620962	1	q14.3
ENSG00000178464	1.8066	3.4982	3.83E-12	2.59E-11	CTD-2192J16.15		19	12643275	12643919	-1	p13.13
ENSG00000240087	1.8049	3.494	6.52E-08	3.04E-07	RP11-254B13.1		12	68552995	68553882	-1	q15
ENSG00000226525	1.804	3.4918	0.0002	0.0007	RPS7P10	ribosomal protein	13	21628413	21629015	-1	q12.11
ENSG00000248771	1.8029	3.4893	2.29E-10	1.33E-09	LINC01207	long intergenic lincRNA	4	1.65E+08	1.65E+08	1	q32.3
ENSG00000178449	1.8014	3.4855	1.15E-39	1.04E-37	COX14	cytochrome protein	12	50111979	50120457	1	q13.12
ENSG00000114942	1.8007	3.484	5.28E-23	8.80E-22	EEF1B2	eukaryotic protein	2	2.06E+08	2.06E+08	1	q33.3
ENSG00000225969	1.8006	3.4836	0.0001	0.0004	ABHD11-AS1	ABHD11 antisense	7	73735038	73736054	1	q11.23
ENSG00000230897	1.8	3.4822	0.0002	0.0005	RPS18P12	ribosomal protein	17	14705076	14705534	-1	p12
ENSG00000134419	1.7998	3.4818	7.00E-19	8.23E-18	RPS15A	ribosomal protein	16	18781295	18790383	-1	p12.3
ENSG00000156482	1.7993	3.4805	5.08E-18	5.55E-17	RPL30	ribosomal protein	8	98024851	98046469	-1	q22.2
ENSG00000183691	1.7988	3.4793	0.0002	0.0007	NOG	noggin [Sox] protein	17	56593699	56595590	1	q22
ENSG00000083807	1.7979	3.4772	2.75E-11	1.72E-10	SLC27A5	solute carrier protein	19	58479512	58512413	-1	q13.43
ENSG00000214110	1.7974	3.4758	8.81E-19	1.03E-17	LDHAP4	lactate dehydrogenase	9	14921337	14922334	-1	p22.3
ENSG00000119013	1.7969	3.4748	4.21E-32	1.62E-30	NDUFB3	NADH dehydrogenase	2	2.01E+08	2.01E+08	1	q33.1
ENSG00000166396	1.7969	3.4747	3.58E-07	1.55E-06	SERPINB7	serpin protein	18	63752935	63805376	1	q21.33
ENSG00000205420	1.7955	3.4713	9.94E-14	7.65E-13	KRT6A	keratin 6A protein	12	52487174	52493257	-1	q13.13
ENSG00000238103	1.7941	3.4679	2.29E-12	1.57E-11	RPL9P7	ribosomal protein		23836742	23837321	-1	p22.11
ENSG00000205106	1.7938	3.4673	9.16E-05	0.0003	AC044839.1	Uncharacterized protein	11	45771432	45772357	1	p11.2
ENSG00000131174	1.7938	3.4672	4.13E-26	9.23E-25	COX7B	cytochrome protein		77899438	77907373	1	q21.1
ENSG00000163682	1.7938	3.4672	2.02E-22	3.22E-21	RPL9	ribosomal protein	4	39454124	39458948	-1	p14
ENSG00000102393	1.7936	3.4668	2.21E-55	1.20E-52	GLA	galactosidase protein		1.01E+08	1.01E+08	-1	q22.1
ENSG00000244187	1.7935	3.4666	2.41E-27	6.04E-26	TMEM141	transmembrane protein	9	1.37E+08	1.37E+08	1	q34.3
ENSG00000189043	1.7927	3.4647	3.65E-33	1.56E-31	NDUFA4	NDUFA4, mitochondrial protein	7	10931951	10940256	-1	p21.3
ENSG00000125356	1.785	3.4462	5.03E-30	1.60E-28	NDUFA1	NADH dehydrogenase		1.2E+08	1.2E+08	1	q24
ENSG00000198721	1.7848	3.4457	9.89E-11	5.94E-10	ECI2	enoyl-CoA hydratase	6	4115689	4135597	-1	p25.2
ENSG00000254988	1.7838	3.4432	3.90E-05	0.0001	CTD-2547H18.1	antisense	11	76955417	76978619	-1	q13.5
ENSG00000242616	1.7824	3.44	6.75E-29	1.94E-27	GNG10	guanine nucleotide	9	1.12E+08	1.12E+08	1	q31.3
ENSG00000279483	1.7804	3.4353	2.30E-13	1.71E-12	RPL41	ribosomal protein	7	1.38E+08	1.38E+08	1	q33
ENSG00000185641	1.779	3.4319	5.78E-18	6.31E-17	CTD-2287O16.1		5	1.16E+08	1.16E+08	-1	q23.1
ENSG00000186474	1.7777	3.4288	0.0002	0.0005	KLK12	kallikrein-related protein	19	51029092	51035230	-1	q13.41
ENSG00000115128	1.7772	3.4276	6.33E-37	4.19E-35	SF3B6	splicing factor protein	2	24067584	24076443	-1	p23.3
ENSG00000095970	1.7771	3.4274	1.63E-10	9.57E-10	TREM2	triggering receptor protein	6	41158506	41163186	-1	p21.1
ENSG00000198805	1.7767	3.4264	1.36E-20	1.85E-19	PNP	purine nucleoside	14	20468954	20477094	1	q11.2



ENSG00000123838	1.7764	3.4257	2.43E-10	1.41E-09	C4BPA	complement protein_co	1	2.07E+08	2.07E+08	1	q32.2
ENSG00000259838	1.7764	3.4257	0.0003	0.001	TCEB1P2	transcript unprocesse	15	41557027	41557435	1	q15.1
ENSG00000185222	1.7755	3.4236	2.67E-31	9.52E-30	WBP5	WW domain protein_co X		1.03E+08	1.03E+08	1	q22.2
ENSG00000244313	1.7749	3.4221	2.65E-08	1.28E-07	RP11-425L10.1	processed_	11	46428653	46429150	-1	p11.2
ENSG00000231500	1.7746	3.4213	1.13E-15	1.01E-14	RPS18	ribosomal p protein_co	6	33272010	33276510	1	p21.32
ENSG00000204397	1.774	3.4199	6.65E-38	4.99E-36	CARD16	caspase rec protein_co	11	1.05E+08	1.05E+08	-1	q22.3
ENSG00000178473	1.773	3.4177	0.0019	0.0052	UCN3	urocortin 3 protein_co	10	5365009	5374692	1	p15.1
ENSG00000100196	1.7727	3.417	3.32E-16	3.15E-15	KDEL3	KDEL (Lys-A protein_co	22	38468062	38483447	1	q13.1
ENSG00000256940	1.7725	3.4165	5.52E-12	3.68E-11	RP11-783K16.5	antisense	11	64245964	64248217	1	q13.1
ENSG00000214389	1.7708	3.4124	3.01E-11	1.88E-10	RPS3AP26	ribosomal p processed_	7	98385801	98386584	-1	q21.3
ENSG00000127540	1.7698	3.41	3.57E-48	7.76E-46	UQCR11	ubiquinol-c protein_co	19	1597172	1605490	-1	p13.3
ENSG00000010219	1.7696	3.4097	1.11E-27	2.85E-26	DYRK4	dual-specif protein_co	12	4562204	4615302	1	p13.32
ENSG00000168028	1.7692	3.4086	9.87E-20	1.26E-18	RPSA	ribosomal p protein_co	3	39406689	39412542	1	p22.1
ENSG00000204161	1.7687	3.4075	0.0003	0.001	C10orf128	chromoson protein_co	10	49154725	49188585	-1	q11.23
ENSG00000178429	1.7678	3.4053	7.77E-06	2.92E-05	RPS3AP5	ribosomal p processed_	10	84560443	84561263	1	q23.1
ENSG00000182899	1.7669	3.4031	4.71E-22	7.30E-21	RPL35A	ribosomal p protein_co	3	1.98E+08	1.98E+08	1	q29
ENSG00000226976	1.7665	3.4023	2.89E-06	1.14E-05	COX6A1P2	cytochrome processed_	6	37044860	37045189	1	p21.2
ENSG00000107165	1.7652	3.3991	0.0021	0.0056	TYRP1	tyrosinase- protein_co	9	12685439	12710290	1	p23
ENSG00000222041	1.7647	3.3979	8.54E-13	6.10E-12	LINC00152	long interg lincRNA	2	87455368	87606805	1	p11.2
ENSG00000272663	1.7641	3.3967	0.0022	0.0058	RP11-191L17.1	lincRNA	2	48440043	48440597	-1	p16.3
ENSG00000235169	1.7623	3.3925	1.02E-08	5.10E-08	SMIM1	small integ protein_co	1	3772788	3775982	1	p36.32
ENSG00000259485	1.7614	3.3903	0.001	0.0029	CTD-2147F2.1	lincRNA	15	97295881	97432094	1	q26.2
ENSG00000171858	1.7611	3.3896	7.63E-15	6.43E-14	RPS21	ribosomal p protein_co	20	62387116	62388520	1	q13.33
ENSG00000129562	1.7603	3.3877	2.03E-43	2.66E-41	DAD1	defender a protein_co	14	22564905	22589269	-1	q11.2
ENSG00000228502	1.7602	3.3876	5.22E-11	3.21E-10	EEF1A1P11	eukaryotic processed_	1	96446930	96448318	1	p21.3
ENSG00000166670	1.7602	3.3874	8.25E-07	3.46E-06	MMMP10	matrix met protein_co	11	1.03E+08	1.03E+08	-1	q22.2
ENSG00000149806	1.7595	3.3858	3.36E-21	4.87E-20	FAU	Finkel-Biski protein_co	11	65120628	65122473	-1	q13.1
ENSG00000235174	1.7593	3.3853	5.77E-06	2.20E-05	RPL39P3	ribosomal p processed_	6	73373108	73373263	-1	q13
ENSG00000198755	1.759	3.3846	1.61E-18	1.83E-17	RPL10A	ribosomal p protein_co	6	35468408	35470785	1	p21.31
ENSG00000147403	1.7585	3.3835	5.46E-24	1.00E-22	RPL10	ribosomal p protein_co X		1.54E+08	1.54E+08	1	q28
ENSG00000119655	1.7583	3.383	2.65E-33	1.15E-31	NPC2	Niemann-P protein_co	14	74476192	74494177	-1	q24.3
ENSG00000279307	1.7577	3.3815	0.0001	0.0004	AC012065.1	processed_	2	20529470	20529976	-1	p24.1
ENSG00000111775	1.7575	3.3811	2.75E-30	8.99E-29	COX6A1	cytochrome protein_co	12	1.2E+08	1.2E+08	1	q24.31
ENSG00000169715	1.7566	3.3791	7.77E-26	1.69E-24	MT1E	metallothic protein_co	16	56625475	56627112	1	q13
ENSG00000127324	1.7552	3.3757	0.0005	0.0016	TSPAN8	tetraspanin protein_co	12	71125085	71441898	-1	q21.1
ENSG00000125538	1.7538	3.3723	1.62E-06	6.57E-06	IL1B	interleukin protein_co	2	1.13E+08	1.13E+08	-1	q14.1
ENSG00000226360	1.7523	3.369	1.03E-05	3.80E-05	RPL10AP6	ribosomal p processed_	3	61742455	61743106	-1	p14.2
ENSG00000239672	1.7523	3.3689	1.14E-44	1.69E-42	NME1	NME/NM2: protein_co	17	51153536	51162428	1	q21.33
ENSG00000159403	1.7513	3.3666	2.79E-38	2.17E-36	C1R	complement protein_co	12	7080209	7092607	-1	p13.31
ENSG00000143947	1.7503	3.3642	2.66E-22	4.18E-21	RPS27A	ribosomal p protein_co	2	55231903	55235853	1	p16.1
ENSG00000271856	1.7502	3.364	2.14E-06	8.58E-06	LINC01215	long interg lincRNA	3	1.08E+08	1.08E+08	1	q13.12

ENSG00000148834	1.749	3.3612	1.14E-51	4.23E-49	GSTO1	glutathione protein_co	10	1.04E+08	1.04E+08	1	q25.1
ENSG00000130489	1.7481	3.3592	1.14E-34	5.87E-33	SCO2	SCO2 cytoc protein_co	22	50523568	50526439	-1	q13.33
ENSG00000235552	1.7477	3.3581	1.13E-17	1.21E-16	RPL6P27	ribosomal r transcribed	18	6462144	6463015	-1	p11.31
ENSG00000164182	1.7455	3.3531	8.84E-29	2.51E-27	NDUFAF2	NADH dehyd protein_co	5	60945129	61153037	1	q12.1
ENSG00000114391	1.7452	3.3525	1.89E-21	2.80E-20	RPL24	ribosomal r protein_co	3	1.02E+08	1.02E+08	-1	q12.3
ENSG00000100902	1.7439	3.3493	9.74E-38	7.10E-36	PSMA6	proteasom protein_co	14	35278633	35317493	1	q13.2
ENSG00000178980	1.7438	3.3491	1.28E-33	5.69E-32	SEPW1	selenoprot protein_co	19	47778572	47784686	1	q13.33
ENSG00000185088	1.7433	3.348	1.31E-24	2.53E-23	RPS27L	ribosomal r protein_co	15	63125872	63158021	-1	q22.2
ENSG00000143575	1.7408	3.3423	2.53E-32	9.96E-31	HAX1	HCLS1 asso protein_co	1	1.54E+08	1.54E+08	1	q21.3
ENSG00000204872	1.7408	3.3423	0.0027	0.007	AC092653.5	polymorph	2	73700576	73701340	-1	p13.1
ENSG00000198938	1.7408	3.3421	2.40E-34	1.21E-32	MT-CO3	mitochondr protein_co MT		9207	9990	1	
ENSG00000008988	1.7388	3.3377	1.48E-22	2.39E-21	RPS20	ribosomal r protein_co	8	56067295	56074581	-1	q12.1
ENSG00000173915	1.7377	3.3351	3.58E-35	1.91E-33	USMG5	up-regulat protein_co	10	1.03E+08	1.03E+08	-1	q24.33
ENSG00000204362	1.7373	3.3341	0.0002	0.0005	RP11-380J14.1	lincRNA	1	17189783	17197617	1	p36.13
ENSG00000118181	1.7367	3.3328	1.26E-17	1.34E-16	RPS25	ribosomal r protein_co	11	1.19E+08	1.19E+08	-1	q23.3
ENSG00000058799	1.736	3.3312	1.49E-53	6.94E-51	YIPF1	Yip1 domai protein_co	1	53851719	53889834	-1	p32.3
ENSG00000125995	1.7351	3.3291	2.76E-29	8.22E-28	ROMO1	reactive ox protein_co	20	35699272	35700984	1	q11.22
ENSG00000182774	1.734	3.3265	1.36E-18	1.56E-17	RPS17	ribosomal r protein_co	15	82536753	82540564	-1	q25.2
ENSG00000213598	1.7332	3.3246	0.0024	0.0065	RP11-112J1.1	processed_	14	58794654	58795029	1	q23.1
ENSG00000125148	1.7322	3.3224	2.44E-06	9.74E-06	MT2A	metallothi protein_co	16	56608199	56609497	1	q13
ENSG00000164400	1.7322	3.3224	0.0009	0.0026	CSF2	colony stim protein_co	5	1.32E+08	1.32E+08	1	q31.1
ENSG00000250303	1.731	3.3197	6.27E-12	4.15E-11	RP11-356J5.12	lincRNA	11	1.12E+08	1.12E+08	1	q23.1
ENSG00000258580	1.7297	3.3166	0.0028	0.0074	RP11-320M16.2	antisense	14	32373337	32417974	-1	q12
ENSG00000189171	1.729	3.3149	2.21E-52	8.80E-50	S100A13	S100 calciu protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000111640	1.7285	3.3138	6.83E-37	4.46E-35	GAPDH	glyceraldeh protein_co	12	6533927	6538374	1	p13.31
ENSG00000170961	1.7265	3.3092	8.90E-34	4.08E-32	HAS2	hyaluronan protein_co	8	1.22E+08	1.22E+08	-1	q24.13
ENSG00000238005	1.7258	3.3077	0.0002	0.0008	RP11-443B7.1	lincRNA	1	2.35E+08	2.35E+08	-1	q42.3
ENSG00000230202	1.7233	3.3018	2.12E-17	2.20E-16	RP11-632C17__A.1	processed_	6	1.18E+08	1.18E+08	1	q22.2
ENSG00000235734	1.7219	3.2987	0.0014	0.0037	HMG1P36	high mobili processed_	2	97827248	97827545	1	q11.2
ENSG00000229833	1.7203	3.2951	2.89E-33	1.25E-31	PET100	PET100 hor protein_co	19	7629737	7631956	1	p13.2
ENSG00000187689	1.7203	3.295	7.07E-05	0.0002	AMTN	amelotin [S protein_co	4	70518540	70532742	1	q13.3
ENSG00000204287	1.7179	3.2895	9.98E-22	1.51E-20	HLA-DRA	major histo protein_co	6	32439842	32445046	1	p21.32
ENSG00000172602	1.7172	3.288	6.12E-07	2.60E-06	RND1	Rho family protein_co	12	48857145	48865898	-1	q13.12
ENSG00000150787	1.7166	3.2867	1.48E-35	8.17E-34	PTS	6-pyruvoyl protein_co	11	1.12E+08	1.12E+08	1	q23.1
ENSG00000198856	1.7145	3.2817	9.68E-24	1.73E-22	OSTC	oligosaccha protein_co	4	1.09E+08	1.09E+08	1	q25
ENSG00000210112	1.7137	3.2799	2.18E-05	7.76E-05	MT-TM	mitochondr Mt_tRNA MT		4402	4469	1	
ENSG00000162244	1.7133	3.2792	6.45E-18	6.99E-17	RPL29	ribosomal r protein_co	3	51993600	51995942	-1	p21.2
ENSG00000230043	1.7132	3.279	6.59E-05	0.0002	TMSB4XP6	thymosin b processed_	20	50840615	50840749	-1	q13.13
ENSG00000106803	1.7132	3.2789	5.77E-50	1.57E-47	SEC61B	Sec61 beta protein_co	9	99222064	99230615	1	q22.33
ENSG00000226791	1.7132	3.2788	0.0032	0.0084	AC109826.1	lincRNA	2	98761938	98772920	-1	q11.2
ENSG00000257084	1.7119	3.276	1.47E-32	5.89E-31	U47924.27	lincRNA	12	6963246	6964447	1	p13.31

ENSG00000152463	1.7114	3.2748	0.0006	0.0019 OLAH	oleoyl-ACP protein_co	10	15032227	15073852	1	p13
ENSG00000198796	1.7113	3.2744	0.003	0.0078 ALPK2	alpha-kinas protein_co	18	58481247	58628957	-1	q21.32
ENSG00000198242	1.7095	3.2704	3.99E-25	8.13E-24 RPL23A	ribosomal Ꞥ protein_co	17	28719393	28724359	1	q11.2
ENSG00000174917	1.7081	3.2674	8.16E-23	1.35E-21 C19orf70	chromoson protein_co	19	5678421	5680896	-1	p13.3
ENSG00000233276	1.7078	3.2666	5.23E-43	6.62E-41 GPX1	glutathione protein_co	3	49357176	49358600	-1	p21.31
ENSG00000182117	1.7065	3.2637	8.27E-37	5.33E-35 NOP10	NOP10 ribc protein_co	15	34341713	34343177	-1	q14
ENSG00000198736	1.7045	3.2592	6.48E-25	1.30E-23 MSRB1	methionine protein_co	16	1938210	1943326	-1	p13.3
ENSG00000197958	1.7035	3.257	4.68E-20	6.11E-19 RPL12	ribosomal Ꞥ protein_co	9	1.27E+08	1.27E+08	-1	q33.3
ENSG00000203875	1.7035	3.2568	2.07E-29	6.28E-28 SNHG5	small nucle processed_	6	85660950	85678736	-1	q14.3
ENSG00000263266	1.7035	3.2568	4.37E-07	1.88E-06 RPS7P1	ribosomal Ꞥ processed_	17	28467822	28468406	1	q11.2
ENSG00000126756	1.7026	3.2548	1.31E-22	2.12E-21 UXT	ubiquitousl protein_co X		47651798	47659161	-1	p11.23
ENSG00000169413	1.7012	3.2516	2.17E-05	7.72E-05 RNASE6	ribonucleas protein_co	14	20781051	20782467	1	q11.2
ENSG00000181817	1.7011	3.2515	3.28E-34	1.61E-32 LSM10	LSM10, U7 protein_co	1	36391238	36397892	-1	p34.3
ENSG00000126267	1.7009	3.251	2.25E-23	3.90E-22 COX6B1	cytochrom protein_co	19	35648223	35658861	1	q13.12
ENSG00000134853	1.7005	3.2502	1.31E-11	8.42E-11 PDGFRA	platelet-de protein_co	4	54229097	54298247	1	q12
ENSG00000090263	1.6985	3.2456	3.82E-21	5.48E-20 MRPS33	mitochond protein_co	7	1.41E+08	1.41E+08	-1	q34
ENSG00000205155	1.6977	3.2439	2.96E-06	1.17E-05 PSENN	presenilin Ꞥ protein_co	19	35745114	35747519	1	q13.12
ENSG00000227192	1.6974	3.2432	0.0001	0.0005 RP1-45I4.3	lincRNA	6	1.43E+08	1.43E+08	-1	q24.2
ENSG00000154269	1.6957	3.2394	2.09E-08	1.02E-07 ENPP3	ectonucleo protein_co	6	1.32E+08	1.32E+08	1	q23.2
ENSG00000128918	1.6936	3.2347	1.61E-07	7.24E-07 ALDH1A2	aldehyde d protein_co	15	57953424	58497866	-1	q21.3
ENSG00000227615	1.6933	3.234	3.85E-08	1.84E-07 RP11-864N7.2	processed_	11	74745716	74746114	-1	q13.4
ENSG00000129559	1.693	3.2333	1.72E-50	5.00E-48 NEDD8	neural prec protein_co	14	24216852	24232454	-1	q12
ENSG00000131495	1.6928	3.2329	3.08E-31	1.09E-29 NDUFA2	NADH dehy protein_co	5	1.41E+08	1.41E+08	-1	q31.3
ENSG00000162174	1.6919	3.2308	7.03E-08	3.27E-07 ASRGL1	asparagina protein_co	11	62337448	62393412	1	q12.3
ENSG00000243449	1.6914	3.2298	5.45E-17	5.49E-16 C4orf48	chromoson protein_co	4	2041993	2043970	1	p16.3
ENSG00000150551	1.6912	3.2293	1.91E-11	1.22E-10 LYPD1	LY6/PLAUR protein_co	2	1.33E+08	1.33E+08	-1	q21.2
ENSG00000102309	1.6902	3.2271	4.97E-34	2.37E-32 PIN4	protein (pe protein_co X		72181353	72302926	1	q13.1
ENSG00000234498	1.6901	3.2269	6.12E-06	2.32E-05 RPL13AP20	ribosomal Ꞥ processed_	12	12875499	12876107	1	p13.1
ENSG00000150540	1.6896	3.2256	4.17E-12	2.81E-11 HNMT	histamine Ꞥ protein_co	2	1.38E+08	1.38E+08	1	q22.1
ENSG00000257698	1.6894	3.2253	7.09E-05	0.0002 RP11-620J15.3	lincRNA	12	57931528	57936175	-1	q14.1
ENSG00000256073	1.6891	3.2246	7.60E-15	6.41E-14 URB1-AS1	URB1 antis lincRNA	21	32393130	32393960	1	q22.11
ENSG00000107223	1.6888	3.2239	1.52E-46	2.79E-44 EDF1	endothelial protein_co	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000211459	1.6877	3.2214	1.23E-25	2.64E-24 MT-RNR1	mitochondl Mt_rRNA MT		648	1601	1	
ENSG00000147669	1.6875	3.2209	6.19E-41	6.53E-39 POLR2K	polymerase protein_co	8	1E+08	1E+08	1	q22.2
ENSG00000244538	1.6867	3.2191	0.0033	0.0086 RP11-10G12.1	processed_	4	22594196	22594450	1	p15.2
ENSG00000110442	1.6865	3.2188	1.90E-51	6.71E-49 COMMD9	COMM dor protein_co	11	36269284	36289449	-1	p13
ENSG00000182165	1.6861	3.2178	3.99E-43	5.11E-41 TP53TG1	TP53 target lincRNA	7	87325225	87345515	-1	q21.12
ENSG00000167863	1.6859	3.2173	1.26E-28	3.53E-27 ATP5H	ATP syntha protein_co	17	75038863	75046985	-1	q25.1
ENSG00000136930	1.6844	3.2142	5.69E-50	1.57E-47 PSMB7	proteasom protein_co	9	1.24E+08	1.24E+08	-1	q33.3
ENSG00000128285	1.6844	3.214	0.0022	0.0058 MCHR1	melanin-co protein_co	22	40678750	40682814	1	q13.2
ENSG00000249353	1.6841	3.2135	8.91E-17	8.87E-16 NPM1P27	nucleopho: processed_	5	93682838	93683667	-1	q15



ENSG00000005421	1.6839	3.2129	0.0028	0.0073 PON1	paraoxona:protein_co	7	95297676	95324707	-1	q21.3
ENSG00000156411	1.6836	3.2124	5.64E-25	1.13E-23 C14orf2	chromoson protein_co	14	1.04E+08	1.04E+08	-1	q32.33
ENSG00000224631	1.6827	3.2103	2.35E-09	1.25E-08 RP11-51O6.1	transcribed	16	61055399	61055964	-1	q21
ENSG00000173432	1.6825	3.2099	7.45E-06	2.80E-05 SAA1	serum amy protein_co	11	18266174	18269977	1	p15.1
ENSG00000233913	1.6823	3.2093	4.93E-05	0.0002 CTC-575D19.1	processed_	5	1.69E+08	1.69E+08	1	q34
ENSG00000177954	1.6818	3.2083	5.01E-12	3.36E-11 RPS27	ribosomal Ꞥ protein_co	1	1.54E+08	1.54E+08	1	q21.3
ENSG00000120509	1.6801	3.2045	2.00E-39	1.76E-37 PDZD11	PDZ domain protein_co X		70286595	70290514	-1	q13.1
ENSG00000146425	1.6792	3.2026	8.99E-16	8.16E-15 DYNLT1	dynein, light protein_co	6	1.59E+08	1.59E+08	-1	q25.3
ENSG00000082929	1.6784	3.2008	1.88E-06	7.60E-06 C4orf6	chromoson protein_co	4	5524569	5527801	1	p16.2
ENSG00000163263	1.676	3.1954	0.0003	0.0009 C1orf189	chromoson protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000145425	1.6753	3.1938	1.39E-14	1.15E-13 RPS3A	ribosomal Ꞥ protein_co	4	1.51E+08	1.51E+08	1	q31.3
ENSG00000171236	1.6749	3.1929	7.03E-20	9.04E-19 LRG1	leucine-rich protein_co	19	4536409	4540474	-1	p13.3
ENSG00000233254	1.6746	3.1924	0.0032	0.0084 RPL21P134	ribosomal Ꞥ processed_ X		75384346	75384828	1	q13.3
ENSG00000130829	1.6741	3.1913	4.15E-07	1.79E-06 DUSP9	dual specific protein_co X		1.54E+08	1.54E+08	1	q28
ENSG00000205403	1.6733	3.1894	1.99E-12	1.37E-11 CFI	complemer protein_co	4	1.1E+08	1.1E+08	-1	q25
ENSG00000172172	1.6729	3.1885	5.34E-40	4.99E-38 MRPL13	mitochondr protein_co	8	1.2E+08	1.2E+08	-1	q24.12
ENSG00000196683	1.6728	3.1882	3.05E-19	3.71E-18 TOMM7	translocase protein_co	7	22812628	22822852	-1	p15.3
ENSG00000131475	1.6726	3.1879	3.68E-34	1.79E-32 VPS25	vacuolar pr protein_co	17	42773436	42779599	1	q21.2
ENSG00000277791	1.6715	3.1855	2.24E-45	3.54E-43 PSMB3	proteasom protein_co	17	38752736	38764231	1	q12
ENSG00000224805	1.6709	3.1841	0.0002	0.0007 LINC00853	long intergen antisense	1	47179250	47180339	1	p33
ENSG00000135441	1.6704	3.1829	4.82E-18	5.28E-17 BLOC1S1	biogenesis protein_co	12	55716037	55720087	1	q13.2
ENSG00000156689	1.6696	3.1812	2.71E-07	1.19E-06 GLYATL2	glycine-N-a protein_co	11	58834065	58904215	-1	q12.1
ENSG00000264920	1.6686	3.179	2.52E-17	2.61E-16 RP11-6N17.4	processed_	17	47891255	47895812	-1	q21.32
ENSG00000112306	1.6652	3.1717	1.63E-18	1.84E-17 RPS12	ribosomal Ꞥ protein_co	6	1.33E+08	1.33E+08	1	q23.2
ENSG00000226465	1.6652	3.1717	0.0012	0.0034 RP13-401N8.1	antisense	20	25751218	25752761	1	p11.1
ENSG00000213326	1.6647	3.1704	3.12E-05	0.0001 RPS7P11	ribosomal Ꞥ processed_	17	46721582	46722167	-1	q21.31
ENSG00000123131	1.663	3.1668	3.01E-37	2.06E-35 PRDX4	peroxiredo protein_co X		23664262	23686399	1	p22.11
ENSG00000173198	1.6624	3.1655	3.00E-07	1.31E-06 CYSLTR1	cysteinyl le protein_co X		78271464	78327691	-1	q21.1
ENSG00000171202	1.6624	3.1654	2.51E-31	9.00E-30 TMEM126A	transmemꞤ protein_co	11	85647967	85656547	1	q14.1
ENSG00000232699	1.6617	3.164	0.0019	0.0051 BDH2P1	3-hydroxyb processed_	6	99174744	99175479	1	q16.2
ENSG00000221983	1.6607	3.1617	3.56E-25	7.30E-24 UBA52	ubiquitin A protein_co	19	18571730	18577550	1	p13.11
ENSG00000237976	1.6605	3.1612	0.0004	0.0011 RP11-126K1.6	antisense	1	1.51E+08	1.51E+08	1	q21.3
ENSG00000136688	1.6602	3.1606	0.0002	0.0005 IL36G	interleukin protein_co	2	1.13E+08	1.13E+08	1	q14.1
ENSG00000187051	1.6601	3.1605	7.68E-30	2.40E-28 RPS19BP1	ribosomal Ꞥ protein_co	22	39529093	39532855	-1	q13.1
ENSG00000089157	1.6593	3.1587	1.52E-16	1.48E-15 RPLP0	ribosomal Ꞥ protein_co	12	1.2E+08	1.2E+08	-1	q24.23
ENSG00000231769	1.6591	3.1583	5.57E-05	0.0002 RP1-8B1.4	antisense	6	46097093	46129706	-1	p21.1
ENSG00000269293	1.6589	3.1578	1.54E-11	9.88E-11 ZSCAN16-AS1	ZSCAN16 antisense	6	28121795	28137293	-1	p22.1
ENSG00000236814	1.6567	3.1531	2.02E-07	8.98E-07 RP11-446E9.1	processed_	8	56050038	56051207	-1	q12.1
ENSG00000148346	1.6567	3.1529	9.96E-10	5.47E-09 LCN2	lipocalin 2 Ꞥ protein_co	9	1.28E+08	1.28E+08	1	q34.11
ENSG00000133112	1.656	3.1515	3.48E-22	5.41E-21 TPT1	tumor prot protein_co	13	45333471	45341370	-1	q14.13
ENSG00000111716	1.6552	3.1496	1.02E-30	3.44E-29 LDHB	lactate deh protein_co	12	21635342	21757857	-1	p12.1

ENSG00000223478	1.6551	3.1495	2.66E-16	2.54E-15	RP11-545E17.3	antisense	9	1.29E+08	1.29E+08	1	q34.11
ENSG00000215218	1.6548	3.1487	0.0033	0.0085	UBE2QL1	ubiquitin-c protein_co	5	6448623	6494909	1	p15.31
ENSG00000169567	1.6544	3.148	1.92E-33	8.45E-32	HINT1	histidine triprotein_co	5	1.31E+08	1.31E+08	-1	q23.3
ENSG00000162949	1.6535	3.146	1.26E-07	5.72E-07	CAPN13	calpain 13  protein_co	2	30722771	30820542	-1	p23.1
ENSG00000108691	1.6521	3.1429	0.0002	0.0007	CCL2	chemokine protein_co	17	34255218	34257203	1	q12
ENSG00000231651	1.6519	3.1426	0.0006	0.0017	DLG3-AS1	DLG3 antisense X	70452958	70455994		-1	q13.1
ENSG00000203778	1.6519	3.1425	4.96E-05	0.0002	FAM229B	family with protein_co	6	1.12E+08	1.12E+08	1	q21
ENSG00000258053	1.6514	3.1414	0.0033	0.0086	CTD-2021H9.3	lincRNA	12	71047402	71118247	-1	q21.1
ENSG00000265681	1.6503	3.139	7.48E-24	1.35E-22	RPL17	ribosomal protein_co	18	49488453	49492565	-1	q21.1
ENSG00000232888	1.6501	3.1385	0.001	0.0028	RPS11P5	ribosomal processed_	12	1.33E+08	1.33E+08	1	q24.33
ENSG00000183617	1.6494	3.137	1.65E-31	6.04E-30	MRPL54	mitochond protein_co	19	3762664	3768575	1	p13.3
ENSG00000167711	1.6482	3.1344	3.90E-16	3.67E-15	SERPINF2	serpin peptprotein_co	17	1742836	1755268	1	p13.3
ENSG00000142541	1.6476	3.1331	4.71E-16	4.40E-15	RPL13A	ribosomal protein_co	19	49487554	49492308	1	q13.33
ENSG00000165629	1.6472	3.1321	1.84E-39	1.63E-37	ATP5C1	ATP syntha protein_co	10	7788129	7807815	1	p14
ENSG00000198417	1.6471	3.1321	1.53E-08	7.54E-08	MT1F	metallothic protein_co	16	56657694	56660698	1	q13
ENSG00000231389	1.6467	3.1311	2.12E-22	3.37E-21	HLA-DPA1	major histo protein_co	6	33064569	33080775	-1	p21.32
ENSG00000253400	1.6457	3.1291	3.03E-05	0.0001	RP11-337A23.6	lincRNA	9	26801733	26805862	1	p21.2
ENSG00000129235	1.6456	3.1288	6.74E-37	4.44E-35	TXNDC17	thioredoxin protein_co	17	6640758	6644541	1	p13.1
ENSG00000142676	1.6446	3.1267	5.21E-21	7.36E-20	RPL11	ribosomal protein_co	1	23691779	23696425	1	p36.11
ENSG00000243926	1.644	3.1254	7.98E-07	3.36E-06	TIPARP-AS1	TIPARP antisense	3	1.57E+08	1.57E+08	-1	q25.31
ENSG00000171476	1.6427	3.1226	0.0003	0.0009	HOPX	HOP home protein_co	4	56647988	56681899	-1	q12
ENSG00000116741	1.6421	3.1212	7.40E-13	5.32E-12	RGS2	regulator o protein_co	1	1.93E+08	1.93E+08	1	q31.2
ENSG00000155754	1.6419	3.1208	0.0033	0.0086	ALS2CR11	amyotroph protein_co	2	2.01E+08	2.02E+08	-1	q33.1
ENSG00000111348	1.6416	3.1202	6.90E-09	3.51E-08	ARHGDI8	Rho GDP di protein_co	12	14942017	14961728	-1	p12.3
ENSG00000163584	1.6414	3.1197	6.04E-24	1.10E-22	RPL22L1	ribosomal protein_co	3	1.71E+08	1.71E+08	-1	q26.2
ENSG00000149196	1.6408	3.1184	1.79E-40	1.78E-38	C11orf73	chromoson protein_co	11	86302211	86345931	1	q14.2
ENSG00000147684	1.6407	3.1182	6.43E-22	9.84E-21	NDUFB9	NADH dehy protein_co	8	1.25E+08	1.25E+08	1	q24.13
ENSG00000260025	1.6388	3.1141	0.0001	0.0004	RP11-490M8.1	lincRNA	2	36354749	36355114	-1	p22.2
ENSG00000174547	1.6369	3.11	5.01E-18	5.48E-17	MRPL11	mitochond protein_co	11	66435075	66466738	-1	q13.2
ENSG00000128524	1.6363	3.1086	3.46E-33	1.48E-31	ATP6V1F	ATPase, H+ protein_co	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000166920	1.6351	3.106	4.41E-09	2.29E-08	C15orf48	chromoson protein_co	15	45430529	45448761	1	q21.1
ENSG00000205544	1.6343	3.1043	2.23E-16	2.14E-15	TMEM256	transmemk protein_co	17	7402975	7404137	-1	p13.1
ENSG00000105677	1.6341	3.104	1.79E-36	1.10E-34	TMEM147	transmemk protein_co	19	35545595	35547526	1	q13.12
ENSG00000100911	1.6325	3.1004	2.30E-59	1.90E-56	PSME2	proteasom protein_co	14	24143362	24147570	-1	q12
ENSG00000241990	1.6308	3.0969	5.70E-12	3.80E-11	PRR34-AS1	PRR34 antisense	22	46053705	46057210	1	q13.31
ENSG00000156127	1.63	3.0952	6.38E-15	5.40E-14	BATF	basic leucir protein_co	14	75522425	75547015	1	q24.3
ENSG00000100097	1.6274	3.0895	3.63E-05	0.0001	LGALS1	lectin, galat protein_co	22	37675608	37679806	1	q13.1
ENSG00000115009	1.6254	3.0854	1.26E-05	4.60E-05	CCL20	chemokine protein_co	2	2.28E+08	2.28E+08	1	q36.3
ENSG00000105372	1.6247	3.0837	1.84E-22	2.95E-21	RPS19	ribosomal protein_co	19	41859918	41872926	1	q13.2
ENSG00000237013	1.6245	3.0833	0.0054	0.0134	AC010987.6	lincRNA	2	67796054	67825562	-1	p14
ENSG00000135940	1.6242	3.0827	8.60E-19	1.01E-17	COX5B	cytochrom protein_co	2	97646040	97648383	1	q11.2

ENSG00000232112	1.6234	3.0811	4.47E-58	3.00E-55	TMA7	translation protein_co	3	48440257	48444208	1	p21.31
ENSG00000248663	1.6224	3.0788	0.0046	0.0117	LINC00992	long interg:lincRNA	5	1.17E+08	1.18E+08	1	q23.1
ENSG00000231621	1.6219	3.0778	0.0008	0.0023	AC013264.2	antisense	2	1.97E+08	1.97E+08	1	q33.1
ENSG00000123353	1.6189	3.0713	9.64E-46	1.60E-43	ORMDL2	ORMDL sp1 protein_co	12	55817919	55821879	1	q13.2
ENSG00000135218	1.6185	3.0707	1.05E-10	6.27E-10	CD36	CD36 mole protein_co	7	80369575	80679277	1	q21.11
ENSG00000163170	1.6179	3.0694	1.62E-22	2.61E-21	BOLA3	bolA family protein_co	2	74135398	74147994	-1	p13.1
ENSG00000164038	1.6161	3.0654	1.44E-10	8.50E-10	SLC9B2	solute carri protein_co	4	1.03E+08	1.03E+08	-1	q24
ENSG00000215910	1.6161	3.0654	0.0005	0.0015	C1orf167	chromoson protein_co	1	11761787	11789585	1	p36.22
ENSG00000230383	1.6149	3.0628	1.02E-05	3.75E-05	AC009245.3	processed_	7	1.38E+08	1.38E+08	1	q33
ENSG00000041357	1.6147	3.0625	1.56E-47	3.17E-45	PSMA4	proteasom protein_co	15	78540405	78552419	1	q25.1
ENSG00000204644	1.6146	3.0623	0.0004	0.0013	ZFP57	ZFP57 zinc protein_co	6	29672392	29681110	-1	p22.1
ENSG00000221986	1.613	3.0588	0.002	0.0053	MYBPHL	myosin bin protein_co	1	1.09E+08	1.09E+08	-1	p13.3
ENSG00000230629	1.6123	3.0575	1.59E-07	7.18E-07	RPS23P8	ribosomal f processed_ X		70962964	70963293	1	q13.1
ENSG00000121089	1.6122	3.0573	0.0002	0.0007	NACA3P	NACA famil processed_	4	1.65E+08	1.65E+08	1	q32.3
ENSG00000250891	1.612	3.0568	0.0053	0.0132	CTD-2281M20.1	lincRNA	5	1.18E+08	1.19E+08	-1	q23.1
ENSG00000128185	1.6118	3.0562	3.39E-22	5.28E-21	DGCR6L	DiGeorge s protein_co	22	20314276	20320080	-1	q11.21
ENSG00000100567	1.6111	3.0548	2.58E-37	1.77E-35	PSMA3	proteasom protein_co	14	58244831	58272012	1	q23.1
ENSG00000132429	1.6106	3.0538	0.0003	0.0009	POPCD3	popeye dor protein_co	6	1.05E+08	1.05E+08	-1	q21
ENSG00000203760	1.6104	3.0533	1.44E-19	1.79E-18	CENPW	centromer protein_co	6	1.26E+08	1.26E+08	1	q22.32
ENSG00000163216	1.6099	3.0523	0.0006	0.0017	SPRR2D	small prolir protein_co	1	1.53E+08	1.53E+08	-1	q21.3
ENSG00000171421	1.6094	3.0513	3.53E-34	1.72E-32	MRPL36	mitochondi protein_co	5	1798386	1801366	-1	p15.33
ENSG00000235957	1.6093	3.0511	0.0002	0.0006	COX7CP1	cytochromi processed_	13	49187479	49187670	-1	q14.2
ENSG00000105193	1.6079	3.0481	4.97E-17	5.03E-16	RPS16	ribosomal f protein_co	19	39433207	39435948	-1	q13.2
ENSG00000101132	1.6058	3.0436	1.20E-22	1.95E-21	PFDN4	prefoldin s protein_co	20	54207847	54228052	1	q13.2
ENSG00000168306	1.6046	3.0411	0.0002	0.0006	ACOX2	acyl-CoA o protein_co	3	58505136	58537319	-1	p14.3
ENSG00000134339	1.6045	3.041	5.37E-05	0.0002	SAA2	serum amy protein_co	11	18239223	18248643	-1	p15.1
ENSG00000268129	1.6009	3.0334	1.13E-06	4.69E-06	RP11-91G21.1	lincRNA	3	1.43E+08	1.43E+08	-1	q23
ENSG00000104537	1.6002	3.0318	0.0051	0.0128	ANXA13	annexin A1 protein_co	8	1.24E+08	1.24E+08	-1	q24.13
ENSG00000189377	1.5999	3.0312	1.67E-18	1.90E-17	CXCL17	chemokine protein_co	19	42428288	42443048	-1	q13.2
ENSG00000106028	1.5996	3.0306	2.03E-62	3.35E-59	SSBP1	single-strar protein_co	7	1.42E+08	1.42E+08	1	q34
ENSG00000213860	1.598	3.0273	1.46E-09	7.91E-09	RPL21P75	ribosomal f processed_	7	20002765	20003247	1	p21.1
ENSG00000129538	1.5976	3.0264	3.34E-07	1.45E-06	RNASE1	ribonuclea: protein_co	14	20801228	20803278	-1	q11.2
ENSG00000037241	1.5956	3.0222	6.49E-25	1.30E-23	RPL26L1	ribosomal f protein_co	5	1.73E+08	1.73E+08	1	q35.1
ENSG00000239470	1.5954	3.0219	0.0003	0.001	RP11-16F15.2	processed_	11	9660438	9660920	1	p15.4
ENSG00000139428	1.5952	3.0215	6.56E-18	7.10E-17	MMAB	methylmal protein_co	12	1.1E+08	1.1E+08	-1	q24.11
ENSG00000167397	1.595	3.021	3.76E-16	3.55E-15	VKORC1	vitamin K e protein_co	16	31090842	31095980	-1	p11.2
ENSG00000214535	1.5947	3.0204	0.006	0.0149	RPS15AP1	ribosomal f processed_	20	21166206	21166596	-1	p11.23
ENSG00000111245	1.5941	3.0192	0.0062	0.0153	MYL2	myosin, ligl protein_co	12	1.11E+08	1.11E+08	-1	q24.11
ENSG00000132432	1.5938	3.0185	2.31E-28	6.38E-27	SEC61G	Sec61 gami protein_co	7	54752250	54759974	-1	p11.2
ENSG00000204444	1.5936	3.018	0.0001	0.0004	APOM	apolipopro protein_co	6	31652416	31658210	1	p21.33
ENSG00000111639	1.5931	3.0171	5.59E-46	9.47E-44	MRPL51	mitochondi protein_co	12	6491886	6493841	-1	p13.31

ENSG00000162645	1.5929	3.0166	6.10E-41	6.50E-39	GBP2	guanylate t protein_co	1	89106132	89150456	-1	p22.2
ENSG00000266282	1.5929	3.0165	0.0006	0.0017	UBL5P2	ubiquitin-lil processed_	17	32227890	32228108	-1	q11.2
ENSG00000076662	1.5918	3.0142	6.25E-22	9.58E-21	ICAM3	intercellula protein_co	19	10333776	10339823	-1	p13.2
ENSG00000184983	1.5917	3.014	8.71E-26	1.89E-24	NDUFA6	NADH dehy protein_co	22	42085525	42090955	-1	q13.2
ENSG00000204628	1.59	3.0106	1.58E-19	1.96E-18	GNB2L1	guanine nu protein_co	5	1.81E+08	1.81E+08	-1	q35.3
ENSG00000196656	1.5901	3.0106	1.50E-07	6.74E-07	AC004057.1	transcribed	4	1.13E+08	1.13E+08	-1	q26
ENSG00000166441	1.5897	3.0098	2.38E-18	2.66E-17	RPL27A	ribosomal p protein_co	11	8682411	8714759	1	p15.4
ENSG00000205871	1.5888	3.0081	0.0002	0.0006	RPS3AP47	ribosomal p processed_	15	43115702	43116493	-1	q15.2
ENSG00000135744	1.5877	3.0058	6.43E-05	0.0002	AGT	angiotensin protein_co	1	2.31E+08	2.31E+08	-1	q42.2
ENSG00000228887	1.5874	3.0052	0.0025	0.0067	EEF1DP1	eukaryotic processed_	19	14070342	14071237	1	p13.12
ENSG00000100319	1.5866	3.0035	1.19E-25	2.55E-24	ZMAT5	zinc finger, protein_co	22	29730956	29767011	-1	q12.2
ENSG00000156467	1.5864	3.0031	3.25E-20	4.29E-19	UQCRB	ubiquinol-c protein_co	8	96225920	96235634	-1	q22.1
ENSG00000131100	1.5851	3.0004	2.63E-53	1.18E-50	ATP6V1E1	ATPase, H+ protein_co	22	17592136	17628818	-1	q11.21
ENSG00000205076	1.5851	3.0004	4.85E-05	0.0002	LGALS7	lectin, gala protein_co	19	38770971	38773492	-1	q13.2
ENSG00000218426	1.5842	2.9983	1.74E-09	9.35E-09	RP11-475C16.1	processed_	6	1.53E+08	1.53E+08	-1	q25.2
ENSG00000258016	1.5842	2.9983	0.0031	0.0081	HIGD1AP1	HIG1 hypo processed_	12	53142053	53142327	1	q13.13
ENSG00000070081	1.5839	2.9979	1.33E-08	6.60E-08	NUCB2	nucleobind protein_co	11	17208153	17349974	1	p15.1
ENSG00000233762	1.5836	2.9972	4.22E-07	1.82E-06	AC007969.5	processed_	2	1.72E+08	1.72E+08	-1	q31.1
ENSG00000144649	1.5828	2.9955	0.0019	0.0052	FAM198A	family with protein_co	3	42979267	43060211	1	p22.1
ENSG00000205542	1.5825	2.9948	7.09E-22	1.08E-20	TMSB4X	thymosin b protein_co X		12975108	12977227	1	p22.2
ENSG00000197582	1.582	2.9938	4.32E-29	1.26E-27	GPX1P1	glutathione processed_ X		13378735	13379340	-1	p22.2
ENSG00000170310	1.5813	2.9925	6.38E-26	1.40E-24	STX8	syntaxin 8 protein_co	17	9250471	9576591	-1	p13.1
ENSG00000120437	1.5811	2.992	1.19E-40	1.20E-38	ACAT2	acetyl-CoA protein_co	6	1.6E+08	1.6E+08	1	q25.3
ENSG00000231172	1.5809	2.9915	0.0042	0.0107	AC007099.1	antisense	2	75524068	75542706	1	p12
ENSG00000236876	1.5806	2.9909	0.0036	0.0094	TMSB4XP1	thymosin b processed_	1	42500205	42500339	-1	p34.2
ENSG00000164258	1.58	2.9897	7.22E-30	2.27E-28	NDUFS4	NADH dehy protein_co	5	53560633	53683340	1	q11.2
ENSG00000115252	1.5794	2.9884	6.26E-07	2.66E-06	PDE1A	phosphodi protein_co	2	1.82E+08	1.83E+08	-1	q32.1
ENSG00000107020	1.5786	2.9869	2.00E-52	8.11E-50	PLGRKT	plasminoge protein_co	9	5357973	5437878	-1	p24.1
ENSG00000186973	1.5786	2.9867	0.0023	0.006	FAM183A	family with protein_co	1	43145153	43156396	1	p34.2
ENSG00000109971	1.5771	2.9837	2.13E-40	2.10E-38	HSPA8	heat shock protein_co	11	1.23E+08	1.23E+08	-1	q24.1
ENSG00000197353	1.5768	2.9831	6.93E-09	3.52E-08	LYPD2	LY6/PLAUR protein_co	8	1.43E+08	1.43E+08	-1	q24.3
ENSG00000165775	1.5767	2.983	8.64E-40	7.87E-38	FUNDC2	FUN14 don protein_co X		1.55E+08	1.55E+08	1	q28
ENSG00000182718	1.5766	2.9826	1.16E-49	2.97E-47	ANXA2	annexin A2 protein_co	15	60347134	60402883	-1	q22.2
ENSG00000164346	1.5766	2.9826	3.51E-23	5.93E-22	NSA2	NSA2 ribos protein_co	5	74766991	74780113	1	q13.3
ENSG00000234380	1.5764	2.9822	5.85E-05	0.0002	LINC01426	long interg antisense	21	34745757	34784886	1	q22.12
ENSG00000267871	1.5763	2.982	0.0024	0.0063	CTC-444N24.6	antisense	19	57267220	57280334	-1	q13.43
ENSG00000172428	1.5756	2.9806	7.64E-33	3.15E-31	MYEOV2	myeloma o protein_co	2	2.4E+08	2.4E+08	-1	q37.3
ENSG00000106591	1.575	2.9793	2.28E-39	1.99E-37	MRPL32	mitochondi protein_co	7	42932200	42948958	1	p14.1
ENSG00000196262	1.5739	2.9771	2.23E-55	1.20E-52	PPIA	peptidylprc protein_co	7	44796680	44824564	1	p13
ENSG00000249241	1.5721	2.9733	0.0012	0.0035	AC195454.1	lincRNA	4	40316485	40330419	1	p14
ENSG00000198270	1.572	2.9731	3.36E-23	5.71E-22	TMEM116	transmemt protein_co	12	1.12E+08	1.12E+08	-1	q24.13

ENSG00000154589	1.5706	2.9703	6.38E-05	0.0002	LY96	lymphocyte protein_co	8	73991352	74029087	1	q21.11
ENSG00000169599	1.5698	2.9687	4.00E-54	1.96E-51	NFU1	NFU1 iron- protein_co	2	69395750	69437628	-1	p13.3
ENSG00000143774	1.5688	2.9665	1.75E-44	2.57E-42	GUK1	guanylate k protein_co	1	2.28E+08	2.28E+08	1	q42.13
ENSG00000136371	1.5687	2.9664	4.48E-15	3.84E-14	MTHFS	5,10-meth protein_co	15	79833585	79897379	-1	q25.1
ENSG00000012504	1.5686	2.9662	0.0048	0.0121	NR1H4	nuclear rec protein_co	12	1E+08	1.01E+08	1	q23.1
ENSG00000196139	1.5674	2.9637	4.20E-40	4.00E-38	AKR1C3	aldo-keto r protein_co	10	5035354	5107686	1	p15.1
ENSG00000152147	1.5666	2.962	6.07E-18	6.60E-17	GEMIN6	gem (nucle protein_co	2	38751534	38785000	1	p22.1
ENSG00000104368	1.5654	2.9596	2.45E-07	1.08E-06	PLAT	plasminoge protein_co	8	42175233	42207724	-1	p11.21
ENSG00000234287	1.5653	2.9593	0.0005	0.0014	RP11-761N21.2	processed_	3	40761545	40761799	1	p22.1
ENSG00000235505	1.5649	2.9585	0.0028	0.0072	RP11-693N9.2	transcribed	11	1.05E+08	1.05E+08	-1	q22.3
ENSG00000100410	1.5644	2.9576	2.36E-26	5.39E-25	PHF5A	PHD finger protein_co	22	41459717	41468725	-1	q13.2
ENSG00000172809	1.5644	2.9575	4.63E-33	1.95E-31	RPL38	ribosomal r protein_co	17	74203582	74210655	1	q25.1
ENSG00000231107	1.564	2.9567	0.0032	0.0084	LINC01508	long interg lincRNA	9	90300902	90433505	-1	q22.2
ENSG00000089009	1.5639	2.9565	2.42E-23	4.17E-22	RPL6	ribosomal r protein_co	12	1.12E+08	1.12E+08	-1	q24.13
ENSG00000257727	1.5629	2.9544	2.78E-26	6.31E-25	CNPY2	canopy FGf protein_co	12	56309842	56316336	-1	q13.3
ENSG00000142227	1.5628	2.9543	5.95E-09	3.05E-08	EMP3	epithelial n protein_co	19	48321509	48330553	1	q13.33
ENSG00000214975	1.5623	2.9532	1.10E-09	6.05E-09	PPIAP29	peptidylprc processed_	6	24976419	24976982	1	p22.3
ENSG00000198832	1.5611	2.9508	2.69E-11	1.70E-10	SELM	selenoprot protein_co	22	31104772	31120069	-1	q12.2
ENSG00000224971	1.5598	2.9482	2.34E-16	2.25E-15	SUMO2P3	SUMO2 ps processed_	7	55732144	55732431	1	p11.2
ENSG00000136167	1.5597	2.9479	0.0005	0.0015	LCP1	lymphocyte protein_co	13	46125920	46211871	-1	q14.13
ENSG00000126861	1.5588	2.9461	0.0015	0.0042	OMG	oligodendr protein_co	17	31272013	31297539	-1	q11.2
ENSG00000249916	1.5588	2.946	0.0061	0.0152	CTD-2280E9.1	antisense	5	1.22E+08	1.22E+08	-1	q23.2
ENSG00000125037	1.5585	2.9454	3.41E-42	4.01E-40	EMC3	ER membra protein_co	3	9962537	10011116	-1	p25.3
ENSG00000141378	1.5581	2.9447	1.01E-37	7.35E-36	PTRH2	peptidyl-tR protein_co	17	59674636	59707626	-1	q23.1
ENSG00000138821	1.556	2.9404	1.27E-07	5.76E-07	SLC39A8	solute carri protein_co	4	1.02E+08	1.02E+08	-1	q24
ENSG00000105852	1.5555	2.9394	6.28E-16	5.80E-15	PON3	paraoxona: protein_co	7	95359944	95396368	-1	q21.3
ENSG00000198183	1.5545	2.9373	0.0012	0.0032	BPIFA1	BPI fold cor protein_co	20	33235995	33243311	1	q11.21
ENSG00000163319	1.5529	2.934	3.41E-25	7.01E-24	MRPS18C	mitochondi protein_co	4	83455932	83469735	1	q21.23
ENSG00000116898	1.5524	2.933	1.05E-60	1.19E-57	MRPS15	mitochondi protein_co	1	36455718	36464437	-1	p34.3
ENSG00000165591	1.5522	2.9327	9.48E-23	1.55E-21	FAAH2	fatty acid a protein_co X		57286706	57489196	1	p11.21
ENSG00000219023	1.5507	2.9296	0.0004	0.0013	RP3-340B19.2	processed_	6	35555873	35556264	1	p21.31
ENSG00000231006	1.5504	2.929	0.0014	0.0038	RPL7P32	ribosomal r processed_	7	1.09E+08	1.09E+08	1	q31.1
ENSG00000262920	1.5504	2.929	0.0069	0.0167	RP11-1260E13.1	antisense	17	321392	322453	1	p13.3
ENSG00000116157	1.5488	2.9258	1.01E-11	6.59E-11	GPX7	glutathione protein_co	1	52602372	52609051	1	p32.3
ENSG00000274015	1.5487	2.9256	7.50E-05	0.0003	CTD-2302E22.6	lincRNA	14	63642143	63642696	1	q23.2
ENSG00000272666	1.5487	2.9254	2.95E-06	1.16E-05	CTA-384D8.35	lincRNA	22	50542305	50542906	-1	q13.33
ENSG00000114013	1.5472	2.9226	2.68E-09	1.42E-08	CD86	CD86 mole protein_co	3	1.22E+08	1.22E+08	1	q13.33
ENSG00000070501	1.5471	2.9223	6.00E-28	1.57E-26	POLB	polymerase protein_co	8	42338454	42371808	1	p11.21
ENSG00000228221	1.5467	2.9215	0.0015	0.0041	LINC00578	long interg lincRNA	3	1.77E+08	1.78E+08	1	q26.32
ENSG00000165502	1.5466	2.9213	4.73E-48	1.02E-45	RPL36AL	ribosomal r protein_co	14	49618519	49620685	-1	q21.3
ENSG00000120833	1.5457	2.9194	1.59E-24	3.04E-23	SOCS2	suppressor protein_co	12	93569814	93583487	1	q22



ENSG00000243199	1.5456	2.9193	4.05E-19	4.87E-18	RP11-408P14.1	processed_	4	65573459	65574328	1	q13.2
ENSG00000184990	1.5453	2.9186	1.38E-20	1.88E-19	SIVA1	SIVA1, apo protein_co	14	1.05E+08	1.05E+08	1	q32.33
ENSG00000126432	1.545	2.9181	1.42E-14	1.18E-13	PRDX5	peroxiredo protein_co	11	64318088	64321811	1	q13.1
ENSG00000112312	1.545	2.918	8.17E-10	4.52E-09	GMNN	geminin, D protein_co	6	24774931	24786099	1	p22.3
ENSG00000168273	1.5442	2.9164	1.16E-20	1.58E-19	SMIM4	small integ protein_co	3	52534013	52579237	1	p21.1
ENSG00000183444	1.5442	2.9164	1.16E-07	5.28E-07	OR7E38P	olfactory re unprocesse	7	97966090	97967074	-1	q21.3
ENSG00000005059	1.5441	2.9162	9.11E-16	8.25E-15	CCDC109B	coiled-coil  protein_co	4	1.1E+08	1.1E+08	1	q25
ENSG00000185608	1.5435	2.9151	5.15E-17	5.21E-16	MRPL40	mitochond protein_co	22	19431902	19436075	1	q11.21
ENSG00000231793	1.5435	2.915	0.0081	0.0195	DOC2GP	double C2- unitary_pse	11	67612653	67616257	-1	q13.2
ENSG00000214485	1.5433	2.9145	5.12E-10	2.88E-09	RPL7P1	ribosomal  processed_	5	1.5E+08	1.5E+08	1	q32
ENSG00000171984	1.5431	2.9141	8.85E-18	9.50E-17	C20orf196	chromoson protein_co	20	5750393	5863912	1	p12.3
ENSG00000136522	1.5428	2.9136	3.73E-33	1.59E-31	MRPL47	mitochond protein_co	3	1.8E+08	1.8E+08	-1	q26.33
ENSG00000181458	1.5422	2.9123	1.22E-06	5.01E-06	TMEM45A	transmemt protein_co	3	1E+08	1.01E+08	1	q12.2
ENSG00000230076	1.542	2.9121	0.0059	0.0146	AC016708.2	processed_	2	2.15E+08	2.15E+08	1	q35
ENSG00000106560	1.5419	2.9118	7.02E-05	0.0002	GIMAP2	GTPase, IM protein_co	7	1.51E+08	1.51E+08	1	q36.1
ENSG00000205105	1.541	2.91	0.002	0.0053	COX17P1	COX17 cytc processed_	13	46490930	46491121	1	q14.13
ENSG00000187527	1.5402	2.9083	0.001	0.0027	ATP13A5	ATPase typ protein_co	3	1.93E+08	1.93E+08	-1	q29
ENSG00000255202	1.5401	2.9082	0.0011	0.0031	RP4-541C22.5	antisense	11	33665220	33696701	-1	p13
ENSG00000226145	1.5395	2.907	0.0062	0.0152	KRT16P6	keratin 16  transcribed	17	16817983	16822579	-1	p11.2
ENSG00000100387	1.5391	2.9062	2.16E-45	3.43E-43	RBX1	ring-box 1,  protein_co	22	40951347	40973309	1	q13.2
ENSG00000186468	1.5377	2.9034	5.06E-15	4.32E-14	RPS23	ribosomal  protein_co	5	82273358	82278577	-1	q14.2
ENSG00000182853	1.5364	2.9008	2.23E-08	1.08E-07	VMO1	vitelline m protein_co	17	4785285	4786433	-1	p13.2
ENSG00000164919	1.5357	2.8994	1.81E-20	2.44E-19	COX6C	cytochrom protein_co	8	99873200	99894062	-1	q22.2
ENSG00000213757	1.5357	2.8993	5.80E-05	0.0002	CTC-451P13.1	processed_	5	79284132	79284918	-1	q14.1
ENSG00000242574	1.5331	2.894	1.11E-16	1.09E-15	HLA-DMB	major histo protein_co	6	32934629	32941070	-1	p21.32
ENSG00000137038	1.5315	2.8909	1.12E-23	1.99E-22	TMEM261	transmemt protein_co	9	7796490	7888380	-1	p24.1
ENSG00000167283	1.5315	2.8908	2.46E-28	6.75E-27	ATP5L	ATP syntha protein_co	11	1.18E+08	1.18E+08	1	q23.3
ENSG00000215030	1.5303	2.8885	2.16E-12	1.49E-11	RPL13P12	ribosomal  processed_	17	17383377	17384012	-1	p11.2
ENSG00000226102	1.5285	2.8849	0.0019	0.0051	SEPT7P3	septin 7  unprocesse	7	35946294	35972587	1	p14.2
ENSG00000188257	1.528	2.8838	0.0065	0.016	PLA2G2A	phospholip protein_co	1	19975431	19980416	-1	p36.13
ENSG00000134548	1.5278	2.8835	0.002	0.0053	SPX	spexin horr protein_co	12	21526307	21537377	1	p12.1
ENSG00000113312	1.5277	2.8833	2.60E-80	2.80E-76	TTC1	tetratricop protein_co	5	1.6E+08	1.6E+08	1	q33.3
ENSG00000242485	1.5277	2.8833	9.15E-37	5.86E-35	MRPL20	mitochond protein_co	1	1401908	1407313	-1	p36.33
ENSG00000241837	1.5275	2.8829	1.37E-17	1.45E-16	ATP5O	ATP syntha protein_co	21	33903453	33915980	-1	q22.11
ENSG00000062582	1.5274	2.8827	6.74E-06	2.55E-05	MRPS24	mitochond protein_co	7	43866558	43869893	-1	p13
ENSG00000100162	1.5272	2.8822	0.0009	0.0025	CENPM	centromer protein_co	22	41938721	41947164	-1	q13.2
ENSG00000147123	1.5268	2.8815	6.38E-30	2.01E-28	NDUFB11	NADH dehy protein_co X		47142216	47145504	-1	p11.3
ENSG00000202111	1.5267	2.8812	0.0004	0.0012	VTRNA1-2	vault RNA  misc_RNA	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000261183	1.5254	2.8787	5.29E-33	2.22E-31	RP11-532F12.5	antisense	15	40835808	40844387	-1	q15.1
ENSG00000234268	1.5254	2.8787	0.0065	0.016	AP000936.1	processed_	11	1.17E+08	1.17E+08	-1	q23.3
ENSG00000021355	1.5251	2.8781	1.77E-16	1.72E-15	SERPINB1	serpin pept protein_co	6	2832332	2842006	-1	p25.2

ENSG00000177294	1.525	2.8778	0.0004	0.0011 FBXO39	F-box prote protein_co	17	6776223	6797101	1	p13.1
ENSG00000130066	1.5245	2.8768	6.14E-34	2.88E-32 SAT1	spermidine protein_co X		23783158	23786226	1	p22.11
ENSG00000109083	1.5244	2.8767	2.25E-18	2.53E-17 IFT20	intraflagell; protein_co	17	28328325	28335489	-1	q11.2
ENSG00000171840	1.5244	2.8766	0.0003	0.0009 NINJ2	ninjurin 2 [: protein_co	12	564296	663779	-1	p13.33
ENSG00000254719	1.5244	2.8766	0.0004	0.0012 RP11-351I24.3	processed_	11	10272052	10272259	-1	p15.4
ENSG00000168701	1.5237	2.8752	7.62E-51	2.45E-48 TMEM208	transmemt protein_co	16	67227103	67229278	1	q22.1
ENSG00000226272	1.5233	2.8744	0.0087	0.0208 ARHGAP26-AS1	ARHGAP26 antisense	5	1.43E+08	1.43E+08	-1	q31.3
ENSG00000164764	1.5227	2.8733	0.0044	0.0112 SBSPON	somatome protein_co	8	73064540	73124088	-1	q21.11
ENSG00000244363	1.5225	2.8729	4.52E-05	0.0002 RPL7P23	ribosomal ; processed_	5	77582376	77583122	1	q13.3
ENSG00000095380	1.5219	2.8718	8.70E-45	1.30E-42 NANS	N-acetylne protein_co	9	98056739	98083075	1	q22.33
ENSG00000267737	1.5216	2.8712	0.0036	0.0094 AC061992.2	lincRNA	17	78315729	78347798	1	q25.3
ENSG00000243422	1.5214	2.8707	2.12E-06	8.52E-06 RP11-413E6.1	processed_	3	75624686	75625153	-1	p12.3
ENSG00000229344	1.5214	2.8707	0.0006	0.0018 RP5-857K21.7	unprocesse	1	632757	633438	1	p36.33
ENSG00000109272	1.521	2.87	3.16E-06	1.24E-05 PF4V1	platelet fac protein_co	4	73853189	73854155	1	q13.3
ENSG00000234327	1.5189	2.8657	2.75E-07	1.20E-06 AC012146.7	processed_	17	5111468	5115004	1	p13.2
ENSG00000253161	1.5188	2.8655	5.21E-05	0.0002 RP11-150O12.1	lincRNA	8	37421341	37554183	-1	p11.23
ENSG00000084110	1.5186	2.8652	0.0008	0.0024 HAL	histidine ar protein_co	12	95972662	95996365	-1	q23.1
ENSG00000184076	1.5185	2.8649	1.18E-29	3.64E-28 UQCR10	ubiquinol-c protein_co	22	29767369	29770413	1	q12.2
ENSG00000179799	1.518	2.8639	0.0001	0.0003 OR7E22P	olfactory re unprocesse	3	75356516	75357503	-1	p12.3
ENSG00000136888	1.5178	2.8635	3.14E-52	1.21E-49 ATP6V1G1	ATPase, H+ protein_co	9	1.15E+08	1.15E+08	1	q32
ENSG00000166710	1.5173	2.8626	1.78E-20	2.40E-19 B2M	beta-2-mic protein_co	15	44711477	44718877	1	q21.1
ENSG00000143222	1.5173	2.8626	4.59E-08	2.17E-07 UFC1	ubiquitin-fc protein_co	1	1.61E+08	1.61E+08	1	q23.3
ENSG00000124733	1.5171	2.8621	3.34E-37	2.28E-35 MEA1	male-enhai protein_co	6	43012094	43013968	-1	p21.1
ENSG00000137558	1.517	2.8619	0.0032	0.0082 PI15	peptidase i protein_co	8	74824537	74855029	1	q21.13
ENSG00000124370	1.5167	2.8614	2.89E-13	2.14E-12 MCEE	methylmal protein_co	2	71109684	71130239	-1	p13.3
ENSG00000108826	1.5154	2.8588	9.28E-51	2.89E-48 MRPL27	mitochondi protein_co	17	50367857	50373214	-1	q21.33
ENSG00000142168	1.5153	2.8586	4.12E-21	5.89E-20 SOD1	superoxide protein_co	21	31659622	31668931	1	q22.11
ENSG00000241741	1.5141	2.8561	0.0003	0.0009 RPL7AP30	ribosomal ; processed_	4	1.13E+08	1.13E+08	-1	q25
ENSG00000173467	1.514	2.856	0.0011	0.0031 AGR3	anterior gr; protein_co	7	16859405	16881987	-1	p21.1
ENSG00000138175	1.5131	2.8542	7.44E-11	4.52E-10 ARL3	ADP-ribosy protein_co	10	1.03E+08	1.03E+08	-1	q24.32
ENSG00000227496	1.5129	2.8538	0.0001	0.0004 RP11-145A3.1	antisense	1	2.26E+08	2.26E+08	1	q42.12
ENSG00000113068	1.5129	2.8537	2.86E-44	4.08E-42 PFDN1	prefoldin si protein_co	5	1.4E+08	1.4E+08	-1	q31.3
ENSG00000110700	1.5125	2.853	8.53E-16	7.78E-15 RPS13	ribosomal ; protein_co	11	17074389	17077787	-1	p15.1
ENSG00000235449	1.5125	2.853	0.0002	0.0005 RP11-480I12.2	processed_	1	2.03E+08	2.03E+08	-1	q32.1
ENSG00000122033	1.512	2.8521	4.81E-33	2.02E-31 MTIF3	mitochondi protein_co	13	27435643	27450591	-1	q12.2
ENSG00000243181	1.512	2.852	0.0094	0.0224 RP11-734J24.1	processed_	8	34874159	34874633	1	p12
ENSG00000073737	1.5116	2.8513	1.46E-26	3.43E-25 DHRS9	dehydrogei protein_co	2	1.69E+08	1.69E+08	1	q31.1
ENSG00000250993	1.5106	2.8493	0.0014	0.004 RP11-404J23.1	lincRNA	4	1.79E+08	1.79E+08	-1	q34.3
ENSG00000113811	1.5104	2.849	7.17E-31	2.45E-29 SELK	selenoprot protein_co	3	53884410	53891988	-1	p21.1
ENSG00000120306	1.51	2.8481	4.46E-13	3.26E-12 CYSTM1	cysteine-ric protein_co	5	1.4E+08	1.4E+08	1	q31.3
ENSG00000146416	1.5097	2.8476	1.30E-42	1.57E-40 AIG1	androgen-i protein_co	6	1.43E+08	1.43E+08	1	q24.2

ENSG00000171631	1.5098	2.8476	1.14E-06	4.70E-06 P2RY6	pyrimidine protein_co	11	73264505	73298617	1	q13.4
ENSG00000249599	1.5088	2.8457	0.0003	0.0009 BMPR1B-AS1	BMPR1B ar lincRNA	4	94743800	94757533	-1	q22.3
ENSG00000161920	1.5084	2.845	2.06E-17	2.15E-16 MED11	mediator c protein_co	17	4731428	4733610	1	p13.2
ENSG00000143198	1.5077	2.8435	1.15E-33	5.13E-32 MGST3	microsoma protein_co	1	1.66E+08	1.66E+08	1	q24.1
ENSG00000166171	1.5072	2.8426	6.66E-05	0.0002 DPCD	deleted in p protein_co	10	1.02E+08	1.02E+08	1	q24.32
ENSG00000253408	1.5071	2.8424	0.0015	0.0041 RP11-231D20.2	antisense	8	42233675	42271197	-1	p11.21
ENSG00000188186	1.5067	2.8416	7.98E-26	1.74E-24 LAMTOR4	late endosome protein_co	7	1E+08	1E+08	1	q22.1
ENSG00000250182	1.5067	2.8415	3.64E-09	1.90E-08 EEF1A1P13	eukaryotic processed_	5	14651941	14653329	-1	p15.2
ENSG00000126088	1.5063	2.8409	4.88E-47	9.55E-45 UROD	uroporphyrin protein_co	1	45012147	45015575	1	p34.1
ENSG00000196735	1.5061	2.8404	0.0007	0.002 HLA-DQA1	major histone protein_co	6	32628179	32647062	1	p21.32
ENSG00000247595	1.5051	2.8384	0.0001	0.0004 SPTY2D1-AS1	SPTY2D1 ar processed_	11	18599787	18610255	1	p15.1
ENSG00000177410	1.5035	2.8353	6.00E-32	2.26E-30 ZFAS1	ZNF1 anti: antisense	20	49278178	49295738	1	q13.13
ENSG00000237864	1.5035	2.8352	0.0088	0.0211 LINC00322	long intergenic lincRNA	21	43322417	43332039	-1	q22.3
ENSG00000241343	1.5032	2.8348	1.37E-06	5.58E-06 RPL36A	ribosomal p protein_co X		1.01E+08	1.01E+08	1	q22.1
ENSG00000164162	1.5031	2.8346	1.10E-19	1.38E-18 ANAPC10	anaphase p protein_co	4	1.45E+08	1.45E+08	-1	q31.21
ENSG00000143106	1.5028	2.8338	2.56E-38	2.00E-36 PSMA5	proteasome protein_co	1	1.09E+08	1.09E+08	-1	p13.3
ENSG00000261371	1.5021	2.8326	1.80E-06	7.29E-06 PECAM1	platelet/en protein_co	17	64319415	64413776	-1	q23.3
ENSG00000118640	1.5017	2.8318	7.64E-58	4.98E-55 VAMP8	vesicle-associated protein_co	2	85561562	85582031	1	p11.2
ENSG00000176731	1.5017	2.8318	1.38E-19	1.72E-18 C8orf59	chromosome protein_co	8	85214076	85220421	-1	q21.2
ENSG00000161249	1.5016	2.8316	5.05E-11	3.11E-10 DMKN	dermokine protein_co	19	35497220	35513658	-1	q13.12
ENSG00000180015	1.5002	2.8288	4.73E-07	2.03E-06 RP11-756P10.3	processed_	4	1.89E+08	1.89E+08	1	q35.2
ENSG00000240005	1.5001	2.8287	0.0003	0.0009 RP11-293A21.1	antisense	4	26859806	26860599	-1	p15.2
ENSG00000047457	1.5001	2.8286	1.19E-09	6.48E-09 CP	ceruloplasmin protein_co	3	1.49E+08	1.49E+08	-1	q25.1
ENSG00000170860	1.5	2.8284	2.14E-29	6.45E-28 LSM3	LSM3 homolog protein_co	3	14178358	14201119	1	p25.1
ENSG00000225986	1.4992	2.8269	0.0091	0.0217 UBXN10-AS1	UBXN10 antisense	1	20184242	20186486	-1	p36.12
ENSG00000272288	1.499	2.8265	6.14E-11	3.76E-10 RP11-140K17.3	antisense	6	34696317	34697470	1	p21.31
ENSG00000235453	1.499	2.8264	1.40E-16	1.36E-15 TOPORS-AS1	TOPORS antisense	9	32551144	32567005	1	p21.1
ENSG00000120533	1.4985	2.8254	2.19E-33	9.62E-32 ENY2	enhancer of protein_co	8	1.09E+08	1.09E+08	1	q23.1
ENSG00000244021	1.4985	2.8254	8.10E-06	3.03E-05 RP11-50D9.1	processed_	4	1.28E+08	1.28E+08	-1	q28.1
ENSG00000224318	1.4975	2.8235	0.0014	0.0039 CHL1-AS2	CHL1 antisense processed_	3	195758	197341	-1	p26.3
ENSG00000205426	1.4972	2.8228	0.0005	0.0014 KRT81	keratin 81 protein_co	12	52285913	52291534	-1	q13.13
ENSG00000231233	1.4969	2.8224	0.0063	0.0154 CCDC147-AS1	CCDC147 antisense	10	1.04E+08	1.04E+08	-1	q25.1
ENSG00000130731	1.4965	2.8217	1.51E-29	4.63E-28 C16orf13	chromosome protein_co	16	634427	636366	-1	p13.3
ENSG00000271503	1.4966	2.8217	0.0007	0.002 CCL5	chemokine protein_co	17	35871491	35880793	-1	q12
ENSG00000101473	1.4965	2.8215	1.37E-45	2.21E-43 ACOT8	acyl-CoA thioester protein_co	20	45841721	45857406	-1	q13.12
ENSG00000126549	1.4955	2.8197	0.0028	0.0074 STATH	statherin protein_co	4	69995930	70002570	1	q13.3
ENSG00000163902	1.4955	2.8195	4.61E-46	7.86E-44 RPN1	ribophorin protein_co	3	1.29E+08	1.29E+08	-1	q21.3
ENSG00000272047	1.4932	2.8151	1.77E-21	2.61E-20 GTF2H5	general transcription protein_co	6	1.58E+08	1.58E+08	1	q25.3
ENSG00000169740	1.4931	2.8149	2.40E-26	5.48E-25 ZNF32	zinc finger protein_co	10	43643859	43648856	-1	q11.21
ENSG00000170889	1.4925	2.8137	3.54E-14	2.83E-13 RPS9	ribosomal p protein_co	19	54200742	54249003	1	q13.42
ENSG00000130332	1.4908	2.8105	7.46E-24	1.35E-22 LSM7	LSM7 homolog protein_co	19	2321517	2328620	-1	p13.3



ENSG00000179817	1.4903	2.8096	0.0074	0.018 MRGPRX4	MAS-relate protein_co	11	18172837	18197348	1	p15.1
ENSG00000127922	1.4903	2.8095	2.07E-22	3.29E-21 SHFM1	split hand/l protein_co	7	96481626	96709891	-1	q21.3
ENSG00000106400	1.4897	2.8083	6.65E-41	6.94E-39 ZNHIT1	zinc finger, protein_co	7	1.01E+08	1.01E+08	1	q22.1
ENSG00000198712	1.4896	2.8081	1.06E-28	2.98E-27 MT-CO2	mitochond protein_co MT		7586	8269	1	
ENSG00000157551	1.4891	2.8071	3.50E-10	2.00E-09 KCNJ15	potassium protein_co	21	38157034	38307357	1	q22.13
ENSG00000153923	1.4887	2.8064	6.40E-05	0.0002 CLCA3P	chloride ch transcribed	1	86634273	86655376	1	p22.3
ENSG00000202198	1.4883	2.8055	0.0035	0.009 RN7SK	RNA, 7SK simisc_RNA	6	52995620	52995950	1	p12.2
ENSG00000173660	1.4876	2.8042	2.70E-17	2.78E-16 UQCRH	ubiquinol-c protein_co	1	46303631	46316776	1	p33
ENSG00000108590	1.4876	2.8042	1.96E-12	1.35E-11 MED31	mediator c protein_co	17	6643315	6651634	-1	p13.1
ENSG00000088986	1.4865	2.8021	7.67E-13	5.51E-12 DYNLL1	dynein, light protein_co	12	1.2E+08	1.2E+08	1	q24.31
ENSG00000188243	1.4864	2.8019	6.94E-26	1.52E-24 COMMD6	COMM dor protein_co	13	75525219	75549439	-1	q22.2
ENSG00000158042	1.4856	2.8003	5.26E-30	1.67E-28 MRPL17	mitochond protein_co	11	6680782	6683401	-1	p15.4
ENSG00000185681	1.4849	2.799	0.0029	0.0075 MORN5	MORN rep protein_co	9	1.22E+08	1.22E+08	1	q33.2
ENSG00000139239	1.4846	2.7984	1.95E-05	7.00E-05 RPL14P1	ribosomal p processed_	12	62965325	62965969	1	q14.2
ENSG00000167272	1.4845	2.7982	9.51E-33	3.91E-31 POP5	processing protein_co	12	1.21E+08	1.21E+08	-1	q24.31
ENSG00000000971	1.4836	2.7964	2.30E-17	2.39E-16 CFH	complemer protein_co	1	1.97E+08	1.97E+08	1	q31.3
ENSG00000276790	1.4836	2.7964	0.0074	0.018 RP11-290H9.5	antisense	17	47279526	47280047	-1	q21.32
ENSG00000238278	1.4835	2.7963	0.0104	0.0244 ALG1L6P	asparagine unprocesse	3	75415070	75422143	1	p12.3
ENSG00000127774	1.483	2.7953	5.61E-20	7.28E-19 EMC6	ER membra protein_co	17	3668815	3669668	1	p13.2
ENSG00000167515	1.4828	2.7949	2.58E-42	3.05E-40 TRAPPC2L	trafficking p protein_co	16	88856220	88862686	1	q24.3
ENSG00000229097	1.4825	2.7943	0.0009	0.0027 CALM2P2	calmodulin processed_	10	70163685	70164124	1	q22.1
ENSG00000166347	1.4822	2.7938	2.05E-17	2.14E-16 CYB5A	cytochrom protein_co	18	74250847	74292016	-1	q22.3
ENSG00000087884	1.482	2.7934	4.04E-17	4.11E-16 AAMDC	adipogenes protein_co	11	77821109	77918432	1	q14.1
ENSG00000232573	1.4801	2.7896	1.93E-07	8.59E-07 RPL3P4	ribosomal p processed_	14	98972879	98973301	-1	q32.2
ENSG00000150316	1.4797	2.7888	2.37E-35	1.30E-33 CWC15	CWC15 spli protein_co	11	94962622	94973612	-1	q21
ENSG00000249264	1.4787	2.7869	1.69E-06	6.88E-06 EEF1A1P9	eukaryotic processed_	4	1.05E+08	1.05E+08	1	q24
ENSG00000236751	1.4786	2.7868	0.0006	0.0017 LINC01186	long interg lincRNA X		46325924	46327645	-1	p11.3
ENSG00000105518	1.4783	2.7862	4.71E-19	5.62E-18 TMEM205	transmemt protein_co	19	11342776	11346518	-1	p13.2
ENSG00000115919	1.4779	2.7853	1.60E-17	1.69E-16 KYNU	kynurenina protein_co	2	1.43E+08	1.43E+08	1	q22.2
ENSG00000112299	1.4772	2.784	3.50E-07	1.52E-06 VNN1	vanin 1 [So protein_co	6	1.33E+08	1.33E+08	-1	q23.2
ENSG00000100519	1.4768	2.7832	2.88E-35	1.55E-33 PSMC6	proteasom protein_co	14	52707172	52728587	1	q22.1
ENSG00000227053	1.4767	2.7831	0.0048	0.0122 RP11-395B7.4	antisense	7	1.01E+08	1.01E+08	-1	q22.1
ENSG00000213344	1.4764	2.7826	0.0066	0.0162 PCNPP3	PEST conta processed_	12	65645992	65646462	-1	q14.3
ENSG00000270681	1.4757	2.7812	0.0049	0.0123 RP11-372K14.2	antisense	4	1.51E+08	1.51E+08	1	q31.3
ENSG00000142694	1.4745	2.7788	7.41E-18	8.00E-17 EVA1B	eva-1 hom protein_co	1	36322031	36324154	-1	p34.3
ENSG00000213082	1.4738	2.7775	0.0014	0.0038 PPP1R14BP2	protein phc processed_	2	2.08E+08	2.08E+08	1	q33.3
ENSG00000142937	1.473	2.776	2.08E-12	1.44E-11 RPS8	ribosomal p protein_co	1	44775251	44778779	1	p34.1
ENSG00000172922	1.4716	2.7733	1.20E-22	1.94E-21 RNASEH2C	ribonuclea protein_co	11	65714896	65720947	-1	q13.1
ENSG00000226594	1.4714	2.7728	0.0101	0.0237 RP11-550C4.6	lincRNA	6	47729827	47740741	-1	p12.3
ENSG00000266441	1.4714	2.7728	0.0107	0.0252 RP11-9118.3	antisense	18	6728821	6729862	-1	p11.31
ENSG00000241468	1.4712	2.7726	7.72E-60	7.22E-57 ATP5J2	ATP synth protein_co	7	99448475	99466331	-1	q22.1

ENSG00000223722	1.4708	2.7718	0.009	0.0214	RP11-467L13.5	processed_	12	31754720	31755121	1	p11.21
ENSG00000243147	1.4702	2.7706	3.89E-37	2.64E-35	MRPL33	mitochondr protein_co	2	27771717	27988087	1	p23.2
ENSG00000079459	1.47	2.7703	4.44E-53	1.95E-50	FDFT1	farnesyl-di protein_co	8	11795573	11839309	1	p23.1
ENSG00000137752	1.4692	2.7686	1.78E-48	4.03E-46	CASP1	caspase 1, protein_co	11	1.05E+08	1.05E+08	-1	q22.3
ENSG00000134056	1.4689	2.7681	2.53E-22	3.99E-21	MRPS36	mitochondr protein_co	5	69217760	69230129	1	q13.2
ENSG00000141741	1.4686	2.7676	7.99E-49	1.91E-46	MIEN1	migration a protein_co	17	39728496	39730787	-1	q12
ENSG00000166136	1.4681	2.7667	1.31E-25	2.80E-24	NDUFB8	NADH dehy protein_co	10	1.01E+08	1.01E+08	-1	q24.31
ENSG00000213246	1.468	2.7664	3.07E-30	1.00E-28	SUPT4H1	suppressor protein_co	17	58345175	58353093	-1	q22
ENSG00000141552	1.468	2.7664	1.61E-28	4.48E-27	ANAPC11	anaphase p protein_co	17	81890790	81900991	1	q25.3
ENSG00000160180	1.4674	2.7653	0.0014	0.0037	TFF3	trefoil fact protein_co	21	42311667	42315651	-1	q22.3
ENSG00000188010	1.4671	2.7647	0.0004	0.0012	MORN2	MORN rep protein_co	2	38875962	38929072	1	p22.1
ENSG00000224543	1.4669	2.7643	0.0112	0.0262	SNRPGP15	small nucle processed_	19	14489388	14489609	1	p13.12
ENSG00000085871	1.4668	2.7642	2.58E-15	2.25E-14	MGST2	microsoma protein_co	4	1.4E+08	1.4E+08	1	q31.1
ENSG00000118939	1.4667	2.7639	6.22E-19	7.34E-18	UCHL3	ubiquitin c protein_co	13	75549480	75606020	1	q22.2
ENSG00000117448	1.4664	2.7633	5.86E-23	9.74E-22	AKR1A1	aldo-keto r protein_co	1	45550543	45570049	1	p34.1
ENSG00000149273	1.4662	2.7629	7.01E-16	6.44E-15	RPS3	ribosomal f protein_co	11	75399486	75422280	1	q13.4
ENSG00000121073	1.4653	2.7612	4.84E-57	2.97E-54	SLC35B1	solute carri protein_co	17	49700943	49709014	-1	q21.33
ENSG00000113734	1.4649	2.7604	5.93E-21	8.33E-20	BNIP1	BCL2/aden protein_co	5	1.73E+08	1.73E+08	1	q35.1
ENSG00000173077	1.4633	2.7574	0.0002	0.0008		01-Dec deleted in protein_co	9	1.15E+08	1.15E+08	1	q33.1
ENSG00000260809	1.4631	2.757	0.0015	0.0041	CTD-2144E22.10	unprocesse	16	35090501	35104834	1	p11.2
ENSG00000115514	1.4628	2.7565	6.82E-26	1.50E-24	TXNDC9	thioredoxir protein_co	2	99318982	99340702	-1	q11.2
ENSG00000242147	1.4625	2.7558	5.82E-05	0.0002	RP13-463N16.6	lincRNA	10	5594991	5596118	-1	p15.1
ENSG00000214194	1.4617	2.7543	4.59E-25	9.29E-24	LINC00998	long interg lincRNA	7	1.13E+08	1.13E+08	-1	q31.1
ENSG00000250328	1.4614	2.7537	7.25E-06	2.73E-05	MGC32805	uncharacte antisense	5	1.22E+08	1.22E+08	-1	q23.2
ENSG00000236028	1.4611	2.7531	5.44E-09	2.79E-08	RP11-323C15.2	lincRNA	20	46901143	46901726	-1	q13.12
ENSG00000145194	1.461	2.753	3.48E-14	2.79E-13	ECE2	endothelin protein_co	3	1.84E+08	1.84E+08	1	q27.1
ENSG00000101084	1.4607	2.7525	6.09E-28	1.59E-26	C20orf24	chromoson protein_co	20	36605734	36612557	1	q11.23
ENSG00000057149	1.4596	2.7503	7.78E-05	0.0003	SERPINB3	serpin pept protein_co	18	63637719	63661963	-1	q21.33
ENSG00000167862	1.4593	2.7498	4.05E-19	4.87E-18	ICT1	immature c protein_co	17	75012670	75021261	1	q25.1
ENSG00000164978	1.4592	2.7495	3.90E-27	9.57E-26	NUDT2	nudix (nucl protein_co	9	34329506	34343713	1	p13.3
ENSG00000231437	1.4591	2.7493	0.0065	0.016	RP11-88H9.2	lincRNA	1	1.12E+08	1.12E+08	1	p13.2
ENSG00000235065	1.459	2.7492	0.0016	0.0045	RPL24P2	ribosomal f processed_	20	21114723	21115197	1	p11.23
ENSG00000174444	1.4588	2.7488	1.24E-15	1.11E-14	RPL4	ribosomal f protein_co	15	66498015	66524532	-1	q22.31
ENSG00000100219	1.4585	2.7482	4.58E-13	3.35E-12	XBP1	X-box bindi protein_co	22	28794555	28800597	-1	q12.1
ENSG00000196531	1.4578	2.7469	2.49E-18	2.79E-17	NACA	nascent po protein_co	12	56712428	56731628	-1	q13.3
ENSG00000181610	1.4576	2.7465	6.27E-39	5.23E-37	MRPS23	mitochondr protein_co	17	57834781	57850056	-1	q22
ENSG00000159377	1.4573	2.7459	3.42E-56	1.93E-53	PSMB4	proteasom protein_co	1	1.51E+08	1.51E+08	1	q21.3
ENSG00000274423	1.4571	2.7456	0.0025	0.0065	SEC22B	SEC22 vesic unprocesse	1	1.49E+08	1.49E+08	1	q21.2
ENSG00000253414	1.4569	2.7451	0.0053	0.0132	RP11-150O12.6	sense_intrc	8	37516410	37517021	-1	p11.23
ENSG00000248712	1.4563	2.744	0.0017	0.0046	CCDC153	coiled-coil protein_co	11	1.19E+08	1.19E+08	-1	q23.3
ENSG00000243829	1.455	2.7416	2.77E-11	1.74E-10	CTB-33G10.1	processed_	19	49719498	49720081	-1	q13.33

ENSG00000147804	1.4546	2.7409	1.48E-15	1.31E-14	SLC39A4	solute carrier protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000102445	1.4543	2.7402	0.0059	0.0146	KIAA0226L	KIAA0226-l protein_co	13	46342000	46438190	-1	q14.13
ENSG00000134202	1.4524	2.7366	4.17E-06	1.62E-05	GSTM3	glutathione protein_co	1	1.1E+08	1.1E+08	-1	p13.3
ENSG00000104522	1.4523	2.7365	3.20E-36	1.90E-34	TSTA3	tissue specific protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000237039	1.4512	2.7344	1.10E-15	9.89E-15	AC018738.2	processed_	2	2.31E+08	2.31E+08	1	q37.1
ENSG00000136872	1.451	2.734	0.0037	0.0095	ALDOB	aldolase B, protein_co	9	1.01E+08	1.01E+08	-1	q31.1
ENSG00000267416	1.451	2.734	0.0039	0.01	CTD-2319I12.2	lincRNA	17	60079309	60088695	1	q23.1
ENSG00000126698	1.4499	2.7319	4.14E-41	4.54E-39	DNAJC8	DnaJ (Hsp4) protein_co	1	28199456	28233025	-1	p35.3
ENSG00000236801	1.4496	2.7314	0.0085	0.0203	RPL24P8	ribosomal protein_co	9	70217195	70217668	1	q21.12
ENSG00000257542	1.4494	2.731	0.0045	0.0114	OR7E47P	olfactory receptor protein_co	12	52079696	52108261	1	q13.13
ENSG00000007952	1.4485	2.7292	0.0006	0.0019	NOX1	NADPH oxidase protein_co	1	1.01E+08	1.01E+08	-1	q22.1
ENSG00000132963	1.4482	2.7287	5.74E-39	4.82E-37	POMP	proteasome protein_co	13	28659104	28678925	1	q12.3
ENSG00000171960	1.448	2.7284	3.43E-21	4.96E-20	PIIH	peptidylprolyl isomerase protein_co	1	42658425	42676758	1	p34.2
ENSG00000233954	1.4476	2.7275	0.0001	0.0003	UQCRHL	ubiquinol-cytochrome c protein_co	1	15807169	15809348	-1	p36.21
ENSG00000228247	1.4473	2.7269	0.0068	0.0167	UBBP2	ubiquitin B processed_	1	2.18E+08	2.18E+08	-1	q41
ENSG00000157045	1.4469	2.7262	1.41E-26	3.32E-25	NTAN1	N-terminal protein_co	16	15037853	15056079	-1	p13.11
ENSG00000224546	1.4469	2.7262	0.0007	0.0019	EIF4BP3	eukaryotic translation initiation factor 4B protein_co	9	96146007	96147856	1	q22.32
ENSG00000105185	1.4468	2.7259	7.73E-31	2.64E-29	PDCD5	program cell death protein 5 protein_co	19	32581068	32587452	1	q13.11
ENSG00000169627	1.4465	2.7255	2.69E-07	1.18E-06	BOLA2B	bolA family protein_co	16	30192934	30194306	-1	p11.2
ENSG00000117472	1.4459	2.7243	7.09E-08	3.29E-07	TSPAN1	tetraspanin protein_co	1	46175073	46185958	1	p34.1
ENSG00000143933	1.4447	2.722	5.20E-25	1.05E-23	CALM2	calmodulin protein_co	2	47160082	47176601	-1	p21
ENSG00000183298	1.4443	2.7212	3.94E-05	0.0001	RP11-556K13.1	processed_	1	1.02E+08	1.02E+08	-1	p21.2
ENSG00000083457	1.444	2.7207	8.09E-28	2.09E-26	ITGAE	integrin, alpha protein_co	17	3714628	3801243	-1	p13.2
ENSG00000277075	1.4424	2.7178	0.0001	0.0004	HIST1H2AE	histone cluster 1 protein_co	6	26216975	26217367	1	p22.2
ENSG00000162078	1.4422	2.7174	3.30E-15	2.86E-14	ZG16B	zymogen granule protein_co	16	2830169	2839585	1	p13.3
ENSG00000259420	1.4408	2.7147	2.32E-05	8.24E-05	RP11-307C19.2	lincRNA	15	77568970	77608888	1	q24.3
ENSG00000223829	1.4402	2.7136	3.10E-08	1.49E-07	AC004870.4	processed_	7	46969702	47027481	1	p12.3
ENSG00000273061	1.4401	2.7133	0.0001	0.0003	CDC37L1-AS1	CDC37L1 antisense lincRNA	9	4676600	4679502	-1	p24.1
ENSG00000244582	1.4396	2.7124	0.0129	0.0298	RPL21P120	ribosomal protein_co	17	21504558	21505059	1	p11.2
ENSG00000094963	1.4392	2.7118	5.51E-07	2.35E-06	FMO2	flavin monooxygenase protein_co	1	1.71E+08	1.71E+08	1	q24.3
ENSG00000231549	1.4386	2.7105	0.0001	0.0005	USMG5P1	USMG5 processed_	1	74173890	74174066	1	q13.2
ENSG00000224550	1.4384	2.7102	0.0133	0.0307	RP11-270C12.3	processed_	1	1.08E+08	1.08E+08	1	p13.3
ENSG00000162517	1.4361	2.706	2.39E-43	3.12E-41	PEF1	penta-EF-hemolysin protein_co	1	31629862	31644896	-1	p35.2
ENSG00000090661	1.4354	2.7046	5.02E-09	2.59E-08	CERS4	ceramide synthase protein_co	19	8206736	8262421	1	p13.2
ENSG00000122862	1.4349	2.7037	0.0056	0.0139	SRGN	serglycin [S] protein_co	10	69088106	69104811	1	q22.1
ENSG00000178982	1.4338	2.7015	1.94E-16	1.88E-15	EIF3K	eukaryotic translation initiation factor 3K protein_co	19	38619082	38636955	1	q13.2
ENSG00000111237	1.432	2.6982	7.28E-37	4.72E-35	VPS29	vacuolar protein sorting protein_co	12	1.1E+08	1.11E+08	-1	q24.11
ENSG00000248474	1.4316	2.6975	0.0023	0.0061	CTD-2292M14.1	lincRNA	5	74084068	74103216	-1	q13.3
ENSG00000275160	1.4311	2.6966	1.59E-05	5.75E-05	RP11-187C18.3	processed_	9	41479960	41480548	1	p11.2
ENSG00000128040	1.4307	2.6958	0.0125	0.0289	SPINK2	serine peptidase protein_co	4	56809860	56821742	-1	q12
ENSG00000181991	1.4301	2.6946	3.32E-40	3.21E-38	MRPS11	mitochondrial ribosomal protein_co	15	88467453	88480773	1	q25.3

ENSG00000171311	1.43	2.6944	3.39E-26	7.62E-25	EXOSC1	exosome c protein_co	10	97436142	97446017	-1	q24.1
ENSG00000258752	1.4298	2.6942	0.0046	0.0117	RP11-356K23.1	antisense	14	89350285	89364699	1	q32.11
ENSG00000185201	1.4298	2.6941	3.75E-18	4.15E-17	IFITM2	interferon i protein_co	11	307631	315272	1	p15.5
ENSG00000203711	1.4295	2.6936	0.0058	0.0143	C6orf99	chromoson protein_co	6	1.59E+08	1.59E+08	1	q25.3
ENSG00000234692	1.4294	2.6934	0.0077	0.0186	RP11-445L6.3	lincRNA	9	1.15E+08	1.15E+08	-1	q33.1
ENSG00000089356	1.4288	2.6923	1.41E-09	7.65E-09	FXYD3	FXYD doma protein_co	19	35115879	35124324	1	q13.12
ENSG00000185721	1.4283	2.6913	3.18E-27	7.86E-26	DRG1	developme protein_co	22	31399523	31528740	1	q12.2
ENSG00000137462	1.4282	2.6911	8.98E-14	6.94E-13	TLR2	toll-like rec protein_co	4	1.54E+08	1.54E+08	1	q31.3
ENSG00000166797	1.428	2.6907	8.27E-23	1.36E-21	FAM96A	family with protein_co	15	64072559	64094018	-1	q22.31
ENSG00000066379	1.4276	2.6899	6.99E-25	1.39E-23	ZNRD1	zinc ribbon protein_co	6	30058899	30064909	1	p22.1
ENSG00000258733	1.4275	2.6897	0.0015	0.004	CTD-2341M24.1	lincRNA	14	85934710	86129778	1	q31.3
ENSG00000242372	1.4273	2.6895	2.57E-41	2.85E-39	EIF6	eukaryotic protein_co	20	35278907	35284985	-1	q11.22
ENSG00000117507	1.4273	2.6894	9.95E-09	4.99E-08	FMO6P	flavin cont protein_co	1	1.71E+08	1.71E+08	1	q24.3
ENSG00000137880	1.4269	2.6887	2.90E-09	1.53E-08	GCHFR	GTP cycloh protein_co	15	40764020	40767710	1	q15.1
ENSG00000246560	1.4268	2.6884	9.13E-08	4.20E-07	RP11-10L12.4	antisense	4	1.03E+08	1.03E+08	1	q24
ENSG00000182004	1.4262	2.6874	1.21E-24	2.36E-23	SNRPE	small nucle protein_co	1	2.04E+08	2.04E+08	1	q32.1
ENSG00000160182	1.4261	2.6873	0.005	0.0125	TFF1	trefoil fact protein_co	21	42362282	42366594	-1	q22.3
ENSG00000175581	1.4256	2.6862	1.35E-20	1.84E-19	MRPL48	mitochond protein_co	11	73787316	73865133	1	q13.4
ENSG00000091640	1.4255	2.686	1.98E-44	2.88E-42	SPAG7	sperm asso protein_co	17	4959226	4967872	-1	p13.2
ENSG00000184752	1.4254	2.6859	5.19E-34	2.46E-32	NDUFA12	NADH dehy protein_co	12	94897055	95003770	-1	q22
ENSG00000170454	1.4253	2.6856	0.0006	0.0018	KRT75	keratin 75   protein_co	12	52424070	52434525	-1	q13.13
ENSG00000227620	1.4252	2.6855	0.0122	0.0282	ALG1L8P	asparagine unprocesse	11	67785273	67792335	1	q13.2
ENSG00000236152	1.4239	2.6831	0.0104	0.0245	MRPS36P1	mitochond processed_	3	6773037	6773343	-1	p26.1
ENSG00000154079	1.4236	2.6825	1.26E-11	8.14E-11	C6orf57	chromoson protein_co	6	70566917	70589569	1	q13
ENSG00000181061	1.4233	2.682	1.17E-27	3.01E-26	HIGD1A	HIG1 hypo protein_co	3	42757177	42804531	-1	p22.1
ENSG00000169372	1.4225	2.6805	1.66E-21	2.46E-20	CRADD	CASP2 and protein_co	12	93677375	93894840	1	q22
ENSG00000167614	1.4224	2.6803	0.0051	0.0127	TTYH1	tweety fam protein_co	19	54415219	54436900	1	q13.42
ENSG00000201185	1.4223	2.6801	0.0116	0.0269	RNA5SP202	RNA, 5S rib rRNA	6	4427963	4428081	1	p25.1
ENSG00000229647	1.4217	2.679	0.0002	0.0007	AC007879.7	lincRNA	2	2.07E+08	2.07E+08	1	q33.3
ENSG00000116288	1.4214	2.6785	9.69E-34	4.40E-32	PARK7	parkinson f protein_co	1	7954291	7985505	1	p36.23
ENSG00000181577	1.4208	2.6774	0.0055	0.0136	C6orf223	chromoson protein_co	6	44000580	44005958	1	p21.1
ENSG00000225826	1.4207	2.6772	0.0048	0.0122	LINC00626	long interglincRNA	1	1.69E+08	1.69E+08	1	q24.2
ENSG00000110169	1.4205	2.6768	0.0057	0.0142	HPX	hemopexin protein_co	11	6431049	6442617	-1	p15.4
ENSG00000106245	1.4204	2.6765	6.56E-24	1.19E-22	BUD31	BUD31 hon protein_co	7	99408641	99419616	1	q22.1
ENSG00000124731	1.4185	2.673	0.01	0.0236	TREM1	triggering r protein_co	6	41267926	41286719	-1	p21.1
ENSG00000219773	1.418	2.6721	0.0141	0.0323	RP11-506B6.3	processed_	6	1.12E+08	1.12E+08	-1	q21
ENSG00000112303	1.4172	2.6707	1.38E-12	9.69E-12	VNN2	vanin 2 [So protein_co	6	1.33E+08	1.33E+08	-1	q23.2
ENSG00000112304	1.4167	2.6698	2.16E-26	4.96E-25	ACOT13	acyl-CoA th protein_co	6	24667035	24705065	1	p22.3
ENSG00000164304	1.416	2.6684	0.0041	0.0104	CAGE1	cancer anti protein_co	6	7326656	7389743	-1	p24.3
ENSG00000167077	1.4159	2.6683	0.0012	0.0032	MEI1	meiosis inh protein_co	22	41699499	41799456	1	q13.2
ENSG00000196205	1.4156	2.6678	2.56E-17	2.65E-16	EEF1A1P5	eukaryotic processed_	9	1.33E+08	1.33E+08	1	q34.13

ENSG00000205221	1.4156	2.6676	0.0138	0.0316	VIT	vitrin [Sour protein_co	2	36696690	36814792	1	p22.2
ENSG00000198034	1.4152	2.6669	2.28E-12	1.56E-11	RPS4X	ribosomal Ꞥ protein_co X		72255679	72277300	-1	q13.1
ENSG00000078668	1.4143	2.6654	6.74E-12	4.45E-11	VDAC3	voltage-dep protein_co	8	42391624	42405897	1	p11.21
ENSG00000134333	1.4139	2.6645	1.87E-30	6.19E-29	LDHA	lactate deh protein_co	11	18394388	18408425	1	p15.1
ENSG00000101608	1.4136	2.664	1.34E-28	3.74E-27	MYL12A	myosin, ligl protein_co	18	3247481	3256236	1	p11.31
ENSG00000166226	1.4126	2.6621	2.32E-39	2.02E-37	CCT2	chaperonin protein_co	12	69585334	69601570	1	q15
ENSG00000106399	1.4122	2.6615	3.20E-08	1.53E-07	RPA3	replication protein_co	7	7636518	7718607	-1	p21.3
ENSG00000230526	1.4118	2.6608	0.0107	0.0251	RP11-472G21.2	lincRNA	10	71878356	71879107	1	q22.1
ENSG00000163453	1.4115	2.6602	4.83E-11	2.98E-10	IGFBP7	insulin-like protein_co	4	57030773	57110385	-1	q12
ENSG00000137210	1.4111	2.6594	3.32E-17	3.39E-16	TMEM14B	transmemt protein_co	6	10747759	10852753	1	p24.2
ENSG00000090104	1.4111	2.6594	0.0111	0.026	RGS1	regulator o protein_co	1	1.93E+08	1.93E+08	1	q31.2
ENSG00000211450	1.4104	2.6581	1.19E-18	1.37E-17	C11orf31	chromoson protein_co	11	57741250	57743554	1	q12.1
ENSG00000103811	1.4104	2.658	2.86E-31	1.02E-29	CTSH	cathepsin F protein_co	15	78921058	78949574	-1	q25.1
ENSG00000258777	1.4101	2.6576	0.0095	0.0225	HIF1A-AS1	HIF1A antis lincRNA	14	61681041	61695823	-1	q23.2
ENSG00000172586	1.4099	2.6571	3.86E-28	1.04E-26	CHCHD1	coiled-coil- protein_co	10	73782047	73783652	1	q22.2
ENSG00000232119	1.4098	2.657	3.83E-34	1.85E-32	MCTS1	malignant Ꞥ protein_co X		1.21E+08	1.21E+08	1	q24
ENSG00000114686	1.4096	2.6567	2.11E-31	7.62E-30	MRPL3	mitochond protein_co	3	1.31E+08	1.32E+08	-1	q22.1
ENSG00000231991	1.4091	2.6557	1.04E-23	1.85E-22	ANXA2P2	annexin A2 processed_	9	33624274	33625293	1	p13.3
ENSG00000205078	1.4059	2.6498	6.22E-08	2.91E-07	SYCE1L	synaptone protein_co	16	77199397	77213215	1	q23.1
ENSG00000170955	1.4054	2.6489	1.59E-15	1.40E-14	PRKCDBP	protein kin protein_co	11	6318946	6320647	-1	p15.4
ENSG00000263563	1.4049	2.648	3.72E-07	1.61E-06	UBBP4	ubiquitin B protein_co	17	22202995	22205156	1	p11.2
ENSG00000251002	1.4044	2.6472	0.0026	0.0068	AE000661.37	processed_	14	22380680	22482959	-1	q11.2
ENSG00000198744	1.4038	2.646	2.06E-08	1.01E-07	RPS-857K21.11	unprocesse	1	634376	634922	1	p36.33
ENSG00000267698	1.4024	2.6435	0.0141	0.0323	AC002116.7	antisense	19	36014508	36045972	1	q13.12
ENSG00000108641	1.4015	2.6418	0.0006	0.0018	B9D1	B9 protein protein_co	17	19337554	19378182	-1	p11.2
ENSG00000160124	1.4008	2.6406	7.46E-18	8.05E-17	CCDC58	coiled-coil (protein_co	3	1.22E+08	1.22E+08	-1	q21.1
ENSG00000217716	1.4006	2.6402	7.35E-05	0.0002	RPS10P3	ribosomal Ꞥ processed_	9	88016300	88016793	1	q22.1
ENSG00000232956	1.4002	2.6393	2.02E-13	1.51E-12	SNHG15	small nucle lincRNA	7	44983023	44986961	-1	p13
ENSG00000108786	1.4	2.6391	1.14E-10	6.82E-10	HSD17B1	hydroxyste protein_co	17	42549214	42555213	1	q21.2
ENSG00000181163	1.3994	2.638	2.67E-21	3.90E-20	NPM1	nucleopho protein_co	5	1.71E+08	1.71E+08	1	q35.1
ENSG00000081138	1.3993	2.6378	0.0104	0.0244	CDH7	cadherin 7, protein_co	18	65750252	65890341	1	q22.1
ENSG00000218175	1.3991	2.6375	1.66E-06	6.75E-06	AC016739.2	processed_	2	1.76E+08	1.76E+08	-1	q31.1
ENSG00000070785	1.3986	2.6365	1.58E-36	9.78E-35	EIF2B3	eukaryotic protein_co	1	44850522	44986722	-1	p34.1
ENSG00000113732	1.3978	2.635	1.82E-29	5.56E-28	ATP6V0E1	ATPase, H+ protein_co	5	1.73E+08	1.73E+08	1	q35.1
ENSG00000139180	1.3972	2.634	7.87E-30	2.45E-28	NDUFA9	NADH deh protein_co	12	4649095	4694317	1	p13.32
ENSG00000152240	1.3968	2.6331	6.73E-20	8.69E-19	HAUS1	HAUS augn protein_co	18	46104332	46128333	1	q21.1
ENSG00000224165	1.396	2.6317	0.0012	0.0034	DNAJC27-AS1	DNAJC27 ai antisense	2	24971390	25039694	1	p23.3
ENSG00000170465	1.3953	2.6304	9.07E-05	0.0003	KRT6C	keratin 6C Ꞥ protein_co	12	52468516	52473785	-1	q13.13
ENSG00000253525	1.3952	2.6303	2.86E-07	1.25E-06	CTD-2114J12.1	processed_	8	91157285	91158748	1	q21.3
ENSG00000150991	1.3946	2.6292	3.90E-35	2.06E-33	UBC	ubiquitin C protein_co	12	1.25E+08	1.25E+08	-1	q24.31
ENSG00000080007	1.3946	2.6291	0.0087	0.0209	DDX43	DEAD (Asp- protein_co	6	73394748	73417569	1	q13



ENSG00000132581	1.3944	2.6288	1.65E-37	1.17E-35	SDF2	stromal cel protein_co	17	28648356	28662189	-1	q11.2
ENSG00000176261	1.3944	2.6288	1.14E-23	2.03E-22	ZBTB80S	zinc finger protein_co	1	32600172	32650903	-1	p35.1
ENSG00000172590	1.3943	2.6287	3.00E-36	1.80E-34	MRPL52	mitochond protein_co	14	22829879	22835037	1	q11.2
ENSG00000273611	1.3931	2.6265	1.93E-30	6.39E-29	ZNHIT3	zinc finger, protein_co	17	36486629	36499310	1	q12
ENSG00000078098	1.3929	2.6261	0.0078	0.0187	FAP	fibroblast a protein_co	2	1.62E+08	1.62E+08	-1	q24.2
ENSG00000137288	1.3927	2.6256	3.68E-18	4.07E-17	UQCC2	ubiquinol-c protein_co	6	33694293	33711727	-1	p21.31
ENSG00000232320	1.3925	2.6254	0.0155	0.035	AC009299.5	processed_	2	1.61E+08	1.61E+08	-1	q24.2
ENSG00000266472	1.3923	2.625	1.32E-25	2.82E-24	MRPS21	mitochond protein_co	1	1.5E+08	1.5E+08	1	q21.2
ENSG00000175110	1.392	2.6245	2.76E-31	9.84E-30	MRPS22	mitochond protein_co	3	1.39E+08	1.39E+08	1	q23
ENSG00000126768	1.3915	2.6236	1.52E-30	5.05E-29	TIMM17B	translocase protein_co X		48893447	48898143	-1	p11.23
ENSG00000240065	1.3907	2.622	1.87E-20	2.51E-19	PSMB9	proteasom protein_co	6	32844136	32859585	1	p21.32
ENSG00000134480	1.3906	2.6218	3.82E-58	2.74E-55	CCNH	cyclin H [Sc protein_co	5	87391494	87413019	-1	q14.3
ENSG00000215845	1.3903	2.6213	1.96E-09	1.05E-08	TSTD1	thiosulfate protein_co	1	1.61E+08	1.61E+08	-1	q23.3
ENSG00000170906	1.3892	2.6194	3.15E-27	7.80E-26	NDUFA3	NADH dehy protein_co	19	54102728	54109257	1	q13.42
ENSG00000128626	1.3892	2.6194	1.83E-24	3.47E-23	MRPS12	mitochond protein_co	19	38930548	38933162	1	q13.2
ENSG00000121766	1.3887	2.6184	2.29E-33	1.00E-31	ZCCHC17	zinc finger, protein_co	1	31296982	31364953	1	p35.2
ENSG00000228512	1.3886	2.6182	0.0156	0.0354	RP11-281A20.2	lincRNA	9	1.18E+08	1.18E+08	1	q33.1
ENSG00000053501	1.3884	2.6179	1.44E-24	2.78E-23	USE1	unconventi protein_co	19	17215346	17219829	1	p13.11
ENSG00000106631	1.3879	2.6169	0.0158	0.0358	MYL7	myosin, ligl protein_co	7	44138864	44141332	-1	p13
ENSG00000279766	1.3875	2.6163	0.0172	0.0387	RP11-642A1.2	TEC	8	1.41E+08	1.41E+08	-1	q24.3
ENSG00000129460	1.3872	2.6157	1.55E-24	2.97E-23	NGDN	neuroguidii protein_co	14	23469688	23509862	1	q11.2
ENSG00000256060	1.387	2.6153	9.61E-17	9.51E-16	TRAPP2B	trafficking protein_co	19	57363511	57365353	1	q13.43
ENSG00000188092	1.3862	2.6139	7.48E-12	4.92E-11	GPR89B	G protein-c protein_co	1	1.48E+08	1.48E+08	1	q21.2
ENSG00000172965	1.3858	2.6131	5.06E-19	6.03E-18	MIR4435-1HG	MIR4435-1 lincRNA	2	1.11E+08	1.11E+08	-1	q13
ENSG00000266992	1.3848	2.6113	0.0004	0.0013	DHX40P1	DEAH (Asp- unprocesse	17	59976009	60002384	-1	q23.1
ENSG00000146215	1.3846	2.611	0.0175	0.0393	CRIP3	cysteine-ric protein_co	6	43299710	43308797	-1	p21.1
ENSG00000135617	1.3844	2.6106	3.66E-30	1.18E-28	PRADC1	protease-a: protein_co	2	73228006	73233238	-1	p13.2
ENSG00000120860	1.3841	2.6101	6.59E-27	1.59E-25	CCDC53	coiled-coil protein_co	12	1.02E+08	1.02E+08	-1	q23.2
ENSG00000170965	1.384	2.6099	0.0146	0.0332	PLAC1	placenta-s protein_co X		1.35E+08	1.35E+08	-1	q26.3
ENSG00000137440	1.3837	2.6093	1.98E-05	7.08E-05	FGFBP1	fibroblast g protein_co	4	15935569	15938740	-1	p15.32
ENSG00000073146	1.3833	2.6087	0.0091	0.0217	MOV10L1	Mov10 RIS protein_co	22	50089879	50161690	1	q13.33
ENSG00000188404	1.383	2.608	7.93E-05	0.0003	SELL	selectin L [s protein_co	1	1.7E+08	1.7E+08	-1	q24.2
ENSG00000224858	1.3827	2.6076	0.0156	0.0353	RPL29P11	ribosomal processed_	3	37016523	37017014	-1	p22.2
ENSG00000151131	1.3825	2.6072	1.64E-19	2.03E-18	C12orf45	chromoson protein_co	12	1.05E+08	1.05E+08	1	q23.3
ENSG00000240344	1.382	2.6062	5.07E-21	7.17E-20	PPIL3	peptidylprc protein_co	2	2.01E+08	2.01E+08	-1	q33.1
ENSG00000250317	1.3819	2.6061	3.01E-24	5.66E-23	SMIM20	small integri protein_co	4	25861830	25929874	1	p15.2
ENSG00000158089	1.3817	2.6058	0.0002	0.0007	GALNT14	polypeptidi protein_co	2	30910467	31155202	-1	p23.1
ENSG00000257405	1.3811	2.6047	0.0181	0.0404	RP11-609L23.2	processed_	12	42636815	42637111	-1	q12
ENSG00000051523	1.381	2.6045	1.15E-36	7.24E-35	CYBA	cytochrom protein_co	16	88643283	88651152	-1	q24.2
ENSG00000106066	1.3809	2.6043	0.0039	0.0099	CPVL	carboxype protein_co	7	28995231	29195451	-1	p14.3
ENSG00000156831	1.3804	2.6034	4.36E-25	8.85E-24	NSMCE2	non-SMC e protein_co	8	1.25E+08	1.25E+08	1	q24.13

ENSG00000133935	1.3801	2.6029	3.22E-30	1.05E-28	C14orf1	chromosom protein_co	14	75649791	75661189	-1	q24.3
ENSG00000163001	1.3795	2.6018	4.81E-06	1.85E-05	CFAP36	cilia and fla protein_co	2	55519604	55545879	1	p16.1
ENSG00000139168	1.3793	2.6015	1.26E-26	2.97E-25	ZCRB1	zinc finger protein_co	12	42312078	42326118	-1	q12
ENSG00000233461	1.3788	2.6005	1.19E-08	5.94E-08	RP11-295G20.2	antisense	1	2.32E+08	2.32E+08	-1	q42.2
ENSG00000231507	1.3787	2.6003	0.018	0.0403	LINC01353	long interg:lincRNA	1	2.03E+08	2.03E+08	1	q32.1
ENSG00000154719	1.3784	2.5998	7.21E-24	1.31E-22	MRPL39	mitochond protein_co	21	25585656	25607517	-1	q21.3
ENSG00000224445	1.3782	2.5994	0.0128	0.0295	RP11-413P11.1	lincRNA	1	99472415	99534015	-1	p21.2
ENSG00000239900	1.3779	2.5989	2.06E-42	2.47E-40	ADSL	adenylosuc protein_co	22	40346500	40369367	1	q13.1
ENSG00000124939	1.3772	2.5976	0.0057	0.0141	SCGB2A1	secretoglot protein_co	11	62208668	62213939	1	q12.3
ENSG00000259883	1.3771	2.5974	0.0184	0.0411	CTD-2382E5.4	antisense	15	41921417	41928883	1	q15.1
ENSG00000147400	1.3763	2.596	0.0002	0.0006	CETN2	centrin, EF- protein_co X		1.53E+08	1.53E+08	-1	q28
ENSG00000176009	1.376	2.5954	0.0002	0.0006	ASCL3	achaete-sci protein_co	11	8937579	8938211	-1	p15.4
ENSG00000232388	1.3753	2.5943	3.28E-16	3.12E-15	LINC00493	long interg:protein_co	20	18567347	18569563	-1	p11.23
ENSG00000242477	1.3754	2.5943	0.0138	0.0316	CTD-2161E19.1	processed_	5	86884231	86884881	-1	q14.3
ENSG00000267057	1.3751	2.5938	0.018	0.0401	RP11-456O19.2	lincRNA	18	56042135	56096319	1	q21.2
ENSG00000004779	1.3747	2.5932	1.10E-20	1.52E-19	NDUFAB1	NADH dehy protein_co	16	23581002	23596356	-1	p12.2
ENSG00000121797	1.3745	2.5928	7.50E-05	0.0003	CCRL2	chemokine protein_co	3	46407163	46412997	1	p21.31
ENSG00000167136	1.3745	2.5927	3.98E-06	1.55E-05	ENDOG	endonucle: protein_co	9	1.29E+08	1.29E+08	1	q34.11
ENSG00000101842	1.3741	2.592	0.0008	0.0022	VSIG1	V-set and ir protein_co X		1.08E+08	1.08E+08	1	q22.3
ENSG00000103876	1.3734	2.5908	1.53E-32	6.10E-31	FAH	fumarylce protein_co	15	80152490	80186946	1	q25.1
ENSG00000243554	1.3731	2.5903	6.53E-07	2.77E-06	AC004967.7	unprocesse	7	97969005	97972254	-1	q21.3
ENSG00000100764	1.373	2.5902	3.18E-33	1.37E-31	PSMC1	proteasom protein_co	14	90256495	90275429	1	q32.11
ENSG00000247134	1.3729	2.59	5.37E-24	9.89E-23	RP11-11N9.4	lincRNA	8	32996178	33044855	1	p12
ENSG00000010270	1.3723	2.5887	4.33E-24	8.02E-23	STARD3NL	STARD3 N- protein_co	7	38178222	38230671	1	p14.1
ENSG00000184378	1.3721	2.5884	1.29E-07	5.87E-07	ACTRT3	actin-relate protein_co	3	1.7E+08	1.7E+08	-1	q26.2
ENSG00000135698	1.372	2.5883	2.69E-27	6.71E-26	MPHOSPH6	M-phase pl protein_co	16	82147798	82170226	-1	q23.3
ENSG00000227877	1.3718	2.588	0.0059	0.0145	LINC00948	long interg:processed_	10	59736995	59753445	-1	q21.2
ENSG00000113924	1.3714	2.5872	8.44E-07	3.54E-06	HGD	homogenti: protein_co	3	1.21E+08	1.21E+08	-1	q13.33
ENSG00000262519	1.3709	2.5863	0.0116	0.027	TXNP4	thioredoxir processed_	17	4572206	4572515	1	p13.2
ENSG00000258279	1.3702	2.5851	0.0112	0.0261	LINC00592	long interg:lincRNA	12	52210930	52223804	1	q13.13
ENSG00000104408	1.3702	2.585	9.32E-16	8.43E-15	EIF3E	eukaryotic protein_co	8	1.08E+08	1.08E+08	-1	q23.1
ENSG00000114021	1.3697	2.5842	1.37E-34	7.01E-33	NIT2	nitrilase far protein_co	3	1E+08	1E+08	1	q12.2
ENSG00000118096	1.3697	2.5841	3.23E-06	1.27E-05	IFT46	intraflagell: protein_co	11	1.19E+08	1.19E+08	-1	q23.3
ENSG00000137168	1.3696	2.584	2.80E-60	2.77E-57	PPIL1	peptidylprc protein_co	6	36854827	36875024	-1	p21.2
ENSG00000153446	1.3695	2.5839	1.49E-06	6.08E-06	C16orf89	chromosom protein_co	16	5044122	5066110	-1	p13.3
ENSG00000134539	1.3689	2.5827	0.0027	0.007	KLRD1	killer cell le protein_co	12	10226058	10329600	1	p13.2
ENSG00000258162	1.3672	2.5797	0.0135	0.031	RP11-315E17.1	antisense	12	81378042	81472954	1	q21.31
ENSG00000178796	1.3666	2.5787	0.0079	0.0191	RHAD1	regulatory: protein_co	1	1.52E+08	1.52E+08	1	q21.3
ENSG00000257261	1.366	2.5775	3.91E-06	1.52E-05	RP11-96H19.1	lincRNA	12	46383679	46876159	1	q13.11
ENSG00000156697	1.3636	2.5732	2.05E-18	2.31E-17	UTP14A	UTP14, U3 protein_co X		1.3E+08	1.3E+08	1	q26.1
ENSG00000180992	1.3631	2.5724	2.38E-33	1.04E-31	MRPL14	mitochond protein_co	6	44113454	44127457	-1	p21.1

ENSG00000161057	1.3627	2.5716	1.20E-48	2.79E-46	PSMC2	proteasom protein_co	7	1.03E+08	1.03E+08	1	q22.1
ENSG00000197646	1.3613	2.5692	0.0002	0.0006	PDCD1LG2	programm protein_co	9	5510570	5571254	1	p24.1
ENSG00000262902	1.361	2.5685	8.64E-05	0.0003	RP11-750B16.1	processed_	17	53105734	53106358	1	q22
ENSG00000244380	1.3605	2.5677	0.0026	0.0068	RP11-24C3.2	antisense	3	48440352	48446656	-1	p21.31
ENSG00000224843	1.3604	2.5676	0.0022	0.0059	LINC00240	long interg lincRNA	6	26956992	27023924	1	p22.2
ENSG00000203724	1.36	2.5668	2.95E-12	2.01E-11	C1orf53	chromoson protein_co	1	1.98E+08	1.98E+08	1	q31.3
ENSG00000159063	1.3591	2.5653	9.37E-22	1.42E-20	ALG8	ALG8, alph protein_co	11	78100936	78139660	-1	q14.1
ENSG00000084072	1.3585	2.5642	1.57E-31	5.74E-30	PPIE	peptidylprc protein_co	1	39692182	39763914	1	p34.2
ENSG00000179085	1.3583	2.5639	4.21E-17	4.28E-16	DPM3	dolichyl-ph protein_co	1	1.55E+08	1.55E+08	-1	q22
ENSG00000233785	1.3581	2.5636	0.009	0.0214	RP13-314C10.5	antisense X		23772992	23782956	-1	p22.11
ENSG00000133321	1.3581	2.5635	2.97E-20	3.93E-19	RARRES3	retinoic aci protein_co	11	63536809	63546462	1	q12.3
ENSG00000175121	1.3581	2.5635	0.0064	0.0158	WFDC5	WAP four-c protein_co	20	45109452	45115172	-1	q13.12
ENSG00000117862	1.3566	2.5609	7.67E-28	1.98E-26	TXNDC12	thioredoxir protein_co	1	52020131	52056171	-1	p32.3
ENSG00000065427	1.3562	2.5602	8.74E-34	4.02E-32	KARS	lysyl-tRNA : protein_co	16	75627474	75648643	-1	q23.1
ENSG00000156508	1.3557	2.5592	4.37E-16	4.10E-15	EEF1A1	eukaryotic protein_co	6	73515750	73523797	-1	q13
ENSG00000143612	1.3555	2.5588	1.46E-38	1.18E-36	C1orf43	chromoson protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000170315	1.3553	2.5586	3.83E-21	5.49E-20	UBB	ubiquitin B protein_co	17	16380798	16382745	1	p11.2
ENSG00000108298	1.3551	2.5582	4.72E-21	6.68E-20	RPL19	ribosomal protein_co	17	39200283	39204727	1	q12
ENSG00000168685	1.3549	2.5579	0.0016	0.0043	IL7R	interleukin protein_co	5	35852695	35879603	1	p13.2
ENSG00000137947	1.3544	2.5569	7.77E-32	2.90E-30	GTF2B	general tra protein_co	1	88852932	88891944	-1	p22.2
ENSG00000197620	1.3541	2.5564	6.67E-29	1.92E-27	CXorf40A	chromoson protein_co X		1.5E+08	1.5E+08	1	q28
ENSG00000277748	1.3538	2.5559	0.0086	0.0205	AC006262.11	unprocesse	19	46249394	46250163	-1	q13.32
ENSG00000185306	1.3537	2.5557	0.0087	0.0208	C12orf56	chromoson protein_co	12	64264762	64391192	-1	q14.2
ENSG00000268001	1.3534	2.5552	7.41E-07	3.12E-06	CTC-241F20.3	antisense	19	48255675	48258199	1	q13.33
ENSG00000231123	1.3534	2.5551	0.0184	0.041	SPATA20P1	spermatog processed_	21	38238227	38238664	-1	q22.13
ENSG00000159199	1.3533	2.5549	2.67E-23	4.59E-22	ATP5G1	ATP syntha protein_co	17	48892765	48895871	1	q21.32
ENSG00000151093	1.3532	2.5548	5.46E-17	5.51E-16	OXSM	3-oxoacyl-/- protein_co	3	25782917	25794534	1	p24.2
ENSG00000100129	1.3529	2.5542	3.34E-13	2.47E-12	EIF3L	eukaryotic protein_co	22	37848868	37889407	1	q13.1
ENSG00000232537	1.3521	2.5528	0.0185	0.0412	RP11-385M4.1	lincRNA	1	2.09E+08	2.09E+08	-1	q32.2
ENSG00000138663	1.352	2.5527	4.41E-34	2.12E-32	COP54	COP9 signa protein_co	4	83034447	83075818	1	q21.22
ENSG00000204711	1.3518	2.5523	0.0076	0.0183	C9orf135	chromoson protein_co	9	69820793	69906232	1	q21.12
ENSG00000168060	1.3514	2.5515	7.28E-07	3.07E-06	NAALADL1	N-acetylate protein_co	11	65044818	65058549	-1	q13.1
ENSG00000237651	1.351	2.5509	5.10E-06	1.96E-05	C2orf74	chromoson protein_co	2	61145068	61164829	1	p15
ENSG00000217648	1.3509	2.5508	2.50E-09	1.33E-08	RP1-95L4.4	processed_	6	1.43E+08	1.43E+08	1	q24.2
ENSG00000105171	1.3507	2.5504	4.74E-35	2.48E-33	POP4	processing protein_co	19	29604017	29617237	1	q12
ENSG00000168421	1.3504	2.5499	0.0016	0.0044	RHOH	ras homolo protein_co	4	40191053	40246967	1	p14
ENSG00000124688	1.3502	2.5495	3.50E-22	5.44E-21	MAD2L1BP	MAD2L1 bi protein_co	6	43629540	43640952	1	p21.1
ENSG00000138772	1.35	2.5492	6.24E-12	4.13E-11	ANXA3	annexin A3 protein_co	4	78551519	78610451	1	q21.21
ENSG00000115944	1.3498	2.5488	1.69E-30	5.59E-29	COX7A2L	cytochrom protein_co	2	42333546	42425088	-1	p21
ENSG00000147586	1.3497	2.5487	1.13E-15	1.01E-14	MRPS28	mitochondi protein_co	8	79918717	80030289	-1	q21.13
ENSG00000140365	1.3478	2.5453	1.92E-22	3.08E-21	COMMD4	COMM dor protein_co	15	75335891	75343224	1	q24.2



ENSG00000227097	1.3472	2.5442	0.0002	0.0006	RPS28P7	ribosomal r processed_	11	82689559	82689768	1	q14.1
ENSG00000074800	1.347	2.5438	3.08E-70	8.29E-67	ENO1	enolase 1, (protein_co	1	8861002	8879249	-1	p36.23
ENSG00000137547	1.3468	2.5434	1.13E-23	2.01E-22	MRPL15	mitochondr protein_co	8	54135210	54147901	1	q11.23
ENSG00000079257	1.3461	2.5423	1.07E-15	9.61E-15	LXN	latexin (sol protein_co	3	1.59E+08	1.59E+08	-1	q25.32
ENSG00000130748	1.3453	2.5408	7.04E-19	8.27E-18	TMEM160	transmembr protein_co	19	47045907	47048630	-1	q13.32
ENSG00000172339	1.3449	2.5401	5.32E-26	1.18E-24	ALG14	ALG14, UDI protein_co	1	94974407	95072945	-1	p21.3
ENSG00000165046	1.3448	2.54	2.22E-13	1.66E-12	LETM2	leucine zipper protein_co	8	38386207	38409527	1	p11.23
ENSG00000231901	1.3442	2.539	4.52E-09	2.34E-08	RP11-281A20.1	lincRNA	9	1.18E+08	1.18E+08	-1	q33.1
ENSG00000169554	1.3436	2.5379	0.0052	0.0129	ZEB2	zinc finger protein_co	2	1.44E+08	1.45E+08	-1	q22.3
ENSG00000182327	1.3433	2.5373	1.72E-05	6.22E-05	GLTPD2	glycolipid transfer protein_co	17	4788959	4790390	1	p13.2
ENSG00000136897	1.3431	2.537	2.63E-28	7.18E-27	MRPL50	mitochondr protein_co	9	1.01E+08	1.01E+08	-1	q31.1
ENSG00000188846	1.3422	2.5354	8.86E-19	1.03E-17	RPL14	ribosomal r protein_co	3	40457292	40462370	1	p22.1
ENSG00000135390	1.342	2.535	6.74E-16	6.20E-15	ATP5G2	ATP synthase protein_co	12	53632726	53677408	-1	q13.13
ENSG00000214857	1.3413	2.5339	0.0072	0.0175	SHFM1P1	split hand/l protein_co	5	81892490	81892721	1	q14.1
ENSG00000100554	1.3411	2.5334	2.82E-29	8.39E-28	ATP6V1D	ATPase, H+ protein_co	14	67294371	67360265	-1	q23.3
ENSG00000213904	1.3409	2.5332	8.08E-07	3.40E-06	LIPE-AS1	LIPE antisense	19	42397128	42652355	1	q13.2
ENSG00000142684	1.3407	2.5328	5.96E-22	9.15E-21	ZNF593	zinc finger protein_co	1	26169871	26172060	1	p36.11
ENSG00000232517	1.3398	2.5312	0.0177	0.0397	AC112198.1	unitary_pse	5	54808210	54872551	-1	q11.2
ENSG00000185627	1.3398	2.5311	1.18E-74	5.09E-71	PSMD13	proteasome protein_co	11	236546	252984	1	p15.5
ENSG00000189269	1.3398	2.5311	0.0192	0.0424	DRICH1	aspartate-ase protein_co	22	23608452	23632321	-1	q11.23
ENSG00000100865	1.3386	2.529	3.33E-35	1.79E-33	CINP	cyclin-dependent protein_co	14	1.02E+08	1.02E+08	-1	q32.31
ENSG00000120697	1.3382	2.5283	5.52E-24	1.01E-22	ALG5	ALG5, dolich protein_co	13	36949775	37000261	-1	q13.3
ENSG00000223653	1.3377	2.5274	0.0129	0.0298	RP11-131L23.1	antisense	1	85276715	85448124	1	p22.3
ENSG00000248278	1.3376	2.5272	0.0099	0.0235	SUMO2P17	SUMO2 pseudotranscribed	17	48874860	48908983	-1	q21.32
ENSG00000118680	1.3357	2.524	6.66E-32	2.51E-30	MYL12B	myosin, light protein_co	18	3261909	3278284	1	p11.31
ENSG00000133110	1.3357	2.524	0.0007	0.002	POSTN	periostin, (protein_co	13	37562583	37598844	-1	q13.3
ENSG00000108479	1.3353	2.5232	2.50E-14	2.03E-13	GALK1	galactokinase protein_co	17	75751594	75765711	-1	q25.1
ENSG00000178307	1.3349	2.5227	1.82E-43	2.40E-41	TMEM11	transmembr protein_co	17	21197280	21214624	-1	p11.2
ENSG00000140264	1.3348	2.5224	3.56E-28	9.63E-27	SERF2	small EDRK protein_co	15	43777087	43802589	1	q15.3
ENSG00000137876	1.3348	2.5224	8.74E-18	9.39E-17	RSL24D1	ribosomal l protein_co	15	55180806	55197067	-1	q21.3
ENSG00000085063	1.3341	2.5213	2.34E-23	4.05E-22	CD59	CD59 molecule protein_co	11	33698261	33736445	-1	p13
ENSG00000230825	1.3329	2.519	0.0048	0.012	AC005532.5	processed_	7	7255154	7277779	1	p21.3
ENSG00000225285	1.3325	2.5185	3.13E-05	0.0001	RP4-758J18.10	lincRNA	1	1430539	1434573	-1	p36.33
ENSG00000164039	1.3323	2.518	1.59E-30	5.28E-29	BDH2	3-hydroxybutyrate protein_co	4	1.03E+08	1.03E+08	-1	q24
ENSG00000217555	1.332	2.5175	1.30E-08	6.46E-08	CKLF	chemokine protein_co	16	66552563	66566251	1	q21
ENSG00000128708	1.3318	2.5171	9.52E-29	2.70E-27	HAT1	histone acetylase protein_co	2	1.72E+08	1.72E+08	1	q31.1
ENSG00000100300	1.3316	2.5169	1.05E-30	3.53E-29	TSPO	translocator protein_co	22	43151514	43163242	1	q13.2
ENSG00000229638	1.3315	2.5166	7.73E-05	0.0003	RPL4P4	ribosomal r processed_	3	1.85E+08	1.85E+08	-1	q27.2
ENSG00000124216	1.3312	2.5161	0.0034	0.0088	SNAI1	snail family protein_co	20	49982999	49988886	1	q13.13
ENSG00000151500	1.3311	2.516	1.44E-30	4.82E-29	THYN1	thymocyte protein_co	11	1.34E+08	1.34E+08	-1	q25
ENSG00000115602	1.331	2.5158	0.0019	0.0052	IL1RL1	interleukin protein_co	2	1.02E+08	1.02E+08	1	q12.1

ENSG00000215006	1.3309	2.5156	0.0041	0.0104 CHCHD2P2	coiled-coil- processed_	5	69333929	69334249	1	q13.2
ENSG00000210049	1.3307	2.5153	1.76E-05	6.35E-05 MT-TF	mitochond Mt_tRNA MT		577	647	1	
ENSG00000271737	1.3298	2.5136	0.0057	0.0141 CTB-113I20.2	lincRNA	5	1.34E+08	1.34E+08	1	q31.1
ENSG00000233476	1.3293	2.5129	1.27E-08	6.29E-08 EEF1A1P6	eukaryotic processed_	7	22510616	22511999	-1	p15.3
ENSG00000215417	1.3294	2.5129	0.0119	0.0278 MIR17HG	miR-17-92 processed_	13	91347820	91354579	1	q31.3
ENSG00000244094	1.3286	2.5117	0.0187	0.0416 SPRR2F	small prolir protein_co	1	1.53E+08	1.53E+08	-1	q21.3
ENSG00000155542	1.3283	2.511	1.22E-10	7.24E-10 SETD9	SET domair protein_co	5	56909260	56917348	1	q11.2
ENSG00000264660	1.3281	2.5107	0.0023	0.006 RP11-381P6.1	antisense	17	20963722	20980238	1	p11.2
ENSG00000272146	1.3276	2.5099	0.012	0.0279 RP11-755B10.4	antisense	3	57597715	57600927	-1	p14.3
ENSG00000150456	1.3273	2.5093	6.15E-12	4.07E-11 N6AMT2	N-6 adenin protein_co	13	20728731	20773958	-1	q12.11
ENSG00000227063	1.3271	2.5089	4.32E-07	1.86E-06 RPL41P1	ribosomal Ꞥ processed_	20	21755270	21755350	1	p11.22
ENSG00000151917	1.327	2.5089	0.0007	0.0021 BEND6	BEN domai protein_co	6	56955126	57027342	1	p12.1
ENSG00000175324	1.3265	2.508	2.27E-34	1.14E-32 LSM1	LSM1, U6 s protein_co	8	38163321	38176730	-1	p11.23
ENSG00000106367	1.3264	2.5077	4.66E-29	1.36E-27 AP1S1	adaptor-rel protein_co	7	1.01E+08	1.01E+08	1	q22.1
ENSG00000253426	1.3261	2.5072	0.0202	0.0446 RP11-10A14.4	lincRNA	8	9151742	9168136	1	p23.1
ENSG00000178096	1.3257	2.5066	3.09E-14	2.49E-13 BOLA1	bolA family protein_co	1	1.5E+08	1.5E+08	1	q21.2
ENSG00000180817	1.3252	2.5057	2.63E-16	2.52E-15 PPA1	pyrophospl protein_co	10	70202830	70233911	-1	q22.1
ENSG00000115233	1.3251	2.5055	8.28E-43	1.03E-40 PSMD14	proteasom protein_co	2	1.61E+08	1.61E+08	1	q24.2
ENSG00000134697	1.3245	2.5045	1.85E-38	1.45E-36 GNL2	guanine nu protein_co	1	37566816	37595935	-1	p34.3
ENSG00000175471	1.3245	2.5045	2.68E-06	1.06E-05 MCTP1	multiple C2 protein_co	5	94703741	95284575	-1	q15
ENSG00000181929	1.3239	2.5035	1.01E-33	4.59E-32 PRKAG1	protein kin protein_co	12	49002274	49019197	-1	q13.12
ENSG00000245910	1.3236	2.5028	8.81E-17	8.78E-16 SNHG6	small nucle processed_	8	66921684	66926398	-1	q13.1
ENSG00000196636	1.3236	2.5028	5.98E-15	5.08E-14 ACN9	ACN9 homi protein_co	7	97116590	97181763	1	q21.3
ENSG00000152082	1.3233	2.5024	1.57E-19	1.95E-18 MZT2B	mitotic spir protein_co	2	1.3E+08	1.3E+08	1	q21.1
ENSG00000111229	1.3233	2.5023	8.53E-42	9.66E-40 ARPC3	actin relate protein_co	12	1.1E+08	1.1E+08	-1	q24.11
ENSG00000148950	1.3233	2.5023	5.55E-12	3.70E-11 IMMP1L	IMP1 inner protein_co	11	31432401	31509645	-1	p13
ENSG00000234648	1.3231	2.502	0.0065	0.0159 AL162151.3	processed_	14	98973314	98973471	1	q32.2
ENSG00000233912	1.3231	2.502	0.0144	0.0329 AC026202.3	antisense	3	5156905	5187329	-1	p26.1
ENSG00000254473	1.3224	2.5009	5.19E-09	2.67E-08 RP11-522I20.3	antisense	9	83707594	83713378	1	q21.32
ENSG00000168032	1.3222	2.5004	2.85E-20	3.77E-19 ENTPD3	ectonucleo protein_co	3	40387156	40428619	1	p22.1
ENSG00000236939	1.3221	2.5003	0.021	0.0462 BAALC-AS2	BAALC anti antisense	8	1.03E+08	1.03E+08	-1	q22.3
ENSG00000196951	1.3221	2.5002	0.0002	0.0006 SCOC-AS1	SCOC antis antisense	4	1.4E+08	1.4E+08	-1	q31.1
ENSG00000248752	1.3215	2.4993	0.0182	0.0405 RP11-114J13.1	lincRNA	5	1.26E+08	1.26E+08	-1	q23.2
ENSG00000115268	1.3213	2.499	1.44E-19	1.79E-18 RPS15	ribosomal Ꞥ protein_co	19	1438358	1440494	1	p13.3
ENSG00000226781	1.3211	2.4986	0.0034	0.0087 TBCAP1	tubulin folc processed_ X		33041395	33041721	1	p21.1
ENSG00000263450	1.3203	2.4972	0.0107	0.0252 RP11-680N20.1	antisense	18	32954075	32957998	1	q12.1
ENSG00000213178	1.3195	2.4958	0.0006	0.0018 RP11-641D5.1	processed_	3	1.69E+08	1.69E+08	-1	q26.2
ENSG00000239246	1.3194	2.4956	0.0147	0.0335 RP11-464D20.2	processed_	17	62516321	62516767	-1	q23.2
ENSG00000271850	1.3191	2.495	0.0219	0.0479 RP11-16D22.2	lincRNA	13	34348043	34614170	1	q13.2
ENSG00000104691	1.3184	2.4939	5.07E-18	5.54E-17 UBXN8	UBX domai protein_co	8	30732247	30767006	1	p12
ENSG00000275496	1.3182	2.4935	0.0131	0.0301 CH507-24F1.2	lincRNA	21	6228966	6267317	-1	p12

ENSG0000002330	1.318	2.4932	7.47E-16	6.84E-15	BAD	BCL2-assoc protein_co	11	64269830	64284704	-1	q13.1
ENSG00000126749	1.3176	2.4925	6.92E-20	8.91E-19	EMG1	EMG1 N1-s protein_co	12	6970893	6976619	1	p13.31
ENSG00000184220	1.3159	2.4897	3.20E-19	3.88E-18	CMSS1	cms1 ribos protein_co	3	99817834	1E+08	1	q12.1
ENSG00000176340	1.3157	2.4892	1.73E-26	4.00E-25	COX8A	cytochrome protein_co	11	63974607	63976543	1	q13.1
ENSG00000178381	1.3156	2.4891	1.59E-26	3.70E-25	ZFAND2A	zinc finger protein_co	7	1152071	1160759	-1	p22.3
ENSG00000230107	1.3156	2.4891	0.0027	0.0071	CTA-126B4.7	lincRNA	22	42438023	42446195	1	q13.2
ENSG00000120820	1.315	2.488	0.0002	0.0005	GLT8D2	glycosyltra protein_co	12	1.04E+08	1.04E+08	-1	q23.3
ENSG00000152422	1.3144	2.487	2.16E-17	2.25E-16	XRCC4	X-ray repair protein_co	5	83077498	83353787	1	q14.2
ENSG00000168288	1.3142	2.4866	1.25E-32	5.08E-31	MMADHC	methylmal protein_co	2	1.5E+08	1.5E+08	-1	q23.2
ENSG00000147041	1.3141	2.4864	1.28E-10	7.58E-10	SYTL5	synaptotag protein_co X		38006582	38128819	1	p11.4
ENSG00000169689	1.314	2.4862	4.71E-17	4.77E-16	STRA13	stimulated protein_co	17	82018702	82024107	-1	q25.3
ENSG00000153347	1.3139	2.4862	0.0094	0.0223	FAM81B	family with protein_co	5	95391344	95450454	1	q15
ENSG00000197448	1.3131	2.4848	1.08E-20	1.48E-19	GSTK1	glutathione protein_co	7	1.43E+08	1.43E+08	1	q34
ENSG00000180822	1.3123	2.4834	5.59E-25	1.12E-23	PSMG4	proteasom protein_co	6	3231403	3303373	1	p25.2
ENSG00000130176	1.3121	2.483	0.0025	0.0065	CNN1	calponin 1, protein_co	19	11538717	11550323	1	p13.2
ENSG00000197149	1.3116	2.4822	0.0113	0.0265	RP11-452G18.2	processed_	11	17228279	17229151	1	p15.1
ENSG00000203761	1.3114	2.4819	0.0039	0.01	MSTO2P	misato fam unprocesse	1	1.56E+08	1.56E+08	1	q22
ENSG00000165916	1.3113	2.4816	3.80E-34	1.84E-32	PSMC3	proteasom protein_co	11	47418769	47426473	-1	p11.2
ENSG00000273149	1.311	2.4811	8.06E-09	4.07E-08	RP11-290D2.6	antisense	13	45340039	45341183	1	q14.13
ENSG00000104529	1.3104	2.4802	3.17E-16	3.02E-15	EEF1D	eukaryotic protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000197728	1.3103	2.4799	7.21E-46	1.21E-43	RPS26	ribosomal p protein_co	12	56041853	56044675	1	q13.2
ENSG00000196419	1.3101	2.4796	1.52E-31	5.55E-30	XRCC6	X-ray repair protein_co	22	41621119	41664048	1	q13.2
ENSG00000086065	1.3098	2.479	3.35E-21	4.85E-20	CHMP5	charged mi protein_co	9	33264879	33282069	1	p13.3
ENSG00000042980	1.3095	2.4786	1.72E-10	1.01E-09	ADAM28	ADAM met protein_co	8	24294040	24359018	1	p21.2
ENSG00000175449	1.3094	2.4785	9.91E-06	3.67E-05	RFESD	Rieske (Fe-) protein_co	5	95646754	95684773	1	q15
ENSG00000005075	1.3094	2.4783	1.42E-19	1.77E-18	POLR2J	polymerase protein_co	7	1.02E+08	1.02E+08	-1	q22.1
ENSG00000276170	1.3081	2.4762	0.0005	0.0014	AC124789.1	processed_	17	38450394	38452444	-1	q12
ENSG00000145982	1.308	2.476	9.00E-15	7.55E-14	FARS2	phenylalan protein_co	6	5261044	5771580	1	p25.1
ENSG00000174748	1.3072	2.4747	2.08E-16	2.00E-15	RPL15	ribosomal p protein_co	3	23916545	23923692	1	p24.2
ENSG00000125848	1.3067	2.4738	7.12E-05	0.0002	FLRT3	fibronectin protein_co	20	14322988	14337616	-1	p12.1
ENSG00000118849	1.3061	2.4727	1.85E-05	6.66E-05	RARRES1	retinoic aci protein_co	3	1.59E+08	1.59E+08	-1	q25.32
ENSG00000197982	1.3057	2.472	6.92E-26	1.51E-24	C1orf122	chromosom protein_co	1	37806979	37809454	1	p34.3
ENSG00000185834	1.3054	2.4715	0.0002	0.0007	RPL12P4	ribosomal p processed_	20	55074644	55075140	1	q13.2
ENSG00000106355	1.3046	2.4701	1.95E-14	1.59E-13	LSM5	LSM5 homi protein_co	7	32485332	32495283	-1	p14.3
ENSG00000177700	1.3035	2.4682	1.50E-38	1.20E-36	POLR2L	polymerase protein_co	11	837356	842545	-1	p15.5
ENSG00000169084	1.303	2.4675	9.17E-20	1.17E-18	DHR SX	dehydrogei protein_co X		2219516	2502805	-1	p22.33
ENSG00000111906	1.3012	2.4643	3.32E-16	3.15E-15	HDDC2	HD domain protein_co	6	1.25E+08	1.25E+08	-1	q22.31
ENSG00000048162	1.3011	2.4641	1.18E-33	5.27E-32	NOP16	NOP16 nuc protein_co	5	1.76E+08	1.76E+08	-1	q35.2
ENSG00000196793	1.3008	2.4637	0.0057	0.0141	ZNF239	zinc finger p protein_co	10	43556344	43574618	-1	q11.21
ENSG00000166959	1.3008	2.4636	0.0051	0.0127	MS4A8	membrane protein_co	11	60699574	60715811	1	q12.2
ENSG00000189316	1.3006	2.4632	0.0223	0.0486	RP11-797H7.5	antisense	7	64888527	64890100	-1	q11.21

ENSG00000164934	1.2999	2.4621	4.71E-35	2.47E-33 DCAF13	DDB1 and (protein_co	8	1.03E+08	1.03E+08	1 q22.3
ENSG00000124787	1.2997	2.4618	2.90E-09	1.53E-08 RPP40	ribonuclea:protein_co	6	4994732	5004063	-1 p25.1
ENSG00000198522	1.2996	2.4616	1.47E-31	5.42E-30 GPN1	GPN-loop C protein_co	2	27628247	27651508	1 p23.3
ENSG00000260969	1.2984	2.4596	0.0228	0.0496 RP11-190D6.2	antisense	16	78237362	78241218	-1 q23.1
ENSG00000119650	1.2979	2.4587	4.97E-06	1.91E-05 IFT43	intraflagell:protein_co	14	75902136	76084585	1 q24.3
ENSG00000102738	1.2975	2.458	1.72E-06	6.99E-06 MRPS31	mitochond:protein_co	13	40729135	40771173	-1 q14.11
ENSG00000101182	1.2971	2.4574	9.94E-40	8.98E-38 PSMA7	proteasom:protein_co	20	62136735	62143440	-1 q13.33
ENSG00000215267	1.2967	2.4566	0.0001	0.0005 AKR1C7P	aldo-keto r transcribed	10	5275173	5288470	-1 p15.1
ENSG00000102837	1.296	2.4554	0.0208	0.0458 OLFM4	olfactomec:protein_co	13	53028759	53052057	1 q14.3
ENSG00000163466	1.2959	2.4552	2.76E-34	1.37E-32 ARPC2	actin relate:protein_co	2	2.18E+08	2.18E+08	1 q35
ENSG00000132341	1.2958	2.4551	6.96E-45	1.05E-42 RAN	RAN, meml:protein_co	12	1.31E+08	1.31E+08	1 q24.33
ENSG00000165948	1.2938	2.4517	1.58E-19	1.96E-18 IFI27L1	interferon, protein_co	14	94081282	94103846	1 q32.12
ENSG00000100316	1.2935	2.4512	1.07E-15	9.65E-15 RPL3	ribosomal p:protein_co	22	39312882	39320389	-1 q13.1
ENSG00000211892	1.2934	2.4511	0.0197	0.0435 IGHG4	immunoglC_C_gene	14	1.06E+08	1.06E+08	-1 q32.33
ENSG00000275212	1.2929	2.4503	0.0223	0.0487 RP3-446N13.5	lincRNA	12	1.26E+08	1.26E+08	1 q24.32
ENSG00000114395	1.2928	2.45	1.14E-25	2.45E-24 CYB561D2	cytochrom:protein_co	3	50350695	50358460	1 p21.31
ENSG00000260552	1.2906	2.4463	0.0005	0.0015 RP11-49I11.1	antisense	18	36179996	36187448	-1 q12.2
ENSG00000151655	1.2905	2.4462	0.0181	0.0403 ITIH2	inter-alpha:protein_co	10	7703269	7749520	1 p14
ENSG00000144867	1.2904	2.446	2.31E-36	1.40E-34 SRPRB	signal reco:protein_co	3	1.34E+08	1.34E+08	1 q22.1
ENSG00000214050	1.2904	2.446	1.24E-07	5.64E-07 FBXO16	F-box prote:protein_co	8	28348287	28490318	-1 p21.1
ENSG00000184635	1.2902	2.4456	0.0003	0.0008 ZNF93	zinc finger p:protein_co	19	19900913	19935575	1 p12
ENSG00000272369	1.29	2.4452	0.0017	0.0046 RP11-446N19.1	lincRNA	12	46537502	46652550	1 q13.11
ENSG00000115541	1.2898	2.445	9.66E-17	9.55E-16 HSPE1	heat shock:protein_co	2	1.97E+08	1.98E+08	1 q33.1
ENSG00000256164	1.2892	2.444	0.0094	0.0224 CCND2-AS1	CCND2 anti:antisense	12	4248765	4276184	-1 p13.32
ENSG00000180953	1.2889	2.4433	3.99E-06	1.55E-05 ST20	suppressor:protein_co	15	79898840	79923702	-1 q25.1
ENSG00000197457	1.2887	2.4432	4.05E-15	3.48E-14 STMN3	stathmin-lil:protein_co	20	63639705	63653427	-1 q13.33
ENSG00000131981	1.2886	2.4429	4.61E-10	2.60E-09 LGALS3	lectin, gala:protein_co	14	55124110	55145413	1 q22.3
ENSG00000115226	1.2877	2.4415	0.0003	0.0009 FNDC4	fibronectin:protein_co	2	27491883	27495245	-1 p23.3
ENSG00000166557	1.2877	2.4413	2.09E-23	3.64E-22 TMED3	transmemk:protein_co	15	79311062	79427432	1 q25.1
ENSG00000100078	1.2871	2.4404	0.0023	0.0062 PLA2G3	phospholip:protein_co	22	31134809	31140607	-1 q12.2
ENSG00000100372	1.2869	2.44	6.54E-27	1.58E-25 SLC25A17	solute carri:protein_co	22	40769630	40819399	-1 q13.2
ENSG00000198099	1.2868	2.4399	0.0171	0.0384 ADH4	alcohol def:protein_co	4	99123657	99157792	-1 q23
ENSG00000226471	1.2866	2.4395	0.0001	0.0004 CTA-292E10.6	antisense	22	28800683	28848559	1 q12.1
ENSG00000258704	1.2863	2.439	0.0005	0.0016 SRP54-AS1	SRP54 anti:processed_	14	34920858	34982532	-1 q13.2
ENSG00000138085	1.2858	2.4382	2.42E-29	7.24E-28 ATRAID	all-trans re:protein_co	2	27212027	27217178	1 p23.3
ENSG00000247498	1.2854	2.4374	6.20E-05	0.0002 RP11-392P7.6	antisense	12	12927726	12984645	1 p13.1
ENSG00000167088	1.2845	2.436	3.52E-24	6.56E-23 SNRPD1	small nucle:protein_co	18	21612267	21630456	1 q11.2
ENSG00000106268	1.2836	2.4345	7.75E-08	3.59E-07 NUDT1	nudix (nucl:protein_co	7	2242222	2251146	1 p22.3
ENSG00000228305	1.2836	2.4345	0.0017	0.0046 AC016734.2	processed_	2	63622178	63622831	-1 p15
ENSG00000165233	1.2836	2.4344	1.15E-23	2.03E-22 C9orf89	chromoson:protein_co	9	93096218	93113283	1 q22.31
ENSG00000135047	1.2834	2.4342	8.73E-20	1.12E-18 CTSL	cathepsin L:protein_co	9	87725519	87731393	1 q21.33

ENSG00000106366	1.2832	2.4337	0.0018	0.0048	SERPINE1	serpin pept protein_co	7	1.01E+08	1.01E+08	1	q22.1
ENSG00000126860	1.2832	2.4337	0.0176	0.0394	EVI2A	ecotropic v protein_co	17	31317560	31321884	-1	q11.2
ENSG00000235978	1.2822	2.4321	0.0003	0.0009	AC018816.3	antisense	3	4814294	4887293	-1	p26.1
ENSG00000146007	1.282	2.4317	1.92E-24	3.64E-23	ZMAT2	zinc finger, protein_co	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000168002	1.2814	2.4308	1.54E-32	6.15E-31	POLR2G	polymerase protein_co	11	62761544	62766710	1	q12.3
ENSG00000204257	1.2814	2.4307	1.51E-13	1.15E-12	HLA-DMA	major histc protein_co	6	32948613	32969094	-1	p21.32
ENSG00000145354	1.2798	2.428	2.88E-25	5.97E-24	CISD2	CDGSH iror protein_co	4	1.03E+08	1.03E+08	1	q24
ENSG00000220937	1.2797	2.4279	0.0019	0.0051	HNRNPA1P41	heterogene processed_	9	4944670	4945902	-1	p24.1
ENSG00000116711	1.2794	2.4273	9.33E-19	1.08E-17	PLA2G4A	phospholip protein_co	1	1.87E+08	1.87E+08	1	q31.1
ENSG00000147889	1.279	2.4267	2.38E-08	1.15E-07	CDKN2A	cyclin-depe protein_co	9	21967753	21995301	-1	p21.3
ENSG00000115216	1.2783	2.4255	4.14E-58	2.87E-55	NRBP1	nuclear rec protein_co	2	27427790	27442259	1	p23.3
ENSG00000166035	1.2782	2.4254	0.0116	0.027	LIPC	lipase, hep; protein_co	15	58410569	58569843	1	q21.3
ENSG00000240972	1.2782	2.4253	1.47E-23	2.60E-22	MIF	macrophag protein_co	22	23894004	23895227	1	q11.23
ENSG00000104979	1.2781	2.4252	5.39E-55	2.83E-52	C19orf53	chromoson protein_co	19	13774168	13778462	1	p13.13
ENSG00000138433	1.2778	2.4247	1.34E-15	1.19E-14	CIR1	corepresso protein_co	2	1.74E+08	1.74E+08	-1	q31.1
ENSG00000143183	1.2773	2.4238	3.37E-32	1.31E-30	TMCO1	transmemt protein_co	1	1.66E+08	1.66E+08	-1	q24.1
ENSG00000065325	1.2772	2.4237	0.0226	0.0494	GLP2R	glucagon-lik protein_co	17	9822206	9892102	1	p13.1
ENSG00000130724	1.277	2.4233	1.78E-25	3.75E-24	CHMP2A	charged m; protein_co	19	58551566	58555124	-1	q13.43
ENSG00000224261	1.2765	2.4226	0.0143	0.0326	RP11-179G5.1	processed_	1	1.6E+08	1.6E+08	-1	q23.2
ENSG00000130520	1.2763	2.4221	1.93E-19	2.38E-18	LSM4	LSM4 hom; protein_co	19	18306230	18323274	-1	p13.11
ENSG00000168589	1.2758	2.4213	0.0133	0.0306	DYNLRB2	dynein, lig; protein_co	16	80540734	80550760	1	q23.2
ENSG00000047621	1.2757	2.4212	4.06E-32	1.57E-30	C12orf4	chromoson protein_co	12	4487728	4538508	-1	p13.32
ENSG00000137975	1.2754	2.4206	4.57E-11	2.82E-10	CLCA2	chloride ch protein_co	1	86424086	86456558	1	p22.3
ENSG00000117118	1.2749	2.4199	6.44E-34	3.00E-32	SDHB	succinate d protein_co	1	17018722	17054170	-1	p36.13
ENSG00000258414	1.2744	2.419	0.0098	0.0232	RP11-356O9.1	lincRNA	14	37564047	37579125	1	q21.1
ENSG00000104671	1.2744	2.4189	1.29E-19	1.61E-18	DCTN6	dynactin 6 protein_co	8	30156297	30183640	1	p12
ENSG00000172551	1.2737	2.4178	0.007	0.0171	MUCL1	mucin-like protein_co	12	54830519	54858393	1	q13.2
ENSG00000119915	1.2735	2.4175	0.0095	0.0226	ELOVL3	ELOVL fatty protein_co	10	1.02E+08	1.02E+08	1	q24.32
ENSG00000123405	1.2732	2.417	0.0025	0.0065	NFE2	nuclear fac protein_co	12	54292111	54301121	-1	q13.13
ENSG00000148444	1.273	2.4166	4.06E-19	4.88E-18	COMMD3	COMM dor protein_co	10	22315974	22320308	1	p12.2
ENSG00000163938	1.2728	2.4164	3.56E-30	1.15E-28	GNL3	guanine nu protein_co	3	52681156	52694492	1	p21.1
ENSG00000134242	1.2727	2.4161	0.0201	0.0443	PTPN22	protein tyri protein_co	1	1.14E+08	1.14E+08	-1	p13.2
ENSG00000014641	1.2726	2.416	1.24E-24	2.40E-23	MDH1	malate deh protein_co	2	63588609	63607197	1	p15
ENSG00000196188	1.2726	2.4159	0.0007	0.0019	CTSE	cathepsin E protein_co	1	2.06E+08	2.06E+08	-1	q32.1
ENSG00000067334	1.2721	2.4152	4.11E-28	1.10E-26	DNTTIP2	deoxynucle protein_co	1	93866283	93879918	-1	p22.1
ENSG00000123892	1.2719	2.4149	1.97E-05	7.05E-05	RAB38	RAB38, me protein_co	11	88113242	88175467	-1	q14.2
ENSG00000163832	1.2716	2.4143	2.86E-28	7.79E-27	ELP6	elongator a protein_co	3	47495640	47513761	-1	p21.31
ENSG00000134827	1.2716	2.4142	0.0002	0.0006	TCN1	transcobal; protein_co	11	59852800	59866575	-1	q12.1
ENSG00000227765	1.2715	2.4141	0.0167	0.0376	RP11-162O12.2	processed_	4	1.84E+08	1.84E+08	-1	q35.1
ENSG00000144820	1.2714	2.414	0.0165	0.0373	GPR128	G protein-c protein_co	3	1.01E+08	1.01E+08	1	q12.2
ENSG00000255501	1.2712	2.4137	0.0121	0.028	CARD18	caspase rec protein_co	11	1.05E+08	1.05E+08	-1	q22.3



ENSG00000103121	1.2709	2.4132	5.34E-20	6.95E-19	CMC2	C-x(9)-C mc protein_co	16	80966448	81020270	-1	q23.2
ENSG00000259459	1.2704	2.4122	0.0103	0.0243	RP11-321G12.1	lincRNA	15	63390136	63438320	1	q22.2
ENSG00000143771	1.2703	2.4121	2.57E-22	4.04E-21	CNIH4	cornichon f protein_co	1	2.24E+08	2.24E+08	1	q42.11
ENSG00000231205	1.2702	2.412	0.0052	0.0131	ZNF826P	zinc finger   transcribed	19	20340269	20424969	-1	p12
ENSG00000176907	1.2698	2.4114	0.0081	0.0195	C8orf4	chromosom protein_co	8	40153455	40155308	1	p11.21
ENSG00000128581	1.2698	2.4112	0.0004	0.0013	IFT22	intraflagell; protein_co	7	1.01E+08	1.01E+08	-1	q22.1
ENSG00000213619	1.2693	2.4104	5.78E-17	5.81E-16	NDUFS3	NADH dehy protein_co	11	47565336	47584562	1	p11.2
ENSG00000137818	1.269	2.4099	9.66E-17	9.55E-16	RPLP1	ribosomal p protein_co	15	69452784	69456194	1	q23
ENSG00000230533	1.268	2.4083	0.014	0.032	RP11-95M15.1	lincRNA	6	1.38E+08	1.38E+08	1	q23.3
ENSG00000154582	1.2675	2.4075	4.88E-20	6.36E-19	TCEB1	transcriptic protein_co	8	73939169	73972287	-1	q21.11
ENSG00000114023	1.2671	2.4068	3.72E-14	2.97E-13	FAM162A	family with protein_co	3	1.22E+08	1.22E+08	1	q21.1
ENSG00000169230	1.2665	2.4057	9.34E-40	8.47E-38	PRELID1	PRELI dom; protein_co	5	1.77E+08	1.77E+08	1	q35.3
ENSG00000279754	1.2663	2.4054	0.0144	0.0329	RP11-309J13.1	TEC	13	73399031	73399205	1	q22.1
ENSG00000170296	1.2659	2.4048	1.53E-24	2.94E-23	GABARAP	GABA(A) re protein_co	17	7240014	7242770	-1	p13.1
ENSG00000234171	1.2645	2.4025	6.30E-11	3.85E-10	RNASEH1-AS1	RNASEH1 a antisense	2	3558492	3561745	1	p25.3
ENSG00000078596	1.2641	2.4017	0.0164	0.037	ITM2A	integral me protein_co X		79360384	79367667	-1	q21.1
ENSG00000033011	1.2639	2.4014	4.33E-28	1.15E-26	ALG1	ALG1, chitc protein_co	16	5033702	5087379	1	p13.3
ENSG00000238113	1.2634	2.4005	0.003	0.0078	LINC01410	long interg; lincRNA	9	62801461	62813486	1	q13
ENSG00000008018	1.2631	2.4001	3.31E-38	2.55E-36	PSMB1	proteasom protein_co	6	1.71E+08	1.71E+08	-1	q27
ENSG00000241506	1.2624	2.3989	0.002	0.0055	PSMC1P1	proteasom processed_	3	68635705	68637024	1	p14.1
ENSG00000113387	1.2617	2.3978	1.57E-21	2.33E-20	SUB1	SUB1 homc protein_co	5	32531633	32604079	1	p13.3
ENSG00000116120	1.26	2.395	4.95E-17	5.01E-16	FARSB	phenylalan protein_co	2	2.23E+08	2.23E+08	-1	q36.1
ENSG00000187049	1.26	2.3949	3.11E-13	2.30E-12	TMEM216	transmemt protein_co	11	61391687	61398863	1	q12.2
ENSG00000184305	1.2593	2.3939	5.69E-06	2.17E-05	CCSER1	coiled-coil : protein_co	4	90127535	91601913	1	q22.1
ENSG00000100804	1.2585	2.3925	1.51E-40	1.51E-38	PSMB5	proteasom protein_co	14	23016543	23035230	-1	q11.2
ENSG00000171155	1.2583	2.3921	2.29E-20	3.06E-19	C1GALT1C1	C1GALT1-s; protein_co X		1.21E+08	1.21E+08	-1	q24
ENSG00000165283	1.2572	2.3904	1.36E-18	1.56E-17	STOML2	stomatin (E protein_co	9	35099776	35103195	-1	p13.3
ENSG00000138777	1.2568	2.3896	2.64E-27	6.58E-26	PPA2	pyrophospl protein_co	4	1.05E+08	1.05E+08	-1	q24
ENSG00000111481	1.2565	2.3892	3.54E-30	1.14E-28	COPZ1	coatomer p protein_co	12	54301202	54351849	1	q13.13
ENSG00000109511	1.2565	2.3891	4.72E-06	1.82E-05	ANXA10	annexin A1 protein_co	4	1.68E+08	1.68E+08	1	q32.3
ENSG00000243543	1.2564	2.3889	0.008	0.0194	WFDC6	WAP four-c protein_co	20	45534196	45539495	-1	q13.12
ENSG00000255282	1.2558	2.3881	0.0032	0.0083	WTAPP1	Wilms tum; transcribed	11	1.03E+08	1.03E+08	1	q22.2
ENSG00000230989	1.2556	2.3877	3.98E-19	4.79E-18	HSBP1	heat shock protein_co	16	83807843	83819737	1	q23.3
ENSG00000265354	1.2555	2.3875	7.08E-38	5.27E-36	TIMM23	translocase protein_co	10	45972449	46003734	1	q11.22
ENSG00000241794	1.2551	2.3868	0.0037	0.0096	SPRR2A	small prolir protein_co	1	1.53E+08	1.53E+08	-1	q21.3
ENSG00000162813	1.255	2.3867	1.95E-22	3.11E-21	BPNT1	3'(2'), 5'-bi; protein_co	1	2.2E+08	2.2E+08	-1	q41
ENSG00000137745	1.2548	2.3863	0.0019	0.0052	MMP13	matrix met protein_co	11	1.03E+08	1.03E+08	-1	q22.2
ENSG00000086205	1.2534	2.3841	0.0006	0.0018	FOLH1	folate hydr protein_co	11	49146635	49208670	-1	p11.12
ENSG00000096080	1.2523	2.3822	9.38E-21	1.30E-19	MRPS18A	mitochondi protein_co	6	43671303	43687791	-1	p21.1
ENSG00000229644	1.2523	2.3822	3.73E-13	2.74E-12	NAMPTP1	nicotinamic processed_	10	36521721	36524234	-1	p11.21
ENSG00000260115	1.2523	2.3822	0.0125	0.029	CTC-420A11.2	antisense	16	61918321	61940697	1	q21

ENSG00000140395	1.2522	2.382	4.03E-23	6.79E-22	WDR61	WD repeat protein_co	15	78277835	78299794	-1	q25.1
ENSG00000165264	1.2522	2.382	2.65E-22	4.17E-21	NDUFB6	NADH dehyprotein_co	9	32552999	32573184	-1	p21.1
ENSG00000136247	1.2517	2.3812	1.28E-18	1.47E-17	ZDHH4	zinc finger, protein_co	7	6577434	6589374	1	p22.1
ENSG00000124570	1.2512	2.3805	1.47E-27	3.73E-26	SERPINB6	serpin peptprotein_co	6	2948159	2972165	-1	p25.2
ENSG00000143578	1.2501	2.3785	2.99E-07	1.31E-06	CREB3L4	cAMP resp;protein_co	1	1.54E+08	1.54E+08	1	q21.3
ENSG00000262454	1.2496	2.3778	0.0191	0.0424	RP11-65J21.3	lincRNA	16	14302288	14326353	1	p13.12
ENSG00000144895	1.2496	2.3777	1.28E-21	1.92E-20	EIF2A	eukaryotic protein_co	3	1.51E+08	1.51E+08	1	q25.1
ENSG00000115539	1.2492	2.377	7.52E-30	2.35E-28	PDCL3	phosducin-protein_co	2	1.01E+08	1.01E+08	1	q11.2
ENSG00000001626	1.2487	2.3762	7.54E-09	3.82E-08	CFTR	cystic fibro:protein_co	7	1.17E+08	1.18E+08	1	q31.2
ENSG00000180581	1.2486	2.376	0.0001	0.0003	SRP9P1	signal reco;processed_	10	91807179	91807439	-1	q23.32
ENSG00000160345	1.2486	2.376	0.0112	0.0261	C9orf116	chromoson protein_co	9	1.35E+08	1.36E+08	-1	q34.3
ENSG00000111907	1.2484	2.3758	1.05E-10	6.30E-10	TPD52L1	tumor prot protein_co	6	1.25E+08	1.25E+08	1	q22.31
ENSG00000197903	1.2482	2.3755	3.31E-20	4.37E-19	HIST1H2BK	histone clu:protein_co	6	27146418	27146798	-1	p22.1
ENSG00000271924	1.2479	2.375	0.0206	0.0454	5S_rRNA	5S ribosom rRNA	2	1.61E+08	1.61E+08	1	q24.2
ENSG00000239797	1.2471	2.3737	0.0167	0.0376	RPL21P39	ribosomal ;processed_	3	1.46E+08	1.46E+08	-1	q24
ENSG00000143553	1.2468	2.3731	2.45E-28	6.74E-27	SNAPIN	SNAP-assoc protein_co	1	1.54E+08	1.54E+08	1	q21.3
ENSG00000242575	1.2462	2.3721	0.0215	0.047	AC012501.3	transcribed	2	1.53E+08	1.53E+08	-1	q23.3
ENSG00000205622	1.2461	2.3719	0.0166	0.0374	AF064858.6	lincRNA	21	38877291	38956467	-1	q22.2
ENSG00000132823	1.2456	2.3712	7.15E-21	9.97E-20	OSER1	oxidative st protein_co	20	44196496	44210791	-1	q13.12
ENSG00000240036	1.2449	2.37	0.0112	0.0263	RP11-587D21.1	processed_	11	27581680	27582055	1	p14.1
ENSG00000112110	1.2446	2.3696	5.92E-21	8.33E-20	MRPL18	mitochondr protein_co	6	1.6E+08	1.6E+08	1	q25.3
ENSG00000134248	1.2444	2.3692	2.94E-32	1.15E-30	LAMTOR5	late endosc protein_co	1	1.1E+08	1.1E+08	-1	p13.3
ENSG00000155366	1.244	2.3685	3.46E-17	3.54E-16	RHOC	ras homolo protein_co	1	1.13E+08	1.13E+08	-1	p13.2
ENSG00000254999	1.2435	2.3678	1.14E-45	1.87E-43	BRK1	BRICK1, SC:protein_co	3	10115592	10127190	1	p25.3
ENSG00000143314	1.2433	2.3675	4.28E-25	8.69E-24	MRPL24	mitochondr protein_co	1	1.57E+08	1.57E+08	-1	q23.1
ENSG00000093134	1.2432	2.3673	0.0002	0.0008	VNN3	vanin 3 [So protein_co	6	1.33E+08	1.33E+08	-1	q23.2
ENSG00000243678	1.2429	2.3667	5.08E-13	3.70E-12	NME1-NME2	NME1-NMI protein_co	17	51165435	51171747	1	q21.33
ENSG00000169189	1.2427	2.3665	1.49E-19	1.85E-18	NSMCE1	non-SMC e protein_co	16	27224991	27268794	-1	p12.1
ENSG00000248243	1.2424	2.3659	0.0016	0.0044	RP11-93K22.13	lincRNA	3	1.3E+08	1.3E+08	-1	q22.1
ENSG00000122873	1.2422	2.3656	1.28E-20	1.75E-19	CISD1	CDGSH iror protein_co	10	58269058	58289586	1	q21.1
ENSG00000197647	1.242	2.3652	5.82E-19	6.90E-18	ZNF433	zinc finger ;protein_co	19	12014732	12035741	-1	p13.2
ENSG00000163444	1.2417	2.3648	1.46E-21	2.17E-20	TMEM183A	transmem; protein_co	1	2.03E+08	2.03E+08	1	q32.1
ENSG00000185880	1.241	2.3636	1.31E-34	6.76E-33	TRIM69	tripartite r protein_co	15	44728988	44767829	1	q21.1
ENSG00000234825	1.2406	2.3629	0.0084	0.0202	XRCC6P2	X-ray repai processed_X		1.5E+08	1.5E+08	-1	q28
ENSG00000027697	1.2403	2.3625	2.41E-08	1.17E-07	IFNGR1	interferon ;protein_co	6	1.37E+08	1.37E+08	-1	q23.3
ENSG00000125454	1.2401	2.3622	1.62E-10	9.54E-10	SLC25A19	solute carri protein_co	17	75272981	75289510	-1	q25.1
ENSG00000143549	1.2401	2.3621	5.47E-62	8.40E-59	TPM3	tropomyos protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000139684	1.2399	2.3618	8.35E-30	2.60E-28	ESD	esterase D protein_co	13	46771256	46797232	-1	q14.2
ENSG00000214784	1.2398	2.3617	0.0017	0.0046	AC010468.1	processed_	5	1.11E+08	1.11E+08	-1	q22.1
ENSG00000140319	1.2398	2.3616	1.01E-50	3.09E-48	SRP14	signal reco; protein_co	15	40035739	40039188	-1	q15.1
ENSG00000168291	1.2398	2.3616	2.50E-27	6.24E-26	PDHB	pyruvate d; protein_co	3	58427630	58433857	-1	p14.3



ENSG00000143653	1.2396	2.3613	3.73E-24	6.93E-23	SCCPDH	saccharopii protein_co	1	2.47E+08	2.47E+08	1	q44
ENSG00000231767	1.2391	2.3605	0.0129	0.0296	MIR4426	microRNA processed_	1	1.93E+08	1.93E+08	1	q31.2
ENSG00000204438	1.2389	2.3601	1.82E-15	1.61E-14	GPANK1	G patch do protein_co	6	31661229	31666283	-1	p21.33
ENSG00000204556	1.2379	2.3586	0.002	0.0053	CTD-2514C3.1	unprocesse	20	26018832	26020684	1	p11.1
ENSG00000180964	1.2378	2.3584	4.33E-17	4.40E-16	TCEAL8	transcriptic protein_co X		1.03E+08	1.03E+08	-1	q22.1
ENSG00000116209	1.2375	2.3579	6.94E-28	1.80E-26	TMEM59	transmemt protein_co	1	54031663	54053504	-1	p32.3
ENSG00000174886	1.2363	2.3559	2.91E-23	4.97E-22	NDUFA11	NADH dehy protein_co	19	5891276	5904006	-1	p13.3
ENSG00000173418	1.2363	2.3559	1.49E-18	1.70E-17	NAA20	N(alpha)-ac protein_co	20	20017116	20033655	1	p11.23
ENSG00000198356	1.2356	2.3548	2.15E-51	7.45E-49	ASNA1	arsA arseni protein_co	19	12737139	12748323	1	p13.13
ENSG00000163923	1.2353	2.3543	2.54E-05	8.99E-05	RPL39L	ribosomal p protein_co	3	1.87E+08	1.87E+08	-1	q27.3
ENSG00000032389	1.2349	2.3536	1.20E-14	9.98E-14	TSSC1	tumor supf protein_co	2	3188925	3377882	-1	p25.3
ENSG00000156973	1.2345	2.3531	1.27E-27	3.24E-26	PDE6D	phosphodi protein_co	2	2.32E+08	2.32E+08	-1	q37.1
ENSG00000100336	1.2343	2.3526	7.72E-05	0.0003	APOL4	apolipopro protein_co	22	36189124	36204840	-1	q12.3
ENSG00000182118	1.2341	2.3523	0.0006	0.0016	FAM89A	family with protein_co	1	2.31E+08	2.31E+08	-1	q42.2
ENSG00000231890	1.2339	2.352	0.0007	0.002	DARS-AS1	DARS antis antisense	2	1.36E+08	1.36E+08	1	q21.3
ENSG00000175611	1.2334	2.3512	3.86E-08	1.84E-07	LINC00476	long intergi processed_	9	95759231	95875977	-1	q22.32
ENSG00000272138	1.233	2.3506	0.0104	0.0245	RP11-27N21.3	lincRNA	8	79768142	79802842	1	q21.13
ENSG00000188690	1.2327	2.3501	4.62E-37	3.11E-35	UROS	uroporphyr protein_co	10	1.26E+08	1.26E+08	-1	q26.2
ENSG00000230037	1.2327	2.35	0.0011	0.0032	UBBP1	ubiquitin B processed_	2	1.36E+08	1.36E+08	-1	q22.1
ENSG00000246705	1.2326	2.3499	5.51E-20	7.16E-19	H2AFJ	H2A histon protein_co	12	14774383	14778002	1	p12.3
ENSG00000159479	1.2325	2.3498	3.04E-24	5.70E-23	MED8	mediator c protein_co	1	43383917	43389808	-1	p34.2
ENSG00000213025	1.2319	2.3487	1.15E-06	4.74E-06	COX20P1	COX20 cytc processed_	10	68632371	68632727	1	q21.3
ENSG00000081870	1.2316	2.3483	3.12E-07	1.36E-06	HSPB11	heat shock protein_co	1	53916574	53945929	-1	p32.3
ENSG00000105246	1.2316	2.3483	0.0049	0.0123	EBI3	Epstein-Bar protein_co	19	4229498	4237531	1	p13.3
ENSG00000179967	1.2315	2.3482	3.85E-09	2.01E-08	PPP1R14BP3	protein phc processed_	4	1.39E+08	1.39E+08	-1	q31.1
ENSG00000164032	1.2315	2.3481	6.69E-18	7.24E-17	H2AFZ	H2A histon protein_co	4	99948086	99950388	-1	q23
ENSG00000234741	1.2315	2.348	2.39E-10	1.38E-09	GAS5	growth arr processed_	1	1.74E+08	1.74E+08	-1	q25.1
ENSG00000127125	1.2314	2.3479	5.03E-24	9.28E-23	PPCS	phosphopa protein_co	1	42456117	42473385	1	p34.2
ENSG00000197956	1.2314	2.3479	2.90E-12	1.97E-11	S100A6	S100 calciu protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000106605	1.2309	2.3472	8.93E-37	5.73E-35	BLVRA	biliverdin r protein_co	7	43758680	43807342	1	p13
ENSG00000162595	1.2304	2.3462	0.0092	0.022	DIRAS3	DIRAS fami protein_co	1	68045962	68051631	-1	p31.3
ENSG00000075188	1.23	2.3457	8.02E-16	7.33E-15	NUP37	nucleoporii protein_co	12	1.02E+08	1.02E+08	-1	q23.2
ENSG00000160688	1.2297	2.3452	8.56E-35	4.44E-33	FLAD1	flavin aden protein_co	1	1.55E+08	1.55E+08	1	q21.3
ENSG00000115138	1.2291	2.3443	0.0205	0.0452	POMC	proopiome protein_co	2	25160853	25168903	-1	p23.3
ENSG00000262919	1.2289	2.3439	1.30E-25	2.77E-24	FAM58A	family with protein_co X		1.54E+08	1.54E+08	-1	q28
ENSG00000168491	1.2286	2.3434	0.0009	0.0024	CCDC110	coiled-coil r protein_co	4	1.85E+08	1.85E+08	-1	q35.1
ENSG00000109016	1.2278	2.3421	1.90E-23	3.31E-22	DHRS7B	dehydrogei protein_co	17	21123364	21193265	1	p11.2
ENSG00000178776	1.227	2.3408	0.0159	0.0359	C5orf46	chromoson protein_co	5	1.48E+08	1.48E+08	-1	q32
ENSG00000113643	1.2268	2.3405	2.74E-51	9.34E-49	RARS	arginyln-tRN protein_co	5	1.68E+08	1.69E+08	1	q34
ENSG00000256211	1.2268	2.3405	6.42E-07	2.72E-06	RP11-1018J11.1	processed_	12	16989126	16989936	1	p12.3
ENSG00000011422	1.2264	2.3398	2.85E-08	1.37E-07	PLAUR	plasminoge protein_co	19	43646095	43670547	-1	q13.31

ENSG00000197798	1.2262	2.3395	4.78E-33	2.01E-31	FAM118B	family with protein_co	11	1.26E+08	1.26E+08	1	q24.2
ENSG00000115008	1.225	2.3375	0.0107	0.0252	IL1A	interleukin protein_co	2	1.13E+08	1.13E+08	-1	q14.1
ENSG00000107551	1.2239	2.3357	0.0002	0.0007	RASSF4	Ras associa protein_co	10	44959407	44995891	1	q11.21
ENSG00000253570	1.2234	2.335	3.85E-06	1.50E-05	RNF5P1	ring finger   processed_	8	38600661	38601200	-1	p11.22
ENSG00000064199	1.2231	2.3344	0.004	0.0102	SPA17	sperm autc protein_co	11	1.25E+08	1.25E+08	1	q24.2
ENSG00000182518	1.2227	2.3339	2.72E-05	9.58E-05	FAM104B	family with protein_co X		55143102	55161310	-1	p11.21
ENSG00000174482	1.2228	2.3339	0.0075	0.0181	LINGO2	leucine rich protein_co	9	27948078	28670286	-1	p21.1
ENSG00000100220	1.2226	2.3337	6.52E-40	6.05E-38	RTCB	RNA 2',3'-c protein_co	22	32387582	32412255	-1	q12.3
ENSG00000197008	1.2226	2.3336	1.53E-17	1.61E-16	ZNF138	zinc finger   protein_co	7	64794388	64833681	1	q11.21
ENSG00000169764	1.2221	2.3329	3.22E-25	6.64E-24	UGP2	UDP-glucos protein_co	2	63840940	63891562	1	p15
ENSG00000106610	1.2221	2.3328	3.42E-14	2.74E-13	STAG3L4	stromal ant transcribed	7	67302621	67321526	1	q11.21
ENSG00000117143	1.2218	2.3325	7.82E-13	5.60E-12	UAP1	UDP-N-ace protein_co	1	1.63E+08	1.63E+08	1	q23.3
ENSG00000148516	1.2219	2.3325	0.0008	0.0023	ZEB1	zinc finger   protein_co	10	31318495	31529814	1	p11.22
ENSG00000121022	1.2216	2.3321	2.44E-27	6.09E-26	COP55	COP9 signa protein_co	8	67043079	67083783	-1	q13.1
ENSG00000120526	1.2208	2.3308	3.35E-18	3.72E-17	NUDCD1	NudC doma protein_co	8	1.09E+08	1.09E+08	-1	q23.1
ENSG00000135124	1.2202	2.3297	8.17E-12	5.35E-11	P2RX4	purinergic   protein_co	12	1.21E+08	1.21E+08	1	q24.31
ENSG00000069509	1.2198	2.3292	8.37E-25	1.65E-23	FUNDC1	FUN14 don protein_co X		44523639	44543001	-1	p11.3
ENSG00000233927	1.2198	2.3291	1.33E-13	1.02E-12	RPS28	ribosomal   protein_co	19	8321158	8323340	1	p13.2
ENSG00000259264	1.2195	2.3287	0.0001	0.0005	RP11-60L3.1	antisense	15	74202705	74221557	1	q24.1
ENSG00000233184	1.2193	2.3284	3.03E-11	1.89E-10	RP11-421L21.3	antisense	1	1.01E+08	1.01E+08	1	p21.2
ENSG00000137767	1.2188	2.3275	3.84E-44	5.36E-42	SQRDL	sulfide quir protein_co	15	45631148	45691294	1	q21.1
ENSG00000224897	1.2184	2.3268	0.0047	0.0117	POT1-AS1	POT1 antis antisense	7	1.25E+08	1.25E+08	1	q31.33
ENSG00000072042	1.2182	2.3266	1.31E-21	1.97E-20	RDH11	retinol deh protein_co	14	67676801	67695814	-1	q24.1
ENSG00000171234	1.2181	2.3265	0.0002	0.0005	UGT2B7	UDP glucur protein_co	4	69051363	69112987	1	q13.2
ENSG00000186198	1.2178	2.3259	0.0173	0.0387	SLC51B	solute carri protein_co	15	65045370	65053396	1	q22.31
ENSG00000091483	1.2176	2.3256	5.91E-19	7.01E-18	FH	fumarate h protein_co	1	2.41E+08	2.42E+08	-1	q43
ENSG00000172366	1.2171	2.3249	1.59E-08	7.80E-08	FAM195A	family with protein_co	16	636817	648474	1	p13.3
ENSG00000254560	1.2172	2.3249	0.0145	0.0331	BBOX1-AS1	BBOX1 anti antisense	11	27047186	27220113	-1	p14.1
ENSG00000259305	1.2166	2.324	0.014	0.0319	ZHX1-C8orf76	ZHX1-C8orf protein_co	8	1.23E+08	1.23E+08	-1	q24.13
ENSG00000255435	1.2164	2.3236	0.0025	0.0066	RP11-770J1.3	antisense	11	1.19E+08	1.19E+08	-1	q23.3
ENSG00000125977	1.2158	2.3227	1.22E-46	2.26E-44	EIF2S2	eukaryotic protein_co	20	34088298	34112332	-1	q11.22
ENSG00000187837	1.2156	2.3223	6.33E-05	0.0002	HIST1H1C	histone clu. protein_co	6	26055787	26056428	-1	p22.2
ENSG00000143256	1.2142	2.3202	7.11E-34	3.30E-32	PFDN2	prefoldin s1 protein_co	1	1.61E+08	1.61E+08	-1	q23.3
ENSG00000233569	1.2143	2.3202	0.003	0.0078	RP11-500B12.1	lincRNA	9	1.18E+08	1.18E+08	1	q33.1
ENSG00000265190	1.214	2.3198	3.80E-20	4.98E-19	ANXA8	annexin A8 protein_co	10	47460162	47484158	-1	q11.22
ENSG00000184831	1.2135	2.3189	2.54E-05	8.99E-05	APOO	apolipopro protein_co X		23833353	23907934	-1	p22.11
ENSG00000090013	1.2131	2.3184	1.06E-06	4.38E-06	BLVRB	biliverdin r1 protein_co	19	40447789	40465840	-1	q13.2
ENSG00000131373	1.2128	2.3179	7.39E-11	4.49E-10	HACL1	2-hydroxya protein_co	3	15560704	15601831	-1	p25.1
ENSG00000257057	1.2123	2.317	0.0073	0.0177	C11orf97	chromoson lincRNA	11	94512581	94532123	1	q21
ENSG00000257588	1.2114	2.3157	0.0008	0.0024	RP11-469H8.6	antisense	12	49951512	49962924	-1	q13.12
ENSG00000133641	1.2109	2.3148	1.43E-18	1.63E-17	C12orf29	chromoson protein_co	12	88033846	88050160	1	q21.32

ENSG00000230118	1.2108	2.3146	0.0024	0.0063 AC092569.2	processed_	2	30746444	30746701	-1	p23.1
ENSG00000170231	1.2105	2.3142	0.0156	0.0354 FABP6	fatty acid b protein_co	5	1.6E+08	1.6E+08	1	q33.3
ENSG00000126067	1.2103	2.3139	2.97E-52	1.16E-49 PSMB2	proteasom protein_co	1	35599544	35641844	-1	p34.3
ENSG00000256269	1.2101	2.3136	1.56E-17	1.64E-16 HMBS	hydroxyme protein_co	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000104324	1.21	2.3133	1.62E-11	1.04E-10 CPQ	carboxypep protein_co	8	96645227	97149654	1	q22.1
ENSG00000214274	1.2099	2.3132	0.0037	0.0094 ANG	angiogenin protein_co	14	20684177	20698971	1	q11.2
ENSG00000111845	1.2093	2.3123	6.38E-21	8.94E-20 PAK1IP1	PAK1 inter; protein_co	6	10694695	10709782	1	p24.2
ENSG00000273328	1.209	2.3118	0.0005	0.0016 RP11-141M3.6	processed_	3	42809414	42908105	1	p22.1
ENSG00000074071	1.2088	2.3115	1.64E-27	4.16E-26 MRPS34	mitochond protein_co	16	1771890	1773155	-1	p13.3
ENSG00000143226	1.2085	2.3109	0.0051	0.0127 FCGR2A	Fc fragmen protein_co	1	1.62E+08	1.62E+08	1	q23.3
ENSG00000258590	1.2084	2.3108	0.0157	0.0355 NBEAP1	neurobead; transcribed	15	20657638	20688408	-1	q11.2
ENSG00000065548	1.208	2.3102	1.34E-24	2.59E-23 ZC3H15	zinc finger protein_co	2	1.86E+08	1.87E+08	1	q32.1
ENSG00000254024	1.2071	2.3087	0.0004	0.0012 KB-1562D12.1	antisense	8	1.01E+08	1.01E+08	-1	q22.3
ENSG00000145337	1.207	2.3086	3.69E-21	5.30E-20 PYURF	PIGY upstre protein_co	4	88520985	88523813	-1	q22.1
ENSG00000006042	1.2069	2.3085	5.98E-16	5.53E-15 TMEM98	transmemt protein_co	17	32927910	32945106	1	q11.2
ENSG00000232415	1.2069	2.3084	0.01	0.0237 CTB-51J22.1	antisense	7	74059576	74062284	-1	q11.23
ENSG00000130208	1.2067	2.3081	0.002	0.0054 APOC1	apolipopro protein_co	19	44914247	44919349	1	q13.32
ENSG00000138785	1.2065	2.3077	1.88E-23	3.29E-22 INTS12	integrator (protein_co	4	1.06E+08	1.06E+08	-1	q24
ENSG00000146386	1.2062	2.3073	1.06E-24	2.07E-23 ABRACL	ABRA C-ter protein_co	6	1.39E+08	1.39E+08	1	q24.1
ENSG00000197165	1.2061	2.3071	0.0009	0.0024 SULT1A2	sulfotransfi protein_co	16	28591943	28597109	-1	p11.2
ENSG00000228106	1.206	2.3069	1.65E-06	6.72E-06 RP11-452F19.3	lincRNA	1	2.23E+08	2.23E+08	1	q41
ENSG00000254842	1.2054	2.306	0.0049	0.0122 RP11-890B15.2	lincRNA	11	1.31E+08	1.31E+08	-1	q24.3
ENSG00000132744	1.2053	2.3059	0.0005	0.0016 ACY3	aspartoacy protein_co	11	67642555	67650659	-1	q13.2
ENSG00000236846	1.205	2.3053	0.0005	0.0016 RP11-239E10.2	lincRNA	1	2.23E+08	2.23E+08	1	q41
ENSG00000213609	1.2048	2.305	0.0014	0.0039 RP11-170M17.2	processed_	10	63902451	63903245	-1	q21.3
ENSG00000254670	1.2047	2.3048	0.0021	0.0057 CTC-497E21.3	lincRNA	11	13001090	13009159	-1	p15.3
ENSG00000180209	1.2039	2.3037	5.84E-05	0.0002 MYLPF	myosin ligh protein_co	16	30370934	30377991	1	p11.2
ENSG00000138449	1.2037	2.3033	4.61E-05	0.0002 SLC40A1	solute carri protein_co	2	1.9E+08	1.9E+08	-1	q32.2
ENSG00000116857	1.2036	2.3031	8.20E-34	3.79E-32 TMEM9	transmemt protein_co	1	2.01E+08	2.01E+08	-1	q32.1
ENSG00000108010	1.2035	2.303	4.65E-66	1.00E-62 GLRX3	glutaredoxi protein_co	10	1.3E+08	1.3E+08	1	q26.3
ENSG00000254967	1.2032	2.3025	4.25E-05	0.0001 RP11-680F20.6	antisense	11	1.26E+08	1.26E+08	1	q24.2
ENSG00000150628	1.2031	2.3024	0.0128	0.0294 SPATA4	spermatogi protein_co	4	1.76E+08	1.76E+08	-1	q34.2
ENSG00000102010	1.203	2.3022	0.0184	0.041 BMX	BMX non-r; protein_co X		15464246	15556529	1	p22.2
ENSG00000123975	1.202	2.3006	1.36E-14	1.13E-13 CKS2	CDC28 prot protein_co	9	89311198	89316703	1	q22.2
ENSG00000175416	1.202	2.3005	7.29E-13	5.24E-12 CLTB	clathrin, lig protein_co	5	1.76E+08	1.76E+08	-1	q35.2
ENSG00000117450	1.2016	2.3	7.34E-11	4.46E-10 PRDX1	peroxiredo protein_co	1	45511036	45523047	-1	p34.1
ENSG00000156958	1.2016	2.3	1.84E-10	1.08E-09 GALK2	galactokina protein_co	15	49155656	49367869	1	q21.1
ENSG00000101052	1.2016	2.2999	2.47E-06	9.84E-06 IFT52	intraflagell; protein_co	20	43590931	43647296	1	q13.12
ENSG00000023608	1.2012	2.2994	9.94E-20	1.26E-18 SNAPC1	small nucle protein_co	14	61762357	61796428	1	q23.2
ENSG00000120675	1.2011	2.2992	1.98E-36	1.21E-34 DNAJC15	DnaJ (Hsp4 protein_co	13	43023203	43114224	1	q14.11
ENSG00000146233	1.2008	2.2987	2.40E-09	1.28E-08 CYP39A1	cytochrom; protein_co	6	46549580	46652830	-1	p12.3

ENSG00000164120	1.2006	2.2984	1.53E-06	6.24E-06	HPGD	hydroxyprc protein_co	4	1.74E+08	1.75E+08	-1	q34.1
ENSG00000173465	1.2005	2.2982	5.50E-22	8.47E-21	SSSCA1	Sjogren syr protein_co	11	65570430	65573942	1	q13.1
ENSG00000149100	1.2001	2.2976	6.85E-23	1.13E-21	EIF3M	eukaryotic protein_co	11	32583798	32606262	1	p13
ENSG00000224371	1.1995	2.2966	0.0227	0.0496	RP11-235G24.1	lincRNA	6	1.61E+08	1.61E+08	-1	q26
ENSG00000103415	1.1994	2.2964	9.60E-38	7.02E-36	HMOX2	heme oxyg protein_co	16	4474690	4510347	1	p13.3
ENSG00000165898	1.1992	2.2961	1.51E-14	1.25E-13	ISCA2	iron-sulfur protein_co	14	74493720	74497106	1	q24.3
ENSG00000182093	1.199	2.2958	9.08E-06	3.38E-05	WRB	tryptophan protein_co	21	39380244	39428528	1	q22.2
ENSG00000103485	1.1989	2.2957	0.0041	0.0104	QPRT	quinolinate protein_co	16	29679008	29698699	1	p11.2
ENSG00000138413	1.1981	2.2943	9.26E-18	9.94E-17	IDH1	isocitrate d protein_co	2	2.08E+08	2.08E+08	-1	q34
ENSG00000108384	1.1978	2.2939	1.08E-15	9.74E-15	RAD51C	RAD51 par: protein_co	17	58692573	58735611	1	q22
ENSG00000184719	1.1978	2.2938	4.96E-11	3.06E-10	RNLS	renalase, F. protein_co	10	88273864	88584530	-1	q23.31
ENSG00000198157	1.1975	2.2935	4.28E-06	1.66E-05	HMGNS	high mobili protein_co X		81113701	81201942	-1	q21.1
ENSG00000124562	1.1974	2.2933	6.63E-28	1.73E-26	SNRPC	small nucle protein_co	6	34757406	34773794	1	p21.31
ENSG00000166922	1.1964	2.2917	0.0163	0.0367	SCG5	secretogra protein_co	15	32641676	32697098	1	q13.3
ENSG00000264230	1.196	2.291	4.46E-18	4.90E-17	ANXA8L1	annexin A8 protein_co	10	46375627	46537864	1	q11.22
ENSG00000150753	1.1957	2.2906	8.53E-31	2.90E-29	CCT5	chaperonin protein_co	5	10249921	10266412	1	p15.2
ENSG00000137720	1.1958	2.2906	1.14E-10	6.79E-10	C11orf1	chromoson protein_co	11	1.12E+08	1.12E+08	1	q23.1
ENSG00000172086	1.1954	2.2901	4.80E-16	4.49E-15	KRCC1	lysine-rich protein_co	2	88027205	88055729	-1	p11.2
ENSG00000138356	1.1954	2.29	0.0004	0.0013	AOX1	aldehyde o protein_co	2	2.01E+08	2.01E+08	1	q33.1
ENSG00000174720	1.1949	2.2893	1.97E-21	2.90E-20	LARP7	La ribonucl protein_co	4	1.13E+08	1.13E+08	1	q25
ENSG00000087302	1.1945	2.2887	3.74E-27	9.20E-26	C14orf166	chromoson protein_co	14	51989475	52010691	1	q22.1
ENSG00000129518	1.1945	2.2886	2.54E-21	3.73E-20	EAPP	E2F-associ protein_co	14	34515929	34539711	-1	q13.1
ENSG00000067064	1.1934	2.2869	7.64E-16	6.99E-15	IDI1	isopenteny protein_co	10	1039908	1049170	-1	p15.3
ENSG00000072849	1.1928	2.286	1.19E-25	2.55E-24	DERL2	derlin 2 [Sc protein_co	17	5471251	5486811	-1	p13.2
ENSG00000184374	1.1916	2.2841	0.007	0.0171	COLEC10	collectin su protein_co	8	1.19E+08	1.19E+08	1	q24.12
ENSG00000196859	1.1916	2.284	0.0001	0.0005	KRT39	keratin 39  protein_co	17	40958417	40966892	-1	q21.2
ENSG00000213707	1.1905	2.2823	0.0016	0.0044	HMGB1P10	high mobili processed_	22	26560526	26561088	1	q12.1
ENSG00000047936	1.1892	2.2803	0.0094	0.0223	ROS1	ROS proto- protein_co	6	1.17E+08	1.17E+08	-1	q22.1
ENSG00000166823	1.1891	2.2801	0.0007	0.002	MESP1	mesoderm protein_co	15	89748661	89751310	-1	q26.1
ENSG00000187601	1.189	2.28	7.41E-10	4.12E-09	MAGEH1	melanoma protein_co X		55452105	55453566	1	p11.21
ENSG00000145247	1.1885	2.2792	8.98E-21	1.24E-19	OCIAD2	OCIA doma protein_co	4	48885019	48906937	-1	p11
ENSG00000156928	1.1884	2.279	1.67E-37	1.18E-35	MALSU1	mitochondi protein_co	7	23298739	23311729	1	p15.3
ENSG00000168899	1.1884	2.2789	7.29E-09	3.70E-08	VAMP5	vesicle-assc protein_co	2	85584408	85593412	1	p11.2
ENSG00000128590	1.1882	2.2787	1.28E-06	5.26E-06	DNAJB9	DnaJ (Hsp4 protein_co	7	1.09E+08	1.09E+08	1	q31.1
ENSG00000106603	1.1875	2.2776	1.43E-19	1.78E-18	COA1	cytochrom protein_co	7	43608456	43729717	-1	p13
ENSG00000171530	1.1865	2.276	1.94E-17	2.03E-16	TBCA	tubulin folc protein_co	5	77691166	77868780	-1	q14.1
ENSG00000147687	1.1861	2.2754	6.22E-21	8.73E-20	TATDN1	TatD DNase protein_co	8	1.24E+08	1.25E+08	-1	q24.13
ENSG00000084207	1.1861	2.2753	8.93E-22	1.35E-20	GSTP1	glutathione protein_co	11	67583595	67586660	1	q13.2
ENSG00000165630	1.186	2.2753	5.42E-14	4.26E-13	PRPF18	pre-mRNA protein_co	10	13586927	13630868	1	p13
ENSG00000137434	1.1858	2.2749	0.018	0.0401	C6orf52	chromoson protein_co	6	10671418	10694797	-1	p24.2
ENSG00000111843	1.1854	2.2742	1.67E-26	3.88E-25	TMEM14C	transmemt protein_co	6	10722915	10731129	1	p24.2

ENSG00000272606	1.1851	2.2738	0.0013	0.0037 RP11-554J4.1	antisense	2	55617909	55618373	1	p16.1
ENSG00000170954	1.1841	2.2721	1.58E-10	9.33E-10 ZNF415	zinc finger protein_co	19	53107879	53133077	-1	q13.42
ENSG00000249855	1.1836	2.2714	0.0012	0.0033 EEF1A1P19	eukaryotic processed_	5	43495073	43496454	-1	p12
ENSG00000177855	1.1828	2.2702	0.0039	0.0099 CACYBPP2	calcyclin bioprocesed_	2	1.84E+08	1.84E+08	-1	q32.1
ENSG00000110195	1.1826	2.2699	2.86E-05	0.0001 FOLR1	folate receptor protein_co	11	72189558	72196301	1	q13.4
ENSG00000154654	1.1824	2.2695	0.0138	0.0315 NCAM2	neural cell protein_co	21	20998315	21543329	1	q21.1
ENSG00000175354	1.1817	2.2684	3.85E-18	4.25E-17 PTPN2	protein tyrosine protein_co	18	12785478	12929643	-1	p11.21
ENSG00000184207	1.1816	2.2684	3.81E-17	3.88E-16 PGP	phosphoglycoprotein_co	16	2211997	2214807	-1	p13.3
ENSG00000196466	1.1817	2.2684	1.82E-05	6.54E-05 ZNF799	zinc finger protein_co	19	12390016	12401271	-1	p13.2
ENSG00000186132	1.1813	2.2679	2.52E-06	1.00E-05 C2orf76	chromosome protein_co	2	1.19E+08	1.19E+08	-1	q14.2
ENSG00000144741	1.1808	2.267	9.36E-26	2.03E-24 SLC25A26	solute carrier protein_co	3	66133610	66388116	1	p14.1
ENSG00000130772	1.1807	2.2668	8.26E-23	1.36E-21 MED18	mediator complex protein_co	1	28329002	28335967	1	p35.3
ENSG00000110060	1.1806	2.2668	2.14E-18	2.41E-17 PUS3	pseudouridine protein_co	11	1.26E+08	1.26E+08	-1	q24.2
ENSG00000102271	1.1807	2.2668	0.0049	0.0123 KLHL4	kelch-like family protein_co X		87517749	87670050	1	q21.31
ENSG00000177868	1.1791	2.2644	6.72E-19	7.91E-18 CCDC23	coiled-coil protein_co	1	42807052	42817252	-1	p34.2
ENSG00000198155	1.1784	2.2633	0.0006	0.0017 ZNF876P	zinc finger protein_transcribed	4	212610	255985	1	p16.3
ENSG00000096092	1.1777	2.2622	1.03E-17	1.11E-16 TMEM14A	transmembrane protein_co	6	52671109	52686588	1	p12.2
ENSG00000259494	1.1776	2.262	8.86E-14	6.85E-13 MRPL46	mitochondrial protein_co	15	88459476	88467419	-1	q25.3
ENSG00000198189	1.1771	2.2613	1.63E-13	1.23E-12 HSD17B11	hydroxysteroid protein_co	4	87336610	87391386	-1	q22.1
ENSG00000187608	1.1771	2.2612	7.11E-05	0.0002 ISG15	ISG15 ubiquitin protein_co	1	1001138	1014541	1	p36.33
ENSG00000251396	1.177	2.2611	0.0186	0.0414 LINC01301	long intergenic lincRNA	8	60384588	60516795	-1	q12.1
ENSG00000184178	1.1769	2.261	1.99E-19	2.45E-18 SCFD2	sec1 family protein_co	4	52872982	53366075	-1	q12
ENSG00000146540	1.1764	2.2602	1.51E-24	2.90E-23 C7orf50	chromosome protein_co	7	996986	1138260	-1	p22.3
ENSG00000149547	1.1763	2.26	1.15E-32	4.68E-31 EI24	etoposide inhibitor protein_co	11	1.26E+08	1.26E+08	1	q24.2
ENSG00000104412	1.1761	2.2596	7.38E-19	8.66E-18 EMC2	ER membrane protein_co	8	1.08E+08	1.08E+08	1	q23.1
ENSG00000087495	1.1753	2.2584	0.0023	0.0061 PHACTR3	phosphatase protein_co	20	59577509	59847711	1	q13.32
ENSG00000085231	1.1739	2.2562	2.02E-13	1.51E-12 TAF9	TAF9 RNA polymerase protein_co	5	69350984	69370013	-1	q13.2
ENSG00000259146	1.1736	2.2558	0.0103	0.0242 RP1-261D10.2	antisense	14	71292729	71321814	-1	q24.2
ENSG00000163468	1.1732	2.2552	1.46E-24	2.80E-23 CCT3	chaperonin protein_co	1	1.56E+08	1.56E+08	-1	q22
ENSG00000109917	1.173	2.2548	1.40E-36	8.70E-35 ZPR1	ZPR1 zinc finger protein_co	11	1.17E+08	1.17E+08	-1	q23.3
ENSG00000152611	1.1729	2.2547	0.0223	0.0487 CAPSL	calcyphosin protein_co	5	35904295	35938779	-1	p13.2
ENSG00000137955	1.1727	2.2543	1.16E-18	1.34E-17 RABGGTB	Rab geranyl protein_co	1	75786197	75795079	1	p31.1
ENSG00000232485	1.1715	2.2525	0.0072	0.0175 AC098820.3	processed_	2	2.16E+08	2.16E+08	-1	q35
ENSG00000225648	1.1714	2.2524	4.52E-09	2.34E-08 SBDSP1	Shwachman-Bodian-Diamond transcribed	7	72829425	72836701	1	q11.23
ENSG00000225265	1.1713	2.2522	1.23E-06	5.06E-06 TAF1A-AS1	TAF1A antisense	1	2.23E+08	2.23E+08	1	q41
ENSG00000143486	1.1713	2.2521	6.98E-14	5.45E-13 EIF2D	eukaryotic protein_co	1	2.07E+08	2.07E+08	-1	q32.1
ENSG00000110871	1.1713	2.2521	2.22E-11	1.41E-10 COQ5	coenzyme Q protein_co	12	1.21E+08	1.21E+08	-1	q24.31
ENSG00000265943	1.1711	2.2518	0.0071	0.0172 RP11-739L10.1	antisense	18	22699481	22933764	-1	q11.2
ENSG00000267106	1.1705	2.2509	1.44E-13	1.10E-12 ZNF561-AS1	ZNF561 antisense processed_	19	9621291	9645896	1	p13.2
ENSG00000120656	1.1703	2.2506	1.92E-24	3.64E-23 TAF12	TAF12 RNA polymerase protein_co	1	28589323	28643085	-1	p35.3
ENSG00000081041	1.1699	2.2499	0.0049	0.0122 CXCL2	chemokine protein_co	4	74097035	74099293	-1	q13.3



ENSG00000189042	1.1697	2.2497	1.28E-14	1.06E-13	ZNF567	zinc finger  protein_co	19	36687612	36727701	1	q13.12
ENSG00000158825	1.1691	2.2487	0.009	0.0214	CDA	cytidine de protein_co	1	20588948	20618908	1	p36.12
ENSG00000259354	1.1689	2.2483	3.22E-05	0.0001	RP11-519G16.3	antisense	15	45448427	45513767	1	q21.1
ENSG00000119714	1.1685	2.2478	0.0026	0.0069	GPR68	G protein-c protein_co	14	91232532	91253925	-1	q32.11
ENSG00000101850	1.1682	2.2474	1.91E-09	1.02E-08	GPR143	G protein-c protein_co X		9725346	9786297	-1	p22.2
ENSG00000136122	1.1671	2.2456	2.72E-11	1.71E-10	BORA	bora, auror protein_co	13	72727749	72756198	1	q21.33
ENSG00000156587	1.1671	2.2455	6.04E-36	3.45E-34	UBE2L6	ubiquitin-c protein_co	11	57551656	57568284	-1	q12.1
ENSG00000136783	1.1669	2.2453	2.98E-17	3.06E-16	NIPSNAP3A	nipsnap ho protein_co	9	1.05E+08	1.05E+08	1	q31.1
ENSG00000269893	1.1668	2.2451	3.41E-11	2.13E-10	SNHG8	small nucle lincRNA	4	1.18E+08	1.18E+08	1	q26
ENSG00000236039	1.1666	2.2448	1.02E-11	6.64E-11	AC019117.2	lincRNA	7	17434477	17460672	-1	p21.1
ENSG00000187736	1.1648	2.2421	0.0181	0.0403	NHEJ1	nonhomolc protein_co	2	2.19E+08	2.19E+08	-1	q35
ENSG00000255508	1.1647	2.2419	0.021	0.0461	MIR3654	microRNA :protein_co	11	62559603	62591531	-1	q12.3
ENSG00000162631	1.1643	2.2412	0.0042	0.0106	NTNG1	netrin G1 [!protein_co	1	1.07E+08	1.07E+08	1	p13.3
ENSG00000250237	1.1643	2.2412	0.0082	0.0196	CTC-498J12.1	lincRNA	5	69038518	69043821	-1	q13.1
ENSG00000186832	1.1641	2.2409	0.007	0.0171	KRT16	keratin 16  protein_co	17	41609778	41615899	-1	q21.2
ENSG00000137842	1.1637	2.2402	2.80E-22	4.40E-21	TMEM62	transmemt protein_co	15	43123279	43185146	1	q15.2
ENSG00000156261	1.1635	2.24	3.25E-30	1.06E-28	CCT8	chaperonin protein_co	21	29055805	29073797	-1	q21.3
ENSG00000088970	1.1632	2.2395	7.00E-21	9.79E-20	KIZ	kizuna cent protein_co	20	21125983	21246622	1	p11.23
ENSG00000118705	1.1628	2.2389	5.16E-19	6.14E-18	RPN2	ribophorin protein_co	20	37178410	37241623	1	q11.23
ENSG00000158473	1.1626	2.2387	0.0172	0.0385	CD1D	CD1d mole protein_co	1	1.58E+08	1.58E+08	1	q23.1
ENSG00000170745	1.1624	2.2382	1.26E-17	1.34E-16	KCNS3	potassium  protein_co	2	17877847	18361616	1	p24.2
ENSG00000164647	1.1618	2.2373	1.33E-13	1.02E-12	STEAP1	six transme protein_co	7	90154375	90164829	1	q21.13
ENSG00000136045	1.1616	2.2371	1.75E-25	3.67E-24	PWP1	PWP1 hom protein_co	12	1.08E+08	1.08E+08	1	q23.3
ENSG00000182154	1.1614	2.2367	7.02E-17	7.03E-16	MRPL41	mitochondi protein_co	9	1.38E+08	1.38E+08	1	q34.3
ENSG00000230266	1.1614	2.2367	0.0134	0.0308	XXYLT1-AS2	XXYLT1 ant antisense	3	1.95E+08	1.95E+08	1	q29
ENSG00000103035	1.1609	2.2359	1.23E-40	1.24E-38	PSMD7	proteasom protein_co	16	74296775	74306288	1	q23.1
ENSG00000204253	1.1608	2.2358	0.0009	0.0027	HNRNPCP2	heterogene processed_	2	1.9E+08	1.9E+08	1	q32.2
ENSG00000185808	1.1608	2.2357	3.12E-17	3.20E-16	PIGP	phosphatid protein_co	21	37059170	37073170	-1	q22.13
ENSG00000111653	1.1606	2.2355	1.10E-18	1.27E-17	ING4	inhibitor of protein_co	12	6650280	6663148	-1	p13.31
ENSG00000225663	1.1605	2.2354	9.28E-29	2.63E-27	FAM195B	family with protein_co	17	81822361	81833302	-1	q25.3
ENSG00000125458	1.1603	2.2351	5.69E-15	4.84E-14	NT5C	5', 3'-nucle protein_co	17	75130225	75131795	-1	q25.1
ENSG00000153140	1.1602	2.235	2.83E-12	1.93E-11	CETN3	centrin, EF- protein_co	5	90392261	90409786	-1	q14.3
ENSG00000172331	1.16	2.2345	4.65E-06	1.79E-05	BPGM	2,3-bispho: protein_co	7	1.35E+08	1.35E+08	1	q33
ENSG00000148187	1.1599	2.2344	1.89E-16	1.83E-15	MRRF	mitochondi protein_co	9	1.22E+08	1.22E+08	1	q33.2
ENSG00000211772	1.1597	2.2341	0.0162	0.0366	TRBC2	T cell recep TR_C_gene	7	1.43E+08	1.43E+08	1	q34
ENSG00000210135	1.1592	2.2333	0.0085	0.0203	MT-TN	mitochondi Mt_tRNA MT		5657	5729	-1	
ENSG00000170956	1.1588	2.2327	0.0221	0.0483	CEACAM3	carcinoeml protein_co	19	41796437	41811553	1	q13.2
ENSG00000101247	1.1585	2.2323	1.27E-17	1.34E-16	NDUFAF5	NADH dehy protein_co	20	13784950	13821582	1	p12.1
ENSG00000113407	1.1583	2.232	2.45E-29	7.32E-28	TARS	threonyl-tR protein_co	5	33440696	33469539	1	p13.3
ENSG00000221821	1.1579	2.2314	1.23E-08	6.13E-08	C6orf226	chromoson protein_co	6	42890265	42890816	-1	p21.1
ENSG00000170291	1.1578	2.2312	1.19E-16	1.16E-15	ELP5	elongator a protein_co	17	7251416	7259940	1	p13.1

ENSG00000177971	1.1578	2.2311	1.25E-16	1.22E-15	IMP3	IMP3, U3 si protein_co	15	75639085	75648706	-1	q24.2
ENSG00000214199	1.1576	2.2308	0.003	0.0078	EEF1A1P12	eukaryotic processed_	2	1.07E+08	1.07E+08	-1	q12.2
ENSG00000268516	1.1571	2.2301	7.67E-07	3.23E-06	CTD-3138B18.5	antisense	19	58257270	58278808	-1	q13.43
ENSG00000101844	1.1569	2.2297	5.86E-31	2.02E-29	ATG4A	autophagy protein_co X		1.08E+08	1.08E+08		1 q22.3
ENSG00000137648	1.1561	2.2285	1.06E-13	8.15E-13	TMPRSS4	transmemt protein_co	11	1.18E+08	1.18E+08		1 q23.3
ENSG00000065518	1.1559	2.2282	1.54E-25	3.25E-24	NDUFB4	NADH dehy protein_co	3	1.21E+08	1.21E+08		1 q13.33
ENSG00000020426	1.1557	2.2279	1.85E-25	3.89E-24	MNAT1	MNAT CDK protein_co	14	60734742	60969953		1 q23.1
ENSG00000143450	1.1556	2.2278	0.0001	0.0004	OAZ3	ornithine d protein_co	1	1.52E+08	1.52E+08		1 q21.3
ENSG00000151632	1.1553	2.2273	2.45E-07	1.08E-06	AKR1C2	aldo-keto r protein_co	10	4922564	5135226	-1	p15.1
ENSG00000136682	1.1552	2.2272	1.12E-21	1.68E-20	CBWD2	COBW dom protein_co	2	1.13E+08	1.13E+08		1 q14.1
ENSG00000163882	1.1543	2.2258	1.95E-35	1.07E-33	POLR2H	polymerase protein_co	3	1.84E+08	1.84E+08		1 q27.1
ENSG00000169750	1.1543	2.2257	8.24E-05	0.0003	RAC3	ras-related protein_co	17	82031624	82034204		1 q25.3
ENSG00000166394	1.1539	2.2252	1.27E-15	1.14E-14	CYB5R2	cytochrome protein_co	11	7665100	7677222	-1	p15.4
ENSG00000149591	1.1539	2.2252	0.0211	0.0464	TAGLN	transgelin [ protein_co	11	1.17E+08	1.17E+08		1 q23.3
ENSG00000110944	1.153	2.2238	6.22E-05	0.0002	IL23A	interleukin protein_co	12	56334174	56340410		1 q13.3
ENSG00000054148	1.1525	2.223	3.44E-32	1.33E-30	PHPT1	phosphohis protein_co	9	1.37E+08	1.37E+08		1 q34.3
ENSG00000010278	1.1524	2.2229	4.12E-07	1.78E-06	CD9	CD9 moleci protein_co	12	6199715	6238271		1 p13.31
ENSG00000109846	1.1524	2.2229	0.0003	0.0009	CRYAB	crystallin, a protein_co	11	1.12E+08	1.12E+08	-1	q23.1
ENSG00000116251	1.1523	2.2226	3.47E-12	2.35E-11	RPL22	ribosomal p protein_co	1	6181269	6209389	-1	p36.31
ENSG00000163541	1.152	2.2222	2.46E-20	3.26E-19	SUCLG1	succinate-C protein_co	2	84423523	84460045	-1	p11.2
ENSG00000146147	1.1513	2.2212	0.0168	0.0378	MLIP	muscular lI protein_co	6	53929982	54266280		1 p12.1
ENSG00000128463	1.1512	2.221	1.98E-29	6.00E-28	EMC4	ER membra protein_co	15	34224999	34230156		1 q14
ENSG00000117475	1.1503	2.2196	5.85E-16	5.41E-15	BLZF1	basic leucir protein_co	1	1.69E+08	1.69E+08		1 q24.2
ENSG00000196290	1.1501	2.2193	3.11E-19	3.78E-18	NIF3L1	NIF3 NGG1 protein_co	2	2.01E+08	2.01E+08		1 q33.1
ENSG00000267185	1.1499	2.2189	0.0191	0.0423	PTP4A2P1	protein tyri processed_	17	42533532	42534009		1 q21.2
ENSG00000116661	1.1496	2.2185	2.40E-05	8.51E-05	FBXO2	F-box prote protein_co	1	11648367	11655785	-1	p36.22
ENSG00000159885	1.1493	2.2181	4.27E-07	1.84E-06	ZNF222	zinc finger   protein_co	19	44025342	44033112		1 q13.31
ENSG00000134291	1.1492	2.2179	1.90E-18	2.14E-17	TMEM106C	transmemt protein_co	12	47963569	47968878		1 q13.11
ENSG00000111832	1.1488	2.2174	2.79E-21	4.07E-20	RWDD1	RWD doma protein_co	6	1.17E+08	1.17E+08		1 q22.1
ENSG00000155115	1.1484	2.2167	6.39E-37	4.22E-35	GTF3C6	general tra protein_co	6	1.11E+08	1.11E+08		1 q21
ENSG00000117410	1.1473	2.215	1.91E-40	1.88E-38	ATP6V0B	ATPase, H+ protein_co	1	43974487	43978295		1 p34.1
ENSG00000162961	1.1473	2.215	1.37E-06	5.60E-06	DPY30	dpy-30 hon protein_co	2	31867809	32039812	-1	p22.3
ENSG00000214954	1.1472	2.2149	0.0033	0.0086	LRRC69	leucine rich protein_co	8	91101832	91219236		1 q21.3
ENSG00000082515	1.1472	2.2148	2.92E-18	3.25E-17	MRPL22	mitochondi protein_co	5	1.55E+08	1.55E+08		1 q33.2
ENSG00000166352	1.1472	2.2148	0.0018	0.0049	C11orf74	chromoson protein_co	11	36594493	36659290		1 p12
ENSG00000138378	1.147	2.2145	2.25E-05	8.01E-05	STAT4	signal trans protein_co	2	1.91E+08	1.91E+08	-1	q32.3
ENSG00000179933	1.1467	2.2141	1.24E-31	4.60E-30	C14orf119	chromoson protein_co	14	23094765	23100462		1 q11.2
ENSG00000073605	1.1467	2.2141	6.02E-18	6.56E-17	GSDMB	gasdermin protein_co	17	39904595	39919854	-1	q21.1
ENSG00000139547	1.1466	2.2139	0.0086	0.0206	RDH16	retinol deh protein_co	12	56951431	56959374	-1	q13.3
ENSG00000175854	1.1465	2.2137	7.92E-14	6.15E-13	SWI5	SWI5 recon protein_co	9	1.28E+08	1.28E+08		1 q34.11
ENSG00000131634	1.1463	2.2135	0.003	0.0079	TMEM204	transmemt protein_co	16	1528688	1555580		1 p13.3



ENSG00000085274	1.1461	2.2132	6.49E-16	5.97E-15 MYNN	myoneurin protein_co	3	1.7E+08	1.7E+08	1 q26.2
ENSG00000123562	1.1461	2.2131	4.17E-20	5.45E-19 MORF4L2	mortality factor protein_co X		1.04E+08	1.04E+08	-1 q22.2
ENSG00000120805	1.1455	2.2123	2.48E-28	6.80E-27 ARL1	ADP-ribosyl protein_co	12	1.01E+08	1.01E+08	-1 q23.2
ENSG00000125652	1.1455	2.2123	6.05E-13	4.39E-12 ALKBH7	alkB, alkylated protein_co	19	6372433	6375251	1 p13.3
ENSG00000122641	1.1455	2.2123	0.0072	0.0175 INHBA	inhibin, beta protein_co	7	41685114	41703108	-1 p14.1
ENSG00000132423	1.1454	2.2121	4.72E-12	3.17E-11 COQ3	coenzyme Q protein_co	6	99369400	99394204	-1 q16.2
ENSG00000235269	1.1451	2.2116	3.23E-05	0.0001 AL162759.1	lincRNA	14	53768942	53850882	-1 q22.2
ENSG00000109536	1.1449	2.2113	4.33E-16	4.06E-15 FRG1	FSHD region protein_co	4	1.9E+08	1.9E+08	1 q35.2
ENSG00000244137	1.1449	2.2113	0.0172	0.0385 RP11-99J16__A.2	antisense	1	2.31E+08	2.31E+08	-1 q42.2
ENSG00000088727	1.1448	2.2111	0.0074	0.018 KIF9	kinesin family protein_co	3	47228026	47283451	-1 p21.31
ENSG00000242071	1.1438	2.2097	1.57E-05	5.70E-05 RPL7AP6	ribosomal protein processed	14	69885340	69886140	-1 q24.2
ENSG00000164022	1.1422	2.2072	1.30E-19	1.63E-18 AIMP1	aminoacyl-tRNA protein_co	4	1.06E+08	1.06E+08	1 q24
ENSG00000123737	1.142	2.2068	8.41E-24	1.51E-22 EXOSC9	exosome component protein_co	4	1.22E+08	1.22E+08	1 q27
ENSG00000070669	1.1417	2.2064	2.38E-13	1.78E-12 ASNS	asparagine protein_co	7	97852118	97872542	-1 q21.3
ENSG00000109519	1.1413	2.2058	6.44E-42	7.37E-40 GRPEL1	GrpE-like 1 protein_co	4	7058906	7068197	-1 p16.1
ENSG00000178127	1.1407	2.2048	0.0014	0.004 NDUFB2	NADH dehydrogenase protein_co	18	9102630	9134345	1 p11.22
ENSG00000170899	1.14	2.2039	8.75E-06	3.26E-05 GSTA4	glutathione protein_co	6	52977948	52995378	-1 p12.2
ENSG00000259781	1.14	2.2037	1.84E-10	1.08E-09 RP11-673C5.1	processed	15	71164770	71165415	-1 q23
ENSG00000129151	1.1399	2.2036	8.08E-07	3.40E-06 BBOX1	butyrobeta protein_co	11	27040725	27127809	1 p14.2
ENSG00000128534	1.1397	2.2033	1.80E-14	1.47E-13 LSM8	LSM8 homolog protein_co	7	1.18E+08	1.18E+08	1 q31.31
ENSG00000166743	1.1396	2.2031	0.0072	0.0174 ACSM1	acyl-CoA synthase protein_co	16	20623237	20698890	-1 p12.3
ENSG00000164305	1.139	2.2023	3.76E-22	5.84E-21 CASP3	caspase 3, isoform protein_co	4	1.85E+08	1.85E+08	-1 q35.1
ENSG00000155304	1.1384	2.2013	5.28E-07	2.26E-06 HSPA13	heat shock protein_co	21	14371115	14383484	-1 q11.2
ENSG00000087502	1.1381	2.2009	2.66E-15	2.32E-14 ERGIC2	ERGIC and protein_co	12	29337352	29381189	-1 p11.22
ENSG00000168569	1.1366	2.1987	1.60E-19	1.98E-18 TMEM223	transmembrane protein_co	11	62771629	62792021	-1 q12.3
ENSG00000136518	1.1366	2.1986	1.03E-19	1.30E-18 ACTL6A	actin-like 6 protein_co	3	1.8E+08	1.8E+08	1 q26.33
ENSG00000269899	1.1358	2.1974	6.64E-05	0.0002 RP11-589N15.2	sense_intronic	8	11846154	11846391	-1 p23.1
ENSG00000091947	1.1357	2.1973	1.17E-14	9.71E-14 TMEM101	transmembrane protein_co	17	44011188	44023946	-1 q21.31
ENSG00000237311	1.1357	2.1973	0.0093	0.0222 RP6-159A1.3	antisense X		65999751	66001071	1 q12
ENSG00000112667	1.1353	2.1966	1.74E-05	6.29E-05 DNPH1	2'-deoxyribose protein_co	6	43225629	43229484	-1 p21.1
ENSG00000162910	1.1352	2.1964	1.68E-22	2.70E-21 MRPL55	mitochondrial protein_co	1	2.28E+08	2.28E+08	-1 q42.13
ENSG00000154723	1.1351	2.1963	4.69E-27	1.15E-25 ATP5J	ATP synthase protein_co	21	25716503	25735673	-1 q21.3
ENSG00000253339	1.1348	2.1959	0.0008	0.0023 RP11-434I12.3	lincRNA	8	73358913	73362788	1 q21.11
ENSG00000169490	1.1346	2.1956	3.93E-17	4.01E-16 TM2D2	TM2 domain protein_co	8	38988808	38996824	-1 p11.22
ENSG00000155438	1.1342	2.195	1.59E-17	1.67E-16 NIFK	nucleolar protein_co	2	1.22E+08	1.22E+08	-1 q14.3
ENSG00000204220	1.134	2.1946	5.64E-30	1.79E-28 PFDN6	prefoldin subunit protein_co	6	33289302	33298401	1 p21.32
ENSG00000115816	1.1339	2.1945	1.44E-24	2.77E-23 CEBPZ	CCAAT/enhancer protein_co	2	37201612	37231713	-1 p22.2
ENSG00000111669	1.1337	2.1942	2.39E-23	4.11E-22 TPI1	triosephosphate protein_co	12	6867119	6870948	1 p13.31
ENSG00000188015	1.1337	2.1942	0.0005	0.0014 S100A3	S100 calcium protein_co	1	1.54E+08	1.54E+08	-1 q21.3
ENSG00000008324	1.1332	2.1935	1.55E-16	1.51E-15 SS18L2	synovial sarcoma protein_co	3	42581840	42595114	1 p22.1
ENSG00000135624	1.1325	2.1923	4.30E-21	6.13E-20 CCT7	chaperonin protein_co	2	73233420	73253021	1 p13.2

ENSG00000167526	1.1321	2.1918	2.38E-10	1.38E-09	RPL13	ribosomal $\beta$ protein_co	16	89560657	89566828	1	q24.3
ENSG00000198546	1.1321	2.1917	1.91E-09	1.02E-08	ZNF511	zinc finger $\beta$ protein_co	10	1.33E+08	1.33E+08	1	q26.3
ENSG00000271605	1.1312	2.1904	0.0002	0.0005	MILR1	mast cell in protein_co	17	64449037	64468643	1	q23.3
ENSG00000108651	1.1311	2.1902	5.58E-26	1.23E-24	UTP6	UTP6, smal protein_co	17	31860899	31901765	-1	q11.2
ENSG00000142089	1.1311	2.1902	4.77E-16	4.46E-15	IFITM3	interferon $\beta$ protein_co	11	319669	327537	-1	p15.5
ENSG00000176209	1.1309	2.19	2.35E-09	1.25E-08	SMIM19	small integ protein_co	8	42541155	42555193	1	p11.21
ENSG00000131050	1.1309	2.19	0.0213	0.0468	BPIFA2	BPI fold cor protein_co	20	33161768	33181412	1	q11.21
ENSG00000100632	1.1301	2.1888	3.33E-21	4.83E-20	ERH	enhancer o protein_co	14	69380123	69398627	-1	q24.1
ENSG00000134330	1.1298	2.1882	5.96E-21	8.38E-20	IAH1	isoamyl ace protein_co	2	9473658	9496543	1	p25.1
ENSG00000107949	1.1297	2.1881	1.01E-16	9.92E-16	BCCIP	BRCA2 and protein_co	10	1.26E+08	1.26E+08	1	q26.2
ENSG00000241764	1.1296	2.1881	4.40E-06	1.70E-05	AC002467.7	antisense	7	1.08E+08	1.08E+08	-1	q22.3
ENSG00000128891	1.1287	2.1866	1.51E-18	1.73E-17	C15orf57	chromoson protein_co	15	40528683	40565057	-1	q15.1
ENSG00000103254	1.1284	2.1861	8.71E-16	7.93E-15	FAM173A	family with protein_co	16	720581	722601	1	p13.3
ENSG00000158373	1.1279	2.1854	3.65E-11	2.27E-10	HIST1H2BD	histone clu. protein_co	6	26158146	26171349	1	p22.2
ENSG00000100577	1.1278	2.1853	4.24E-19	5.08E-18	GSTZ1	glutathione protein_co	14	77320884	77331597	1	q24.3
ENSG00000015475	1.1278	2.1852	1.81E-15	1.60E-14	BID	BH3 intera protein_co	22	17734138	17774770	-1	q11.21
ENSG00000178053	1.1277	2.1851	0.0065	0.0161	MLF1	myeloid lei protein_co	3	1.59E+08	1.59E+08	1	q25.32
ENSG00000197933	1.1275	2.1848	6.53E-14	5.11E-13	ZNF823	zinc finger $\beta$ protein_co	19	11721265	11739009	-1	p13.2
ENSG00000156256	1.1275	2.1847	7.90E-24	1.42E-22	USP16	ubiquitin s $\beta$ protein_co	21	29024629	29054488	1	q21.3
ENSG00000175841	1.1274	2.1847	0.0095	0.0225	FAM172BP	family with processed_	3	1.02E+08	1.02E+08	1	q12.3
ENSG00000223797	1.1274	2.1846	0.0003	0.0009	ENTPD3-AS1	ENTPD3 an antisense	3	40313802	40453329	-1	p22.1
ENSG00000270882	1.1257	2.1821	0.0028	0.0075	HIST2H4A	histone clu. protein_co	1	1.5E+08	1.5E+08	1	q21.2
ENSG00000197641	1.1254	2.1816	0.0017	0.0047	SERPINB13	serpin pept protein_co	18	63586989	63604639	1	q21.33
ENSG00000148303	1.1248	2.1807	6.25E-15	5.30E-14	RPL7A	ribosomal $\beta$ protein_co	9	1.33E+08	1.33E+08	1	q34.2
ENSG00000057608	1.1245	2.1803	6.95E-44	9.40E-42	GDI2	GDP dissoc protein_co	10	5765223	5842132	-1	p15.1
ENSG00000151665	1.1243	2.1799	5.50E-21	7.77E-20	PIGF	phosphatid protein_co	2	46580937	46617119	-1	p21
ENSG00000173457	1.124	2.1796	3.40E-24	6.34E-23	PPP1R14B	protein pho protein_co	11	64244480	64246941	-1	q13.1
ENSG00000136827	1.1239	2.1794	2.67E-23	4.59E-22	TOR1A	torsin famil protein_co	9	1.3E+08	1.3E+08	-1	q34.11
ENSG00000149089	1.1239	2.1794	3.27E-13	2.42E-12	APIP	APAF1 inte protein_co	11	34853094	34916499	-1	p13
ENSG00000134153	1.1236	2.1789	1.10E-37	7.92E-36	EMC7	ER membra protein_co	15	34084017	34101948	-1	q14
ENSG00000102144	1.1229	2.1779	1.81E-46	3.26E-44	PGK1	phosphogly protein_co X		78065188	78129296	1	q21.1
ENSG00000196839	1.1228	2.1777	8.33E-07	3.50E-06	ADA	adenosine $\beta$ protein_co	20	44619522	44652233	-1	q13.12
ENSG00000156110	1.1225	2.1772	3.43E-23	5.83E-22	ADK	adenosine $\beta$ protein_co	10	74151185	74709303	1	q22.2
ENSG00000163565	1.1218	2.1761	1.84E-29	5.60E-28	IFI16	interferon, protein_co	1	1.59E+08	1.59E+08	1	q23.1
ENSG00000130255	1.1211	2.1751	6.04E-13	4.38E-12	RPL36	ribosomal $\beta$ protein_co	19	5674947	5691876	1	p13.3
ENSG00000164751	1.1209	2.1748	3.95E-24	7.33E-23	PEX2	peroxisom $\alpha$ protein_co	8	76980258	77001044	-1	q21.13
ENSG00000105821	1.1207	2.1746	1.26E-37	9.03E-36	DNAJC2	DnaJ (Hsp4 protein_co	7	1.03E+08	1.03E+08	-1	q22.1
ENSG00000185862	1.1203	2.1739	0.0029	0.0076	EVI2B	ecotropic v protein_co	17	31303766	31314112	-1	q11.2
ENSG00000215548	1.1189	2.1718	0.004	0.0102	RP11-764K9.4	unprocesse	9	63832127	63859641	-1	q13
ENSG00000278817	1.1187	2.1716	0.0032	0.0082	DGCR6	DiGeorge s protein_co	KI270734.1	131494	137392	1	
ENSG00000167085	1.118	2.1705	2.21E-42	2.62E-40	PHB	prohibitin [ protein_co	17	49404049	49414905	-1	q21.33

ENSG00000113845	1.1179	2.1702	1.35E-33	5.97E-32	TIMMDC1	translocase protein_co	3	1.19E+08	1.2E+08	1	q13.33
ENSG00000215861	1.1174	2.1696	0.0009	0.0025	WI2-1896O14.1	unprocesse	1	1.49E+08	1.49E+08	-1	q21.2
ENSG00000196655	1.1172	2.1692	7.70E-27	1.85E-25	TRAPPC4	trafficking protein_co	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000253948	1.1171	2.1691	0.0222	0.0485	RP11-410L14.2	lincRNA	8	98996763	99013044	-1	q22.2
ENSG00000184432	1.1168	2.1687	2.24E-32	8.84E-31	COPB2	coatome $\epsilon$ protein_co	3	1.39E+08	1.39E+08	-1	q23
ENSG00000164117	1.1166	2.1684	1.10E-22	1.80E-21	FBXO8	F-box prote $\epsilon$ protein_co	4	1.74E+08	1.74E+08	-1	q34.1
ENSG00000135336	1.1166	2.1683	1.67E-19	2.06E-18	ORC3	origin reco $\epsilon$ protein_co	6	87590067	87667453	1	q15
ENSG00000105404	1.1161	2.1676	2.57E-19	3.14E-18	RABAC1	Rab accept protein_co	19	41956681	41959390	-1	q13.2
ENSG00000261652	1.1157	2.1671	9.33E-05	0.0003	C15orf65	chromoson protein_co	15	55408548	55418764	1	q21.3
ENSG00000132329	1.1153	2.1665	1.04E-07	4.75E-07	RAMP1	receptor (G protein_co	2	2.38E+08	2.38E+08	1	q37.3
ENSG00000196976	1.1143	2.1649	3.84E-13	2.82E-12	LAGE3	L antigen f $\alpha$ protein_co X	1	1.54E+08	1.54E+08	-1	q28
ENSG00000197021	1.1141	2.1646	1.68E-22	2.70E-21	CXorf40B	chromoson protein_co X	1	1.5E+08	1.5E+08	-1	q28
ENSG00000171204	1.1136	2.1639	3.62E-11	2.25E-10	TMEM126B	transmem $\epsilon$ protein_co	11	85628573	85636539	1	q14.1
ENSG00000233818	1.1127	2.1624	0.0101	0.0239	AP000695.4	antisense	21	36445731	36532408	1	q22.13
ENSG00000151332	1.1119	2.1613	6.91E-13	4.98E-12	MBIP	MAP3K12 t $\epsilon$ protein_co	14	36298558	36320676	-1	q13.3
ENSG00000105640	1.1118	2.1612	4.14E-12	2.79E-11	RPL18A	ribosomal t $\epsilon$ protein_co	19	17859876	17864153	1	p13.11
ENSG00000129197	1.1117	2.1611	2.74E-24	5.15E-23	RPAIN	RPA interac protein_co	17	5419641	5432876	1	p13.2
ENSG00000102390	1.1108	2.1596	2.53E-20	3.35E-19	PBDC1	polysaccha protein_co X	1	76172936	76178204	1	q13.3
ENSG00000196511	1.1103	2.159	1.37E-10	8.08E-10	TPK1	thiamin py $\epsilon$ protein_co	7	1.44E+08	1.45E+08	-1	q35
ENSG00000237187	1.1102	2.1588	0.0006	0.0019	NR2F1-AS1	NR2F1 anti antisense	5	93409359	93585648	-1	q15
ENSG00000112981	1.1102	2.1587	0.0099	0.0235	NME5	NME/NM2: protein_co	5	1.38E+08	1.38E+08	-1	q31.2
ENSG00000171428	1.1101	2.1585	7.70E-05	0.0003	NAT1	N-acetyltra protein_co	8	18170477	18223689	1	p22
ENSG00000080824	1.1096	2.1578	7.88E-09	3.98E-08	HSP90AA1	heat shock protein_co	14	1.02E+08	1.02E+08	-1	q32.31
ENSG00000181924	1.1095	2.1577	5.83E-36	3.36E-34	COA4	cytochrom $\epsilon$ protein_co	11	73872667	73876988	-1	q13.4
ENSG00000170791	1.1092	2.1573	1.84E-13	1.39E-12	CHCHD7	coiled-coil- protein_co	8	56211686	56218798	1	q12.1
ENSG00000162384	1.1089	2.1569	2.67E-19	3.25E-18	C1orf123	chromoson protein_co	1	53214099	53220617	-1	p32.3
ENSG00000237685	1.1088	2.1567	0.0102	0.0241	RP11-360O19.4	antisense	6	10511036	10514546	-1	p24.3
ENSG00000165678	1.1083	2.1559	2.20E-31	7.95E-30	GHITM	growth hor protein_co	10	84139429	84153555	1	q23.1
ENSG00000150459	1.1082	2.1558	2.79E-21	4.07E-20	SAP18	Sin3A-asso $\epsilon$ protein_co	13	21140514	21149084	1	q12.11
ENSG00000225200	1.108	2.1555	0.0227	0.0495	AB019441.29	processed_	14	1.06E+08	1.06E+08	-1	q32.33
ENSG00000215375	1.108	2.1554	6.69E-09	3.41E-08	MYL5	myosin, ligl protein_co	4	673580	682033	1	p16.3
ENSG00000164484	1.1074	2.1546	0.0195	0.0431	TMEM200A	transmem $\epsilon$ protein_co	6	1.3E+08	1.3E+08	1	q23.1
ENSG00000253320	1.1074	2.1545	0.0035	0.0091	KB-1507C5.2	antisense	8	1.03E+08	1.03E+08	1	q22.3
ENSG00000131143	1.1072	2.1543	1.04E-15	9.34E-15	COX4I1	cytochrom $\epsilon$ protein_co	16	85798633	85807044	1	q24.1
ENSG00000196502	1.1072	2.1543	8.38E-13	5.99E-12	SULT1A1	sulfotransf $\epsilon$ protein_co	16	28605196	28623625	-1	p11.2
ENSG00000149600	1.107	2.154	3.36E-36	1.99E-34	COMMD7	COMM dor protein_co	20	32702691	32743997	-1	q11.21
ENSG00000000419	1.107	2.154	2.76E-18	3.09E-17	DPM1	dolichyl-ph protein_co	20	50934867	50958555	-1	q13.13
ENSG00000134258	1.107	2.154	3.08E-15	2.67E-14	VTCN1	V-set doma $\epsilon$ protein_co	1	1.17E+08	1.17E+08	-1	p12
ENSG00000102802	1.1068	2.1537	0.004	0.0101	MEDAG	mesenteric protein_co	13	30906191	30925572	1	q12.3
ENSG00000206228	1.1068	2.1536	3.18E-06	1.25E-05	HNRNPA1P4	heterogene processed_	8	82291624	82292379	-1	q21.13
ENSG00000114209	1.1063	2.1529	1.22E-16	1.19E-15	PDCD10	programm $\epsilon$ protein_co	3	1.68E+08	1.68E+08	-1	q26.1

ENSG00000137074	1.1061	2.1526	9.62E-27	2.30E-25	APTX	aprataxin [∓:protein_co	9	32972606	33025168	-1	p21.1
ENSG00000117069	1.1059	2.1523	0.0071	0.0173	ST6GALNAC5	ST6 (alpha-protein_co	1	76867441	77065711	1	p31.1
ENSG00000278845	1.1049	2.1508	3.89E-16	3.66E-15	MRPL45	mitochondr protein_co	17	38297023	38323218	1	q12
ENSG00000095485	1.1041	2.1496	5.02E-16	4.68E-15	CWF19L1	CWF19-like protein_co	10	1E+08	1E+08	-1	q24.31
ENSG00000109861	1.1039	2.1494	1.34E-09	7.30E-09	CTSC	cathepsin C protein_co	11	88293592	88337787	-1	q14.2
ENSG00000239213	1.1037	2.149	1.56E-05	5.66E-05	NCK1-AS1	NCK1 antisense	3	1.37E+08	1.37E+08	-1	q22.3
ENSG00000086061	1.1034	2.1486	4.63E-25	9.37E-24	DNAJA1	DnaJ (Hsp4 protein_co	9	33025211	33039907	1	p21.1
ENSG00000213719	1.1033	2.1484	5.53E-24	1.02E-22	CLIC1	chloride int protein_co	6	31730581	31739763	-1	p21.33
ENSG00000161281	1.1032	2.1484	0.0184	0.0411	COX7A1	cytochrome protein_co	19	36150922	36152869	-1	q13.12
ENSG00000101365	1.103	2.1479	8.43E-16	7.69E-15	IDH3B	isocitrate d protein_co	20	2658395	2664219	-1	p13
ENSG00000125257	1.1029	2.1479	0.0001	0.0004	ABCC4	ATP-binding protein_co	13	95019829	95301433	-1	q32.1
ENSG00000165188	1.1028	2.1477	5.41E-05	0.0002	RNF183	ring finger protein_co	9	1.13E+08	1.13E+08	-1	q32
ENSG00000204922	1.1018	2.1462	1.67E-10	9.80E-10	UQCC3	ubiquinol-c protein_co	11	62670273	62673687	1	q12.3
ENSG00000129055	1.1017	2.1461	3.44E-29	1.01E-27	ANAPC13	anaphase p protein_co	3	1.34E+08	1.34E+08	-1	q22.2
ENSG00000241127	1.0996	2.143	3.89E-15	3.35E-14	YAE1D1	Yae1 domain protein_co	7	39566376	39610320	1	p14.1
ENSG00000197826	1.0995	2.1427	0.0222	0.0485	C4orf22	chromosom protein_co	4	80335720	80963756	1	q21.21
ENSG00000142892	1.0987	2.1417	1.29E-20	1.76E-19	PIGK	phosphatid protein_co	1	77088990	77219430	-1	p31.1
ENSG00000197894	1.0985	2.1414	3.07E-26	6.92E-25	ADH5	alcohol deH protein_co	4	99070978	99088801	-1	q23
ENSG00000089289	1.0985	2.1413	2.27E-10	1.32E-09	IGBP1	immunogl protein_co X		70133449	70166324	1	q13.1
ENSG00000188641	1.0981	2.1408	2.91E-12	1.98E-11	DPYD	dihydropyr protein_co	1	97077743	97921049	-1	p21.3
ENSG00000069764	1.098	2.1406	0.0002	0.0007	PLA2G10	phospholip protein_co	16	14672545	14694669	-1	p13.12
ENSG00000205323	1.0979	2.1404	0.0009	0.0024	SARNP	SAP domain protein_co	12	55752463	55817756	-1	q13.2
ENSG00000258512	1.0974	2.1397	0.0177	0.0395	LINC00239	long interg lincRNA	14	1.02E+08	1.02E+08	1	q32.31
ENSG00000117477	1.0971	2.1392	0.014	0.0321	CCDC181	coiled-coil protein_co	1	1.69E+08	1.69E+08	-1	q24.2
ENSG00000176386	1.0969	2.1389	6.84E-13	4.94E-12	CDC26	cell divisor protein_co	9	1.13E+08	1.13E+08	-1	q32
ENSG00000132967	1.0969	2.1389	1.80E-10	1.05E-09	HMGB1P5	high mobili transcribed	3	22381819	22382929	1	p24.3
ENSG00000063177	1.0959	2.1374	6.45E-11	3.93E-10	RPL18	ribosomal p protein_co	19	48615328	48619536	-1	q13.33
ENSG00000204920	1.0958	2.1373	8.25E-17	8.25E-16	ZNF155	zinc finger protein_co	19	43967862	43998325	1	q13.31
ENSG00000170855	1.0957	2.1372	1.33E-21	1.99E-20	TRIAP1	TP53 regul protein_co	12	1.2E+08	1.2E+08	-1	q24.31
ENSG00000115232	1.0957	2.1372	0.0228	0.0496	ITGA4	integrin, al protein_co	2	1.81E+08	1.82E+08	1	q31.3
ENSG00000132676	1.0953	2.1366	1.34E-25	2.84E-24	DAP3	death asso protein_co	1	1.56E+08	1.56E+08	1	q22
ENSG00000260000	1.0952	2.1365	0.001	0.0029	RP3-467N11.1	antisense	6	1.01E+08	1.01E+08	1	q16.3
ENSG00000112096	1.0952	2.1364	7.36E-07	3.11E-06	SOD2	superoxide protein_co	6	1.6E+08	1.6E+08	-1	q25.3
ENSG00000145781	1.0945	2.1354	5.81E-10	3.25E-09	COMMD10	COMM dor protein_co	5	1.16E+08	1.16E+08	1	q23.1
ENSG00000245067	1.0944	2.1353	0.003	0.0077	IGFBP7-AS1	IGFBP7 ant antisense	4	57109762	57205510	1	q12
ENSG00000132109	1.0939	2.1345	2.06E-26	4.74E-25	TRIM21	tripartite r protein_co	11	4384897	4393696	-1	p15.4
ENSG00000167840	1.0937	2.1342	1.49E-05	5.42E-05	ZNF232	zinc finger protein_co	17	5105541	5123116	-1	p13.2
ENSG00000092199	1.0929	2.1331	3.16E-26	7.11E-25	HNRNPC	heterogene protein_co	14	21209136	21269494	-1	q11.2
ENSG00000108958	1.0928	2.1329	0.0203	0.0447	AC016292.3	processed_	17	1858039	1858446	-1	p13.3
ENSG00000167165	1.0927	2.1328	4.00E-08	1.91E-07	UGT1A6	UDP glucur protein_co	2	2.34E+08	2.34E+08	1	q37.1
ENSG00000135241	1.0925	2.1324	1.08E-22	1.76E-21	PNPLA8	patatin-like protein_co	7	1.08E+08	1.09E+08	-1	q31.1

ENSG00000155918	1.0922	2.132	0.0098	0.0231 RAET1L	retinoic aci protein_co	6	1.5E+08	1.5E+08	-1 q25.1
ENSG00000233730	1.0919	2.1316	0.0227	0.0496 RP4-666F24.3	lincRNA	1	1.15E+08	1.15E+08	1 p13.2
ENSG00000175600	1.0916	2.1311	0.0063	0.0155 SUGCT	succinyl-Co protein_co	7	40134977	40860763	1 p14.1
ENSG00000204308	1.0914	2.1308	9.02E-19	1.05E-17 RNF5	ring finger protein_co	6	32178354	32180793	1 p21.32
ENSG00000005243	1.0912	2.1305	4.04E-08	1.92E-07 COPZ2	coatome r protein_co	17	48026167	48038030	-1 q21.32
ENSG00000106153	1.091	2.1301	3.01E-22	4.71E-21 CHCHD2	coiled-coil- protein_co	7	56101569	56106576	-1 p11.2
ENSG00000248008	1.0906	2.1296	0.0013	0.0036 DYNLL1-AS1	DYNLL1 ant antisense	12	1.2E+08	1.2E+08	-1 q24.31
ENSG00000132010	1.0906	2.1296	0.0145	0.0331 ZNF20	zinc finger protein_co	19	12092843	12140407	-1 p13.2
ENSG00000165092	1.0902	2.129	0.0006	0.0019 ALDH1A1	aldehyde d protein_co	9	72900662	73080442	-1 q21.13
ENSG00000159763	1.0898	2.1284	1.57E-05	5.70E-05 PIP	prolactin-ir protein_co	7	1.43E+08	1.43E+08	1 q34
ENSG00000147224	1.0893	2.1277	1.22E-12	8.61E-12 PRPS1	phosphorit protein_co X		1.08E+08	1.08E+08	1 q22.3
ENSG00000105254	1.0888	2.127	1.26E-33	5.62E-32 TBCB	tubulin folc protein_co	19	36114289	36125947	1 q13.12
ENSG00000123395	1.0887	2.1268	1.98E-26	4.58E-25 ATG101	autophagy protein_co	12	52069246	52077494	1 q13.13
ENSG00000226598	1.0884	2.1264	1.32E-08	6.54E-08 AC017060.1	lincRNA	7	17463445	17558909	-1 p21.1
ENSG00000146109	1.0876	2.1252	3.45E-19	4.17E-18 ABT1	activator of protein_co	6	26596952	26600744	1 p22.2
ENSG000000003147	1.0876	2.1252	2.75E-07	1.21E-06 ICA1	islet cell au protein_co	7	8113184	8262687	-1 p21.3
ENSG00000175197	1.0875	2.1251	1.04E-10	6.26E-10 DDIT3	DNA-dama; protein_co	12	57516588	57520517	-1 q13.3
ENSG00000164604	1.0875	2.1251	0.0002	0.0007 GPR85	G protein-c protein_co	7	1.13E+08	1.13E+08	-1 q31.1
ENSG00000142546	1.0872	2.1246	9.47E-22	1.43E-20 NOSIP	nitric oxide protein_co	19	49555711	49590262	-1 q13.33
ENSG00000165819	1.0853	2.1218	1.76E-24	3.34E-23 METTL3	methyltran protein_co	14	21498133	21511375	-1 q11.2
ENSG00000269968	1.0852	2.1216	0.0047	0.012 RP5-940J5.9	antisense	12	6537794	6538370	-1 p13.31
ENSG00000131931	1.0848	2.1211	1.34E-10	7.94E-10 THAP1	THAP dom; protein_co	8	42836674	42843325	-1 p11.21
ENSG00000138798	1.0841	2.12	0.001	0.0029 EGF	epidermal protein_co	4	1.1E+08	1.1E+08	1 q25
ENSG00000064961	1.0837	2.1195	2.49E-22	3.94E-21 HMG20B	high mobili protein_co	19	3572777	3579088	1 p13.3
ENSG00000213337	1.0834	2.119	6.46E-10	3.60E-09 ANKRD39	ankyrin rep protein_co	2	96836611	96858095	-1 q11.2
ENSG00000214401	1.0833	2.1188	0.0046	0.0116 KANSL1-AS1	KANSL1 ant antisense	17	46193576	46196723	1 q21.31
ENSG00000125445	1.0827	2.118	2.64E-31	9.42E-30 MRPS7	mitochondi protein_co	17	75261674	75266373	1 q25.1
ENSG00000161677	1.0826	2.1178	2.74E-06	1.08E-05 JOSD2	Josephin d; protein_co	19	50505998	50511353	-1 q13.33
ENSG00000105835	1.0823	2.1174	4.82E-16	4.49E-15 NAMPT	nicotinami protein_co	7	1.06E+08	1.06E+08	-1 q22.3
ENSG00000205981	1.0822	2.1173	7.19E-28	1.86E-26 DNAJC19	DnaJ (Hsp4 protein_co	3	1.81E+08	1.81E+08	-1 q26.33
ENSG00000100138	1.0821	2.1171	8.08E-27	1.94E-25 NHP2L1	NHP2 non-l protein_co	22	41673930	41690504	-1 q13.2
ENSG00000141428	1.082	2.117	1.78E-12	1.23E-11 C18orf21	chromoson protein_co	18	35972083	35979286	1 q12.2
ENSG00000122406	1.0815	2.1163	1.17E-11	7.57E-11 RPL5	ribosomal protein_co	1	92832025	92841924	1 p22.1
ENSG00000143499	1.0812	2.1157	6.00E-06	2.28E-05 SMYD2	SET and M protein_co	1	2.14E+08	2.14E+08	1 q32.3
ENSG00000178896	1.0808	2.1153	8.68E-19	1.02E-17 EXOSC4	exosome c; protein_co	8	1.44E+08	1.44E+08	1 q24.3
ENSG00000164111	1.0802	2.1143	2.44E-16	2.33E-15 ANXA5	annexin A5 protein_co	4	1.22E+08	1.22E+08	-1 q27
ENSG00000116586	1.0801	2.1142	9.19E-50	2.44E-47 LAMTOR2	late endosc protein_co	1	1.56E+08	1.56E+08	1 q22
ENSG00000256262	1.0801	2.1141	0.0009	0.0026 USP30-AS1	USP30 anti: antisense	12	1.09E+08	1.09E+08	-1 q24.11
ENSG00000013375	1.0793	2.1131	1.61E-15	1.43E-14 PGM3	phosphogl; protein_co	6	83161150	83193936	-1 q14.1
ENSG00000267809	1.0792	2.1129	1.79E-07	8.01E-07 NDUFV2P1	NADH dehy processed_	19	53223973	53224879	-1 q13.42
ENSG00000031698	1.0785	2.1119	4.12E-34	1.99E-32 SARS	seryl-tRNA protein_co	1	1.09E+08	1.09E+08	1 p13.3



ENSG00000235162	1.0782	2.1115	0.0038	0.0098 C12orf75	chromosom protein_co	12	1.05E+08	1.05E+08	1 q23.3
ENSG00000175792	1.0776	2.1106	0.0011	0.0031 RUVBL1	RuvB-like A protein_co	3	1.28E+08	1.28E+08	-1 q21.3
ENSG00000103978	1.0776	2.1105	4.86E-26	1.08E-24 TMEM87A	transmemt protein_co	15	42210452	42273663	-1 q15.1
ENSG00000152359	1.0776	2.1105	6.91E-09	3.51E-08 POC5	POC5 centr protein_co	5	75674124	75717481	-1 q13.3
ENSG00000238142	1.0766	2.109	5.88E-06	2.24E-05 RP11-108M9.4	lincRNA	1	16888538	16889649	-1 p36.13
ENSG00000112237	1.0761	2.1083	1.91E-11	1.22E-10 CCNC	cyclin C [So protein_co	6	99542380	99568973	-1 q16.2
ENSG00000169288	1.0759	2.1081	2.15E-14	1.75E-13 MRPL1	mitochond protein_co	4	77862520	77952790	1 q21.1
ENSG00000164294	1.0759	2.108	2.76E-07	1.21E-06 GPX8	glutathione protein_co	5	55160118	55167071	1 q11.2
ENSG00000172785	1.0754	2.1073	2.28E-16	2.19E-15 CBWD1	COBW dom protein_co	9	121038	179147	-1 p24.3
ENSG00000177627	1.0753	2.1071	0.0021	0.0056 C12orf54	chromosom protein_co	12	48482503	48496512	1 q13.11
ENSG00000116663	1.0749	2.1065	3.06E-08	1.47E-07 FBXO6	F-box prote protein_co	1	11664124	11674354	1 p36.22
ENSG00000108559	1.0742	2.1055	4.95E-32	1.89E-30 NUP88	nucleoporin protein_co	17	5360963	5420160	-1 p13.2
ENSG00000143727	1.0742	2.1055	9.70E-28	2.49E-26 ACP1	acid phosph protein_co	2	264140	278283	1 p25.3
ENSG00000127952	1.0742	2.1055	2.59E-08	1.25E-07 STYXL1	serine/thre protein_co	7	75996338	76048004	-1 q11.23
ENSG00000206573	1.0739	2.1052	2.74E-13	2.04E-12 THUMP3-AS1	THUMP3 antisense	3	93496389	9398579	-1 p25.3
ENSG00000234964	1.0738	2.1049	0.0192	0.0425 FABP5P7	fatty acid b processed_	11	59781318	59781722	-1 q12.1
ENSG00000154277	1.0726	2.1032	0.0137	0.0315 UCHL1	ubiquitin c protein_co	4	41256413	41268455	1 p13
ENSG00000198818	1.0716	2.1017	7.80E-27	1.88E-25 SFT2D1	SFT2 doma protein_co	6	1.66E+08	1.66E+08	-1 q27
ENSG00000070831	1.071	2.1009	2.98E-43	3.87E-41 CDC42	cell divisior protein_co	1	22052627	22092946	1 p36.12
ENSG00000232756	1.071	2.1009	0.0071	0.0174 RP5-1185I7.1	antisense	7	77990384	77995171	1 q21.11
ENSG00000091513	1.071	2.1008	1.10E-05	4.04E-05 TF	transferrin protein_co	3	1.34E+08	1.34E+08	1 q22.1
ENSG00000142552	1.0704	2.1	0.0067	0.0164 RCN3	reticulocal protein_co	19	49527618	49546962	1 q13.33
ENSG00000141933	1.0703	2.0998	4.79E-10	2.70E-09 TPGS1	tubulin pol protein_co	19	507299	519654	1 p13.3
ENSG00000228439	1.0701	2.0996	4.30E-06	1.66E-05 TSTD3	thiosulfate antisense	6	99520693	99531918	1 q16.2
ENSG00000187134	1.0697	2.099	1.31E-06	5.38E-06 AKR1C1	aldo-keto r protein_co	10	4963253	5107522	1 p15.1
ENSG00000174780	1.0696	2.0989	4.57E-25	9.27E-24 SRP72	signal reco protein_co	4	56466915	56503680	1 q12
ENSG00000113638	1.0695	2.0987	6.62E-13	4.78E-12 TTC33	tetratricop protein_co	5	40714475	40755975	-1 p13.1
ENSG00000235321	1.0695	2.0987	0.0156	0.0353 AC007556.3	antisense	2	1.69E+08	1.69E+08	1 q31.1
ENSG00000101464	1.0693	2.0985	1.70E-27	4.28E-26 PIGU	phosphatid protein_co	20	34560542	34677090	-1 q11.22
ENSG00000143156	1.0693	2.0984	1.06E-05	3.90E-05 NME7	NME/NM2 protein_co	1	1.69E+08	1.69E+08	-1 q24.2
ENSG00000115368	1.069	2.098	1.10E-25	2.38E-24 WDR75	WD repeat protein_co	2	1.89E+08	1.89E+08	1 q32.2
ENSG00000239523	1.0685	2.0973	0.0063	0.0155 MYLK-AS1	MYLK antis antisense	3	1.24E+08	1.24E+08	1 q21.1
ENSG00000123416	1.0684	2.0971	8.25E-19	9.66E-18 TUBA1B	tubulin, alp protein_co	12	49127782	49131397	-1 q13.12
ENSG00000183513	1.0684	2.0971	2.22E-17	2.31E-16 COA5	cytochrom protein_co	2	98599310	98608515	-1 q11.2
ENSG00000119535	1.0682	2.0968	0.0112	0.0262 CSF3R	colony stim protein_co	1	36466043	36483278	-1 p34.3
ENSG00000107175	1.0675	2.0958	4.29E-50	1.22E-47 CREB3	cAMP resp protein_co	9	35732320	35737007	1 p13.3
ENSG00000136003	1.0674	2.0956	5.08E-25	1.02E-23 ISCU	iron-sulfur protein_co	12	1.09E+08	1.09E+08	1 q23.3
ENSG00000165794	1.067	2.095	0.0003	0.0009 SLC39A2	solute carri protein_co	14	20999255	21001871	1 q11.2
ENSG00000135446	1.0666	2.0944	1.07E-19	1.35E-18 CDK4	cyclin-depe protein_co	12	57747727	57756013	-1 q14.1
ENSG00000117748	1.0664	2.0943	4.27E-14	3.39E-13 RPA2	replication protein_co	1	27891524	27914746	-1 p35.3
ENSG00000203280	1.0665	2.0943	0.0174	0.039 CTA-221G9.12	antisense	22	25102433	25112692	-1 q11.23

ENSG0000039537	1.0652	2.0925	0.0182	0.0406 C6	complemer protein_co	5	41142234	41261438	-1 p13.1
ENSG0000089053	1.0651	2.0924	1.18E-23	2.10E-22 ANAPC5	anaphase p protein_co	12	1.21E+08	1.21E+08	-1 q24.31
ENSG00000253738	1.0651	2.0924	7.38E-20	9.46E-19 OTUD6B-AS1	OTUD6B ar antisense	8	91059909	91070189	-1 q21.3
ENSG00000198898	1.0652	2.0924	5.18E-15	4.42E-14 CAPZA2	capping prc protein_co	7	1.17E+08	1.17E+08	1 q31.2
ENSG00000177600	1.0645	2.0915	1.49E-14	1.24E-13 RPLP2	ribosomal p protein_co	11	809647	812880	1 p15.5
ENSG00000251580	1.0645	2.0914	0.0001	0.0004 RP11-539L10.3	lincRNA	4	6670725	6673830	-1 p16.1
ENSG00000132254	1.0639	2.0905	1.21E-15	1.09E-14 ARFIP2	ADP-ribosy protein_co	11	6474683	6481479	-1 p15.4
ENSG00000151353	1.0638	2.0904	1.90E-11	1.21E-10 TMEM18	transmemt protein_co	2	667335	677439	-1 p25.3
ENSG00000104872	1.0636	2.0902	8.84E-16	8.04E-15 PIH1D1	PIH1 doma protein_co	19	49446298	49453497	-1 q13.33
ENSG00000149262	1.0637	2.0902	1.72E-13	1.30E-12 INTS4	integrator c protein_co	11	77878720	77994678	-1 q14.1
ENSG00000119421	1.063	2.0893	2.05E-18	2.31E-17 NDUFA8	NADH dehy protein_co	9	1.22E+08	1.22E+08	-1 q33.2
ENSG00000196072	1.0623	2.0882	7.28E-20	9.33E-19 BLOC1S2	biogenesis protein_co	10	1E+08	1E+08	-1 q24.31
ENSG00000079785	1.0622	2.0881	1.09E-36	6.89E-35 DDX1	DEAD (Asp- protein_co	2	15591178	15631111	1 p24.3
ENSG00000198468	1.0622	2.0881	0.0171	0.0383 FLVCR1-AS1	FLVCR1 ant lincRNA	1	2.13E+08	2.13E+08	-1 q32.3
ENSG00000181392	1.0621	2.088	8.29E-14	6.43E-13 SYNE4	spectrin rej protein_co	19	36003307	36008793	-1 q13.12
ENSG00000054116	1.0621	2.0879	8.84E-34	4.05E-32 TRAPPC3	trafficking p protein_co	1	36136570	36156053	-1 p34.3
ENSG00000167642	1.0609	2.0863	2.04E-26	4.69E-25 SPINT2	serine pept protein_co	19	38244035	38292614	1 q13.2
ENSG00000106052	1.0604	2.0855	2.12E-25	4.44E-24 TAX1BP1	Tax1 (humc protein_co	7	27739331	27844564	1 p15.2
ENSG00000175536	1.06	2.085	7.03E-07	2.97E-06 LIPT2	lipoyl(octar protein_co	11	74491712	74493733	-1 q13.4
ENSG00000099341	1.0597	2.0845	2.47E-78	1.77E-74 PSMD8	proteasom protein_co	19	38374536	38383824	1 q13.2
ENSG00000126106	1.0592	2.0838	1.67E-16	1.62E-15 TMEM53	transmemt protein_co	1	44635238	44674555	-1 p34.1
ENSG00000210154	1.059	2.0835	0.0049	0.0122 MT-TD	mitochondi Mt_tRNA MT		7518	7585	1
ENSG00000140006	1.0587	2.0831	1.87E-12	1.30E-11 WDR89	WD repeat protein_co	14	63597039	63641861	-1 q23.2
ENSG00000214113	1.0587	2.083	7.55E-23	1.25E-21 LYRM4	LYR motif c protein_co	6	5102593	5260950	-1 p25.1
ENSG00000233223	1.0578	2.0818	1.37E-07	6.18E-07 AC113189.5	antisense	17	7581964	7584072	-1 p13.1
ENSG00000163636	1.0577	2.0816	8.99E-24	1.61E-22 PSMD6	proteasom protein_co	3	64010549	64024010	-1 p14.1
ENSG00000227243	1.0574	2.0811	0.0117	0.0272 SLAMF6P1	SLAM famil unprocesse	1	1.62E+08	1.62E+08	1 q23.3
ENSG00000280111	1.0571	2.0807	0.0005	0.0014 CTA-292E10.9	antisense	22	28784360	28809287	1 q12.1
ENSG00000174744	1.0567	2.0802	6.96E-36	3.95E-34 BRMS1	breast canc protein_co	11	66337333	66345125	-1 q13.2
ENSG00000165609	1.0559	2.079	9.71E-18	1.04E-16 NUDT5	nudix (nucl protein_co	10	12165325	12196144	-1 p14
ENSG00000116459	1.0554	2.0783	2.30E-25	4.79E-24 ATP5F1	ATP syntha protein_co	1	1.11E+08	1.11E+08	1 p13.2
ENSG00000159352	1.0551	2.0779	1.36E-24	2.62E-23 PSMD4	proteasom protein_co	1	1.51E+08	1.51E+08	1 q21.3
ENSG00000130023	1.0546	2.0772	4.68E-25	9.47E-24 ERMARD	ER membrc protein_co	6	1.7E+08	1.7E+08	1 q27
ENSG00000177337	1.0544	2.0768	1.48E-07	6.67E-07 DLGAP1-AS1	DLGAP1 an antisense	18	3593732	3598352	1 p11.31
ENSG00000164051	1.0541	2.0764	6.87E-12	4.53E-11 CCDC51	coiled-coil p protein_co	3	48432164	48440456	-1 p21.31
ENSG00000146731	1.0537	2.0759	3.28E-28	8.89E-27 CCT6A	chaperonin protein_co	7	56051630	56063989	1 p11.2
ENSG00000186352	1.0538	2.0759	0.0177	0.0395 ANKRD37	ankyrin rep protein_co	4	1.85E+08	1.85E+08	1 q35.1
ENSG00000233539	1.0535	2.0756	1.91E-05	6.85E-05 AC011294.3	lincRNA	7	46673785	46759851	-1 p12.3
ENSG00000179988	1.0526	2.0743	1.96E-08	9.57E-08 PSTK	phosphose protein_co	10	1.23E+08	1.23E+08	1 q26.13
ENSG00000103152	1.0525	2.0742	7.35E-21	1.02E-19 MPG	N-methylp protein_co	16	77007	85853	1 p13.3
ENSG00000143621	1.0521	2.0735	1.54E-34	7.82E-33 ILF2	interleukin protein_co	1	1.54E+08	1.54E+08	-1 q21.3



ENSG00000243749	1.0517	2.073	0.0009	0.0027 ZMYM6NB	ZMYM6 nei protein_co	1	34981535	34985353	-1 p34.3
ENSG00000126457	1.051	2.072	8.68E-43	1.07E-40 PRMT1	protein arg protein_co	19	49675786	49689029	1 q13.33
ENSG00000092208	1.0508	2.0716	1.28E-08	6.37E-08 GEMIN2	gem (nucle protein_co	14	39114223	39136973	1 q21.1
ENSG00000147174	1.0505	2.0713	0.0065	0.016 ACRC	acidic repe:protein_co X		71578411	71613583	1 q13.1
ENSG00000096006	1.0506	2.0713	0.01	0.0237 CRISP3	cysteine-ric protein_co	6	49727384	49744437	-1 p12.3
ENSG00000130312	1.0504	2.0711	1.63E-20	2.21E-19 MRPL34	mitochondi protein_co	19	17292609	17306843	1 p13.11
ENSG00000100365	1.0497	2.0701	7.01E-05	0.0002 NCF4	neutrophil protein_co	22	36860988	36878015	1 q12.3
ENSG00000089876	1.0488	2.0688	3.64E-09	1.90E-08 DHX32	DEAH (Asp- protein_co	10	1.26E+08	1.26E+08	-1 q26.2
ENSG00000243725	1.0488	2.0688	8.99E-06	3.35E-05 TTC4	tetratricop:protein_co	1	54715822	54742657	1 p32.3
ENSG00000188820	1.0486	2.0685	0.0003	0.0008 FAM26F	family with protein_co	6	1.16E+08	1.16E+08	1 q22.1
ENSG00000173163	1.0485	2.0683	1.04E-10	6.24E-10 COMMD1	copper mei protein_co	2	61888724	62147247	1 p15
ENSG00000095794	1.0481	2.0678	1.39E-11	8.91E-11 CREM	cAMP respi protein_co	10	35126791	35212958	1 p11.21
ENSG00000233834	1.0478	2.0674	0.001	0.0028 AC005083.1	processed_	7	20217577	20221700	1 p21.1
ENSG00000267321	1.0477	2.0672	1.65E-08	8.13E-08 RP11-1094M14.11	lincRNA	17	35568120	35574792	1 q12
ENSG00000115875	1.0475	2.0669	3.62E-27	8.90E-26 SRSF7	serine/argii protein_co	2	38743599	38751494	-1 p22.1
ENSG00000226950	1.0473	2.0667	6.08E-12	4.03E-11 DANCR	differentiat processed_	4	52712404	52720351	1 q12
ENSG000002262814	1.0468	2.0659	3.45E-14	2.76E-13 MRPL12	mitochondi protein_co	17	81703357	81707526	1 q25.3
ENSG00000233452	1.0467	2.0658	0.0041	0.0103 STXBP5-AS1	STXBP5 ant antisense	6	1.47E+08	1.47E+08	-1 q24.3
ENSG00000166199	1.0462	2.065	3.05E-22	4.77E-21 ALKBH3	alkB, alkyla protein_co	11	43880811	43920266	1 p11.2
ENSG00000049167	1.0458	2.0646	4.81E-12	3.23E-11 ERCC8	excision rej protein_co	5	60873831	60945073	-1 q12.1
ENSG00000180712	1.0458	2.0645	0.0063	0.0155 RP11-290F5.2	lincRNA	4	1.84E+08	1.84E+08	-1 q35.1
ENSG00000138382	1.0455	2.0641	3.90E-16	3.67E-15 METTL5	methyltran protein_co	2	1.7E+08	1.7E+08	-1 q31.1
ENSG00000131203	1.0453	2.0638	0.0048	0.0121 IDO1	indoleamin protein_co	8	39902275	39928444	1 p11.21
ENSG00000153391	1.0435	2.0612	2.41E-10	1.39E-09 INO80C	INO80 com protein_co	18	35452230	35497991	-1 q12.2
ENSG00000139620	1.0433	2.0609	2.28E-16	2.19E-15 KANSL2	KAT8 regul:protein_co	12	48653401	48682238	-1 q13.11
ENSG00000006757	1.0431	2.0607	2.12E-09	1.13E-08 PNPLA4	patatin-like protein_co X		7898247	7927739	-1 p22.31
ENSG00000103202	1.0431	2.0607	3.43E-09	1.80E-08 NME4	NME/NM2: protein_co	16	396725	410367	1 p13.3
ENSG00000150722	1.0423	2.0595	4.67E-06	1.80E-05 PPP1R1C	protein phc protein_co	2	1.82E+08	1.82E+08	1 q31.3
ENSG00000228981	1.0416	2.0586	0.0002	0.0007 RP11-364L4.1	processed_	4	1.43E+08	1.43E+08	-1 q31.21
ENSG00000255277	1.0416	2.0585	0.0184	0.041 ABCC6P2	ATP-bindin transcribed	16	14820792	14824702	-1 p13.11
ENSG00000038002	1.0414	2.0582	6.30E-13	4.56E-12 AGA	asparylglu protein_co	4	1.77E+08	1.77E+08	-1 q34.3
ENSG00000248527	1.041	2.0577	1.94E-16	1.87E-15 MTATP6P1	mitochondi unprocesse	1	633696	634376	1 p36.33
ENSG00000090520	1.0409	2.0575	4.46E-29	1.30E-27 DNAJB11	DnaJ (Hsp4 protein_co	3	1.87E+08	1.87E+08	1 q27.3
ENSG00000173141	1.0409	2.0575	2.68E-14	2.17E-13 MRPL57	mitochondi protein_co	13	21176645	21179084	1 q12.11
ENSG00000128311	1.0408	2.0574	7.00E-25	1.39E-23 TST	thiosulfate protein_co	22	37010859	37020183	-1 q12.3
ENSG00000143942	1.0408	2.0573	9.58E-07	3.99E-06 CHAC2	ChaC, catio protein_co	2	53767792	53775196	1 p16.2
ENSG00000170458	1.0406	2.0571	6.80E-05	0.0002 CD14	CD14 mole protein_co	5	1.41E+08	1.41E+08	-1 q31.3
ENSG00000164967	1.0405	2.0569	3.99E-09	2.07E-08 RPP25L	ribonuclea: protein_co	9	34610486	34612104	-1 p13.3
ENSG00000155393	1.0403	2.0567	2.55E-17	2.63E-16 HEATR3	HEAT repe: protein_co	16	50065941	50106387	1 q12.1
ENSG00000164611	1.0401	2.0564	3.50E-05	0.0001 PTTG1	pituitary tu protein_co	5	1.6E+08	1.6E+08	1 q33.3
ENSG00000185272	1.0379	2.0533	0.0015	0.0041 RBM11	RNA bindin protein_co	21	14216130	14228372	1 q11.2

ENSG00000198960	1.0376	2.0528	8.92E-17	8.88E-16	ARMCX6	armadillo r protein_co X	1.02E+08	1.02E+08	-1	q22.1	
ENSG00000255517	1.0374	2.0525	1.96E-06	7.87E-06	CTD-307407.5	antisense	11	66473490	66480233	-1	q13.2
ENSG00000104497	1.0359	2.0503	2.09E-10	1.21E-09	SNX16	sorting nex protein_co	8	81799581	81842866	-1	q21.13
ENSG00000151287	1.0358	2.0503	1.42E-06	5.80E-06	TEX30	testis expre protein_co	13	1.03E+08	1.03E+08	-1	q33.1
ENSG00000125870	1.0354	2.0497	1.08E-20	1.48E-19	SNRPB2	small nucle protein_co	20	16729961	16742563	1	p12.1
ENSG00000074319	1.0353	2.0495	1.44E-24	2.78E-23	TSG101	tumor susc protein_co	11	18468336	18527232	-1	p15.1
ENSG00000163734	1.0351	2.0492	0.0107	0.0251	CXCL3	chemokine protein_co	4	74036589	74038807	-1	q13.3
ENSG00000140612	1.0347	2.0487	1.45E-21	2.17E-20	SEC11A	SEC11 hom protein_co	15	84669538	84716716	-1	q25.3
ENSG00000197498	1.0341	2.0479	1.62E-13	1.23E-12	RPF2	ribosome p protein_co	6	1.11E+08	1.11E+08	1	q21
ENSG00000103671	1.0332	2.0465	5.27E-21	7.44E-20	TRIP4	thyroid hor protein_co	15	64387748	64455303	1	q22.31
ENSG00000168952	1.033	2.0463	0.0062	0.0153	STXBP6	syntaxin bii protein_co	14	24809656	25050297	-1	q12
ENSG00000189366	1.033	2.0463	0.01	0.0236	ALG1L	ALG1, chitc protein_co	3	1.26E+08	1.26E+08	-1	q21.2
ENSG00000167552	1.033	2.0462	0.0099	0.0235	TUBA1A	tubulin, alp protein_co	12	49184796	49189324	-1	q13.12
ENSG00000088766	1.0324	2.0455	3.53E-17	3.60E-16	CRLS1	cardiolipin protein_co	20	6006090	6040053	1	p12.3
ENSG00000249352	1.0324	2.0455	0.0213	0.0468	RP11-141O11.2	lincRNA	5	68970692	69030165	-1	q13.1
ENSG00000143633	1.032	2.0449	3.46E-13	2.55E-12	C1orf131	chromoson protein_co	1	2.31E+08	2.31E+08	-1	q42.2
ENSG00000113851	1.0317	2.0445	2.75E-19	3.35E-18	CRBN	cereblon [S protein_co	3	3148992	3179710	-1	p26.2
ENSG00000125611	1.0315	2.0441	1.08E-08	5.40E-08	CHCHD5	coiled-coil- protein_co	2	1.13E+08	1.13E+08	1	q14.1
ENSG00000260136	1.031	2.0435	0.0164	0.0369	CTD-2270L9.4	lincRNA	16	23452758	23457606	1	p12.2
ENSG00000137573	1.0307	2.043	0.0009	0.0024	CULF1	sulfatase 1 protein_co	8	69466624	69660915	1	q13.2
ENSG00000171566	1.0306	2.0429	9.05E-27	2.17E-25	PLRG1	pleiotropic protein_co	4	1.55E+08	1.55E+08	-1	q31.3
ENSG00000148484	1.0302	2.0423	7.78E-18	8.38E-17	RSU1	Ras suppre protein_co	10	16590611	16817528	-1	p13
ENSG00000117262	1.03	2.0421	5.63E-08	2.65E-07	GPR89A	G protein-c protein_co	1	1.46E+08	1.46E+08	1	q21.1
ENSG00000156171	1.0297	2.0416	1.46E-13	1.11E-12	DRAM2	DNA-dama; protein_co	1	1.11E+08	1.11E+08	-1	p13.3
ENSG00000169242	1.0296	2.0414	3.71E-12	2.51E-11	EFNA1	ephrin-A1 [ protein_co	1	1.55E+08	1.55E+08	1	q22
ENSG00000109854	1.0295	2.0413	2.03E-34	1.02E-32	HTATIP2	HIV-1 Tat ir protein_co	11	20363685	20383783	1	p15.1
ENSG00000169981	1.0295	2.0413	7.83E-15	6.59E-14	ZNF35	zinc finger   protein_co	3	44648727	44660791	1	p21.31
ENSG00000133962	1.0291	2.0407	6.53E-05	0.0002	CATSPERB	catsper cha protein_co	14	91580696	91780707	-1	q32.12
ENSG00000213885	1.0289	2.0405	0.0145	0.0331	RPL13AP7	ribosomal t processed_	21	25361821	25362431	1	q21.2
ENSG00000170222	1.0283	2.0396	2.60E-08	1.25E-07	ADPRM	ADP-ribose protein_co	17	10697594	10711233	1	p13.1
ENSG00000124802	1.028	2.0392	8.18E-08	3.78E-07	EEF1E1	eukaryotic protein_co	6	8073360	8102578	-1	p24.3
ENSG00000079150	1.0276	2.0386	6.11E-05	0.0002	FKBP7	FK506 bind protein_co	2	1.78E+08	1.78E+08	-1	q31.2
ENSG00000103018	1.0271	2.0379	1.45E-28	4.04E-27	CYB5B	cytochrom; protein_co	16	69424525	69466266	1	q22.1
ENSG00000123144	1.0263	2.0368	6.45E-25	1.29E-23	C19orf43	chromoson protein_co	19	12730640	12734775	-1	p13.13
ENSG00000168374	1.0262	2.0366	6.16E-11	3.77E-10	ARF4	ADP-ribosy protein_co	3	57571363	57598220	-1	p14.3
ENSG00000253251	1.0262	2.0366	6.56E-06	2.48E-05	CTC-534A2.2	CDNA FLJ2f protein_co	5	65624765	65630891	1	q12.3
ENSG00000161981	1.0259	2.0362	2.66E-06	1.05E-05	SNRNP25	small nucle protein_co	16	53010	57669	1	p13.3
ENSG00000109390	1.0258	2.0361	1.34E-10	7.91E-10	NDUFC1	NADH dehy protein_co	4	1.39E+08	1.39E+08	-1	q31.1
ENSG00000279605	1.0257	2.036	0.0089	0.0212	RP11-661A12.8	TEC	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000164687	1.0247	2.0346	0.0017	0.0047	FABP5	fatty acid b protein_co	8	81280363	81284777	1	q21.13
ENSG00000136869	1.0247	2.0346	0.0025	0.0066	TLR4	toll-like rec protein_co	9	1.18E+08	1.18E+08	1	q33.1

ENSG00000249031	1.0248	2.0346	0.008	0.0192	SUMO2P6	SUMO2 psc processed_	5	1.75E+08	1.75E+08	1	q35.2
ENSG00000153774	1.0245	2.0343	7.00E-10	3.90E-09	CFDP1	craniofacia protein_co	16	75293698	75433485	-1	q23.1
ENSG00000176142	1.0243	2.0339	8.32E-16	7.60E-15	TMEM39A	transmemt protein_co	3	1.19E+08	1.19E+08	-1	q13.33
ENSG00000120265	1.0232	2.0324	1.21E-27	3.10E-26	PCMT1	protein-L-is protein_co	6	1.5E+08	1.5E+08	1	q25.1
ENSG00000118420	1.0225	2.0314	0.0017	0.0047	UBE3D	ubiquitin pi protein_co	6	82892398	83065841	-1	q14.1
ENSG00000115204	1.0222	2.0311	1.68E-30	5.57E-29	MPV17	MpV17 mit protein_co	2	27309492	27325680	-1	p23.3
ENSG00000175315	1.0223	2.0311	0.0005	0.0015	CST6	cystatin E/I protein_co	11	66011841	66013505	1	q13.1
ENSG00000166681	1.0221	2.0309	4.54E-16	4.25E-15	NGFRAP1	nerve grow protein_co X		1.03E+08	1.03E+08	1	q22.2
ENSG00000175756	1.0217	2.0303	5.21E-23	8.71E-22	AURKAIP1	aurora kina protein_co	1	1373730	1375495	-1	p36.33
ENSG00000115042	1.0217	2.0303	3.96E-10	2.25E-09	FAHD2A	fumarylase protein_co	2	95402721	95416616	1	q11.1
ENSG00000143158	1.0216	2.0302	1.16E-19	1.45E-18	MPC2	mitochond protein_co	1	1.68E+08	1.68E+08	-1	q24.2
ENSG00000117543	1.0214	2.0299	7.66E-11	4.65E-10	DPH5	diphthamic protein_co	1	1.01E+08	1.01E+08	-1	p21.2
ENSG00000166598	1.0211	2.0295	1.10E-13	8.47E-13	HSP90B1	heat shock protein_co	12	1.04E+08	1.04E+08	1	q23.3
ENSG00000111196	1.0209	2.0292	8.70E-12	5.69E-11	MAGOHB	mago-nash protein_co	12	10604190	10613623	-1	p13.2
ENSG00000141030	1.0205	2.0287	2.82E-44	4.05E-42	COPS3	COP9 signa protein_co	17	17246820	17281293	-1	p11.2
ENSG00000183291	1.0206	2.0287	5.17E-23	8.64E-22		15-Sep 15 kDa sele protein_co	1	86862445	86914424	-1	p22.3
ENSG00000227403	1.0202	2.0283	0.0002	0.0008	AC009299.3	lincRNA	2	1.61E+08	1.61E+08	1	q24.2
ENSG00000111912	1.02	2.028	3.44E-07	1.50E-06	NCOA7	nuclear rec protein_co	6	1.26E+08	1.26E+08	1	q23.31
ENSG00000135404	1.0196	2.0274	2.19E-25	4.57E-24	CD63	CD63 mole protein_co	12	55725323	55729707	-1	q13.2
ENSG00000219755	1.0194	2.0271	0.0123	0.0285	RP1-199J3.5	processed_	6	99575712	99576456	1	q16.2
ENSG00000180596	1.0192	2.0268	0.0026	0.0069	HIST1H2BC	histone clu protein_co	6	26114873	26123926	-1	p22.2
ENSG00000185043	1.0191	2.0267	1.92E-05	6.88E-05	CIB1	calcium an protein_co	15	90229975	90234047	-1	q26.1
ENSG00000087086	1.0188	2.0263	7.44E-21	1.03E-19	FTL	ferritin, lig protein_co	19	48965301	48966878	1	q13.33
ENSG00000154518	1.0189	2.0263	2.04E-13	1.53E-12	ATP5G3	ATP syntha protein_co	2	1.75E+08	1.75E+08	-1	q31.1
ENSG00000205220	1.0187	2.0261	6.94E-20	8.93E-19	PSMB10	proteasom protein_co	16	67934502	67937087	-1	q22.1
ENSG00000076258	1.0184	2.0257	3.30E-06	1.30E-05	FMO4	flavin cont protein_co	1	1.71E+08	1.71E+08	1	q24.3
ENSG00000136143	1.018	2.0251	3.70E-30	1.19E-28	SUCLA2	succinate-C protein_co	13	47936487	48001326	-1	q14.2
ENSG00000163159	1.018	2.0251	1.00E-26	2.39E-25	VPS72	vacuolar pr protein_co	1	1.51E+08	1.51E+08	-1	q21.3
ENSG00000171303	1.018	2.0251	0.0075	0.0182	KCNK3	potassium protein_co	2	26692690	26733420	1	p23.3
ENSG00000122034	1.0177	2.0247	8.53E-21	1.18E-19	GTF3A	general tra protein_co	13	27424544	27435823	1	q12.2
ENSG00000198899	1.0176	2.0245	1.29E-18	1.49E-17	MT-ATP6	mitochond protein_co MT		8527	9207	1	
ENSG00000272602	1.0174	2.0243	1.55E-14	1.28E-13	ZNF595	zinc finger protein_co	4	53285	88211	1	p16.3
ENSG00000147592	1.0172	2.0239	7.59E-08	3.52E-07	LACTB2	lactamase protein_co	8	70635318	70669174	-1	q13.3
ENSG00000105427	1.0172	2.0239	0.0029	0.0075	CNFN	cornifelin [ protein_co	19	42387019	42390287	-1	q13.2
ENSG00000172243	1.0166	2.0232	1.33E-05	4.85E-05	CLEC7A	C-type lecti protein_co	12	10116777	10130258	-1	p13.2
ENSG00000135437	1.0165	2.023	0.0162	0.0366	RDH5	retinol deh protein_co	12	55720367	55724705	1	q13.2
ENSG00000103260	1.0155	2.0216	8.13E-15	6.83E-14	METRNL	meteorin, ξ protein_co	16	715115	719655	1	p13.3
ENSG00000147419	1.0153	2.0213	4.41E-19	5.28E-18	CCDC25	coiled-coil protein_co	8	27733311	27772653	-1	p21.1
ENSG00000137154	1.0145	2.0202	2.07E-08	1.01E-07	RPS6	ribosomal protein_co	9	19375715	19380254	-1	p22.1
ENSG00000132196	1.0139	2.0194	1.55E-18	1.76E-17	HSD17B7	hydroxyste protein_co	1	1.63E+08	1.63E+08	1	q23.3
ENSG00000126226	1.0135	2.0188	1.58E-23	2.78E-22	PCID2	PCI domain protein_co	13	1.13E+08	1.13E+08	-1	q34

ENSG00000188612	1.0133	2.0186	9.79E-19	1.14E-17	SUMO2	small ubiqu protein_co	17	75165586	75182983	-1	q25.1
ENSG00000175352	1.0127	2.0177	0.0066	0.0161	NRIP3	nuclear rec protein_co	11	8980576	9004049	-1	p15.4
ENSG00000224259	1.0103	2.0143	0.0001	0.0004	LINC01133	long interglincRNA	1	1.6E+08	1.6E+08	1	q23.2
ENSG00000161980	1.0098	2.0136	1.46E-08	7.20E-08	POLR3K	polymerase protein_co	16	46407	53628	-1	p13.3
ENSG00000154240	1.0096	2.0134	8.14E-05	0.0003	CEP112	centrosom protein_co	17	65635538	66192084	-1	q24.1
ENSG00000141179	1.0083	2.0116	7.64E-21	1.06E-19	PCTP	phosphatid protein_co	17	55750979	55842830	1	q22
ENSG00000109270	1.0079	2.011	1.26E-17	1.34E-16	LAMTOR3	late endosc protein_co	4	99878336	99894490	-1	q23
ENSG00000138036	1.0074	2.0103	0.0002	0.0006	DYNC2L1	dynein, cyt protein_co	2	43774039	43810010	1	p21
ENSG00000062716	1.0073	2.0101	5.62E-06	2.14E-05	VMP1	vacuole me protein_co	17	59707192	59842255	1	q23.1
ENSG00000198551	1.0067	2.0094	9.67E-16	8.74E-15	ZNF627	zinc finger protein_co	19	11559374	11619135	1	p13.2
ENSG00000189134	1.0058	2.0081	0.0051	0.0127	NKAPL	NFKB activ protein_co	6	28259320	28260958	1	p22.1
ENSG00000135521	1.0057	2.0079	1.88E-15	1.66E-14	LTV1	LTV1 ribosc protein_co	6	1.44E+08	1.44E+08	1	q24.2
ENSG00000179965	1.0056	2.0078	1.29E-06	5.29E-06	ZNF771	zinc finger protein_co	16	30407297	30429599	1	p11.2
ENSG00000114520	1.0054	2.0076	4.12E-12	2.78E-11	SNX4	sorting nex protein_co	3	1.25E+08	1.26E+08	-1	q21.2
ENSG00000226524	1.0054	2.0076	0.0118	0.0275	C6orf164	chromoson protein_co	6	87322605	87399749	1	q15
ENSG00000145723	1.0048	2.0067	2.27E-09	1.21E-08	GIN1	gypsy retro protein_co	5	1.03E+08	1.03E+08	-1	q21.1
ENSG00000143412	1.0049	2.0067	3.04E-06	1.20E-05	ANXA9	annexin A9 protein_co	1	1.51E+08	1.51E+08	1	q21.3
ENSG00000173171	1.0036	2.005	1.85E-15	1.63E-14	MTX1	metaxin 1 protein_co	1	1.55E+08	1.55E+08	1	q22
ENSG00000197043	1.0035	2.0049	0.006	0.0149	ANXA6	annexin A6 protein_co	5	1.51E+08	1.51E+08	-1	q33.1
ENSG00000128692	1.0035	2.0049	0.0138	0.0316	EIF2S2P4	eukaryotic processed_	2	1.71E+08	1.71E+08	1	q31.1
ENSG00000060762	1.0032	2.0045	1.70E-14	1.40E-13	MPC1	mitochond protein_co	6	1.66E+08	1.66E+08	-1	q27
ENSG00000204272	1.0029	2.004	8.49E-34	3.91E-32	LINC01420	long intergl processed_X		56729259	56818380	1	p11.21
ENSG00000104231	1.0026	2.0036	7.74E-16	7.08E-15	ZFAND1	zinc finger protein_co	8	81701334	81732903	-1	q21.13
ENSG00000068697	1.0023	2.0032	9.86E-27	2.35E-25	LAPTM4A	lysosomal p protein_co	2	20032650	20052028	-1	p24.1
ENSG00000115963	1.0018	2.0025	1.11E-06	4.61E-06	RND3	Rho family protein_co	2	1.5E+08	1.51E+08	-1	q23.3
ENSG00000183605	1.001	2.0014	3.86E-16	3.64E-15	SFXN4	sideroflexir protein_co	10	1.19E+08	1.19E+08	-1	q26.11
ENSG00000100575	1.0008	2.0011	4.19E-13	3.07E-12	TIMM9	translocase protein_co	14	58408494	58427614	-1	q23.1
ENSG00000153363	1.0007	2.001	8.83E-11	5.33E-10	LINC00467	long interglincRNA	1	2.11E+08	2.11E+08	1	q32.3
ENSG00000100442	1.0006	2.0008	3.05E-23	5.21E-22	FKBP3	FK506 bind protein_co	14	45115600	45135319	-1	q21.2
ENSG00000091137	1	2.0001	0.0118	0.0275	SLC26A4	solute carri protein_co	7	1.08E+08	1.08E+08	1	q22.3
ENSG00000198125	1.0001	2.0001	0.0138	0.0315	MB	myoglobin protein_co	22	35606764	35637951	-1	q12.3
ENSG00000105825	0.9999	1.9998	0.0098	0.0233	TFPI2	tissue factc protein_co	7	93885397	93890991	-1	q21.3
ENSG00000004455	0.9996	1.9995	7.14E-29	2.05E-27	AK2	adenylate k protein_co	1	33007984	33080996	-1	p35.1
ENSG00000182993	0.9993	1.999	0.0001	0.0004	C12orf60	chromoson protein_co	12	14803572	14906586	1	p12.3
ENSG00000112972	0.999	1.9986	1.95E-10	1.14E-09	HMGCS1	3-hydroxy- protein_co	5	43289395	43313512	-1	p12
ENSG00000136932	0.9986	1.9981	5.97E-11	3.66E-10	C9orf156	chromoson protein_co	9	97904489	97922570	-1	q22.33
ENSG00000172171	0.9985	1.9979	5.78E-12	3.84E-11	TEFM	transcriptic protein_co	17	30897336	30906820	-1	q11.2
ENSG00000121380	0.9984	1.9978	1.94E-06	7.81E-06	BCL2L14	BCL2-like 1 protein_co	12	12049844	12211084	1	p13.2
ENSG00000100209	0.9981	1.9974	1.78E-06	7.21E-06	HSCB	HscB mitoc protein_co	22	28742031	28757515	1	q12.1
ENSG00000079246	0.9977	1.9969	1.26E-28	3.53E-27	XRCC5	X-ray repai protein_co	2	2.16E+08	2.16E+08	1	q35
ENSG00000137747	0.9975	1.9965	5.80E-07	2.47E-06	TMPRSS13	transmemt protein_co	11	1.18E+08	1.18E+08	-1	q23.3

ENSG00000101901	0.9973	1.9962	4.34E-10	2.46E-09	ALG13	ALG13, UDI protein_co X	1.12E+08	1.12E+08	1	q23	
ENSG00000131355	0.9972	1.9962	0.0012	0.0032	EMR3	egf-like mo protein_co	19	14619117	14690027	-1	p13.12
ENSG00000082068	0.9971	1.996	3.22E-22	5.02E-21	WDR70	WD repeat protein_co	5	37379212	37753435	1	p13.2
ENSG00000132141	0.9965	1.9952	0.0003	0.0009	CCT6B	chaperonin protein_co	17	34927859	34981078	-1	q12
ENSG00000189343	0.9962	1.9948	7.59E-08	3.52E-07	RPS2P46	ribosomal Ꞥ processed_	17	19445970	19446852	-1	p11.2
ENSG00000255857	0.9959	1.9943	0.0002	0.0006	PXN-AS1	PXN antisense antisense	12	1.2E+08	1.2E+08	1	q24.23
ENSG00000139343	0.9956	1.994	8.77E-23	1.44E-21	SNRPF	small nucle protein_co	12	95858928	95903828	1	q23.1
ENSG00000117133	0.9956	1.9939	5.55E-24	1.02E-22	RPF1	ribosome Ꞥ protein_co	1	84479259	84497790	1	p22.3
ENSG00000105619	0.9955	1.9937	4.02E-09	2.09E-08	TFPT	TCF3 (E2A) protein_co	19	54107013	54115675	-1	q13.42
ENSG00000138496	0.9953	1.9935	7.51E-24	1.36E-22	PARP9	poly (ADP-Ꞥ protein_co	3	1.23E+08	1.23E+08	-1	q21.1
ENSG00000170270	0.9948	1.9928	0.0098	0.0232	C14orf142	chromosom protein_co	14	93202894	93207094	-1	q32.12
ENSG00000185414	0.9948	1.9927	9.89E-18	1.06E-16	MRPL30	mitochond protein_co	2	99181079	99197626	1	q11.2
ENSG00000080608	0.9941	1.9919	3.21E-24	6.01E-23	KIAA0020	KIAA0020 [ protein_co	9	2720469	2844241	-1	p24.2
ENSG00000249631	0.9941	1.9918	2.50E-05	8.83E-05	RP11-281P23.2	lincRNA	4	11625714	11813958	1	p15.33
ENSG00000172465	0.9935	1.991	2.54E-11	1.60E-10	TCEAL1	transcripti protein_co X	1	1.04E+08	1.04E+08	1	q22.2
ENSG00000101187	0.9931	1.9904	0.0189	0.042	SLCO4A1	solute carri protein_co	20	62642445	62685785	1	q13.33
ENSG00000088930	0.9929	1.9902	3.91E-32	1.51E-30	XRN2	5'-3' exorib protein_co	20	21303304	21389827	1	p11.22
ENSG00000127920	0.9929	1.9902	0.0059	0.0146	GNG11	guanin nu protein_co	7	93921699	93928610	1	q21.3
ENSG00000105755	0.9922	1.9893	1.92E-18	2.17E-17	ETHE1	ethylmalon protein_co	19	43506719	43527244	-1	q13.31
ENSG00000203705	0.9922	1.9892	3.08E-11	1.93E-10	TATDN3	TatD DNaseꞤ protein_co	1	2.13E+08	2.13E+08	1	q32.3
ENSG00000155636	0.9917	1.9885	1.06E-14	8.84E-14	RBM45	RNA bindin protein_co	2	1.78E+08	1.78E+08	1	q31.2
ENSG00000265451	0.9913	1.988	0.0094	0.0223	RP11-204L24.2	antisense	2	1.22E+08	1.22E+08	1	q14.2
ENSG00000224831	0.9913	1.988	0.0128	0.0295	RP11-651P23.4	processed_	3	1.5E+08	1.5E+08	-1	q25.1
ENSG00000144034	0.991	1.9875	5.76E-10	3.23E-09	TPRKB	TP53RK bin protein_co	2	73729104	73737400	-1	p13.1
ENSG00000167920	0.9909	1.9874	3.99E-10	2.27E-09	TMEM99	transmemꞤ protein_co	17	40819106	40836274	1	q21.2
ENSG00000182782	0.9905	1.9869	5.71E-10	3.20E-09	HCAR2	hydroxycar protein_co	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000173085	0.9899	1.986	9.19E-20	1.17E-18	COQ2	coenzyme Ꞥ protein_co	4	83261536	83284914	-1	q21.23
ENSG00000176014	0.9898	1.986	2.52E-07	1.11E-06	TUBB6	tubulin, beꞤ protein_co	18	12307669	12344320	1	p11.21
ENSG00000128228	0.9896	1.9857	9.35E-11	5.62E-10	SDF2L1	stromal cel protein_co	22	21642261	21644298	1	q11.21
ENSG00000115129	0.9896	1.9856	3.32E-12	2.25E-11	TP53I3	tumor prot protein_co	2	24077433	24085861	-1	p23.3
ENSG00000159882	0.9888	1.9845	1.03E-10	6.18E-10	ZNF230	zinc finger Ꞥ protein_co	19	44002948	44013926	1	q13.31
ENSG00000204642	0.9885	1.9841	1.33E-05	4.87E-05	HLA-F	major histo protein_co	6	29722775	29738528	1	p22.1
ENSG00000140284	0.9885	1.9841	0.0028	0.0073	SLC27A2	solute carri protein_co	15	50182196	50236395	1	q21.2
ENSG00000180257	0.9881	1.9836	2.74E-14	2.21E-13	ZNF816	zinc finger Ꞥ protein_co	19	52949379	52962911	-1	q13.41
ENSG00000100116	0.9877	1.983	4.32E-10	2.45E-09	GCAT	glycine C-Ꞥ protein_co	22	37807905	37817176	1	q13.1
ENSG00000128578	0.9874	1.9826	0.0065	0.0161	STRIP2	striatin inteꞤ protein_co	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000233705	0.9873	1.9825	0.0075	0.0183	SLC26A4-AS1	SLC26A4 ar antisense	7	1.08E+08	1.08E+08	-1	q22.3
ENSG00000152778	0.9872	1.9824	5.19E-13	3.77E-12	IFIT5	interferon-Ꞥ protein_co	10	89414586	89421001	1	q23.31
ENSG00000225791	0.987	1.982	1.84E-07	8.24E-07	TRAM2-AS1	TRAM2 ant lincRNA	6	52577307	52583993	1	p12.2
ENSG00000104043	0.987	1.982	0.0214	0.0469	ATP8B4	ATPase, cla protein_co	15	49858238	50182817	-1	q21.2
ENSG00000267454	0.9866	1.9815	0.0012	0.0033	ZNF582-AS1	ZNF582 ant lincRNA	19	56393656	56399172	1	q13.43



ENSG00000184319	0.9865	1.9814	5.58E-09	2.86E-08	RPL23AP82	ribosomal r transcribed	22	50756948	50801309	1	q13.33
ENSG00000112559	0.9863	1.9811	1.26E-11	8.12E-11	MDFI	MyoD fami protein_co	6	41636882	41654246	1	p21.1
ENSG00000100532	0.9859	1.9805	3.02E-11	1.89E-10	CGRRF1	cell growth protein_co	14	54509812	54539309	1	q22.2
ENSG00000133101	0.9855	1.9799	0.0006	0.0018	CCNA1	cyclin A1 [S protein_co	13	36431830	36442882	1	q13.3
ENSG00000154162	0.9848	1.9791	0.0194	0.0429	CDH12	cadherin 1; protein_co	5	21750673	22853622	-1	p14.3
ENSG00000255071	0.9848	1.979	0.0019	0.0051	SAA2-SAA4	SAA2-SAA4 protein_co	11	18231423	18248635	-1	p15.1
ENSG00000105856	0.9845	1.9787	1.20E-20	1.65E-19	HBP1	HMG-box t protein_co	7	1.07E+08	1.07E+08	1	q22.3
ENSG00000173267	0.9846	1.9787	8.86E-06	3.30E-05	SNCG	synuclein, g protein_co	10	86958618	86963260	1	q23.2
ENSG00000108953	0.9844	1.9785	3.29E-15	2.84E-14	YWHAE	tyrosine 3-i protein_co	17	1344272	1400378	-1	p13.3
ENSG00000164172	0.9844	1.9784	6.34E-18	6.88E-17	MOC52	molybdenu protein_co	5	53095679	53110063	-1	q11.2
ENSG00000229666	0.9841	1.978	0.0007	0.0021	MAST4-AS1	MAST4 ant antisense	5	67001383	67003953	-1	q12.3
ENSG00000165996	0.9834	1.9771	0.004	0.0103	PTPLA	protein tyri protein_co	10	17589032	17617377	-1	p12.33
ENSG00000110172	0.9824	1.9757	2.31E-08	1.12E-07	CHORDC1	cysteine an protein_co	11	90201160	90223364	-1	q14.3
ENSG00000197696	0.982	1.9752	6.71E-05	0.0002	NMB	neuromedi protein_co	15	84655129	84658563	-1	q25.2
ENSG00000237773	0.982	1.9752	0.0071	0.0172	AC003075.4	antisense	7	17279834	17299357	-1	p21.1
ENSG00000138381	0.9818	1.9749	1.82E-15	1.61E-14	ASNSD1	asparagine protein_co	2	1.9E+08	1.9E+08	1	q32.2
ENSG00000256053	0.9817	1.9747	4.23E-17	4.30E-16	APOPT1	apoptogeni protein_co	14	1.04E+08	1.04E+08	1	q32.33
ENSG00000233270	0.9805	1.9732	0.0127	0.0294	SNRPEP4	small nucle processed_	19	5576660	5576938	-1	p13.3
ENSG00000136521	0.9801	1.9726	3.46E-09	1.81E-08	NDUFB5	NADH dehy protein_co	3	1.8E+08	1.8E+08	1	q26.33
ENSG00000151376	0.9799	1.9724	6.81E-11	4.15E-10	ME3	malic enzyr protein_co	11	86441108	86672636	-1	q14.2
ENSG00000188060	0.9799	1.9723	0.0085	0.0203	RAB42	RAB42, me protein_co	1	28592200	28595443	1	p35.3
ENSG00000124588	0.9798	1.9722	6.44E-07	2.73E-06	NQO2	NAD(P)H di protein_co	6	2987987	3028869	1	p25.2
ENSG00000169019	0.9794	1.9717	1.42E-09	7.67E-09	COMMD8	COMM dor protein_co	4	47450796	47463719	-1	p12
ENSG00000003056	0.9793	1.9715	3.31E-27	8.15E-26	M6PR	mannose-6 protein_co	12	8940363	8949955	-1	p13.31
ENSG00000181019	0.9793	1.9715	0.0053	0.0132	NQO1	NAD(P)H di protein_co	16	69706996	69726951	-1	q22.1
ENSG00000163634	0.9791	1.9712	9.12E-22	1.38E-20	THOC7	THO compl protein_co	3	63833870	63863903	-1	p14.1
ENSG00000227630	0.979	1.9711	0.0062	0.0153	LINC01132	long interg; lincRNA	1	2.35E+08	2.35E+08	1	q42.3
ENSG00000131015	0.9783	1.9702	0.0026	0.007	ULBP2	UL16 bindin protein_co	6	1.5E+08	1.5E+08	1	q25.1
ENSG00000125352	0.9782	1.97	4.02E-13	2.94E-12	RNF113A	ring finger j protein_co X		1.2E+08	1.2E+08	-1	q24
ENSG00000181038	0.9778	1.9694	1.05E-16	1.03E-15	METTL23	methyltran protein_co	17	76726830	76733936	1	q25.1
ENSG00000086504	0.9774	1.9688	1.46E-35	8.08E-34	MRPL28	mitochondi protein_co	16	367384	370527	-1	p13.3
ENSG00000175193	0.9764	1.9675	1.50E-22	2.42E-21	PARL	presenilin a protein_co	3	1.84E+08	1.84E+08	-1	q27.1
ENSG00000149761	0.9763	1.9675	7.17E-15	6.05E-14	NUDT22	nudix (nucl protein_co	11	64225941	64230686	1	q13.1
ENSG00000171148	0.9763	1.9674	5.93E-34	2.80E-32	TADA3	transcriptic protein_co	3	9779860	9793011	-1	p25.3
ENSG00000101843	0.9762	1.9673	1.68E-09	9.05E-09	PSMD10	proteasom; protein_co X		1.08E+08	1.08E+08	-1	q22.3
ENSG00000167380	0.9761	1.9672	1.14E-19	1.43E-18	ZNF226	zinc finger j protein_co	19	44165073	44178381	1	q13.31
ENSG00000177156	0.9759	1.9669	1.67E-26	3.88E-25	TALDO1	transaldola protein_co	11	747329	765024	1	p15.5
ENSG00000121988	0.9757	1.9665	4.99E-14	3.94E-13	ZRANB3	zinc finger, protein_co	2	1.35E+08	1.36E+08	-1	q21.3
ENSG00000106538	0.9754	1.9662	0.0083	0.02	RARRES2	retinoic aci protein_co	7	1.5E+08	1.5E+08	-1	q36.1
ENSG00000198612	0.9753	1.966	1.69E-34	8.55E-33	COPS8	COP9 signa protein_co	2	2.37E+08	2.37E+08	1	q37.3
ENSG00000224020	0.9753	1.966	0.0125	0.0289	MIR181A2HG	MIR181A2 antisense	9	1.25E+08	1.25E+08	1	q33.3

ENSG00000172663	0.9745	1.965	8.07E-14	6.26E-13	TMEM134	transmembr protein_co	11	67461710	67469272	-1	q13.2
ENSG00000254109	0.9743	1.9647	2.06E-06	8.26E-06	RBPMS-AS1	RBPMS ant antisense	8	30382119	30385401	-1	p12
ENSG00000155380	0.974	1.9643	0.0005	0.0016	SLC16A1	solute carri protein_co	1	1.13E+08	1.13E+08	-1	p13.2
ENSG00000124275	0.9738	1.964	2.10E-19	2.57E-18	MTRR	5-methylte protein_co	5	7851186	7906025	1	p15.31
ENSG00000005801	0.9736	1.9637	9.73E-10	5.35E-09	ZNF195	zinc finger   protein_co	11	3339261	3379222	-1	p15.4
ENSG00000055044	0.9735	1.9636	2.51E-22	3.97E-21	NOP58	NOP58 ribc protein_co	2	2.02E+08	2.02E+08	1	q33.1
ENSG00000196704	0.9733	1.9633	1.26E-14	1.04E-13	AMZ2	archaelysin protein_co	17	68247574	68257164	1	q24.2
ENSG00000128951	0.9731	1.9631	1.44E-15	1.28E-14	DUT	deoxyuridir protein_co	15	48331011	48343373	1	q21.1
ENSG00000261351	0.9727	1.9626	0.0023	0.0062	CTD-3185P2.1	antisense	15	66488658	66492109	-1	q22.31
ENSG00000171453	0.9724	1.962	1.63E-09	8.82E-09	POLR1C	polymerase protein_co	6	43509702	43529585	1	p21.1
ENSG00000105829	0.9716	1.961	3.17E-09	1.67E-08	BET1	Bet1 golgi \ protein_co	7	93962762	94004382	-1	q21.3
ENSG00000185745	0.9714	1.9607	0.005	0.0125	IFIT1	interferon- protein_co	10	89392546	89406486	1	q23.31
ENSG00000210140	0.9708	1.9599	0.0003	0.001	MT-TC	mitochond Mt_tRNA MT		5761	5826	-1	
ENSG00000134716	0.9706	1.9597	0.0005	0.0016	CYP2J2	cytochrom protein_co	1	59893308	59926790	-1	p32.1
ENSG00000050130	0.9706	1.9596	1.51E-12	1.05E-11	JKAMP	JNK1/MAPK protein_co	14	59484443	59505410	1	q23.1
ENSG00000114850	0.9701	1.9589	4.29E-09	2.22E-08	SSR3	signal sequ protein_co	3	1.57E+08	1.57E+08	-1	q25.31
ENSG00000251003	0.9698	1.9586	0.0002	0.0005	ZFPM2-AS1	ZFPM2 anti processed_	8	1.06E+08	1.06E+08	-1	q23.1
ENSG00000110031	0.9698	1.9585	0.0005	0.0015	LPXN	leupaxin [S protein_co	11	58526871	58578220	-1	q12.1
ENSG00000277972	0.9694	1.958	1.45E-18	1.66E-17	CISD3	CDGSH iror protein_co	17	38730235	38735044	1	q12
ENSG00000135318	0.9692	1.9578	0.0229	0.0499	NT5E	5'-nucleoti protein_co	6	85449584	85495791	1	q14.3
ENSG00000164898	0.9692	1.9577	9.35E-05	0.0003	C7orf55	chromosom protein_co	7	1.39E+08	1.39E+08	1	q34
ENSG00000214941	0.9686	1.9569	3.68E-20	4.83E-19	ZSWIM7	zinc finger, protein_co	17	15976560	15999717	-1	p12
ENSG00000149483	0.9686	1.9569	7.07E-14	5.51E-13	TMEM138	transmemt protein_co	11	61362001	61369509	1	q12.2
ENSG00000171806	0.9682	1.9564	6.23E-10	3.48E-09	METTL18	methyltran protein_co	1	1.7E+08	1.7E+08	-1	q24.2
ENSG00000072506	0.9679	1.956	1.55E-16	1.51E-15	HSD17B10	hydroxyste protein_co X		53431258	53434373	-1	p11.22
ENSG00000234745	0.9678	1.9558	7.45E-07	3.14E-06	HLA-B	major histo protein_co	6	31353872	31357188	-1	p21.33
ENSG00000225243	0.9676	1.9556	0.0029	0.0077	RP1-127D3.4	antisense	1	1.71E+08	1.71E+08	-1	q24.3
ENSG00000151364	0.967	1.9548	4.54E-05	0.0002	KCTD14	potassium   protein_co	11	78015715	78080219	-1	q14.1
ENSG00000137500	0.9663	1.9538	1.18E-11	7.61E-11	CCDC90B	coiled-coil   protein_co	11	83259097	83286407	-1	q14.1
ENSG00000000003	0.9662	1.9537	1.70E-12	1.18E-11	TSPAN6	tetraspanin protein_co X		1.01E+08	1.01E+08	-1	q22.1
ENSG00000148908	0.9659	1.9533	7.05E-11	4.28E-10	RGS10	regulator o protein_co	10	1.19E+08	1.2E+08	-1	q26.11
ENSG00000168259	0.9657	1.953	2.08E-26	4.78E-25	DNAJC7	DnaJ (Hsp4 protein_co	17	41976433	42021376	-1	q21.2
ENSG00000104883	0.9656	1.9529	0.0013	0.0037	PEX11G	peroxisom protein_co	19	7476875	7497449	-1	p13.2
ENSG00000228589	0.9655	1.9528	0.0007	0.002	SPCS2P4	signal pept processed_	1	28095742	28096422	-1	p35.3
ENSG00000053372	0.9654	1.9525	8.83E-19	1.03E-17	MRTO4	mRNA turn protein_co	1	19251539	19260128	1	p36.13
ENSG00000175322	0.9648	1.9518	0.0099	0.0234	ZNF519	zinc finger   protein_co	18	14057457	14132490	-1	p11.21
ENSG00000069329	0.9641	1.9509	2.03E-23	3.53E-22	VPS35	vacuolar pr protein_co	16	46656132	46689518	-1	q11.2
ENSG00000197124	0.9635	1.95	0.0004	0.0013	ZNF682	zinc finger   protein_co	19	19997058	20039506	-1	p12
ENSG00000143786	0.9629	1.9492	0.0017	0.0047	CNIH3	cornichon f protein_co	1	2.24E+08	2.25E+08	1	q42.12
ENSG00000228624	0.9621	1.9482	0.0048	0.0121	RP3-399L15.3	antisense	6	1.14E+08	1.14E+08	1	q21
ENSG00000101343	0.9621	1.9481	1.32E-16	1.29E-15	CRNKL1	crooked ne protein_co	20	20034368	20056046	-1	p11.23



ENSG00000147509	0.9619	1.9479	0.0015	0.0042	RGS20	regulator o protein_co	8	53851808	53959303	1	q11.23
ENSG00000188483	0.9619	1.9478	1.49E-11	9.56E-11	IER5L	immediate protein_co	9	1.29E+08	1.29E+08	-1	q34.11
ENSG00000271913	0.961	1.9467	0.0053	0.0133	RP1-111C20.4	antisense	6	1.59E+08	1.59E+08	1	q25.3
ENSG00000130770	0.9606	1.9461	4.69E-07	2.01E-06	ATPIF1	ATPase inh protein_co	1	28236109	28246906	1	p35.3
ENSG00000113161	0.9603	1.9457	2.27E-26	5.20E-25	HMGCR	3-hydroxy-: protein_co	5	75336329	75362104	1	q13.3
ENSG00000145331	0.96	1.9453	1.74E-05	6.27E-05	TRMT10A	tRNA meth protein_co	4	99546709	99564032	-1	q23
ENSG00000094755	0.9596	1.9448	1.32E-08	6.52E-08	GABRP	gamma-amprotein_co	5	1.71E+08	1.71E+08	1	q35.1
ENSG00000214223	0.9592	1.9443	6.49E-08	3.03E-07	HNRNPA1P10	heterogene processed_	19	11666069	11667030	-1	p13.2
ENSG00000183010	0.9591	1.9441	5.97E-06	2.27E-05	PYCR1	pyrroline-5 protein_co	17	81932384	81942412	-1	q25.3
ENSG00000140307	0.9587	1.9436	7.07E-21	9.88E-20	GTF2A2	general tra protein_co	15	59638062	59657541	-1	q22.2
ENSG00000183696	0.9586	1.9435	0.0002	0.0007	UPP1	uridine phc protein_co	7	48088628	48108733	1	p12.3
ENSG00000126524	0.9583	1.943	8.76E-10	4.83E-09	SBDS	Shwachma protein_co	7	66987677	66995601	-1	q11.21
ENSG00000166788	0.9577	1.9422	3.39E-14	2.72E-13	SAAL1	serum amy protein_co	11	18069935	18106091	-1	p15.1
ENSG00000120725	0.9575	1.9419	7.33E-26	1.60E-24	SIL1	SIL1 nucleo protein_co	5	1.39E+08	1.39E+08	-1	q31.2
ENSG00000159685	0.9572	1.9415	3.83E-07	1.65E-06	CHCHD6	coiled-coil- protein_co	3	1.27E+08	1.27E+08	1	q21.3
ENSG00000130303	0.9571	1.9414	7.15E-13	5.15E-12	BST2	bone marr protein_co	19	17402939	17405648	-1	p13.11
ENSG00000136514	0.9567	1.9409	1.67E-09	9.00E-09	RTP4	receptor (c protein_co	3	1.87E+08	1.87E+08	1	q27.3
ENSG00000154813	0.9567	1.9408	4.66E-16	4.36E-15	DPH3	diphthamic protein_co	3	16257978	16264972	-1	p25.1
ENSG00000189077	0.9566	1.9408	2.33E-12	1.60E-11	TMEM120A	transmemt protein_co	7	75986837	75994659	-1	q11.23
ENSG00000173207	0.9557	1.9396	2.21E-08	1.07E-07	CKS1B	CDC28 prot protein_co	1	1.55E+08	1.55E+08	1	q21.3
ENSG00000131732	0.9557	1.9395	6.09E-10	3.41E-09	ZCCHC9	zinc finger, protein_co	5	81301590	81313297	1	q14.1
ENSG00000188342	0.9555	1.9393	7.52E-13	5.41E-12	GTF2F2	general tra protein_co	13	45120515	45284909	1	q14.12
ENSG00000171174	0.9554	1.9392	0.0174	0.039	RBKS	ribokinase protein_co	2	27781364	27891098	-1	p23.2
ENSG00000122481	0.9547	1.9382	0.0001	0.0004	RWDD3	RWD doma protein_co	1	95234155	95247225	1	p21.3
ENSG00000182362	0.9545	1.938	1.53E-08	7.53E-08	YBEY	ybeY metal protein_co	21	46286337	46297751	1	q22.3
ENSG00000233836	0.9546	1.938	0.0001	0.0004	RP11-255H23.2	transcribed	19	23762944	23833314	1	p12
ENSG00000171889	0.9545	1.9379	1.87E-12	1.30E-11	MIR31HG	MIR31 hostsense_over	9	21455642	21559669	-1	p21.3
ENSG00000151465	0.9543	1.9376	7.58E-33	3.13E-31	CDC123	cell divisior protein_co	10	12195965	12250589	1	p14
ENSG00000084754	0.9543	1.9376	2.04E-21	3.00E-20	HADHA	hydroxyacy protein_co	2	26190635	26244726	-1	p23.3
ENSG00000233527	0.9541	1.9374	0.0007	0.0019	ZNF529-AS1	ZNF529 antisense	19	36573070	36594708	1	q13.12
ENSG00000148572	0.9538	1.937	7.10E-26	1.55E-24	NRBF2	nuclear rec protein_co	10	63133247	63155031	1	q21.3
ENSG00000085760	0.9538	1.937	1.08E-16	1.06E-15	MTIF2	mitochondi protein_co	2	55236595	55269347	-1	p16.1
ENSG00000028203	0.9538	1.937	5.75E-12	3.82E-11	VEZT	vezatin, adl protein_co	12	95217746	95302790	1	q22
ENSG00000156239	0.9537	1.9369	1.07E-15	9.64E-15	N6AMT1	N-6 adenin protein_co	21	28872191	28885371	-1	q21.3
ENSG00000151470	0.9531	1.9361	9.89E-08	4.53E-07	C4orf33	chromoson protein_co	4	1.29E+08	1.29E+08	1	q28.2
ENSG00000164610	0.953	1.9358	3.11E-10	1.79E-09	RP9	retinitis pig protein_co	7	33094797	33109401	-1	p14.3
ENSG00000160606	0.9529	1.9358	2.74E-07	1.20E-06	TLCD1	TLC domair protein_co	17	28724348	28727935	-1	q11.2
ENSG00000105135	0.9527	1.9355	4.56E-24	8.45E-23	ILVBL	ilvB (bacter protein_co	19	15114984	15125785	-1	p13.12
ENSG00000114771	0.9527	1.9355	0.0046	0.0116	AADAC	arylacetam protein_co	3	1.52E+08	1.52E+08	1	q25.1
ENSG00000164116	0.9527	1.9354	0.0006	0.0018	GUCY1A3	guanylate c protein_co	4	1.56E+08	1.56E+08	1	q32.1
ENSG00000118197	0.9524	1.935	9.38E-18	1.01E-16	DDX59	DEAD (Asp- protein_co	1	2.01E+08	2.01E+08	-1	q32.1

ENSG00000233554	0.9523	1.935	0.0002	0.0005 B4GALT1-AS1	B4GALT1 antisense	9	33166975	33179983	1	p21.1
ENSG00000224081	0.9521	1.9347	5.98E-05	0.0002 LINC01057	long intergenic lincRNA	1	94638461	94820281	-1	p21.3
ENSG00000228782	0.9517	1.9341	0.0001	0.0004 MRPL45P2	mitochondrial transcribed	17	47450568	47492492	-1	q21.32
ENSG00000234076	0.9516	1.934	0.0149	0.0339 TPRG1-AS1	TPRG1 anti lincRNA	3	1.89E+08	1.89E+08	-1	q28
ENSG00000251022	0.9509	1.9331	7.68E-15	6.47E-14 THAP9-AS1	THAP9 anti antisense	4	82893009	82900960	-1	q21.22
ENSG00000214413	0.9508	1.933	5.93E-06	2.26E-05 BBIP1	BBSome interacting protein	10	1.11E+08	1.11E+08	-1	q25.2
ENSG00000129968	0.9505	1.9326	2.32E-22	3.68E-21 ABHD17A	abhydrolase protein	19	1876810	1885547	-1	p13.3
ENSG00000104325	0.9495	1.9313	1.77E-16	1.72E-15 DECR1	2,4-dienoyl-CoA reductase	8	90001405	90052092	1	q21.3
ENSG00000237973	0.9495	1.9311	8.58E-12	5.62E-11 MIR6723	microRNA (unprocessed)	1	631074	632616	1	p36.33
ENSG00000134152	0.9491	1.9306	8.21E-10	4.54E-09 KATNBL1	katanin binding protein	15	34140674	34210096	-1	q14
ENSG00000171291	0.949	1.9306	1.26E-06	5.16E-06 ZNF439	zinc finger protein	19	11848726	11883750	1	p13.2
ENSG00000260708	0.9491	1.9306	0.0057	0.0141 CTA-29F11.1	antisense	22	46761894	46762563	-1	q13.31
ENSG00000077152	0.9487	1.9301	0.0024	0.0064 UBE2T	ubiquitin-conjugating protein	1	2.02E+08	2.02E+08	-1	q32.1
ENSG00000117335	0.9483	1.9297	8.58E-13	6.12E-12 CD46	CD46 molecule	1	2.08E+08	2.08E+08	1	q32.2
ENSG00000029639	0.9482	1.9295	2.59E-15	2.26E-14 TFB1M	transcription factor	6	1.55E+08	1.55E+08	-1	q25.3
ENSG00000125772	0.9482	1.9294	2.49E-08	1.20E-07 GPCPD1	glycerophosphorylcholine phosphodiesterase	20	5544439	5611026	-1	p12.3
ENSG00000065154	0.9479	1.929	3.04E-10	1.75E-09 OAT	ornithine aminotransferase	10	1.24E+08	1.24E+08	-1	q26.13
ENSG00000213967	0.9477	1.9287	0.0119	0.0277 ZNF726	zinc finger protein	19	23914876	23945159	1	p12
ENSG00000176153	0.9476	1.9286	0.0003	0.001 GPX2	glutathione peroxidase	14	64939152	64942905	-1	q23.3
ENSG00000053371	0.9474	1.9284	6.85E-06	2.59E-05 AKR7A2	aldo-ketoreductase	1	19303965	19312146	-1	p36.13
ENSG00000136560	0.9472	1.9281	8.76E-14	6.77E-13 TANK	TRAF family protein	2	1.61E+08	1.61E+08	1	q24.2
ENSG00000040275	0.947	1.9279	4.15E-09	2.15E-08 SPDL1	spindle apparatus protein	5	1.7E+08	1.7E+08	1	q35.1
ENSG00000214376	0.947	1.9279	0.0006	0.0018 VSTM5	V-set and tetratricopeptide repeat	11	93818232	93850531	-1	q21
ENSG00000258376	0.947	1.9279	0.0059	0.0146 RP4-647C14.2	antisense	14	73242651	73245979	-1	q24.2
ENSG00000177889	0.9469	1.9277	1.66E-27	4.20E-26 UBE2N	ubiquitin-conjugating protein	12	93405673	93442262	-1	q22
ENSG00000124767	0.9469	1.9277	7.87E-17	7.87E-16 GLO1	glyoxalase	6	38675925	38703141	-1	p21.2
ENSG00000148688	0.9465	1.9272	4.47E-17	4.53E-16 RPP30	ribonucleasase	10	90871716	90908553	1	q23.31
ENSG00000146282	0.9454	1.9257	2.71E-25	5.61E-24 RARS2	arginyl-tRNA synthetase	6	87514378	87590003	-1	q15
ENSG00000169251	0.9449	1.925	1.40E-12	9.83E-12 NMD3	NMD3 ribonucleoprotein	3	1.61E+08	1.61E+08	1	q26.1
ENSG00000163975	0.9448	1.9249	0.0221	0.0484 MFI2	antigen p97	3	1.97E+08	1.97E+08	-1	q29
ENSG00000173113	0.9447	1.9248	3.95E-21	5.66E-20 TRMT112	tRNA methyltransferase	11	64316460	64318084	-1	q13.1
ENSG00000119718	0.9446	1.9247	4.12E-28	1.10E-26 EIF2B2	eukaryotic translation initiation factor	14	75002911	75012366	1	q24.3
ENSG00000128789	0.944	1.9238	8.59E-17	8.57E-16 PSMG2	proteasome activator	18	12658043	12725740	1	p11.21
ENSG00000107672	0.9439	1.9237	1.02E-12	7.22E-12 NSMCE4A	non-SMC essential	10	1.22E+08	1.22E+08	-1	q26.13
ENSG00000120699	0.9437	1.9235	3.16E-14	2.54E-13 EXOSC8	exosome component	13	36998816	37009613	1	q13.3
ENSG00000163002	0.9436	1.9233	6.64E-15	5.61E-14 NUP35	nucleoporin	2	1.83E+08	1.83E+08	1	q32.1
ENSG00000134824	0.9435	1.9232	8.50E-05	0.0003 FADS2	fatty acid desaturase	11	61792980	61867354	1	q12.2
ENSG00000102978	0.9431	1.9226	9.44E-23	1.55E-21 POLR2C	polymerase	16	57462387	57472010	1	q21
ENSG00000128039	0.9428	1.9223	2.62E-09	1.39E-08 SRD5A3	steroid 5 alpha reductase	4	55346109	55373096	1	q12
ENSG00000100883	0.9426	1.922	1.95E-24	3.68E-23 SRP54	signal recognition	14	34981957	35029567	1	q13.2
ENSG00000100644	0.9422	1.9214	6.74E-06	2.55E-05 HIF1A	hypoxia-inducible factor	14	61695513	61748259	1	q23.2

ENSG00000104356	0.9421	1.9213	2.72E-09	1.44E-08	POP1	processing protein_co	8	98117297	98159834	1	q22.2
ENSG00000174446	0.9416	1.9207	2.56E-11	1.61E-10	SNAPC5	small nucle protein_co	15	66490135	66497813	-1	q22.31
ENSG00000116752	0.9415	1.9206	1.07E-24	2.08E-23	BCAS2	breast carc protein_co	1	1.15E+08	1.15E+08	-1	p13.2
ENSG00000149292	0.9414	1.9204	0.0009	0.0026	TTC12	tetratricop protein_co	11	1.13E+08	1.13E+08	1	q23.2
ENSG00000226328	0.9412	1.9201	1.69E-05	6.12E-05	NUP50-AS1	NUP50 anti lincRNA	22	45133020	45163781	-1	q13.31
ENSG00000112874	0.9408	1.9196	2.52E-10	1.45E-09	NUDT12	nudix (nucl protein_co	5	1.04E+08	1.04E+08	-1	q21.2
ENSG00000139131	0.9407	1.9194	3.43E-20	4.52E-19	YARS2	tyrosyl-tRN protein_co	12	32727490	32755902	-1	p11.21
ENSG0000007933	0.9402	1.9188	0.0156	0.0353	FMO3	flavin cont protein_co	1	1.71E+08	1.71E+08	1	q24.3
ENSG00000120727	0.9401	1.9187	1.41E-13	1.07E-12	PAIP2	poly(A) bin protein_co	5	1.39E+08	1.39E+08	1	q31.2
ENSG00000185420	0.9401	1.9186	1.29E-13	9.85E-13	SMYD3	SET and M protein_co	1	2.46E+08	2.47E+08	-1	q44
ENSG00000106034	0.9394	1.9177	0.0028	0.0074	CPED1	cadherin-lil protein_co	7	1.21E+08	1.21E+08	1	q31.31
ENSG00000131966	0.9392	1.9175	2.90E-23	4.95E-22	ACTR10	actin-relate protein_co	14	58200080	58235636	1	q23.1
ENSG00000008952	0.9391	1.9173	1.02E-12	7.22E-12	SEC62	SEC62 hom protein_co	3	1.7E+08	1.7E+08	1	q26.2
ENSG00000058729	0.9388	1.9169	9.39E-17	9.31E-16	RIOK2	RIO kinase protein_co	5	97160867	97183260	-1	q15
ENSG00000138303	0.9387	1.9168	9.74E-22	1.47E-20	ASCC1	activating s protein_co	10	72096032	72217134	-1	q22.1
ENSG00000227110	0.9382	1.9161	0.0146	0.0332	LMCD1-AS1	LMCD1 ant antisense	3	7952805	8611924	-1	p25.3
ENSG00000225177	0.9378	1.9157	0.0016	0.0043	FLJ46906	uncharacte antisense	6	1.39E+08	1.39E+08	1	q24.1
ENSG00000152404	0.9376	1.9153	2.34E-12	1.61E-11	CWF19L2	CWF19-like protein_co	11	1.07E+08	1.07E+08	-1	q22.3
ENSG00000070526	0.9369	1.9144	2.43E-08	1.17E-07	ST6GALNAC1	ST6 (alpha- protein_co	17	76624761	76643838	-1	q25.1
ENSG00000140740	0.9368	1.9142	8.57E-14	6.63E-13	UQCRC2	ubiquinol-c protein_co	16	21952660	21983660	1	p12.2
ENSG00000237310	0.9367	1.9142	0.0169	0.038	GS1-124K5.4	lincRNA	7	66493706	66495474	1	q11.21
ENSG00000135549	0.9364	1.9138	0.0081	0.0196	PKIB	protein kin protein_co	6	1.22E+08	1.23E+08	1	q22.31
ENSG00000091482	0.9358	1.9129	0.0194	0.0428	SMPX	small musc protein_co X		21705972	21758163	-1	p22.12
ENSG00000176973	0.9357	1.9128	4.27E-07	1.84E-06	FAM89B	family with protein_co	11	65572349	65574198	1	q13.1
ENSG00000118508	0.9355	1.9126	0.0015	0.0042	RAB32	RAB32, me protein_co	6	1.47E+08	1.47E+08	1	q24.3
ENSG00000245648	0.9355	1.9125	0.0024	0.0065	RP11-277P12.20	antisense	12	10363769	10398506	1	p13.2
ENSG00000004866	0.9352	1.9122	6.21E-18	6.75E-17	ST7	suppressor protein_co	7	1.17E+08	1.17E+08	1	q31.2
ENSG00000178922	0.935	1.9118	4.90E-09	2.52E-08	HYI	hydroxypyr protein_co	1	43451003	43453989	-1	p34.2
ENSG00000103316	0.9344	1.9111	7.62E-06	2.86E-05	CRYM	crystallin, n protein_co	16	21238874	21303083	-1	p12.2
ENSG00000179178	0.9339	1.9105	3.12E-11	1.95E-10	TMEM125	transmemt protein_co	1	43269994	43274002	1	p34.2
ENSG00000135775	0.9336	1.91	2.04E-27	5.12E-26	COG2	component protein_co	1	2.31E+08	2.31E+08	1	q42.2
ENSG00000254682	0.9336	1.91	0.0137	0.0314	RP11-660L16.2	antisense	11	71448674	71452157	1	q13.4
ENSG00000198840	0.9335	1.9098	1.63E-14	1.34E-13	MT-ND3	mitochondi protein_co MT		10059	10404	1	
ENSG00000115271	0.9331	1.9094	4.81E-14	3.80E-13	GCA	grancalcin, protein_co	2	1.62E+08	1.62E+08	1	q24.2
ENSG00000166946	0.9325	1.9085	9.96E-18	1.07E-16	CCNDBP1	cyclin D-tyf protein_co	15	43185118	43197176	1	q15.2
ENSG00000278376	0.9323	1.9083	0.0189	0.0419	RP11-158I9.8	lincRNA	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000116030	0.9319	1.9078	4.58E-22	7.10E-21	SUMO1	small ubiq protein_co	2	2.02E+08	2.02E+08	-1	q33.1
ENSG00000177459	0.9319	1.9077	1.45E-08	7.17E-08	ERICH5	glutamate- protein_co	8	98064311	98093610	1	q22.2
ENSG00000114491	0.9317	1.9075	3.66E-26	8.21E-25	UMPS	uridine mo protein_co	3	1.25E+08	1.25E+08	1	q21.2
ENSG00000139354	0.9316	1.9074	0.006	0.0149	GAS2L3	growth arr protein_co	12	1.01E+08	1.01E+08	1	q23.1
ENSG00000125835	0.9292	1.9042	4.56E-23	7.67E-22	SNRPB	small nucle protein_co	20	2461634	2470853	-1	p13

ENSG0000067836	0.929	1.904	3.25E-14	2.61E-13	ROGDI	rogdi homc protein_co	16	4796968	4802950	-1	p13.3
ENSG00000137965	0.9291	1.904	1.56E-07	7.04E-07	IFI44	interferon- protein_co	1	78649796	78664078	1	p31.1
ENSG00000251259	0.9285	1.9033	3.11E-05	0.0001	AC004069.2	lincRNA	4	1.05E+08	1.05E+08	-1	q24
ENSG00000117697	0.9282	1.9029	4.75E-14	3.75E-13	NSL1	NSL1, MIS1 protein_co	1	2.13E+08	2.13E+08	-1	q32.3
ENSG00000172062	0.9282	1.9029	2.73E-07	1.20E-06	SMN1	survival of protein_co	5	70925030	70953942	1	q13.2
ENSG00000065615	0.9281	1.9028	1.05E-12	7.41E-12	CYB5R4	cytochrome protein_co	6	83859643	83967424	1	q14.2
ENSG00000134375	0.9277	1.9023	1.83E-12	1.27E-11	TIMM17A	translocase protein_co	1	2.02E+08	2.02E+08	1	q32.1
ENSG00000266412	0.9276	1.9021	1.97E-13	1.48E-12	NCOA4	nuclear rec protein_co	10	46005088	46030714	-1	q11.22
ENSG00000240342	0.9274	1.9019	9.13E-09	4.59E-08	RPS2P5	ribosomal processed_	12	1.18E+08	1.18E+08	1	q24.23
ENSG00000158092	0.9257	1.8996	4.55E-10	2.57E-09	NCK1	NCK adapt protein_co	3	1.37E+08	1.37E+08	1	q22.3
ENSG00000066322	0.9256	1.8995	1.71E-24	3.26E-23	ELOVL1	ELOVL fatty protein_co	1	43363397	43368074	-1	p34.2
ENSG00000145919	0.9255	1.8994	1.11E-17	1.19E-16	BOD1	bioorientatic protein_co	5	1.74E+08	1.74E+08	-1	q35.2
ENSG00000110696	0.9254	1.8992	4.25E-21	6.07E-20	C11orf58	chromoson protein_co	11	16613132	16756881	1	p15.2
ENSG00000153975	0.9254	1.8992	5.45E-12	3.64E-11	ZUFSP	zinc finger protein_co	6	1.17E+08	1.17E+08	-1	q22.1
ENSG00000065911	0.9254	1.8992	1.78E-07	7.98E-07	MTHFD2	methylene protein_co	2	74198562	74217565	1	p13.1
ENSG00000099840	0.9253	1.8991	0.0022	0.0059	IZUMO4	IZUMO far protein_co	19	2096429	2099593	1	p13.3
ENSG00000060971	0.9252	1.8989	4.39E-13	3.21E-12	ACAA1	acetyl-CoA protein_co	3	38103129	38137242	-1	q22.2
ENSG00000064989	0.9247	1.8983	2.18E-05	7.78E-05	CALCRL	calcitonin r protein_co	2	1.87E+08	1.87E+08	-1	q32.1
ENSG00000128609	0.9238	1.8971	4.16E-12	2.80E-11	NDUFAS5	NADH dehy protein_co	7	1.24E+08	1.24E+08	-1	q31.32
ENSG00000131043	0.9235	1.8968	3.27E-22	5.09E-21	AAR2	AAR2 splici protein_co	20	36236459	36270918	1	q11.23
ENSG00000162385	0.9236	1.8968	2.27E-11	1.44E-10	MAGOH	mago-nash protein_co	1	53226892	53238610	-1	p32.3
ENSG00000114125	0.9234	1.8965	1.50E-29	4.62E-28	RNF7	ring finger protein_co	3	1.42E+08	1.42E+08	1	q23
ENSG00000070761	0.9233	1.8965	6.67E-05	0.0002	CFAP20	cilia and fla protein_co	16	58113588	58129450	-1	q21
ENSG00000121895	0.9233	1.8964	0.0208	0.0457	TMEM156	transmemt protein_co	4	38966744	39032922	-1	p14
ENSG00000006468	0.9231	1.8962	0.0069	0.0168	ETV1	ets variant protein_co	7	13891228	13991425	-1	p21.2
ENSG00000143420	0.9229	1.8959	7.42E-18	8.01E-17	ENSA	endosulfine protein_co	1	1.51E+08	1.51E+08	-1	q21.3
ENSG00000075239	0.9229	1.8959	5.74E-05	0.0002	ACAT1	acetyl-CoA protein_co	11	1.08E+08	1.08E+08	1	q22.3
ENSG00000144029	0.9225	1.8954	1.66E-18	1.88E-17	MRPS5	mitochondi protein_co	2	95087207	95149434	-1	q11.1
ENSG00000147155	0.9224	1.8953	5.36E-22	8.27E-21	EBP	emopamil l protein_co X		48521158	48528716	1	p11.23
ENSG00000135655	0.9224	1.8953	2.11E-12	1.46E-11	USP15	ubiquitin s protein_co	12	62260338	62417431	1	q14.1
ENSG00000179958	0.9223	1.8951	1.57E-19	1.94E-18	DCTPP1	dCTP pyro protein_co	16	30423619	30430075	-1	p11.2
ENSG00000152433	0.9223	1.8951	2.96E-06	1.17E-05	ZNF547	zinc finger protein_co	19	57363477	57379565	1	q13.43
ENSG00000164347	0.9222	1.895	2.04E-07	9.06E-07	GFM2	G elongatic protein_co	5	74721204	74767371	-1	q13.3
ENSG00000123415	0.9217	1.8944	5.74E-17	5.77E-16	SMUG1	single-strar protein_co	12	54164745	54188994	-1	q13.13
ENSG00000144381	0.9213	1.8939	1.02E-08	5.11E-08	HSPD1	heat shock protein_co	2	1.97E+08	1.98E+08	-1	q33.1
ENSG00000131238	0.9211	1.8936	1.51E-34	7.69E-33	PPT1	palmitoyl-p protein_co	1	40072705	40097703	-1	p34.2
ENSG00000129535	0.9197	1.8917	0.0005	0.0014	NRL	neural retir protein_co	14	24080107	24115014	-1	q12
ENSG00000162604	0.9195	1.8915	1.31E-08	6.47E-08	TM2D1	TM2 domai protein_co	1	61681046	61725423	-1	p31.3
ENSG00000122035	0.9195	1.8914	1.35E-05	4.93E-05	RASL11A	RAS-like, fa protein_co	13	27270327	27273690	1	q12.2
ENSG00000100749	0.9194	1.8913	9.14E-06	3.40E-05	VRK1	vaccinia rel protein_co	14	96797304	96931722	1	q32.2
ENSG00000145050	0.9192	1.8911	6.81E-10	3.79E-09	MANF	mesenceph protein_co	3	51385047	51389397	1	p21.2

ENSG00000163738	0.9192	1.891	1.79E-07	8.00E-07	MTHFD2L	methylene protein_co	4	74114174	74303099	1	q13.3
ENSG00000253982	0.9188	1.8905	3.18E-07	1.39E-06	CTD-2336O2.1	antisense	8	1761990	1764502	-1	p23.3
ENSG00000142507	0.9182	1.8897	1.79E-20	2.41E-19	PSMB6	proteasom protein_co	17	4796144	4798503	1	p13.2
ENSG00000198406	0.9181	1.8897	4.51E-06	1.74E-05	BZW1P2	basic leucir processed_	3	1.17E+08	1.17E+08	-1	q13.31
ENSG00000036448	0.9181	1.8897	0.0001	0.0004	MYOM2	myomesin protein_co	8	2045040	2165552	1	p23.3
ENSG00000125450	0.9176	1.889	2.49E-12	1.71E-11	NUP85	nucleoporin protein_co	17	75205659	75235758	1	q25.1
ENSG00000242247	0.9166	1.8876	9.22E-20	1.17E-18	ARFGAP3	ADP-ribosy protein_co	22	42796502	42858106	-1	q13.2
ENSG00000205534	0.9166	1.8876	0.0003	0.001	SMG1P2	SMG1 pseu unprocesse	16	29527568	29594966	-1	p11.2
ENSG00000102243	0.9162	1.8872	2.45E-05	8.67E-05	VGLL1	vestigial-lik protein_co X		1.37E+08	1.37E+08	1	q26.3
ENSG00000134910	0.9157	1.8865	3.24E-17	3.32E-16	STT3A	STT3A, sub protein_co	11	1.26E+08	1.26E+08	1	q24.2
ENSG00000023041	0.9157	1.8865	2.18E-16	2.09E-15	ZDHHHC6	zinc finger, protein_co	10	1.12E+08	1.12E+08	-1	q25.2
ENSG00000173692	0.9156	1.8864	6.31E-49	1.56E-46	PSMD1	proteasom protein_co	2	2.31E+08	2.31E+08	1	q37.1
ENSG00000184508	0.9153	1.886	6.62E-06	2.50E-05	HDDC3	HD domain protein_co	15	90929964	90932569	-1	q26.1
ENSG00000260083	0.9152	1.8858	0.0001	0.0003	MIR4519	microRNA antisense	16	30875222	30895220	1	p11.2
ENSG00000273841	0.9151	1.8856	1.12E-15	1.00E-14	AK6	adenylate t protein_co	5	69364743	69370013	-1	q13.2
ENSG00000234608	0.9148	1.8853	1.21E-10	7.18E-10	MAPKAPK5-AS1	MAPKAPK5 lincRNA	12	1.12E+08	1.12E+08	-1	q24.12
ENSG00000214114	0.9146	1.885	3.30E-05	0.0001	MYCBP	MYC bindir protein_co	1	38862964	38874495	-1	p34.3
ENSG00000104432	0.9145	1.8849	0.0105	0.0248	IL7	interleukin protein_co	8	78675743	78805523	-1	q21.13
ENSG00000164885	0.9142	1.8845	2.40E-10	1.39E-09	CDK5	cyclin-depe protein_co	7	1.51E+08	1.51E+08	-1	q36.1
ENSG00000144182	0.914	1.8842	4.55E-09	2.35E-08	LIPT1	lipoyltransf protein_co	2	99154955	99163157	1	q11.2
ENSG00000022277	0.9139	1.8841	8.17E-36	4.60E-34	RTFDC1	replication protein_co	20	56468585	56519449	1	q13.31
ENSG00000116171	0.9139	1.8841	4.37E-21	6.23E-20	SCP2	sterol carri protein_co	1	52927229	53051703	1	p32.3
ENSG00000115841	0.9136	1.8837	7.25E-10	4.03E-09	RMDN2	regulator o protein_co	2	37923187	38067142	1	p22.2
ENSG00000095209	0.9132	1.8832	3.00E-07	1.31E-06	TMEM38B	transmemt protein_co	9	1.06E+08	1.06E+08	1	q31.2
ENSG00000182208	0.913	1.883	1.54E-15	1.37E-14	MOB2	MOB kinas protein_co	11	1469457	1501247	-1	p15.5
ENSG00000168876	0.9129	1.8828	3.78E-10	2.15E-09	ANKRD49	ankyrin rep protein_co	11	94493629	94499583	1	q21
ENSG00000137692	0.9127	1.8826	2.24E-10	1.30E-09	DCUN1D5	DCN1, defe protein_co	11	1.03E+08	1.03E+08	-1	q22.3
ENSG00000146066	0.9122	1.882	1.96E-11	1.24E-10	HIGD2A	HIG1 hypox protein_co	5	1.76E+08	1.76E+08	1	q35.2
ENSG00000167705	0.9123	1.882	1.88E-08	9.22E-08	RILP	Rab interac protein_co	17	1646145	1650077	-1	p13.3
ENSG00000196812	0.9121	1.8818	5.55E-05	0.0002	ZSCAN16	zinc finger ; protein_co	6	28124560	28130082	1	p22.1
ENSG00000213614	0.9119	1.8815	3.06E-17	3.15E-16	HEXA	hexosamin protein_co	15	72340919	72376476	-1	q23
ENSG00000166200	0.9118	1.8814	9.91E-15	8.30E-14	COP52	COP9 signa protein_co	15	49106068	49155661	-1	q21.1
ENSG00000140988	0.9107	1.88	8.51E-10	4.70E-09	RPS2	ribosomal t protein_co	16	1962052	1964860	-1	p13.3
ENSG00000197579	0.9097	1.8787	5.57E-17	5.61E-16	TOPORS	topoisome protein_co	9	32540544	32552553	-1	p21.1
ENSG00000138138	0.9096	1.8785	3.59E-13	2.65E-12	ATAD1	ATPase fan protein_co	10	87751512	87841343	-1	q23.31
ENSG00000253368	0.9093	1.8781	0.008	0.0193	TRNP1	TMF1-regu protein_co	1	26993707	27000898	1	p36.11
ENSG00000243364	0.9091	1.8779	1.98E-09	1.06E-08	EFNA4	ephrin-A4 [ protein_co	1	1.55E+08	1.55E+08	1	q21.3
ENSG00000184840	0.9084	1.877	1.40E-10	8.26E-10	TMED9	transmemt protein_co	5	1.78E+08	1.78E+08	1	q35.3
ENSG00000134851	0.9082	1.8767	9.80E-13	6.97E-12	TMEM165	transmemt protein_co	4	55395957	55453397	1	q12
ENSG00000217801	0.9082	1.8766	0.0168	0.0379	RP11-465B22.3	transcribed	1	1059734	1069355	1	p36.33
ENSG00000135324	0.9079	1.8764	0.0097	0.0229	MRAP2	melanocort protein_co	6	84033756	84090881	1	q14.2



ENSG0000089335	0.9079	1.8763	2.30E-14	1.87E-13	ZNF302	zinc finger  protein_co	19	34677639	34686397	1	q13.11
ENSG00000229809	0.9078	1.8762	0.0012	0.0033	ZNF688	zinc finger  protein_co	16	30569346	30572734	-1	p11.2
ENSG00000129083	0.9077	1.876	3.14E-24	5.87E-23	COPB1	coatamer $\zeta$ protein_co	11	14443440	14500027	-1	p15.2
ENSG00000214212	0.9071	1.8753	0.0079	0.0191	C19orf38	chromoson protein_co	19	10836575	10869790	1	p13.2
ENSG00000059691	0.9069	1.8751	1.46E-12	1.02E-11	GATB	glutamyl-tF protein_co	4	1.52E+08	1.52E+08	-1	q31.3
ENSG00000254286	0.9069	1.8751	0.0187	0.0416	RP11-89K10.1	antisense	8	1.27E+08	1.27E+08	1	q24.21
ENSG00000242770	0.9061	1.874	0.0063	0.0155	RP11-180K7.1	processed_	3	1.13E+08	1.13E+08	1	q13.2
ENSG00000180098	0.906	1.8738	5.95E-05	0.0002	TRNAU1AP	tRNA selen protein_co	1	28553085	28578545	-1	p35.3
ENSG00000144048	0.9058	1.8736	5.02E-15	4.29E-14	DUSP11	dual specifi protein_co	2	73762184	73780157	-1	p13.1
ENSG00000112339	0.9056	1.8733	3.73E-25	7.62E-24	HBS1L	HBS1-like t protein_co	6	1.35E+08	1.35E+08	-1	q23.3
ENSG00000234678	0.9056	1.8733	1.36E-06	5.56E-06	RP11-465N4.4	antisense	1	2.02E+08	2.02E+08	-1	q32.1
ENSG00000155463	0.9055	1.8731	1.46E-12	1.02E-11	OXA1L	oxidase (cy protein_co	14	22766522	22773041	1	q11.2
ENSG00000092020	0.9051	1.8727	4.16E-15	3.58E-14	PPP2R3C	protein phc protein_co	14	35085467	35122517	-1	q13.2
ENSG00000156253	0.9041	1.8713	6.87E-22	1.05E-20	RWDD2B	RWD doma protein_co	21	29004384	29019378	-1	q21.3
ENSG00000170142	0.904	1.8713	3.22E-15	2.79E-14	UBE2E1	ubiquitin-c protein_co	3	23805903	23891316	1	p24.2
ENSG00000169857	0.9036	1.8708	1.36E-09	7.37E-09	AVEN	apoptosis, i protein_co	15	33866227	34039176	-1	q14
ENSG00000100211	0.9035	1.8706	0.0024	0.0064	CBY1	chibby hor protein_co	22	38656636	38673854	1	q13.1
ENSG00000166478	0.9023	1.8691	1.03E-15	9.32E-15	ZNF143	zinc finger  protein_co	11	9460319	9528524	1	p15.4
ENSG00000109193	0.9023	1.869	0.001	0.0029	SULT1E1	sulfotransf protein_co	4	69810780	69860152	-1	q13.3
ENSG00000139737	0.9022	1.869	0.0046	0.0116	SLAIN1	SLAIN moti protein_co	13	77697854	77764242	1	q22.3
ENSG00000174175	0.9022	1.8689	0.0222	0.0485	SELP	selectin P (i protein_co	1	1.7E+08	1.7E+08	-1	q24.2
ENSG00000204356	0.9021	1.8688	0.0002	0.0006	NELFE	negative el protein_co	6	31952087	31959110	-1	p21.33
ENSG00000138271	0.9005	1.8667	2.34E-08	1.13E-07	GPR87	G protein-c protein_co	3	1.51E+08	1.51E+08	-1	q25.1
ENSG00000141682	0.8998	1.8658	6.78E-06	2.56E-05	PMAIP1	phorbol-12 protein_co	18	59899948	59904306	1	q21.32
ENSG00000135643	0.8996	1.8656	0.0089	0.0212	KCNMB4	potassium  protein_co	12	70366276	70434292	1	q15
ENSG00000180532	0.8993	1.8651	0.0217	0.0476	ZSCAN4	zinc finger :protein_co	19	57668935	57679152	1	q13.43
ENSG00000059377	0.8992	1.865	0.0041	0.0105	TBXAS1	thromboxa protein_co	7	1.4E+08	1.4E+08	1	q34
ENSG00000136628	0.8986	1.8643	3.86E-18	4.26E-17	EPRS	glutamyl-pi protein_co	1	2.2E+08	2.2E+08	-1	q41
ENSG00000272655	0.8986	1.8642	0.0013	0.0036	POLR2J4	transcribed	7	44013562	44019170	-1	p13
ENSG00000254093	0.898	1.8635	2.18E-06	8.71E-06	PINX1	PIN2/TERF: protein_co	8	10764963	10839884	-1	p23.1
ENSG00000178057	0.8979	1.8633	6.82E-11	4.15E-10	NDUFAF3	NADH dehy protein_co	3	49020459	49023495	1	p21.31
ENSG00000229132	0.8978	1.8633	0.0188	0.0417	EIF4A1P10	eukaryotic processed_X		92113246	92114461	-1	q21.31
ENSG00000088205	0.8972	1.8624	5.28E-28	1.39E-26	DDX18	DEAD (Asp- protein_co	2	1.18E+08	1.18E+08	1	q14.1
ENSG00000029993	0.8966	1.8616	5.68E-10	3.18E-09	HMGB3	high mobili protein_co X		1.51E+08	1.51E+08	1	q28
ENSG00000103591	0.8964	1.8615	1.25E-28	3.49E-27	AAGAB	alpha- and protein_co	15	67201033	67255195	-1	q23
ENSG00000158417	0.8962	1.8612	1.48E-38	1.19E-36	EIF5B	eukaryotic protein_co	2	99337353	99401326	1	q11.2
ENSG00000176125	0.8962	1.8611	0.0164	0.037	UFSP1	UFM1-spec protein_co	7	1.01E+08	1.01E+08	-1	q22.1
ENSG00000128272	0.896	1.8609	2.32E-22	3.68E-21	ATF4	activating t protein_co	22	39519695	39522685	1	q13.1
ENSG00000148459	0.8955	1.8602	0.0002	0.0007	PDSS1	prenyl (dec protein_co	10	26697659	26746798	1	p12.1
ENSG00000116161	0.8953	1.8599	8.92E-14	6.89E-13	CACYBP	calcyclin bii protein_co	1	1.75E+08	1.75E+08	1	q25.1
ENSG00000089048	0.8952	1.8598	1.70E-14	1.40E-13	ESF1	ESF1, nucle protein_co	20	13714322	13784886	-1	p12.1



ENSG0000013563	0.8951	1.8597	2.70E-14	2.18E-13 DNASE1L1	deoxyribon protein_co X	1.54E+08	1.54E+08	-1 q28
ENSG00000102024	0.8949	1.8595	2.43E-08	1.18E-07 PLS3	plastin 3 [S protein_co X	1.16E+08	1.16E+08	1 q23
ENSG00000203965	0.8944	1.8589	0.0017	0.0047 EFCAB7	EF-hand ca protein_co	1 63523372	63572693	1 p31.3
ENSG00000154814	0.8944	1.8588	3.76E-13	2.76E-12 OXNAD1	oxidoreduc protein_co	3 16265199	16350299	1 p25.1
ENSG00000110002	0.894	1.8583	3.39E-17	3.47E-16 VWA5A	von Willebr protein_co	11 1.24E+08	1.24E+08	1 q24.2
ENSG00000102796	0.8927	1.8566	7.30E-10	4.06E-09 DHRS12	dehydrogei protein_co	13 51767993	51804157	-1 q14.3
ENSG00000168904	0.8923	1.8562	2.26E-13	1.69E-12 LRRC28	leucine rich protein_co	15 99251362	99390729	1 q26.3
ENSG00000165704	0.8917	1.8554	1.74E-16	1.69E-15 HPRT1	hypoxanthi protein_co X	1.34E+08	1.35E+08	1 q26.2
ENSG00000152193	0.8918	1.8554	6.20E-10	3.46E-09 RNF219	ring finger   protein_co	13 78614291	78659179	-1 q31.1
ENSG00000174173	0.8912	1.8548	5.10E-10	2.87E-09 TRMT10C	tRNA meth protein_co	3 1.02E+08	1.02E+08	1 q12.3
ENSG00000278912	0.8913	1.8548	0.0181	0.0405 CTD-2196E14.8	TEC	16 23696665	23697314	-1 p12.2
ENSG00000135148	0.8908	1.8542	2.82E-31	1.00E-29 TRAFD1	TRAF-type : protein_co	12 1.12E+08	1.12E+08	1 q24.13
ENSG00000144848	0.8907	1.8541	1.54E-29	4.71E-28 ATG3	autophagy protein_co	3 1.13E+08	1.13E+08	-1 q13.2
ENSG00000159884	0.8907	1.8541	4.85E-13	3.54E-12 CCDC107	coiled-coil ( protein_co	9 35658290	35661511	1 p13.3
ENSG00000116701	0.8905	1.8538	9.78E-06	3.63E-05 NCF2	neutrophil protein_co	1 1.84E+08	1.84E+08	-1 q25.3
ENSG00000117614	0.89	1.8531	7.64E-15	6.44E-14 SYF2	SYF2 pre-m protein_co	1 25222679	25232502	-1 p36.11
ENSG00000139410	0.8898	1.853	7.30E-08	3.39E-07 SDSL	serine dehy protein_co	12 1.13E+08	1.13E+08	1 q24.13
ENSG00000204856	0.8899	1.853	0.0034	0.0089 FAM216A	family with protein_co	12 1.1E+08	1.1E+08	1 q24.11
ENSG00000171928	0.8898	1.8529	1.15E-10	6.86E-10 TVP23B	trans-golgi protein_co	17 18780995	18806714	1 p11.2
ENSG00000168282	0.8895	1.8526	3.96E-13	2.90E-12 MGAT2	mannosyl ( protein_co	14 49620795	49623481	1 q21.3
ENSG00000256771	0.8894	1.8524	8.47E-08	3.91E-07 ZNF253	zinc finger   protein_co	19 19865886	19894674	1 p13.11
ENSG00000104915	0.8891	1.8521	1.06E-20	1.46E-19 STX10	syntaxin 10 protein_co	19 13144058	13150383	-1 p13.13
ENSG00000239713	0.8891	1.852	2.68E-13	1.99E-12 APOBEC3G	apolipopro protein_co	22 39040961	39087743	1 q13.1
ENSG00000186792	0.889	1.852	8.64E-05	0.0003 HYAL3	hyaluronog protein_co	3 50292828	50299468	-1 p21.31
ENSG00000077232	0.8888	1.8517	4.15E-11	2.57E-10 DNAJC10	DnaJ (Hsp4 protein_co	2 1.83E+08	1.83E+08	1 q32.1
ENSG00000008394	0.8882	1.8509	3.53E-11	2.20E-10 MGST1	microsoma protein_co	12 16347142	16609259	1 p12.3
ENSG00000070010	0.888	1.8506	2.12E-17	2.21E-16 UFD1L	ubiquitin fu protein_co	22 19449910	19479215	-1 q11.21
ENSG00000250413	0.888	1.8506	0.005	0.0126 RP11-448G15.1	antisense	4 10006482	10009725	1 p16.1
ENSG00000198874	0.8878	1.8503	2.36E-15	2.06E-14 TYW1	tRNA-yW s1 protein_co	7 66995173	67239519	1 q11.21
ENSG00000130733	0.8875	1.85	7.27E-12	4.78E-11 YIPF2	Yip1 domai protein_co	19 10922185	10928681	-1 p13.2
ENSG00000064102	0.8874	1.8498	1.95E-26	4.51E-25 ASUN	asunder sp protein_co	12 26905181	26938326	-1 p11.23
ENSG00000166452	0.8874	1.8498	5.39E-08	2.54E-07 AKIP1	A kinase (P protein_co	11 89111139	8920084	1 p15.4
ENSG00000151876	0.8872	1.8496	6.84E-06	2.58E-05 FBXO4	F-box prote protein_co	5 41925254	41941743	1 p13.1
ENSG00000100814	0.8866	1.8488	1.76E-06	7.12E-06 CCNB1IP1	cyclin B1 in protein_co	14 20311368	20333312	-1 q11.2
ENSG00000197506	0.8866	1.8488	7.35E-05	0.0002 SLC28A3	solute carri protein_co	9 84275457	84340683	-1 q21.33
ENSG00000198843	0.8863	1.8484	2.79E-12	1.91E-11 SELT	selenoprot: protein_co	3 1.51E+08	1.51E+08	1 q25.1
ENSG00000147535	0.8862	1.8482	1.05E-15	9.44E-15 PPAPDC1B	phosphatid protein_co	8 38263130	38269243	-1 p11.23
ENSG00000246067	0.8857	1.8477	3.10E-05	0.0001 RAB30-AS1	RAB30 anti lincRNA	11 83072066	83106719	1 q14.1
ENSG00000100348	0.8856	1.8475	3.63E-15	3.14E-14 TXN2	thioredoxir protein_co	22 36467036	36482030	-1 q12.3
ENSG00000162972	0.8855	1.8474	2.02E-16	1.94E-15 C2orf47	chromoson protein_co	2 2E+08	2E+08	1 q33.1
ENSG00000011009	0.8854	1.8473	7.21E-22	1.10E-20 LYPLA2	lysophosph protein_co	1 23790970	23795539	1 p36.11

ENSG00000165660	0.8849	1.8466	1.42E-16	1.38E-15	FAM175B	family with protein_co	10	1.25E+08	1.25E+08	1	q26.13
ENSG00000006015	0.8847	1.8464	3.44E-18	3.81E-17	C19orf60	chromoson protein_co	19	18588685	18592336	1	p13.11
ENSG00000186162	0.8845	1.8462	9.84E-07	4.09E-06	CIDECP	cell death-i transcribed	3	10014238	10026365	-1	p25.3
ENSG00000143252	0.8844	1.8461	3.75E-12	2.54E-11	SDHC	succinate d protein_co	1	1.61E+08	1.61E+08	1	q23.3
ENSG00000148335	0.8843	1.8459	6.69E-21	9.35E-20	NTMT1	N-terminal protein_co	9	1.3E+08	1.3E+08	1	q34.11
ENSG00000228253	0.8844	1.8459	1.66E-10	9.74E-10	MT-ATP8	mitochond protein_co MT		8366	8572	1	
ENSG00000213593	0.8841	1.8457	1.17E-29	3.62E-28	TMX2	thioredoxin protein_co	11	57712600	57740973	1	q12.1
ENSG00000105197	0.8842	1.8457	5.80E-16	5.37E-15	TIMM50	translocase protein_co	19	39480412	39493785	1	q13.2
ENSG00000085662	0.8842	1.8457	4.34E-12	2.92E-11	AKR1B1	aldo-keto r protein_co	7	1.34E+08	1.34E+08	-1	q33
ENSG00000167377	0.8825	1.8436	0.0186	0.0415	ZNF23	zinc finger   protein_co	16	71447597	71463095	-1	q22.2
ENSG00000124279	0.8817	1.8426	3.96E-09	2.06E-08	FASTKD3	FAST kinase protein_co	5	7859159	7869037	-1	p15.31
ENSG00000117308	0.8812	1.8419	1.58E-12	1.11E-11	GALE	UDP-galact protein_co	1	23795599	23800804	-1	p36.11
ENSG00000034533	0.8811	1.8418	4.57E-09	2.37E-08	ASTE1	asteroid hc protein_co	3	1.31E+08	1.31E+08	-1	q22.1
ENSG00000204237	0.8804	1.8408	2.06E-21	3.03E-20	OXLD1	oxidoreduc protein_co	17	81665036	81666635	-1	q25.3
ENSG00000130775	0.88	1.8404	0.0055	0.0137	THEMIS2	thymocyte protein_co	1	27872543	27886685	1	p35.3
ENSG00000136104	0.8791	1.8393	7.18E-12	4.73E-11	RNASEH2B	ribonucleas protein_co	13	50909678	50973745	1	q14.3
ENSG00000122882	0.8788	1.8389	5.39E-30	1.71E-28	ECD	ecdysonele protein_co	10	73130155	73169055	-1	q22.2
ENSG00000171224	0.8783	1.8382	8.20E-09	4.13E-08	C10orf35	chromoson protein_co	10	69630251	69633599	1	q22.1
ENSG00000173272	0.8781	1.838	6.91E-12	4.55E-11	MZT2A	mitotic spir protein_co	2	1.31E+08	1.31E+08	-1	q21.1
ENSG00000168938	0.878	1.8378	4.57E-15	3.92E-14	PPIC	peptidylprc protein_co	5	1.23E+08	1.23E+08	-1	q23.2
ENSG00000104312	0.8775	1.8372	0.0001	0.0005	RIPK2	receptor-in protein_co	8	89757747	89791063	1	q21.3
ENSG00000165259	0.8771	1.8367	9.57E-07	3.99E-06	HDX	highly diver protein_co X		84317874	84502479	-1	q21.1
ENSG00000116221	0.8764	1.8358	5.74E-22	8.81E-21	MRPL37	mitochond protein_co	1	54184041	54225464	1	p32.3
ENSG00000041988	0.876	1.8352	7.23E-11	4.39E-10	THAP3	THAP dom; protein_co	1	6624866	6635586	1	p36.31
ENSG00000269386	0.8756	1.8348	5.11E-08	2.41E-07	RAB11B-AS1	RAB11B an antisense	19	8374373	8390685	-1	p13.2
ENSG00000101928	0.875	1.834	4.04E-08	1.92E-07	MOSPD1	motile sper protein_co X		1.35E+08	1.35E+08	-1	q26.3
ENSG00000116670	0.8748	1.8337	6.13E-11	3.75E-10	MAD2L2	MAD2 mitc protein_co	1	11674480	11691650	-1	p36.22
ENSG00000034510	0.8746	1.8336	4.28E-12	2.88E-11	TMSB10	thymosin b protein_co	2	84905625	84906675	1	p11.2
ENSG00000179021	0.8745	1.8333	8.89E-12	5.81E-11	C3orf38	chromoson protein_co	3	88149743	88168729	1	p11.1
ENSG00000170631	0.8745	1.8333	3.98E-08	1.90E-07	ZNF16	zinc finger   protein_co	8	1.45E+08	1.45E+08	-1	q24.3
ENSG00000142544	0.8743	1.8332	3.32E-06	1.30E-05	CTU1	cytosolic th protein_co	19	51097606	51108370	-1	q13.41
ENSG00000115091	0.8738	1.8324	7.02E-22	1.07E-20	ACTR3	ARP3 actin- protein_co	2	1.14E+08	1.14E+08	1	q14.1
ENSG00000167588	0.8736	1.8322	0.0003	0.0008	GPD1	glycerol-3- $\beta$ protein_co	12	50103819	50111319	1	q13.12
ENSG00000092036	0.873	1.8315	4.61E-05	0.0002	HAUS4	HAUS augn protein_co	14	22946228	22957161	-1	q11.2
ENSG00000109065	0.873	1.8314	1.25E-12	8.76E-12	NAT9	N-acetyltra protein_co	17	74770547	74776367	-1	q25.1
ENSG00000116906	0.8728	1.8312	5.90E-24	1.08E-22	GNPAT	glyceronep protein_co	1	2.31E+08	2.31E+08	1	q42.2
ENSG00000108039	0.8727	1.8311	5.33E-22	8.23E-21	XPNPEP1	X-prolyl am protein_co	10	1.1E+08	1.1E+08	-1	q25.1
ENSG00000237350	0.8726	1.8309	0.0002	0.0006	CDC42P6	cell divisior processed_	4	22727375	22727950	-1	p15.2
ENSG00000141198	0.872	1.8302	2.30E-15	2.01E-14	TOM1L1	target of m protein_co	17	54899387	54961956	1	q22
ENSG00000165501	0.8719	1.8301	3.89E-06	1.51E-05	LRR1	leucine rich protein_co	14	49598697	49614672	1	q21.3
ENSG00000197013	0.8719	1.8301	3.75E-05	0.0001	ZNF429	zinc finger   protein_co	19	21496682	21556270	1	p12

ENSG00000177465	0.8717	1.8298	6.17E-05	0.0002 ACOT4	acyl-CoA thprotein_co	14	73591706	73596496	1	q24.3
ENSG00000116678	0.8714	1.8295	0.0009	0.0026 LEPR	leptin receprotein_co	1	65420652	65641559	1	p31.3
ENSG00000163376	0.871	1.829	0.0048	0.0121 KBTBD8	kelch repeprotein_co	3	66998307	67011210	1	p14.1
ENSG00000261437	0.8711	1.829	0.0062	0.0152 RP11-22C11.2	antisense	8	94637285	94639467	-1	q22.1
ENSG00000057663	0.8709	1.8288	5.57E-16	5.18E-15 ATG5	autophagy protein_co	6	1.06E+08	1.06E+08	-1	q21
ENSG00000102879	0.8706	1.8284	0.0048	0.012 CORO1A	coronin, ac protein_co	16	30182827	30189076	1	p11.2
ENSG00000092108	0.8702	1.8279	2.93E-15	2.55E-14 SCFD1	sec1 family protein_co	14	30622112	30735812	1	q12
ENSG00000105672	0.8702	1.8279	0.0113	0.0264 ETV2	ets variant protein_co	19	35641745	35644871	1	q13.12
ENSG00000163510	0.8699	1.8276	1.97E-20	2.64E-19 CWC22	CWC22 spli protein_co	2	1.8E+08	1.8E+08	-1	q31.3
ENSG00000109775	0.8692	1.8267	1.61E-14	1.32E-13 UFPS2	UFM1-spec protein_co	4	1.85E+08	1.85E+08	-1	q35.1
ENSG00000204619	0.8692	1.8266	1.02E-21	1.53E-20 PPP1R11	protein phc protein_co	6	30066709	30070333	1	p22.1
ENSG00000166477	0.8689	1.8263	2.44E-14	1.98E-13 LEO1	Leo1, Paf1/ protein_co	15	51938025	51971806	-1	q21.2
ENSG00000115289	0.8689	1.8263	1.37E-10	8.08E-10 PCGF1	polycomb ξ protein_co	2	74505043	74508580	-1	p13.1
ENSG00000134121	0.8688	1.8261	0.0003	0.001 CHL1	cell adhesi protein_co	3	196596	409417	1	p26.3
ENSG00000210144	0.8688	1.8261	0.0071	0.0174 MT-TY	mitochondi Mt_tRNA MT		5826	5891	-1	
ENSG00000168275	0.8685	1.8258	1.03E-10	6.17E-10 COA6	cytochrom protein_co	1	2.34E+08	2.34E+08	1	q42.2
ENSG00000255717	0.8685	1.8257	3.14E-05	0.0001 SNHG1	small nucle processed_	11	62851988	62855914	-1	q12.3
ENSG00000140463	0.8683	1.8255	0.0005	0.0015 BBS4	Bardet-Bier protein_co	15	72686179	72738476	1	q24.1
ENSG00000128513	0.8682	1.8253	1.47E-08	7.24E-08 POT1	protection protein_co	7	1.25E+08	1.25E+08	-1	q31.33
ENSG00000126522	0.8676	1.8247	8.96E-16	8.14E-15 ASL	argininosu protein_co	7	66075798	66093558	1	q11.21
ENSG00000072274	0.8673	1.8243	0.0016	0.0043 TFRC	transferrin protein_co	3	1.96E+08	1.96E+08	-1	q29
ENSG00000197635	0.8673	1.8242	0.0086	0.0206 DPP4	dipeptidyl- protein_co	2	1.62E+08	1.62E+08	-1	q24.2
ENSG00000169403	0.8667	1.8235	7.43E-20	9.51E-19 PTAFR	platelet-act protein_co	1	28147166	28193936	-1	p35.3
ENSG00000239779	0.8667	1.8234	9.21E-07	3.85E-06 WBP1	WW domai protein_co	2	74458329	74460891	1	p13.1
ENSG00000204616	0.866	1.8226	3.77E-08	1.80E-07 TRIM31	tripartite rr protein_co	6	30102897	30113106	-1	p22.1
ENSG00000145632	0.866	1.8226	0.0018	0.0049 PLK2	polo-like ki protein_co	5	58453982	58460260	-1	q11.2
ENSG00000159346	0.8657	1.8223	1.44E-22	2.33E-21 ADIPOR1	adiponectir protein_co	1	2.03E+08	2.03E+08	-1	q32.1
ENSG00000237489	0.8653	1.8218	0.0015	0.0041 LINC00959	long interg lincRNA	10	1.3E+08	1.3E+08	-1	q26.3
ENSG00000023697	0.8652	1.8216	1.37E-09	7.45E-09 DERA	deoxyribos protein_co	12	15911172	16037282	1	p12.3
ENSG00000204954	0.8651	1.8214	1.80E-06	7.27E-06 C12orf73	chromoson protein_co	12	1.04E+08	1.04E+08	-1	q23.3
ENSG00000105854	0.8646	1.8209	6.62E-06	2.51E-05 PON2	paraoxona: protein_co	7	95404867	95435198	-1	q21.3
ENSG00000077380	0.8645	1.8207	1.68E-24	3.22E-23 DYNC1I2	dynein, cyt protein_co	2	1.72E+08	1.72E+08	1	q31.1
ENSG00000136710	0.8639	1.82	1.06E-16	1.04E-15 CCDC115	coiled-coil protein_co	2	1.3E+08	1.3E+08	-1	q21.1
ENSG00000188343	0.8638	1.8198	1.74E-07	7.80E-07 FAM92A1	family with protein_co	8	93698561	93731527	1	q22.1
ENSG00000061794	0.8637	1.8197	1.10E-12	7.76E-12 MRPS35	mitochondi protein_co	12	27710773	27756295	1	p11.22
ENSG00000173597	0.8634	1.8193	0.0214	0.047 SULT1B1	sulfotransf protein_co	4	69721162	69787961	-1	q13.3
ENSG00000114115	0.8629	1.8187	6.08E-06	2.31E-05 RBP1	retinol binc protein_co	3	1.4E+08	1.4E+08	-1	q23
ENSG00000076043	0.8628	1.8185	2.61E-09	1.38E-08 REXO2	RNA exonu protein_co	11	1.14E+08	1.14E+08	1	q23.2
ENSG00000171502	0.8625	1.8182	0.0032	0.0083 COL24A1	collagen, ty protein_co	1	85729233	86156943	-1	p22.3
ENSG00000198431	0.8622	1.8178	6.15E-12	4.07E-11 TXNRD1	thioredoxir protein_co	12	1.04E+08	1.04E+08	1	q23.3
ENSG00000236349	0.8621	1.8177	0.002	0.0055 SUCLG2P2	succinate-C processed_	12	94548241	94549536	1	q22

ENSG00000164331	0.8621	1.8176	7.96E-14	6.19E-13	ANKRA2	ankyrin rep protein_co	5	73552335	73565686	-1	q13.2
ENSG00000217930	0.862	1.8176	0.01	0.0237	PAM16	presequen protein_co	16	4331549	4355607	-1	p13.3
ENSG00000136261	0.8618	1.8173	9.44E-17	9.36E-16	BZW2	basic leucir protein_co	7	16646131	16706523	1	p21.1
ENSG00000176101	0.8618	1.8173	5.22E-10	2.93E-09	SSNA1	Sjogren syr protein_co	9	1.37E+08	1.37E+08	1	q34.3
ENSG00000075790	0.8612	1.8166	1.25E-06	5.14E-06	BCAP29	B-cell receę protein_co	7	1.08E+08	1.08E+08	1	q22.3
ENSG00000180855	0.8607	1.8159	4.98E-07	2.13E-06	ZNF443	zinc finger   protein_co	19	12429707	12441112	-1	p13.2
ENSG00000276345	0.8607	1.8159	0.0001	0.0004	MRPL23	mitochond protein_co	KI270721.1	2585	11802	1	
ENSG00000132274	0.8606	1.8158	1.83E-08	8.98E-08	TRIM22	tripartite r protein_co	11	5689689	5737089	1	p15.4
ENSG00000274020	0.8606	1.8158	9.48E-05	0.0003	LINC01138	long interg lincRNA	1	1.48E+08	1.48E+08	-1	q21.2
ENSG00000197044	0.8605	1.8156	2.66E-12	1.82E-11	ZNF441	zinc finger   protein_co	19	11767000	11784078	1	p13.2
ENSG00000196503	0.8604	1.8155	0.0162	0.0365	ARL9	ADP-ribosy protein_co	4	56505343	56524448	1	q12
ENSG00000101361	0.8599	1.815	7.92E-08	3.66E-07	NOP56	NOP56 ribc protein_co	20	2652145	2658393	1	p13
ENSG00000074935	0.8599	1.8149	3.05E-06	1.20E-05	TUBE1	tubulin, ep: protein_co	6	1.12E+08	1.12E+08	-1	q21
ENSG00000007520	0.8598	1.8148	2.68E-23	4.60E-22	TSR3	TSR3, 20S r protein_co	16	1349240	1351911	-1	p13.3
ENSG00000275713	0.8598	1.8148	0.0155	0.0351	HIST1H2BH	histone clu. protein_co	6	26251651	26252031	-1	p22.2
ENSG00000137806	0.8596	1.8146	7.62E-09	3.85E-08	NDUFAF1	NADH dehy protein_co	15	41387349	41402519	-1	q15.1
ENSG00000102078	0.8595	1.8144	0.0073	0.0178	SLC25A14	solute carri protein_co	X	1.3E+08	1.3E+08	1	q26.1
ENSG00000137563	0.8594	1.8142	2.69E-06	1.07E-05	GGH	gamma-glu protein_co	8	63015079	63039171	-1	q12.3
ENSG00000106588	0.8579	1.8124	1.55E-05	5.63E-05	PSMA2	proteasom protein_co	7	42916857	42932223	-1	p14.1
ENSG00000188643	0.8576	1.812	5.74E-23	9.56E-22	S100A16	S100 calciu protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000182768	0.8574	1.8117	4.17E-14	3.31E-13	NGRN	neugrin, ne protein_co	15	90265659	90278141	1	q26.1
ENSG00000176422	0.8573	1.8116	7.39E-09	3.75E-08	SPRYD4	SPRY doma protein_co	12	56468567	56479707	1	q13.3
ENSG00000178226	0.8572	1.8115	0.0021	0.0057	PRSS36	protease, s protein_co	16	31138925	31150094	-1	p11.2
ENSG00000247240	0.857	1.8112	9.58E-05	0.0003	UBL7-AS1	UBL7 antisense	15	74461265	74481302	1	q24.1
ENSG00000147677	0.8566	1.8108	4.83E-13	3.52E-12	EIF3H	eukaryotic protein_co	8	1.17E+08	1.17E+08	-1	q24.11
ENSG00000109445	0.8562	1.8103	4.37E-19	5.23E-18	ZNF330	zinc finger   protein_co	4	1.41E+08	1.41E+08	1	q31.21
ENSG00000205758	0.856	1.81	4.31E-13	3.16E-12	CRYZL1	crystallin, z protein_co	21	33589341	33643926	-1	q22.11
ENSG00000136770	0.8559	1.8099	1.25E-08	6.19E-08	DNAJC1	DnaJ (Hsp4 protein_co	10	21756537	22003769	-1	p12.31
ENSG00000132698	0.8556	1.8095	2.40E-07	1.06E-06	RAB25	RAB25, me protein_co	1	1.56E+08	1.56E+08	1	q22
ENSG00000188295	0.8553	1.8091	3.88E-12	2.62E-11	ZNF669	zinc finger   protein_co	1	2.47E+08	2.47E+08	-1	q44
ENSG00000167985	0.8553	1.8091	2.06E-08	1.01E-07	SDHAF2	succinate d protein_co	11	61430042	61447529	1	q12.2
ENSG00000137185	0.8551	1.8089	1.87E-08	9.15E-08	ZSCAN9	zinc finger : protein_co	6	28224886	28233482	1	p22.1
ENSG00000178035	0.8551	1.8089	8.69E-07	3.64E-06	IMPDH2	IMP (inosin protein_co	3	49024325	49029408	-1	p21.31
ENSG00000107798	0.8548	1.8085	1.08E-14	9.00E-14	LIPA	lipase A, lys protein_co	10	89213569	89414557	-1	q23.31
ENSG00000178750	0.8546	1.8082	0.0003	0.0009	STX19	syntaxin 19 protein_co	3	94014369	94028610	-1	q11.2
ENSG00000233098	0.8546	1.8082	0.0072	0.0175	CCDC144NL-AS1	CCDC144Nl antisense	17	20868433	21002276	1	p11.2
ENSG00000119782	0.8545	1.8081	9.48E-07	3.95E-06	FKBP1B	FK506 bind protein_co	2	24049701	24063681	1	p23.3
ENSG00000107201	0.854	1.8075	5.89E-07	2.50E-06	DDX58	DEAD (Asp- protein_co	9	32455705	32526324	-1	p21.1
ENSG00000096654	0.8536	1.807	9.11E-12	5.95E-11	ZNF184	zinc finger   protein_co	6	27450743	27473118	-1	p22.1
ENSG00000129515	0.8534	1.8068	2.26E-15	1.98E-14	SNX6	sorting nex protein_co	14	34561094	34630183	-1	q13.1
ENSG00000198464	0.8525	1.8057	1.86E-09	1.00E-08	ZNF480	zinc finger   protein_co	19	52297177	52325922	1	q13.41

ENSG00000171307	0.8517	1.8047	1.41E-11	9.06E-11	ZDHHHC16	zinc finger, protein_co	10	97446131	97457370	1	q24.1
ENSG00000166595	0.8512	1.804	2.53E-15	2.21E-14	FAM96B	family with protein_co	16	66932055	66934423	-1	q22.1
ENSG00000137714	0.851	1.8038	3.09E-26	6.96E-25	FDX1	ferredoxin protein_co	11	1.1E+08	1.1E+08	1	q22.3
ENSG00000163479	0.8506	1.8033	2.65E-22	4.17E-21	SSR2	signal sequ protein_co	1	1.56E+08	1.56E+08	-1	q22
ENSG00000134146	0.8503	1.8029	3.72E-07	1.61E-06	DPH6	diphthamir protein_co	15	35217345	35546193	-1	q14
ENSG00000019102	0.8494	1.8017	0.001	0.0028	VSIG2	V-set and ir protein_co	11	1.25E+08	1.25E+08	-1	q24.2
ENSG00000119121	0.8494	1.8017	0.0161	0.0364	TRPM6	transient r protein_co	9	74722495	74888094	-1	q21.13
ENSG00000140259	0.8491	1.8014	1.64E-19	2.02E-18	MFAP1	microfibrill. protein_co	15	43804492	43824802	-1	q15.3
ENSG00000153037	0.8482	1.8003	5.15E-12	3.44E-11	SRP19	signal reco protein_co	5	1.13E+08	1.13E+08	1	q22.2
ENSG00000197006	0.8481	1.8001	5.24E-18	5.72E-17	METTL9	methyltran protein_co	16	21597218	21657473	1	p12.2
ENSG00000111615	0.8481	1.8001	6.77E-16	6.22E-15	KRR1	KRR1, smal protein_co	12	75490861	75511636	-1	q21.2
ENSG00000088726	0.848	1.8	0.0016	0.0043	TMEM40	transmemt protein_co	3	12733525	12769457	-1	p25.2
ENSG00000198502	0.8467	1.7984	0.0001	0.0004	HLA-DRB5	major histo protein_co	6	32517343	32530287	-1	p21.32
ENSG00000152904	0.8465	1.7982	1.25E-29	3.86E-28	GGPS1	geranylger protein_co	1	2.35E+08	2.35E+08	1	q42.3
ENSG00000132792	0.8462	1.7978	2.93E-15	2.55E-14	CTNBL1	catenin, be protein_co	20	37693955	37872129	1	q11.23
ENSG00000066455	0.846	1.7975	1.37E-17	1.45E-16	GOLGA5	golgin A5 [ protein_co	14	92794231	92839963	1	q32.12
ENSG00000198093	0.8455	1.7969	2.13E-07	9.46E-07	ZNF649	zinc finger protein_co	19	51889224	51905040	-1	q13.41
ENSG00000251152	0.8453	1.7966	0.0001	0.0004	RP11-281P23.1	lincRNA	4	11469250	11478196	1	p15.33
ENSG00000114735	0.8451	1.7964	1.64E-09	8.87E-09	HEMK1	HemK metl protein_co	3	50569152	50596168	1	p21.31
ENSG00000183765	0.8451	1.7964	9.79E-07	4.07E-06	CHEK2	checkpoint protein_co	22	28687743	28742422	-1	q12.1
ENSG00000136040	0.8451	1.7964	2.76E-06	1.09E-05	PLXNC1	plexin C1 [ protein_co	12	94148723	94307675	1	q22
ENSG00000170364	0.8446	1.7958	1.29E-13	9.87E-13	SETMAR	SET domain protein_co	3	4303304	4317567	1	p26.1
ENSG00000140990	0.8445	1.7957	1.69E-18	1.91E-17	NDUFB10	NADH dehy protein_co	16	1959508	1961975	1	p13.3
ENSG00000181218	0.8445	1.7956	2.13E-06	8.52E-06	HIST3H2A	histone clu protein_co	1	2.28E+08	2.28E+08	-1	q42.13
ENSG00000196653	0.8443	1.7954	5.69E-07	2.42E-06	ZNF502	zinc finger protein_co	3	44712643	44723831	1	p21.31
ENSG00000187193	0.8437	1.7946	0.0006	0.0018	MT1X	metallothic protein_co	16	56682424	56684196	1	q13
ENSG00000261740	0.8434	1.7943	7.34E-05	0.0002	RP11-345J4.5	BolA-like p protein_co	16	29443056	29454651	-1	p11.2
ENSG00000169299	0.8433	1.7941	9.87E-17	9.73E-16	PGM2	phosphoglu protein_co	4	37826633	37862937	1	p14
ENSG00000104613	0.8431	1.7939	7.33E-09	3.72E-08	INTS10	integrator protein_co	8	19817140	19852083	1	p21.3
ENSG00000165644	0.8428	1.7935	4.03E-07	1.74E-06	COMTD1	catechol-O. protein_co	10	75233969	75236030	-1	q22.2
ENSG00000127990	0.8427	1.7934	0.002	0.0055	SGCE	sarcoglycar protein_co	7	94585230	94656209	-1	q21.3
ENSG00000155868	0.8424	1.7931	1.90E-15	1.67E-14	MED7	mediator c protein_co	5	1.57E+08	1.57E+08	-1	q33.3
ENSG00000162931	0.8422	1.7928	0.0004	0.0013	TRIM17	tripartite r protein_co	1	2.28E+08	2.28E+08	-1	q42.13
ENSG00000132661	0.8422	1.7927	1.70E-12	1.18E-11	NXT1	nuclear tra protein_co	20	23350736	23354777	1	p11.21
ENSG00000111325	0.8417	1.7921	0.0215	0.0471	OGFOD2	2-oxogluta protein_co	12	1.23E+08	1.23E+08	1	q24.31
ENSG00000176485	0.8412	1.7916	2.03E-07	9.04E-07	PLA2G16	phospholip protein_co	11	63573195	63616883	-1	q13.1
ENSG00000018610	0.8409	1.7912	1.79E-11	1.14E-10	CXorf56	chromoson protein_co X		1.2E+08	1.2E+08	-1	q24
ENSG00000153294	0.8406	1.7908	1.77E-05	6.36E-05	GPR115	G protein-c protein_co	6	47685864	47722021	1	p12.3
ENSG00000071243	0.8405	1.7907	1.02E-09	5.60E-09	ING3	inhibitor of protein_co	7	1.21E+08	1.21E+08	1	q31.31
ENSG00000139372	0.8395	1.7894	3.01E-13	2.23E-12	TDG	thymine-DI protein_co	12	1.04E+08	1.04E+08	1	q23.3
ENSG00000129158	0.8395	1.7894	1.92E-07	8.56E-07	SERGEF	secretion r protein_co	11	17788048	18013162	-1	p15.1



ENSG00000167112	0.8393	1.7892	1.76E-11	1.12E-10	TRUB2	TruB pseudoprotein_co	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000173156	0.8393	1.7892	2.01E-10	1.17E-09	RHOD	ras homolog protein_co	11	67056818	67072013	1	q13.2
ENSG00000259153	0.8391	1.7889	0.0002	0.0006	RP6-65G23.3	lincRNA	14	70810205	70815403	1	q24.2
ENSG00000150045	0.8387	1.7884	0.0111	0.026	KLRF1	killer cell le protein_co	12	9827481	9845007	1	p13.31
ENSG00000124541	0.8386	1.7883	4.07E-19	4.88E-18	RRP36	ribosomal f protein_co	6	43021645	43034156	1	p21.1
ENSG00000213465	0.8382	1.7879	5.20E-10	2.92E-09	ARL2	ADP-ribosyl protein_co	11	65014113	65022184	1	q13.1
ENSG00000134058	0.8382	1.7879	4.77E-08	2.25E-07	CDK7	cyclin-depe protein_co	5	69234841	69277430	1	q13.2
ENSG00000215126	0.8382	1.7878	3.47E-06	1.36E-05	CBWD7	COBW dom protein_co	9	41131306	41199261	-1	p11.2
ENSG00000174021	0.8371	1.7865	3.33E-25	6.86E-24	GNG5	guanine nu protein_co	1	84498325	84506565	-1	p22.3
ENSG00000152219	0.8368	1.7861	2.23E-11	1.41E-10	ARL14EP	ADP-ribosyl protein_co	11	30323051	30338227	1	p14.1
ENSG00000158234	0.8367	1.7859	1.35E-05	4.91E-05	FAIM	Fas apopto protein_co	3	1.39E+08	1.39E+08	1	q22.3
ENSG00000172456	0.8366	1.7858	7.74E-05	0.0003	FGGY	FGGY carb protein_co	1	59296638	59767675	1	p32.1
ENSG00000165672	0.8361	1.7852	2.75E-14	2.22E-13	PRDX3	peroxiredo protein_co	10	1.19E+08	1.19E+08	-1	q26.11
ENSG00000121058	0.8358	1.7848	1.43E-13	1.09E-12	COIL	coilin [Sour protein_co	17	56938187	56961054	-1	q22
ENSG00000175061	0.8358	1.7848	7.79E-09	3.94E-08	LRRC75A-AS1	LRRC75A ai processed_	17	16438822	16478678	1	p11.2
ENSG00000224043	0.8357	1.7848	0.016	0.0361	CCNT2-AS1	CCNT2 anti antisense	2	1.35E+08	1.35E+08	-1	q21.3
ENSG00000104763	0.8356	1.7847	3.26E-06	1.28E-05	ASAH1	N-acylsphir protein_co	8	18056425	18084985	-1	p22
ENSG00000123505	0.8354	1.7843	9.11E-19	1.06E-17	AMD1	adenosylm protein_co	6	1.11E+08	1.11E+08	1	q21
ENSG00000242516	0.8352	1.7841	3.87E-09	2.02E-08	LINC00960	long interg lincRNA	3	75672391	75679303	1	p12.3
ENSG00000153015	0.8352	1.784	3.07E-14	2.47E-13	CWC27	CWC27 spli protein_co	5	64768930	65018763	1	q12.3
ENSG00000247516	0.8349	1.7838	0.0004	0.0012	MIR4458HG	MIR4458 h lincRNA	5	8450743	8463095	1	p15.31
ENSG00000089737	0.8349	1.7837	2.57E-33	1.12E-31	DDX24	DEAD (Asp- protein_co	14	94048291	94081245	-1	q32.12
ENSG00000105258	0.8343	1.783	0.0071	0.0172	POLR2I	polymerase protein_co	19	36113710	36115346	-1	q13.12
ENSG00000141076	0.8342	1.7829	1.41E-19	1.76E-18	CIRH1A	cirrhosis, ai protein_co	16	69131291	69231130	1	q22.1
ENSG00000171970	0.8341	1.7827	9.41E-07	3.92E-06	ZNF57	zinc finger   protein_co	19	2900898	2918476	1	p13.3
ENSG00000204264	0.8339	1.7825	1.82E-26	4.20E-25	PSMB8	proteasom protein_co	6	32840717	32844703	-1	p21.32
ENSG00000169814	0.8337	1.7823	3.38E-13	2.49E-12	BTD	biotinidase protein_co	3	15601341	15645822	1	p25.1
ENSG00000151743	0.8335	1.782	2.84E-08	1.37E-07	AMN1	antagonist protein_co	12	31671137	31729174	-1	p11.21
ENSG00000102897	0.8334	1.7818	3.70E-15	3.19E-14	LYRM1	LYR motif c protein_co	16	20899868	20925006	1	p12.3
ENSG00000120333	0.8333	1.7818	1.29E-12	9.04E-12	MRPS14	mitochondi protein_co	1	1.75E+08	1.75E+08	-1	q25.1
ENSG00000133104	0.8333	1.7817	1.59E-18	1.81E-17	SPG20	spastic par: protein_co	13	36301638	36370180	-1	q13.3
ENSG00000123609	0.8331	1.7815	2.55E-14	2.06E-13	NMI	N-myc (anc protein_co	2	1.51E+08	1.51E+08	-1	q23.3
ENSG00000099901	0.8329	1.7813	1.38E-10	8.15E-10	RANBP1	RAN bindin protein_co	22	20115938	20127357	1	q11.21
ENSG00000271147	0.8325	1.7807	0.0004	0.0013	RP4-769N13.6	processed_X		1.03E+08	1.03E+08	1	q22.1
ENSG00000118246	0.8323	1.7806	6.20E-15	5.26E-14	FASTKD2	FAST kinase protein_co	2	2.07E+08	2.07E+08	1	q33.3
ENSG00000177707	0.8316	1.7797	0.0031	0.008	PVRL3	poliovirus r protein_co	3	1.11E+08	1.11E+08	1	q13.13
ENSG00000100744	0.8316	1.7796	5.37E-09	2.76E-08	GSKIP	GSK3B inte protein_co	14	96363452	96387288	1	q32.2
ENSG00000257815	0.831	1.7789	0.0219	0.0479	RP11-611E13.2	antisense	12	69904033	70243360	-1	q15
ENSG00000118961	0.8309	1.7788	7.35E-24	1.33E-22	C2orf43	chromosom protein_co	2	20684014	20823130	-1	p24.1
ENSG00000153982	0.8308	1.7787	3.21E-07	1.40E-06	GDPD1	glycerophospho protein_co	17	59220467	59275967	1	q22
ENSG00000182359	0.8306	1.7784	1.15E-07	5.26E-07	KBTBD3	kelch repe protein_co	11	1.06E+08	1.06E+08	-1	q22.3



ENSG00000122643	0.8305	1.7783	5.70E-13	4.14E-12	NT5C3A	5'-nucleotidyl transferase protein_co	7	33014114	33062797	-1	p14.3
ENSG00000177614	0.8299	1.7776	0.0037	0.0095	PGBD5	piggyBac transposon protein_co	1	2.3E+08	2.3E+08	-1	q42.13
ENSG00000066651	0.8299	1.7775	3.21E-09	1.69E-08	TRMT11	tRNA methyltransferase protein_co	6	1.26E+08	1.26E+08	1	q22.32
ENSG00000131269	0.8294	1.777	1.50E-14	1.24E-13	ABCB7	ATP-binding cassette protein_co X		75053172	75156732	-1	q13.3
ENSG00000197050	0.8294	1.777	4.11E-08	1.95E-07	ZNF420	zinc finger protein_co	19	37007857	37130314	1	q13.12
ENSG00000196465	0.8287	1.776	1.35E-07	6.12E-07	MYL6B	myosin, light chain protein_co	12	56152256	56159647	1	q13.2
ENSG00000150556	0.8282	1.7755	0.0001	0.0005	LYPD6B	LY6/PLAUR protein_co	2	1.49E+08	1.49E+08	1	q23.2
ENSG00000184500	0.8282	1.7754	0.0002	0.0007	PROS1	protein S (alpha 2) protein_co	3	93873033	93974066	-1	q11.1
ENSG00000185798	0.8279	1.7751	4.71E-08	2.23E-07	WDR53	WD repeat domain protein_co	3	1.97E+08	1.97E+08	-1	q29
ENSG00000180376	0.8278	1.775	0.0001	0.0003	CCDC66	coiled-coil domain protein_co	3	56557161	56621818	1	p14.3
ENSG00000169612	0.8277	1.7748	2.56E-17	2.64E-16	FAM103A1	family with sequence similarity 103 protein_co	15	82986207	82991057	1	q25.2
ENSG00000131069	0.8276	1.7747	4.05E-16	3.81E-15	ACSS2	acyl-CoA synthetase protein_co	20	34872146	34927962	1	q11.22
ENSG00000183735	0.8276	1.7747	3.69E-13	2.72E-12	TBK1	TANK-binding kinase 1 protein_co	12	64451880	64502108	1	q14.2
ENSG00000159322	0.8274	1.7745	1.70E-12	1.18E-11	ADPGK	ADP-dependent protein kinase protein_co	15	72751369	72785846	-1	q24.1
ENSG00000101367	0.8273	1.7744	8.51E-30	2.65E-28	MAPRE1	microtubule-associated protein protein_co	20	32819893	32850405	1	q11.21
ENSG00000160213	0.8273	1.7743	8.69E-51	2.75E-48	CSTB	cystatin B (beta) protein_co	21	43772512	43776445	-1	q22.3
ENSG00000169021	0.8273	1.7743	2.09E-14	1.70E-13	UQCRF51	ubiquinol-coupled protein_co	19	29205321	29213541	-1	q12
ENSG00000120837	0.8269	1.7738	2.34E-10	1.36E-09	NFYB	nuclear transcription factor protein_co	12	1.04E+08	1.04E+08	-1	q23.3
ENSG00000114405	0.8267	1.7737	2.94E-06	1.16E-05	C3orf14	chromosome 3 protein_co	3	62318973	62336213	1	p14.2
ENSG00000112208	0.8262	1.7731	0.0002	0.0005	BAG2	BCL2-associated protein 2 protein_co	6	57172326	57189833	1	p12.1
ENSG00000119328	0.8259	1.7726	0.0014	0.0038	FAM206A	family with sequence similarity 206 protein_co	9	1.09E+08	1.09E+08	1	q31.3
ENSG00000100938	0.8258	1.7725	6.32E-10	3.52E-09	GMPR2	guanosine triphosphatase protein_co	14	24232422	24239242	1	q12
ENSG00000231312	0.8255	1.7721	1.69E-05	6.09E-05	AC007246.3	antisense	2	39436637	39665343	1	p22.1
ENSG00000132386	0.8254	1.772	0.0031	0.008	SERPINF1	serpin peptidase inhibitor protein_co	17	1761959	1777574	1	p13.3
ENSG00000115946	0.8249	1.7714	3.90E-23	6.57E-22	PNO1	partner of Nucleolar Protein 1 protein_co	2	68157844	68176238	1	p14
ENSG00000162222	0.8247	1.7712	1.29E-13	9.87E-13	TTC9C	tetratricopeptide repeat protein_co	11	62728069	62740293	1	q12.3
ENSG00000106526	0.8245	1.7709	3.08E-07	1.34E-06	ACTR3C	ARP3 actin-binding protein protein_co	7	1.5E+08	1.5E+08	-1	q36.1
ENSG00000071994	0.8239	1.7702	3.71E-15	3.20E-14	PDCD2	programmed cell death 2 protein_co	6	1.71E+08	1.71E+08	-1	q27
ENSG00000009844	0.8237	1.77	1.84E-17	1.93E-16	VTA1	vesicle trafficking protein_co	6	1.42E+08	1.42E+08	1	q24.1
ENSG00000187840	0.8237	1.7699	7.45E-09	3.77E-08	EIF4EBP1	eukaryotic translation initiation factor 4E binding protein 1 protein_co	8	38030341	38060365	1	p11.23
ENSG00000186106	0.8232	1.7693	7.97E-13	5.71E-12	ANKRD46	ankyrin repeat domain protein_co	8	1.01E+08	1.01E+08	-1	q22.3
ENSG00000076242	0.8229	1.769	3.11E-16	2.96E-15	MLH1	mutL homolog protein_co	3	36993332	37050918	1	p22.2
ENSG00000113558	0.8225	1.7684	8.47E-34	3.91E-32	SKP1	S-phase kinase-associated protein 1 protein_co	5	1.34E+08	1.34E+08	-1	q31.1
ENSG00000205436	0.8217	1.7675	0.0097	0.023	EXOC3L4	exocyst core protein protein_co	14	1.03E+08	1.03E+08	1	q32.32
ENSG00000204315	0.8216	1.7673	0.0002	0.0005	FKBPL	FK506 binding protein protein_co	6	32128707	32130291	-1	p21.32
ENSG00000122545	0.8206	1.7661	2.81E-13	2.09E-12		07-Sep septin 7 [Sc] protein_co	7	35800932	35907105	1	p14.2
ENSG00000144744	0.8206	1.7661	8.43E-13	6.02E-12	UBA3	ubiquitin-ligase protein_co	3	69054730	69080408	-1	p14.1
ENSG00000188313	0.8204	1.7659	8.59E-15	7.21E-14	PLSCR1	phospholipase protein_co	3	1.47E+08	1.47E+08	-1	q24
ENSG00000162511	0.8202	1.7656	0.0079	0.019	LAPTM5	lysosomal protein protein_co	1	30732469	30757820	-1	p35.2
ENSG00000235655	0.82	1.7654	1.73E-06	7.00E-06	H3F3AP4	H3 histone, processed	2	1.75E+08	1.75E+08	1	q31.1
ENSG00000143543	0.8199	1.7653	8.96E-20	1.14E-18	JTB	jumping transposon protein_co	1	1.54E+08	1.54E+08	-1	q21.3

ENSG00000216866	0.8198	1.7652	0.0002	0.0006	RPS2P55	ribosomal r processed_X	40934982	40935864	-1	p11.4
ENSG00000198168	0.8196	1.765	6.47E-09	3.30E-08	SVIP	small VCP/l protein_co	11 22813799	22830299	-1	p14.3
ENSG00000136098	0.8196	1.765	0.0012	0.0033	NEK3	NIMA-relat protein_co	13 52132639	52159861	-1	q14.3
ENSG00000107625	0.8195	1.7648	6.16E-11	3.77E-10	DDX50	DEAD (Asp- protein_co	10 68901278	68946847	1	q22.1
ENSG00000197019	0.8188	1.7639	7.47E-19	8.76E-18	SERTAD1	SERTA dom protein_co	19 40421592	40426025	-1	q13.2
ENSG00000108984	0.8188	1.7639	0.0086	0.0207	MAP2K6	mitogen-ac protein_co	17 69414698	69543331	1	q24.3
ENSG00000149743	0.8186	1.7637	7.11E-10	3.95E-09	TRPT1	tRNA phos protein_co	11 64223799	64226254	-1	q13.1
ENSG00000140092	0.8186	1.7636	0.0029	0.0076	FBLN5	fibulin 5 [Sc protein_co	14 91869412	91947987	-1	q32.12
ENSG00000096401	0.8182	1.7632	3.11E-15	2.70E-14	CDC5L	cell divisior protein_co	6 44387525	44450426	1	p21.1
ENSG00000254858	0.8178	1.7627	4.27E-08	2.03E-07	MPV17L2	MPV17 mit protein_co	19 18193182	18196948	1	p13.11
ENSG00000123595	0.8175	1.7624	1.13E-20	1.55E-19	RAB9A	RAB9A, me protein_co X	13689121	13710506	1	p22.2
ENSG00000142556	0.8173	1.7621	1.22E-10	7.27E-10	ZNF614	zinc finger l protein_co	19 52012765	52030240	-1	q13.41
ENSG00000007255	0.8173	1.7621	4.03E-05	0.0001	TRAPPC6A	trafficking l protein_co	19 45162928	45178237	-1	q13.32
ENSG00000247828	0.8172	1.762	4.77E-07	2.04E-06	TMEM161B-AS1	TMEM161E antisense	5 88268895	88436685	1	q14.3
ENSG00000178913	0.8171	1.7618	1.59E-20	2.16E-19	TAF7	TAF7 RNA r protein_co	5 1.41E+08	1.41E+08	-1	q31.3
ENSG00000167183	0.8167	1.7614	8.48E-08	3.91E-07	PRR15L	proline rich protein_co	17 47951967	47957878	-1	q21.32
ENSG00000134001	0.816	1.7605	5.12E-36	2.98E-34	EIF2S1	eukaryotic protein_co	14 67359997	67386516	1	q23.3
ENSG00000170421	0.8156	1.76	6.36E-12	4.20E-11	KRT8	keratin 8 [S protein_co	12 52897187	52949954	-1	q13.13
ENSG00000168393	0.8152	1.7596	3.98E-09	2.07E-08	DTYMK	deoxythym protein_co	2 2.42E+08	2.42E+08	-1	q37.3
ENSG00000164929	0.8152	1.7596	0.0146	0.0332	BAALC	brain and a protein_co	8 1.03E+08	1.03E+08	1	q22.3
ENSG00000256683	0.8152	1.7595	1.58E-06	6.43E-06	ZNF350	zinc finger l protein_co	19 51964343	51986856	-1	q13.41
ENSG00000002919	0.815	1.7593	4.77E-28	1.26E-26	SNX11	sorting nex protein_co	17 48103357	48123074	1	q21.32
ENSG00000011198	0.815	1.7593	6.26E-15	5.30E-14	ABHD5	abhydrolas protein_co	3 43690113	43734371	1	p21.33
ENSG00000231770	0.8146	1.7588	0.0144	0.0329	TMEM44-AS1	TMEM44 a antisense	3 1.95E+08	1.95E+08	1	q29
ENSG00000147383	0.8144	1.7585	1.61E-12	1.12E-11	NSDHL	NAD(P) de r protein_co X	1.53E+08	1.53E+08	1	q28
ENSG00000230438	0.8137	1.7577	0.0052	0.0129	SERPINB9P1	serpin pept lincRNA	6 2854657	2881407	-1	p25.2
ENSG00000198643	0.8128	1.7566	0.0071	0.0173	FAM3D	family with protein_co	3 58633946	58666848	-1	p14.2
ENSG00000100823	0.8127	1.7565	1.90E-19	2.34E-18	APEX1	APEX nucle protein_co	14 20455191	20457772	1	q11.2
ENSG00000232442	0.812	1.7556	0.0108	0.0253	CTD-3184A7.4	antisense	20 63627227	63628824	1	q13.33
ENSG00000109919	0.8116	1.7552	8.29E-28	2.13E-26	MTCH2	mitochondi protein_co	11 47617315	47642623	-1	p11.2
ENSG00000100603	0.8116	1.7552	6.64E-11	4.05E-10	SNW1	SNW doma protein_co	14 77717599	77761207	-1	q24.3
ENSG00000163481	0.8115	1.755	3.74E-16	3.54E-15	RNF25	ring finger l protein_co	2 2.19E+08	2.19E+08	-1	q35
ENSG00000089127	0.8108	1.7542	1.28E-06	5.24E-06	OAS1	2'-5'-oligoa protein_co	12 1.13E+08	1.13E+08	1	q24.13
ENSG00000248508	0.8106	1.7539	0.014	0.032	SRP14-AS1	SRP14 anti: lincRNA	15 40039311	40067290	1	q15.1
ENSG00000147996	0.8105	1.7538	2.58E-06	1.02E-05	CBWD5	COBW dom protein_co	9 65668805	65734041	1	q21.11
ENSG00000242114	0.8101	1.7533	0.0017	0.0047	MTFP1	mitochondi protein_co	22 30425530	30429053	1	q12.2
ENSG00000123159	0.8095	1.7526	5.40E-14	4.25E-13	GIPC1	GIPC PDZ d protein_co	19 14477760	14496149	-1	p13.12
ENSG00000223891	0.8095	1.7526	0.0002	0.0007	OSER1-AS1	OSER1 anti lincRNA	20 44210960	44226027	1	q13.12
ENSG00000117691	0.809	1.752	1.84E-10	1.07E-09	NENF	neudesin n protein_co	1 2.12E+08	2.12E+08	1	q32.3
ENSG00000164414	0.809	1.752	8.48E-06	3.17E-05	SLC35A1	solute carri protein_co	6 87470623	87512336	1	q15
ENSG00000255737	0.8089	1.7519	0.0003	0.001	AGAP2-AS1	AGAP2 anti antisense	12 57726271	57728356	1	q14.1

ENSG00000123545	0.8087	1.7516	1.34E-08	6.61E-08	NDUFAF4	NADH dehyprotein_co	6	96889313	96897881	-1	q16.1
ENSG00000186007	0.8085	1.7514	0.018	0.0401	LEMD1	LEM domai protein_co	1	2.05E+08	2.05E+08	-1	q32.1
ENSG00000256087	0.8084	1.7513	5.25E-07	2.24E-06	ZNF432	zinc finger   protein_co	19	52031379	52095738	-1	q13.41
ENSG00000067221	0.8083	1.7512	1.06E-08	5.32E-08	STOML1	stomatin (E protein_co	15	73978923	73994622	-1	q24.1
ENSG00000134440	0.8082	1.751	4.10E-26	9.18E-25	NARS	asparaginy  protein_co	18	57600656	57622213	-1	q21.31
ENSG00000167536	0.8079	1.7507	3.79E-05	0.0001	DHRS13	dehydroge  protein_co	17	28897781	28903071	-1	q11.2
ENSG00000143353	0.8075	1.7502	2.74E-09	1.45E-08	LYPLAL1	lysosphosph protein_co	1	2.19E+08	2.19E+08	1	q41
ENSG00000136425	0.8075	1.7502	0.0018	0.0048	CIB2	calcium an  protein_co	15	78104606	78131544	-1	q25.1
ENSG00000228065	0.8075	1.7501	0.0121	0.0282	LINC01515	long interg  lincRNA	10	65570338	65766541	1	q21.3
ENSG00000106025	0.8074	1.75	4.37E-05	0.0002	TSPAN12	tetraspanin protein_co	7	1.21E+08	1.21E+08	-1	q31.31
ENSG00000100416	0.8071	1.7497	1.98E-07	8.79E-07	TRMU	tRNA 5-me  protein_co	22	46330875	46357340	1	q13.31
ENSG00000167325	0.807	1.7496	1.84E-09	9.87E-09	RRM1	ribonucleoi protein_co	11	4094707	4138876	1	p15.4
ENSG00000136155	0.8069	1.7494	2.57E-05	9.07E-05	SCEL	sciellin [So  protein_co	13	77535674	77645263	1	q22.3
ENSG00000131013	0.8068	1.7493	1.63E-12	1.14E-11	PPIL4	peptidy prc protein_co	6	1.5E+08	1.5E+08	-1	q25.1
ENSG00000122644	0.8065	1.749	1.27E-07	5.76E-07	ARL4A	ADP-ribosy protein_co	7	12686856	12690934	1	p21.3
ENSG00000115459	0.8061	1.7485	1.93E-19	2.38E-18	ELMOD3	ELMO/CED protein_co	2	85354394	85391752	1	p11.2
ENSG00000114742	0.8061	1.7485	5.54E-13	4.02E-12	WDR48	WD repeat protein_co	3	39051998	39096671	1	p22.2
ENSG00000135046	0.806	1.7484	8.87E-06	3.31E-05	ANXA1	annexin A1 protein_co	9	73151757	73170393	1	q21.13
ENSG00000113141	0.8058	1.7481	0.006	0.0149	IK	IK cytokine protein_co	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000167645	0.8057	1.7479	8.81E-09	4.43E-08	YIF1B	Yip1 intera  protein_co	19	38305104	38317273	-1	q13.2
ENSG00000152944	0.8048	1.7469	4.72E-09	2.44E-08	MED21	mediator c  protein_co	12	27022546	27066343	1	p11.23
ENSG00000043514	0.8046	1.7467	0.0003	0.0009	TRIT1	tRNA isope protein_co	1	39841022	39883511	-1	p34.2
ENSG00000133134	0.8044	1.7464	0.0013	0.0037	BEX2	brain expre protein_co X		1.03E+08	1.03E+08	-1	q22.2
ENSG00000153993	0.8043	1.7462	0.0093	0.0222	SEMA3D	sema doma  protein_co	7	84995553	85186855	-1	q21.11
ENSG00000241316	0.8031	1.7448	0.0027	0.0072	SUCLG2-AS1	SUCLG2 an  lincRNA	3	67654697	67947713	1	p14.1
ENSG00000165512	0.8025	1.7441	1.85E-08	9.06E-08	ZNF22	zinc finger   protein_co	10	45000475	45005326	1	q11.21
ENSG00000083535	0.8021	1.7436	0.0001	0.0005	PIBF1	progestero protein_co	13	72782059	73016461	1	q21.33
ENSG00000135930	0.802	1.7435	5.47E-41	5.91E-39	EIF4E2	eukaryotic protein_co	2	2.33E+08	2.33E+08	1	q37.1
ENSG00000226742	0.8018	1.7433	4.55E-11	2.82E-10	HSBP1L1	heat shock protein_co	18	79964561	79970822	1	q23
ENSG00000189376	0.8012	1.7426	0.0001	0.0004	C8orf76	chromoson protein_co	8	1.23E+08	1.23E+08	-1	q24.13
ENSG00000240857	0.8006	1.7419	1.08E-10	6.48E-10	RDH14	retinol deh protein_co	2	18554723	18560680	-1	p24.2
ENSG00000141562	0.7999	1.741	3.59E-08	1.72E-07	NARF	nuclear pre protein_co	17	82458180	82490537	1	q25.3
ENSG00000143162	0.7995	1.7405	1.68E-09	9.08E-09	CREG1	cellular rep protein_co	1	1.68E+08	1.68E+08	-1	q24.2
ENSG00000175348	0.7994	1.7403	2.26E-12	1.56E-11	TMEM9B	TMEM9 do protein_co	11	8947294	8965011	-1	p15.4
ENSG00000172889	0.7992	1.7401	0.02	0.0441	EGFL7	EGF-like-dc protein_co	9	1.37E+08	1.37E+08	1	q34.3
ENSG00000258689	0.799	1.7399	0.0003	0.001	LINC01269	long interg  lincRNA	14	70698698	70712153	1	q24.2
ENSG00000110768	0.7987	1.7396	2.49E-19	3.05E-18	GTF2H1	general tra protein_co	11	18322295	18367044	1	p15.1
ENSG00000237943	0.7984	1.7392	0.0026	0.0068	PRKCQ-AS1	PRKCQ anti processed_	10	6580419	6616452	1	p15.1
ENSG00000228037	0.7984	1.7391	0.0039	0.01	RP3-395M20.9	antisense	1	2581560	2584533	1	p36.32
ENSG00000031691	0.7982	1.7389	1.78E-05	6.42E-05	CENPQ	centromere  protein_co	6	49463378	49493107	1	p12.3
ENSG00000131871	0.7974	1.7379	2.39E-15	2.09E-14	VIMP	VCP-intera  protein_co	15	1.01E+08	1.01E+08	-1	q26.3

ENSG00000133773	0.7974	1.7379	6.28E-08	2.94E-07	CCDC59	coiled-coil (protein_co	12	82223681	82358805	-1	q21.31
ENSG00000090054	0.7972	1.7378	5.96E-16	5.51E-15	SPTLC1	serine paln protein_co	9	92031999	92115384	-1	q22.31
ENSG00000147697	0.7972	1.7378	5.29E-07	2.26E-06	GSDMC	gasdermin protein_co	8	1.3E+08	1.3E+08	-1	q24.21
ENSG00000196230	0.7969	1.7374	9.37E-13	6.67E-12	TUBB	tubulin, be protein_co	6	30720201	30725426	1	p21.33
ENSG00000177697	0.797	1.7374	1.02E-05	3.75E-05	CD151	CD151 mol protein_co	11	832843	839831	1	p15.5
ENSG00000113328	0.7969	1.7373	1.09E-07	4.97E-07	CCNG1	cyclin G1 [S protein_co	5	1.63E+08	1.63E+08	1	q34
ENSG00000111863	0.7964	1.7368	0.0032	0.0084	ADTRP	androgen-c protein_co	6	11712054	11807046	-1	p24.1
ENSG00000064012	0.7963	1.7367	3.34E-18	3.71E-17	CASP8	caspase 8, protein_co	2	2.01E+08	2.01E+08	1	q33.1
ENSG00000128654	0.7957	1.736	3.08E-18	3.43E-17	MTX2	metaxin 2 [ protein_co	2	1.76E+08	1.76E+08	1	q31.1
ENSG00000125821	0.7955	1.7357	3.85E-13	2.83E-12	DTD1	D-tyrosyl-tl protein_co	20	18567453	18763917	1	p11.23
ENSG00000011260	0.7955	1.7356	8.76E-15	7.35E-14	UTP18	UTP18 sma protein_co	17	51260528	51297936	1	q21.33
ENSG00000256229	0.7952	1.7353	0.0009	0.0026	ZNF486	zinc finger   protein_co	19	20167228	20200490	1	p12
ENSG00000104679	0.795	1.735	1.23E-13	9.41E-13	R3HCC1	R3H domai protein_co	8	23270120	23296279	1	p21.3
ENSG00000163933	0.7946	1.7345	8.85E-13	6.31E-12	RFT1	RFT1 homo protein_co	3	53088483	53130462	-1	p21.1
ENSG00000162623	0.7944	1.7344	1.42E-14	1.18E-13	TYW3	tRNA-yW s protein_co	1	74733152	74766678	1	p31.1
ENSG00000172301	0.7943	1.7342	0.0021	0.0055	COPRS	coordinato protein_co	17	31851864	31859337	-1	q11.2
ENSG00000167118	0.7941	1.734	3.58E-30	1.16E-28	URM1	ubiquitin re protein_co	9	1.28E+08	1.28E+08	1	q34.11
ENSG00000203667	0.7931	1.7328	8.84E-12	5.78E-11	COX20	COX20 cytc protein_co	1	2.45E+08	2.45E+08	1	q44
ENSG00000243056	0.7929	1.7326	0.0103	0.0242	EIF4EBP3	eukaryotic protein_co	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000177058	0.7925	1.7321	6.08E-08	2.85E-07	SLC38A9	solute carri protein_co	5	55625845	55773194	-1	q11.2
ENSG00000151304	0.7921	1.7316	5.82E-09	2.98E-08	SRFBP1	serum resp protein_co	5	1.22E+08	1.22E+08	1	q23.1
ENSG00000212978	0.7918	1.7312	9.93E-09	4.98E-08	ACO16747.3	processed_	2	61141592	61144969	-1	p15
ENSG00000185437	0.7915	1.7308	7.45E-05	0.0002	SH3BGR	SH3 domai protein_co	21	39445855	39515506	1	q22.2
ENSG00000075336	0.7912	1.7305	6.34E-12	4.19E-11	TIMM21	translocase protein_co	18	74148511	74160530	1	q22.3
ENSG00000154640	0.7908	1.7301	1.30E-11	8.38E-11	BTG3	BTG family, protein_co	21	17593653	17612947	-1	q21.1
ENSG00000111850	0.7908	1.73	0.0003	0.001	SMIM8	small integri protein_co	6	87322583	87342328	1	q15
ENSG00000123136	0.7906	1.7298	3.83E-16	3.61E-15	DDX39A	DEAD (Asp- protein_co	19	14408819	14419383	-1	p13.12
ENSG00000102524	0.7906	1.7298	0.0049	0.0122	TNFSF13B	tumor necr protein_co	13	1.08E+08	1.08E+08	1	q33.3
ENSG00000155330	0.79	1.7291	1.73E-07	7.78E-07	C16orf87	chromoson protein_co	16	46796607	46831411	-1	q11.2
ENSG00000113369	0.7899	1.729	7.12E-05	0.0002	ARRDC3	arrestin do protein_co	5	91368724	91383359	-1	q14.3
ENSG00000130935	0.7899	1.7289	9.27E-11	5.58E-10	NOL11	nucleolar p protein_co	17	67717833	67744531	1	q24.2
ENSG00000006530	0.7893	1.7283	1.05E-07	4.83E-07	AGK	acylglycero protein_co	7	1.42E+08	1.42E+08	1	q34
ENSG00000183077	0.7893	1.7282	1.56E-09	8.42E-09	AFMID	arylforman protein_co	17	78187317	78207701	1	q25.3
ENSG00000173545	0.7891	1.728	1.94E-23	3.38E-22	ZNF622	zinc finger   protein_co	5	16451519	16465792	-1	p15.1
ENSG00000126249	0.7891	1.728	0.0002	0.0005	PDCD2L	programm protein_co	19	34404384	34426168	1	q13.11
ENSG00000230074	0.7891	1.728	0.0114	0.0267	RP11-195F19.9	antisense	9	34665665	34681298	1	p13.3
ENSG00000042753	0.789	1.7278	8.19E-16	7.48E-15	AP2S1	adaptor-rel protein_co	19	46838136	46850992	-1	q13.32
ENSG00000111596	0.7887	1.7276	1.09E-16	1.07E-15	CNOT2	CCR4-NOT protein_co	12	70242994	70354993	1	q15
ENSG00000186577	0.7876	1.7262	0.0002	0.0007	C6orf1	chromoson protein_co	6	34246380	34249470	-1	p21.31
ENSG00000131779	0.7875	1.726	2.23E-19	2.73E-18	PEX11B	peroxisom protein_co	1	1.46E+08	1.46E+08	-1	q21.1
ENSG00000100028	0.7874	1.726	1.40E-15	1.24E-14	SNRPD3	small nucle protein_co	22	24555503	24609980	1	q11.23

ENSG00000188868	0.7871	1.7256	0.0008	0.0024 ZNF563	zinc finger  protein_co	19	12317477	12333720	-1 p13.2
ENSG00000198429	0.787	1.7255	4.08E-08	1.94E-07 ZNF69	zinc finger  protein_co	19	11887784	11914329	1 p13.2
ENSG00000196591	0.7869	1.7254	2.51E-22	3.97E-21 HDAC2	histone deacetylase  protein_co	6	1.14E+08	1.14E+08	-1 q21
ENSG00000227619	0.7869	1.7253	0.0166	0.0373 RP11-492E3.2	antisense	9	1.3E+08	1.3E+08	1 q34.11
ENSG00000233901	0.7867	1.7251	5.36E-08	2.52E-07 LINC01503	long intergenic non-coding RNA	9	1.29E+08	1.29E+08	1 q34.11
ENSG00000102103	0.7866	1.725	1.87E-12	1.29E-11 PQBP1	polyglutamine protein_co X		48897912	48903143	1 p11.23
ENSG00000198015	0.7866	1.725	1.08E-09	5.91E-09 MRPL42	mitochondrial protein_co	12	93467488	93516213	1 q22
ENSG00000167196	0.7865	1.7248	1.07E-08	5.33E-08 FBXO22	F-box protein_co	15	75903859	75942510	1 q24.2
ENSG00000176108	0.7857	1.724	9.31E-12	6.07E-11 CHMP6	charged multimer protein_co	17	80991598	81009517	1 q25.3
ENSG00000149809	0.7858	1.724	0.0021	0.0056 TM7SF2	transmembrane protein_co	11	65111845	65116384	1 q13.1
ENSG00000213462	0.7855	1.7237	0.0003	0.0009 ERV3-1	endogenous protein_co	7	64990809	65006743	-1 q11.21
ENSG00000169252	0.7854	1.7236	0.0022	0.0059 ADRB2	adrenoceptor protein_co	5	1.49E+08	1.49E+08	1 q32
ENSG00000105058	0.7851	1.7232	3.53E-40	3.40E-38 FAM32A	family with protein_co	19	16185380	16192046	1 p13.11
ENSG00000106733	0.7851	1.7232	2.09E-17	2.18E-16 NMRK1	nicotinamide protein_co	9	75060573	75088217	-1 q21.13
ENSG00000111142	0.7851	1.7232	8.06E-15	6.77E-14 METAP2	methionyl protein_co	12	95473520	95515839	1 q22
ENSG00000187522	0.7846	1.7227	4.38E-18	4.82E-17 HSPA14	heat shock protein_co	10	14838164	14871741	1 p13
ENSG00000113460	0.7844	1.7224	7.07E-13	5.09E-12 BRX1	BRX1, biogenesis protein_co	5	34915376	34925996	1 p13.2
ENSG00000051596	0.7844	1.7224	1.20E-08	5.96E-08 THOC3	THO complex protein_co	5	1.76E+08	1.76E+08	-1 q35.2
ENSG00000064115	0.7844	1.7223	4.57E-06	1.76E-05 TM7SF3	transmembrane protein_co	12	26973195	27014434	-1 p11.23
ENSG00000169087	0.7843	1.7222	8.11E-08	3.75E-07 HSPBAP1	HSPB (heat shock protein_co	3	1.23E+08	1.23E+08	-1 q21.1
ENSG00000198677	0.7838	1.7216	3.41E-13	2.51E-12 TTC37	tetratricopeptide protein_co	5	95463895	95555007	-1 q15
ENSG00000101017	0.7837	1.7215	6.23E-06	2.37E-05 CD40	CD40 molecule protein_co	20	46118272	46129863	1 q13.12
ENSG00000087842	0.7835	1.7213	0.0031	0.0081 PIR	pirin (iron-binding protein_co X		15384799	15493564	-1 p22.2
ENSG00000124207	0.7834	1.7212	1.20E-13	9.21E-13 CSE1L	CSE1 chromatin protein_co	20	49046246	49096960	1 q13.13
ENSG00000005302	0.7833	1.7211	1.17E-12	8.24E-12 MSL3	male-specific protein_co X		11758159	11775753	1 p22.2
ENSG00000130349	0.7833	1.7211	2.65E-10	1.53E-09 C6orf203	chromosome protein_co	6	1.07E+08	1.07E+08	1 q21
ENSG00000160783	0.7828	1.7205	2.24E-06	8.94E-06 PMF1	polyamine-binding protein_co	1	1.56E+08	1.56E+08	1 q22
ENSG00000256594	0.7823	1.7199	9.14E-05	0.0003 RP11-705C15.2	transcribed	12	9633419	9658412	1 p13.31
ENSG00000101310	0.7819	1.7194	4.14E-18	4.56E-17 SEC23B	Sec23 homolog protein_co	20	18507493	18561415	1 p11.23
ENSG00000168734	0.7819	1.7194	0.0164	0.037 PKIG	protein kinase protein_co	20	44531785	44624247	1 q13.12
ENSG00000205581	0.7818	1.7193	1.51E-17	1.60E-16 HMGN1	high mobility protein_co	21	39342315	39349647	-1 q22.2
ENSG00000151779	0.7818	1.7193	1.28E-08	6.37E-08 NBAS	neuroblastoma protein_co	2	15166909	15561330	-1 p24.3
ENSG0000010244	0.7817	1.7191	8.84E-32	3.29E-30 ZNF207	zinc finger  protein_co	17	32350117	32381886	1 q11.2
ENSG0000013441	0.7813	1.7187	2.03E-05	7.24E-05 CLK1	CDC-like kinase protein_co	2	2.01E+08	2.01E+08	-1 q33.1
ENSG00000159915	0.7812	1.7186	0.0011	0.0031 ZNF233	zinc finger  protein_co	19	44259880	44275317	1 q13.31
ENSG00000111726	0.7812	1.7185	8.04E-14	6.24E-13 CMAS	cytidine monophosphate protein_co	12	22046174	22065674	1 p12.1
ENSG00000165806	0.7811	1.7184	2.88E-15	2.50E-14 CASP7	caspase 7,  protein_co	10	1.14E+08	1.14E+08	1 q25.3
ENSG00000180573	0.7804	1.7176	1.08E-06	4.46E-06 HIST1H2AC	histone cluster protein_co	6	26124145	26139116	1 p22.2
ENSG00000240356	0.7796	1.7167	1.62E-06	6.59E-06 RPL23AP7	ribosomal protein transcribed	2	1.14E+08	1.14E+08	-1 q14.1
ENSG00000117010	0.7789	1.7159	0.001	0.0027 ZNF684	zinc finger  protein_co	1	40531561	40548169	1 p34.2
ENSG00000136631	0.7787	1.7156	1.76E-18	1.99E-17 VPS45	vacuolar protein protein_co	1	1.5E+08	1.5E+08	1 q21.2



ENSG00000214087	0.7784	1.7153	6.83E-08	3.18E-07	ARL16	ADP-ribosy protein_co	17	81681174	81683924	-1	q25.3
ENSG00000145220	0.7767	1.7132	4.32E-06	1.67E-05	LYAR	Ly1 antiboc protein_co	4	4267701	4290169	-1	p16.3
ENSG00000258429	0.7767	1.7132	0.0002	0.0005	PDF	peptide dei protein_co	16	69328621	69330595	-1	q22.1
ENSG00000112081	0.7765	1.7129	3.84E-20	5.02E-19	SRSF3	serine/argii protein_co	6	36594353	36605600	1	p21.31
ENSG00000274173	0.7758	1.7121	0.0003	0.0009	RP4-568C11.4	lincRNA	20	24931840	24932983	1	p11.21
ENSG00000006634	0.7756	1.7119	5.88E-06	2.24E-05	DBF4	DBF4 zinc f protein_co	7	87876216	87909541	1	q21.12
ENSG00000033170	0.7749	1.7111	1.28E-06	5.24E-06	FUT8	fucosyltran protein_co	14	65410592	65744121	1	q23.3
ENSG00000127081	0.7748	1.7109	6.99E-09	3.55E-08	ZNF484	zinc finger   protein_co	9	92845031	92878038	-1	q22.31
ENSG00000107833	0.7745	1.7106	3.03E-10	1.74E-09	NPM3	nucleophos protein_co	10	1.02E+08	1.02E+08	-1	q24.32
ENSG00000009307	0.774	1.71	4.01E-21	5.74E-20	CSDE1	cold shock protein_co	1	1.15E+08	1.15E+08	-1	p13.2
ENSG00000169241	0.7739	1.7099	1.12E-16	1.10E-15	SLC50A1	solute carri protein_co	1	1.55E+08	1.55E+08	1	q22
ENSG00000158552	0.7739	1.7099	1.40E-12	9.79E-12	ZFAND2B	zinc finger, protein_co	2	2.19E+08	2.19E+08	1	q35
ENSG00000131876	0.7737	1.7096	6.13E-20	7.93E-19	SNRPA1	small nucle protein_co	15	1.01E+08	1.01E+08	-1	q26.3
ENSG00000130244	0.7735	1.7094	1.59E-05	5.75E-05	FAM98C	family with protein_co	19	38403135	38409088	1	q13.2
ENSG00000102316	0.7733	1.7092	4.29E-14	3.40E-13	MAGED2	melanoma protein_co X		54807599	54816012	1	p11.21
ENSG00000267279	0.7727	1.7084	0.0105	0.0246	RP11-879F14.2	lincRNA	18	61585746	61606916	-1	q21.33
ENSG00000164105	0.7721	1.7078	3.70E-05	0.0001	SAP30	Sin3A-asso protein_co	4	1.73E+08	1.73E+08	1	q34.1
ENSG00000214046	0.772	1.7077	2.29E-11	1.45E-10	SMIM7	small integ protein_co	19	16630751	16660442	-1	p13.11
ENSG00000128944	0.7718	1.7074	9.35E-07	3.90E-06	KNSTRN	kinetochor protein_co	15	40382721	40394246	1	q15.1
ENSG00000164002	0.7715	1.7071	5.51E-10	3.09E-09	EXO5	exonucleas protein_co	1	40508741	40516556	1	p34.2
ENSG00000157191	0.7713	1.7068	3.22E-21	4.68E-20	NECAP2	NECAP end protein_co	1	16440672	16460078	1	p36.13
ENSG00000069869	0.7707	1.7061	5.44E-06	2.08E-05	NEDD4	neural prec protein_co	15	55826922	55993746	-1	q21.3
ENSG00000100564	0.7705	1.7058	1.79E-11	1.14E-10	PIGH	phosphatid protein_co	14	67581955	67600287	-1	q24.1
ENSG00000173409	0.7703	1.7056	7.10E-11	4.31E-10	ARV1	ARV1 homc protein_co	1	2.31E+08	2.31E+08	1	q42.2
ENSG00000131236	0.7699	1.7052	1.66E-10	9.75E-10	CAP1	CAP, adeny protein_co	1	40040233	40072649	1	p34.2
ENSG00000133315	0.7698	1.705	0.0051	0.0128	MACROD1	MACRO do protein_co	11	63998558	64166106	-1	q13.1
ENSG00000110200	0.7696	1.7048	8.59E-12	5.62E-11	ANAPC15	anaphase p protein_co	11	72106378	72112780	-1	q13.4
ENSG00000172262	0.7694	1.7046	6.42E-11	3.92E-10	ZNF131	zinc finger   protein_co	5	43065176	43192021	1	p12
ENSG00000186019	0.7693	1.7045	5.61E-06	2.14E-05	AC084219.4	antisense	19	44105463	44113145	-1	q13.31
ENSG00000146757	0.7691	1.7042	5.35E-05	0.0002	ZNF92	zinc finger   protein_co	7	65373799	65401135	1	q11.21
ENSG00000140471	0.7689	1.7039	1.64E-10	9.63E-10	LINS	lines homo protein_co	15	1.01E+08	1.01E+08	-1	q26.3
ENSG00000165355	0.7684	1.7033	2.38E-11	1.51E-10	FBXO33	F-box prote protein_co	14	39397669	39432500	-1	q21.1
ENSG00000129071	0.768	1.703	2.77E-16	2.64E-15	MBD4	methyl-CpC protein_co	3	1.29E+08	1.29E+08	-1	q21.3
ENSG00000099203	0.768	1.7029	6.74E-15	5.70E-14	TMED1	transmemk protein_co	19	10832438	10836318	-1	p13.2
ENSG00000155329	0.7674	1.7022	6.17E-08	2.89E-07	ZCCHC10	zinc finger, protein_co	5	1.33E+08	1.33E+08	-1	q31.1
ENSG00000189280	0.7673	1.7021	1.61E-08	7.92E-08	GJB5	gap junctio protein_co	1	34755047	34758512	1	p34.3
ENSG00000101882	0.7669	1.7017	1.76E-10	1.03E-09	NKAP	NFKB activ; protein_co X		1.2E+08	1.2E+08	-1	q24
ENSG00000132000	0.7667	1.7014	0.004	0.0101	PODNL1	podocan-lil protein_co	19	13931187	13953392	-1	p13.12
ENSG00000172890	0.766	1.7005	8.95E-19	1.04E-17	NADSYN1	NAD synth; protein_co	11	71453109	71524107	1	q13.4
ENSG00000101888	0.766	1.7005	1.81E-07	8.09E-07	NXT2	nuclear tra protein_co X		1.1E+08	1.1E+08	1	q23
ENSG00000135916	0.7658	1.7003	1.55E-05	5.63E-05	ITM2C	integral me protein_co	2	2.31E+08	2.31E+08	1	q37.1



ENSG0000055147	0.7653	1.6997	5.94E-10	3.32E-09	FAM114A2	family with protein_co	5	1.54E+08	1.54E+08	-1	q33.2
ENSG00000153551	0.7652	1.6996	2.63E-06	1.04E-05	CMTM7	CKLF-like N protein_co	3	32391671	32483067	1	p22.3
ENSG00000134905	0.7651	1.6995	3.36E-16	3.19E-15	CARS2	cysteinyl-tF protein_co	13	1.11E+08	1.11E+08	-1	q34
ENSG00000183665	0.7648	1.6991	1.50E-07	6.75E-07	TRMT12	tRNA meth protein_co	8	1.24E+08	1.24E+08	1	q24.13
ENSG00000054282	0.7647	1.699	1.96E-17	2.05E-16	SDDCAG8	serological protein_co	1	2.43E+08	2.44E+08	1	q43
ENSG00000102882	0.7643	1.6986	1.54E-15	1.36E-14	MAPK3	mitogen-ac protein_co	16	30114105	30123506	-1	p11.2
ENSG00000176024	0.7644	1.6986	1.11E-06	4.61E-06	ZNF613	zinc finger protein_co	19	51879872	51948759	1	q13.41
ENSG00000198000	0.7643	1.6985	1.76E-16	1.71E-15	NOL8	nucleolar p protein_co	9	92297358	92325636	-1	q22.31
ENSG00000182923	0.7643	1.6985	1.15E-10	6.88E-10	CEP63	centrosom: protein_co	3	1.34E+08	1.35E+08	1	q22.2
ENSG00000082212	0.7642	1.6984	6.10E-19	7.20E-18	ME2	malic enzyr protein_co	18	50879049	50954257	1	q21.2
ENSG00000108848	0.7641	1.6983	5.77E-09	2.96E-08	LUC7L3	LUC7-like 3 protein_co	17	50719544	50756213	1	q21.33
ENSG00000119986	0.7636	1.6978	2.22E-06	8.88E-06	AVPI1	arginine va protein_co	10	97677424	97687323	-1	q24.2
ENSG00000215492	0.7635	1.6976	0.0012	0.0032	HNRNPA1P7	heterogene processed_	18	32412214	32413176	-1	q12.1
ENSG00000224032	0.7633	1.6974	0.0014	0.0037	EPB41L4A-AS1	EPB41L4A ε lincRNA	5	1.12E+08	1.12E+08	1	q22.1
ENSG00000100170	0.763	1.697	0.0063	0.0156	SLC5A1	solute carri protein_co	22	32043032	32113029	1	q12.3
ENSG00000004766	0.7629	1.6969	4.01E-10	2.28E-09	CCDC132	coiled-coil (protein_co	7	93232340	93361121	1	q21.2
ENSG00000149050	0.7627	1.6966	0.0049	0.0122	ZNF214	zinc finger protein_co	11	6999318	7020368	-1	p15.4
ENSG00000145912	0.7625	1.6964	2.24E-09	1.20E-08	NHP2	NHP2 ribor protein_co	5	1.78E+08	1.78E+08	-1	q35.3
ENSG00000198839	0.762	1.6958	2.42E-11	1.53E-10	ZNF277	zinc finger protein_co	7	1.12E+08	1.12E+08	1	q31.1
ENSG00000120647	0.7619	1.6958	8.73E-06	3.26E-05	CCDC77	coiled-coil (protein_co	12	389273	442645	1	p13.33
ENSG00000081087	0.7618	1.6956	0.005	0.0125	OSTM1	osteopetro protein_co	6	1.08E+08	1.08E+08	-1	q21
ENSG00000161016	0.7612	1.6949	6.45E-09	3.30E-08	RPL8	ribosomal f protein_co	8	1.45E+08	1.45E+08	-1	q24.3
ENSG00000225031	0.761	1.6947	0.016	0.0362	EIF4BP7	eukaryotic processed_ X		1.12E+08	1.12E+08	-1	q23
ENSG00000227258	0.761	1.6947	0.0188	0.0417	SMIM2-AS1	SMIM2 ant antisense	13	44110451	44240517	1	q14.11
ENSG00000119041	0.7609	1.6946	3.48E-10	1.99E-09	GTF3C3	general tra protein_co	2	1.97E+08	1.97E+08	-1	q33.1
ENSG00000088356	0.7608	1.6945	2.94E-11	1.84E-10	PDRG1	p53 and DN protein_co	20	31944342	31952092	-1	q11.21
ENSG00000132541	0.7606	1.6942	1.14E-06	4.72E-06	HRSP12	heat-respo protein_co	8	98102344	98117241	-1	q22.2
ENSG00000081721	0.7605	1.6941	4.79E-10	2.70E-09	DUSP12	dual specifi protein_co	1	1.62E+08	1.62E+08	1	q23.3
ENSG00000197415	0.7604	1.694	0.0033	0.0085	VEPH1	ventricular protein_co	3	1.57E+08	1.58E+08	-1	q25.32
ENSG00000114388	0.7603	1.6938	2.50E-10	1.44E-09	NPRL2	nitrogen pe protein_co	3	50347330	50351091	-1	p21.31
ENSG00000197062	0.7601	1.6936	8.13E-09	4.11E-08	ZSCAN26	zinc finger : protein_co	6	28267010	28278224	1	p22.1
ENSG00000267508	0.7595	1.6929	2.91E-06	1.15E-05	ZNF285	zinc finger protein_co	19	44382298	44401608	-1	q13.31
ENSG00000198727	0.7591	1.6924	1.60E-14	1.32E-13	MT-CYB	mitochondi protein_co MT		14747	15887	1	
ENSG00000111790	0.7585	1.6918	5.95E-08	2.79E-07	FGFR1OP2	FGFR1 oncr protein_co	12	26938383	26966650	1	p11.23
ENSG00000114902	0.7575	1.6905	1.64E-11	1.05E-10	SPCS1	signal pept protein_co	3	52704955	52711146	1	p21.1
ENSG00000269834	0.7572	1.6903	0.0012	0.0033	ZNF528-AS1	ZNF528 ant processed_	19	52388842	52397766	-1	q13.41
ENSG00000154743	0.7566	1.6895	0.0002	0.0007	TSEN2	TSEN2 tRN, protein_co	3	12484432	12539623	1	p25.2
ENSG00000136273	0.7558	1.6886	1.99E-14	1.62E-13	HUS1	HUS1 checl protein_co	7	47695730	47979581	-1	p12.3
ENSG00000148450	0.7555	1.6882	1.68E-12	1.17E-11	MSRB2	methionine protein_co	10	23095506	23122013	1	p12.2
ENSG00000206562	0.7555	1.6882	3.63E-10	2.07E-09	METTL6	methyltran protein_co	3	15381275	15440566	-1	p25.1
ENSG00000101773	0.7554	1.6882	0.0006	0.0017	RBBP8	retinoblast: protein_co	18	22798261	23026488	1	q11.2

ENSG00000177556	0.7552	1.6878	3.03E-10	1.74E-09	ATOX1	antioxidant protein_co	5	1.52E+08	1.52E+08	-1	q33.1
ENSG00000223813	0.7551	1.6878	0.0099	0.0233	AC007255.8	antisense	7	29514225	29563670	-1	p14.3
ENSG00000198804	0.7547	1.6872	7.52E-14	5.86E-13	MT-CO1	mitochondrion protein_co		5904	7445		1
ENSG00000198298	0.7542	1.6867	0.0021	0.0056	ZNF485	zinc finger protein_co	10	43606407	43617903	1	q11.21
ENSG00000116489	0.754	1.6865	1.22E-12	8.57E-12	CAPZA1	capping protein_co	1	1.13E+08	1.13E+08	1	p13.2
ENSG00000184454	0.7534	1.6858	9.23E-05	0.0003	NCMAP	noncompaction protein_co	1	24556111	24609328	1	p36.11
ENSG00000275183	0.753	1.6853	6.45E-05	0.0002	LENG9	leukocyte protein_co	19	54461796	54463711	-1	q13.42
ENSG00000185825	0.7525	1.6848	1.82E-24	3.45E-23	BCAP31	B-cell receptor protein_co		1.54E+08	1.54E+08	-1	q28
ENSG00000167635	0.7523	1.6845	9.09E-10	5.01E-09	ZNF146	zinc finger protein_co	19	36214602	36238774	1	q13.12
ENSG00000177576	0.7522	1.6844	7.78E-09	3.93E-08	C18orf32	chromosome protein_co	18	49477250	49492565	-1	q21.1
ENSG00000185973	0.7521	1.6842	1.16E-10	6.95E-10	TMLHE	trimethyllysine protein_co		1.55E+08	1.56E+08	-1	q28
ENSG00000131051	0.7519	1.684	7.90E-12	5.18E-11	RBM39	RNA binding protein_co	20	35703609	35742312	-1	q11.22
ENSG00000138750	0.7515	1.6835	9.82E-10	5.39E-09	NUP54	nucleoporin protein_co	4	76114659	76148515	-1	q21.1
ENSG00000111011	0.7513	1.6834	4.00E-15	3.45E-14	RSRC2	arginine/seryl protein_co	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000138621	0.751	1.683	1.67E-07	7.50E-07	PPCDC	phosphoprotein_co	15	75023555	75117462	1	q24.2
ENSG00000138385	0.7505	1.6824	7.56E-07	3.19E-06	SSB	Sjogren syndrome protein_co	2	1.7E+08	1.7E+08	1	q31.1
ENSG00000075089	0.7505	1.6823	8.72E-06	3.25E-05	ACTR6	ARP6 actin-binding protein_co	12	1E+08	1E+08	1	q23.1
ENSG00000147894	0.7504	1.6823	0.0061	0.015	C9orf72	chromosome protein_co	9	27546545	27573866	-1	p21.2
ENSG00000162642	0.7502	1.682	3.22E-10	1.84E-09	C1orf52	chromosome protein_co	1	85249953	85259672	-1	p22.3
ENSG00000068394	0.7494	1.6811	1.36E-09	7.40E-09	GPKOW	G patch domain protein_co		49113389	49123801	-1	p11.23
ENSG00000138073	0.7493	1.681	3.14E-12	2.14E-11	PREB	prolactin receptor protein_co	2	27130756	27134675	-1	p23.3
ENSG00000105650	0.7493	1.6809	0.0054	0.0135	PDE4C	phosphodiesterase protein_co	19	18207961	18255419	-1	p13.11
ENSG00000181004	0.7491	1.6808	0.0025	0.0067	BBS12	Bardet-Biedl syndrome protein_co	4	1.23E+08	1.23E+08	1	q27
ENSG00000152348	0.7487	1.6802	2.17E-08	1.06E-07	ATG10	autophagy protein_co	5	81972025	82276857	1	q14.1
ENSG00000088451	0.7486	1.6802	1.51E-07	6.81E-07	TGDS	TDP-glucosylase protein_co	13	94574051	94596257	-1	q32.1
ENSG00000140374	0.7484	1.6799	2.03E-16	1.96E-15	ETFA	electron-transport protein_co	15	76215355	76311472	-1	q24.3
ENSG00000099977	0.7478	1.6792	6.08E-12	4.04E-11	DDT	D-dopachrome protein_co	22	23971365	23980469	-1	q11.23
ENSG00000125863	0.7477	1.6791	1.24E-17	1.32E-16	MKKS	McKusick-Klein syndrome protein_co	20	10401009	10434222	-1	p12.2
ENSG00000114383	0.7475	1.6789	1.73E-09	9.30E-09	TUSC2	tumor suppressor protein_co	3	50320027	50328251	-1	p21.31
ENSG00000135452	0.7473	1.6786	9.47E-16	8.56E-15	TSPAN31	tetraspanin protein_co	12	57738013	57750211	1	q14.1
ENSG00000168301	0.7468	1.678	1.18E-05	4.35E-05	KCTD6	potassium channel protein_co	3	58492114	58502360	1	p14.3
ENSG00000255198	0.7467	1.678	0.0032	0.0084	SNHG9	small nucleolar lincRNA	16	1964959	1965509	1	p13.3
ENSG00000164199	0.7466	1.6778	0.0084	0.0202	GPR98	G protein-coupled protein_co	5	90529344	91164221	1	q14.3
ENSG00000197223	0.7465	1.6777	1.61E-09	8.67E-09	C1D	C1D nuclear protein_co	2	68041130	68110948	-1	p14
ENSG00000189190	0.7464	1.6776	2.54E-07	1.12E-06	ZNF600	zinc finger protein_co	19	52764195	52818004	-1	q13.41
ENSG00000102317	0.7463	1.6775	3.82E-16	3.61E-15	RBM3	RNA binding protein_co		48574449	48579066	1	p11.23
ENSG00000244625	0.7459	1.6771	0.0004	0.0011	MIATNB	MIAT neighbor lincRNA	22	26672767	26780207	1	q12.1
ENSG0000018869	0.7457	1.6768	0.0001	0.0004	ZNF582	zinc finger protein_co	19	56375846	56393545	-1	q13.43
ENSG00000161798	0.7457	1.6768	0.0207	0.0456	AQP5	aquaporin protein_co	12	49961870	49965681	1	q13.12
ENSG00000119185	0.7456	1.6767	7.21E-10	4.01E-09	ITGB1BP1	integrin beta protein_co	2	9403475	9423547	-1	p25.1
ENSG00000198668	0.7455	1.6766	2.29E-05	8.14E-05	CALM1	calmodulin protein_co	14	90396502	90408261	1	q32.11

ENSG00000254901	0.7455	1.6765	4.58E-06	1.76E-05	MEF2BNB	MEF2B nei protein_co	19	19176903	19192591	-1	p13.11
ENSG00000124356	0.7441	1.6749	3.56E-18	3.95E-17	STAMBP	STAM bindi protein_co	2	73828916	73873659	1	p13.1
ENSG00000163527	0.7438	1.6746	0.0009	0.0025	STT3B	STT3B, subi protein_co	3	31532638	31637622	1	p23
ENSG00000170917	0.7435	1.6742	0.0004	0.0011	NUDT6	nudix (nucl protein_co	4	1.23E+08	1.23E+08	-1	q28.1
ENSG00000162976	0.7433	1.674	9.33E-07	3.90E-06	PQLC3	PQ loop re protein_co	2	11155198	11178874	1	p25.1
ENSG00000243649	0.7431	1.6737	0.0071	0.0174	CFB	complemer protein_co	6	31945650	31952084	1	p21.33
ENSG00000164163	0.7427	1.6733	9.09E-15	7.61E-14	ABCE1	ATP-bindin protein_co	4	1.45E+08	1.45E+08	1	q31.21
ENSG00000113595	0.7423	1.6728	4.00E-08	1.91E-07	TRIM23	tripartite r protein_co	5	65589680	65625975	-1	q12.3
ENSG00000119326	0.742	1.6725	2.97E-05	0.0001	CTNNAL1	catenin (ca protein_co	9	1.09E+08	1.09E+08	-1	q31.3
ENSG00000105583	0.7419	1.6724	5.75E-14	4.51E-13	WDR83OS	WD repeat protein_co	19	12668071	12671356	-1	p13.13
ENSG00000197841	0.7418	1.6722	7.45E-06	2.80E-05	ZNF181	zinc finger   protein_co	19	34734155	34745378	1	q13.11
ENSG00000204568	0.7415	1.6719	3.65E-09	1.91E-08	MRPS18B	mitochond protein_co	6	30617709	30626395	1	p21.33
ENSG00000136891	0.7414	1.6718	5.65E-15	4.81E-14	TEX10	testis expre protein_co	9	1E+08	1E+08	-1	q31.1
ENSG00000164758	0.7414	1.6718	0.0008	0.0022	MED30	mediator c protein_co	8	1.18E+08	1.18E+08	1	q24.11
ENSG00000065621	0.7411	1.6715	0.0002	0.0006	GSTO2	glutathione protein_co	10	1.04E+08	1.04E+08	1	q25.1
ENSG00000095587	0.7411	1.6714	0.001	0.0028	TLL2	tolloid-like protein_co	10	96364606	96513918	-1	q24.1
ENSG00000158710	0.7409	1.6712	4.55E-06	1.75E-05	TAGLN2	transgelin 2 protein_co	1	1.6E+08	1.6E+08	-1	q23.2
ENSG00000111012	0.7398	1.67	0.0085	0.0203	CYP27B1	cytochrom protein_co	12	57762334	57768986	-1	q14.1
ENSG00000187118	0.7394	1.6695	2.47E-07	1.09E-06	CMC1	C-x(9)-C mc protein_co	3	28241584	28325142	1	p24.1
ENSG00000160055	0.7392	1.6693	8.47E-05	0.0003	TMEM234	transmemt protein_co	1	32214472	32222359	-1	p35.2
ENSG00000101019	0.7391	1.6691	1.76E-26	4.09E-25	UQCC1	ubiquinol-c protein_co	20	35302566	35412141	-1	q11.22
ENSG00000166289	0.7389	1.669	3.44E-06	1.35E-05	PLEKHF1	pleckstrin f protein_co	19	29665056	29675457	1	q12
ENSG00000147650	0.7389	1.6689	0.0134	0.0307	LRP12	low density protein_co	8	1.04E+08	1.05E+08	-1	q22.3
ENSG00000078142	0.7388	1.6688	1.38E-17	1.46E-16	PIK3C3	phosphatid protein_co	18	41955206	42087830	1	q12.3
ENSG00000141429	0.7384	1.6683	2.06E-06	8.28E-06	GALNT1	polypeptid protein_co	18	35581117	35711834	1	q12.2
ENSG00000137522	0.7383	1.6682	7.17E-09	3.64E-08	RNF121	ring finger   protein_co	11	71928701	71997597	1	q13.4
ENSG00000185664	0.7383	1.6682	0.0188	0.0418	PMEL	premelano protein_co	12	55954105	55973317	-1	q13.2
ENSG00000134262	0.7379	1.6678	1.41E-08	6.96E-08	AP4B1	adaptor-rel protein_co	1	1.14E+08	1.14E+08	-1	p13.2
ENSG00000126970	0.7374	1.6672	7.80E-06	2.92E-05	ZC4H2	zinc finger, protein_co X		64915802	65034713	-1	q11.2
ENSG00000196357	0.7371	1.6668	0.0002	0.0006	ZNF565	zinc finger   protein_co	19	36182060	36246257	-1	q13.12
ENSG00000136643	0.7368	1.6664	1.91E-17	2.01E-16	RPS6KC1	ribosomal f protein_co	1	2.13E+08	2.13E+08	1	q32.3
ENSG00000270157	0.7363	1.6659	0.0107	0.0251	RP5-894A10.6	sense_intrc	7	1.42E+08	1.42E+08	-1	q34
ENSG00000168303	0.7362	1.6658	2.99E-08	1.43E-07	MPLKIP	M-phase s protein_co	7	40126023	40134659	-1	p14.1
ENSG00000154262	0.7362	1.6658	0.0084	0.0202	ABCA6	ATP-bindin protein_co	17	69078702	69141888	-1	q24.3
ENSG00000158411	0.7356	1.6651	4.48E-08	2.12E-07	MITD1	MIT, micro protein_co	2	99161427	99181058	-1	q11.2
ENSG00000065485	0.7351	1.6645	0.0052	0.013	PDIA5	protein disi protein_co	3	1.23E+08	1.23E+08	1	q21.1
ENSG00000198833	0.7348	1.6641	1.70E-14	1.40E-13	UBE2J1	ubiquitin-c protein_co	6	89326625	89352848	-1	q15
ENSG00000136933	0.7346	1.664	8.24E-10	4.55E-09	RABEPK	Rab9 effect protein_co	9	1.25E+08	1.25E+08	1	q33.3
ENSG00000099860	0.7346	1.6639	1.22E-10	7.26E-10	GADD45B	growth arr protein_co	19	2476122	2478259	1	p13.3
ENSG00000114416	0.7343	1.6636	3.07E-15	2.66E-14	FXR1	fragile X mc protein_co	3	1.81E+08	1.81E+08	1	q26.33
ENSG00000196437	0.7335	1.6626	0.0006	0.0019	ZNF569	zinc finger   protein_co	19	37411155	37469275	-1	q13.12

ENSG00000120756	0.7333	1.6624	1.25E-07	5.68E-07	PLS1	plastin 1 [S protein_co	3	1.43E+08	1.43E+08	1	q23
ENSG00000106688	0.7332	1.6623	0.0034	0.0088	SLC1A1	solute carri protein_co	9	4490444	4587469	1	p24.2
ENSG00000176399	0.7331	1.6622	1.03E-06	4.28E-06	DMRTA1	DMRT-like protein_co	9	22446841	22455740	1	p21.3
ENSG00000113597	0.7329	1.662	1.47E-13	1.11E-12	TRAPPC13	trafficking protein_co	5	65624716	65666233	1	q12.3
ENSG00000183520	0.7327	1.6617	9.23E-13	6.58E-12	UTP11L	UTP11-like protein_co	1	38009258	38024824	1	p34.3
ENSG00000099800	0.7325	1.6615	4.57E-13	3.34E-12	TMM13	translocase protein_co	19	2425624	2427894	-1	p13.3
ENSG00000156170	0.7324	1.6614	2.12E-07	9.41E-07	NDUFAF6	NADH dehy protein_co	8	94895767	95116455	1	q22.1
ENSG00000167775	0.7324	1.6614	0.0018	0.0049	CD320	CD320 mol protein_co	19	8302127	8308356	-1	p13.2
ENSG00000105701	0.7321	1.6611	1.06E-25	2.29E-24	FKBP8	FK506 bind protein_co	19	18531751	18544077	-1	p13.11
ENSG00000177054	0.7317	1.6606	2.56E-07	1.13E-06	ZDHC13	zinc finger protein_co	11	19117099	19176422	1	p15.1
ENSG00000099256	0.7309	1.6597	0.0003	0.0008	PRTFDC1	phosphorit protein_co	10	24848607	24952604	-1	p12.1
ENSG00000172053	0.7302	1.6589	7.97E-06	2.99E-05	QARS	glutaminy protein_co	3	49095932	49105101	-1	p21.31
ENSG00000151092	0.7302	1.6588	5.39E-11	3.31E-10	NGLY1	N-glycanas protein_co	3	25718944	25790039	-1	p24.2
ENSG00000182180	0.7297	1.6583	3.76E-35	1.99E-33	MRPS16	mitochond protein_co	10	73248843	73252693	-1	q22.2
ENSG00000173486	0.7295	1.6581	5.11E-12	3.42E-11	FKBP2	FK506 bind protein_co	11	64241003	64244132	1	q13.1
ENSG00000147316	0.7288	1.6573	2.84E-09	1.50E-08	MCPH1	microceph protein_co	8	6406592	6643623	1	p23.1
ENSG00000150687	0.7286	1.657	0.0063	0.0155	PRSS23	protease, s protein_co	11	86791059	86952910	1	q14.2
ENSG00000172748	0.7285	1.6569	0.0001	0.0004	ZNF596	zinc finger protein_co	8	232137	247342	1	p23.3
ENSG00000257267	0.7284	1.6568	1.01E-15	9.09E-15	ZNF271P	zinc finger unitary_pse	18	35290282	35310766	1	q12.2
ENSG00000132406	0.7279	1.6563	8.73E-11	5.27E-10	TMEM128	transmemt protein_co	4	4235542	4248212	-1	p16.3
ENSG00000155324	0.7269	1.6551	3.82E-09	2.00E-08	GRAMD3	GRAM dor protein_co	5	1.26E+08	1.26E+08	1	q23.2
ENSG00000178458	0.7259	1.6539	0.0097	0.0231	H3F3AP6	H3 histone, processed_	4	1.4E+08	1.4E+08	-1	q31.1
ENSG00000169439	0.7259	1.6539	0.017	0.0381	SDC2	syndecan 2 protein_co	8	96493351	96611780	1	q22.1
ENSG00000166770	0.7256	1.6535	0.0019	0.0052	ZNF667-AS1	ZNF667 antlincRNA	19	56477250	56500666	1	q13.43
ENSG00000117751	0.7254	1.6534	3.82E-21	5.48E-20	PPP1R8	protein phc protein_co	1	27830778	27851676	1	p35.3
ENSG00000157426	0.7251	1.6531	2.76E-10	1.59E-09	AASDH	aminoadip protein_co	4	56338287	56387508	-1	q12
ENSG00000167447	0.7251	1.653	9.72E-13	6.92E-12	SMG8	SMG8 nons protein_co	17	59209400	59215247	1	q22
ENSG00000119431	0.725	1.6529	2.61E-16	2.50E-15	HDHD3	haloacid de protein_co	9	1.13E+08	1.13E+08	-1	q32
ENSG00000079134	0.7249	1.6528	1.61E-10	9.46E-10	THOC1	THO compl protein_co	18	214520	268050	-1	p11.32
ENSG00000100908	0.7245	1.6524	0.0015	0.0041	EMC9	ER membra protein_co	14	24138959	24141588	-1	q12
ENSG00000130768	0.7244	1.6523	0.0012	0.0034	SMPDL3B	sphingomy protein_co	1	27934993	27959157	1	p35.3
ENSG00000117362	0.7241	1.6518	8.45E-11	5.11E-10	APH1A	APH1A gan protein_co	1	1.5E+08	1.5E+08	-1	q21.2
ENSG00000196126	0.724	1.6517	1.72E-06	6.96E-06	HLA-DRB1	major histo protein_co	6	32552990	32589848	-1	p21.32
ENSG00000167747	0.7236	1.6513	7.82E-05	0.0003	C19orf48	chromoson protein_co	19	50797704	50804929	-1	q13.33
ENSG00000213523	0.7235	1.6511	2.00E-16	1.92E-15	SRA1	steroid rec protein_co	5	1.41E+08	1.41E+08	-1	q31.3
ENSG00000078319	0.7233	1.651	1.95E-07	8.70E-07	PMS2P1	postmeioti unprocesse	7	1E+08	1E+08	-1	q22.1
ENSG00000100216	0.7232	1.6509	3.33E-10	1.90E-09	TOMM22	translocase protein_co	22	38681948	38685421	1	q13.1
ENSG00000163156	0.7231	1.6507	2.76E-07	1.21E-06	SCNM1	sodium cha protein_co	1	1.51E+08	1.51E+08	1	q21.3
ENSG00000119929	0.7228	1.6504	5.40E-05	0.0002	CUTC	cutC coppe protein_co	10	99702558	99756134	1	q24.2
ENSG00000113593	0.7227	1.6503	2.07E-12	1.43E-11	PPWD1	peptidylprc protein_co	5	65563236	65587549	1	q12.3
ENSG00000118418	0.7227	1.6502	0.0005	0.0016	HMGN3	high mobili protein_co	6	79201245	79234738	-1	q14.1

ENSG00000183527	0.7224	1.6499	1.54E-16	1.50E-15	PSMG1	proteasom protein_co	21	39174769	39183851	-1	q22.2
ENSG00000151445	0.7222	1.6497	3.79E-17	3.86E-16	VIPAS39	VPS33B int protein_co	14	77426675	77457952	-1	q24.3
ENSG00000120708	0.7211	1.6485	0.0004	0.0012	TGFB1	transformir protein_co	5	1.36E+08	1.36E+08	1	q31.1
ENSG00000065600	0.721	1.6483	0.0002	0.0007	TMEM206	transmemt protein_co	1	2.12E+08	2.12E+08	-1	q32.3
ENSG00000004059	0.7201	1.6473	7.72E-15	6.50E-14	ARF5	ADP-ribosy protein_co	7	1.28E+08	1.28E+08	1	q32.1
ENSG00000113621	0.7199	1.6471	4.27E-12	2.87E-11	TXNDC15	thioredoxir protein_co	5	1.35E+08	1.35E+08	1	q31.1
ENSG00000138279	0.7193	1.6464	4.22E-16	3.96E-15	ANXA7	annexin A7 protein_co	10	73375101	73414076	-1	q22.2
ENSG00000104129	0.7192	1.6462	3.37E-06	1.32E-05	DNAJC17	DnaJ (Hsp4 protein_co	15	40765155	40807477	-1	q15.1
ENSG00000188171	0.7188	1.6458	4.58E-05	0.0002	ZNF626	zinc finger   protein_co	19	20544571	20863281	-1	p12
ENSG00000100528	0.7187	1.6457	2.31E-13	1.72E-12	CNIH1	cornichon f protein_co	14	54423560	54441431	-1	q22.2
ENSG00000129696	0.7187	1.6457	3.73E-07	1.61E-06	TTI2	TELO2 interprotein_co	8	33473386	33513601	-1	p12
ENSG00000100568	0.7186	1.6456	6.05E-36	3.45E-34	VT11B	vesicle tran protein_co	14	67647075	67674831	-1	q24.1
ENSG00000143036	0.7183	1.6453	6.85E-10	3.81E-09	SLC44A3	solute carri protein_co	1	94820342	94895246	1	p21.3
ENSG00000138398	0.7182	1.6452	4.62E-16	4.32E-15	PPIG	peptidylprc protein_co	2	1.7E+08	1.7E+08	1	q31.1
ENSG00000237765	0.7183	1.6452	7.82E-07	3.29E-06	FAM200B	family with protein_co	4	15681662	15705565	1	p15.32
ENSG00000133114	0.718	1.6449	8.14E-09	4.11E-08	GPALPP1	GPALPP mc protein_co	13	44989529	45037669	1	q14.12
ENSG00000065534	0.7178	1.6447	0.0075	0.0181	MYLK	myosin ligh protein_co	3	1.24E+08	1.24E+08	-1	q21.1
ENSG00000115828	0.7173	1.6441	0.0199	0.0439	QPCT	glutaminyl- protein_co	2	37344574	37373322	1	p22.2
ENSG00000165669	0.7171	1.6439	2.11E-15	1.86E-14	FAM204A	family with protein_co	10	1.18E+08	1.18E+08	-1	q26.11
ENSG00000086200	0.7171	1.6439	0.0027	0.0071	IPO11	importin 11 protein_co	5	62403972	62628582	1	q12.1
ENSG00000119559	0.717	1.6438	5.16E-16	4.81E-15	C19orf25	chromoson protein_co	19	1461143	1479556	-1	p13.3
ENSG00000146476	0.7171	1.6438	1.96E-08	9.57E-08	C6orf211	chromoson protein_co	6	1.51E+08	1.51E+08	1	q25.1
ENSG00000147099	0.716	1.6426	1.15E-18	1.33E-17	HDAC8	histone dea protein_co X		72329516	72573103	-1	q13.1
ENSG00000165416	0.7158	1.6424	2.56E-08	1.24E-07	SUGT1	SGT1, supp protein_co	13	52652709	52700909	1	q14.3
ENSG00000185220	0.7156	1.6422	1.18E-06	4.87E-06	PGBD2	piggyBac tr protein_co	1	2.49E+08	2.49E+08	1	q44
ENSG00000111231	0.7155	1.6421	1.21E-08	6.00E-08	GPN3	GPN-loop C protein_co	12	1.1E+08	1.1E+08	-1	q24.11
ENSG00000123179	0.7155	1.642	1.02E-07	4.69E-07	EBPL	emopamil I protein_co	13	49660723	49691475	-1	q14.2
ENSG00000137100	0.7151	1.6417	1.96E-11	1.25E-10	DCTN3	dynactin 3 protein_co	9	34613545	34620523	-1	p13.3
ENSG00000121931	0.7149	1.6414	2.28E-13	1.70E-12	LRIF1	ligand depe protein_co	1	1.11E+08	1.11E+08	-1	p13.3
ENSG00000247081	0.7147	1.6412	0.0109	0.0254	BAALC-AS1	BAALC anti antisense	8	1.03E+08	1.03E+08	-1	q22.3
ENSG00000137331	0.7148	1.6412	0.0117	0.0272	IER3	immediate protein_co	6	30743199	30744554	-1	p21.33
ENSG00000205133	0.7146	1.6411	2.17E-06	8.68E-06	TRIQQ	triple QxxK protein_co	8	92883530	93017673	-1	q22.1
ENSG00000169714	0.7146	1.641	1.56E-13	1.18E-12	CNBP	CCHC-type protein_co	3	1.29E+08	1.29E+08	-1	q21.3
ENSG00000166012	0.7146	1.641	5.01E-06	1.92E-05	TAF1D	TATA box b protein_co	11	93729948	93784391	-1	q21
ENSG00000035141	0.7142	1.6406	9.04E-19	1.05E-17	FAM136A	family with protein_co	2	70295975	70302090	-1	p13.3
ENSG00000111581	0.7142	1.6406	5.04E-12	3.38E-11	NUP107	nucleoporin protein_co	12	68686734	68745809	1	q15
ENSG00000156603	0.7142	1.6406	1.46E-07	6.59E-07	MED19	mediator c protein_co	11	57703714	57712221	-1	q12.1
ENSG00000181315	0.7139	1.6402	2.46E-13	1.83E-12	ZNF322	zinc finger   protein_co	6	26634383	26659752	-1	p22.2
ENSG00000186787	0.7139	1.6402	0.0069	0.0168	SPIN2B	spindlin far protein_co X		57118551	57121547	-1	p11.21
ENSG00000136870	0.7134	1.6397	0.0004	0.0011	ZNF189	zinc finger   protein_co	9	1.01E+08	1.01E+08	1	q31.1
ENSG00000132305	0.7133	1.6395	1.93E-15	1.69E-14	IMMT	inner mem protein_co	2	86143932	86195770	-1	p11.2



ENSG00000151239	0.7132	1.6395	9.60E-08	4.41E-07	TWF1	twinfilin ac protein_co	12	43793723	43806375	-1	q12
ENSG00000182973	0.7127	1.6388	4.01E-05	0.0001	CNOT10	CCR4-NOT protein_co	3	32685145	32773875	1	p22.3
ENSG00000205302	0.7122	1.6383	5.39E-17	5.44E-16	SNX2	sorting nex protein_co	5	1.23E+08	1.23E+08	1	q23.2
ENSG00000151611	0.712	1.6381	6.93E-08	3.23E-07	MMAA	methylmal protein_co	4	1.46E+08	1.46E+08	1	q31.21
ENSG00000001630	0.7119	1.6379	3.63E-06	1.42E-05	CYP51A1	cytochrome protein_co	7	92112151	92142952	-1	q21.2
ENSG00000100360	0.7115	1.6376	0.0181	0.0403	IFT27	intraflagellar protein_co	22	36758202	36776256	-1	q12.3
ENSG00000172409	0.7113	1.6373	9.19E-13	6.55E-12	CLP1	cleavage ar protein_co	11	57648992	57661868	1	q12.1
ENSG00000184436	0.7111	1.6371	8.30E-10	4.59E-09	THAP7	THAP domain protein_co	22	20999104	21002196	-1	q11.21
ENSG00000240024	0.7109	1.6368	0.0003	0.0009	LINC00888	long intergenic transcribed	3	1.83E+08	1.83E+08	1	q27.1
ENSG00000177879	0.7103	1.6361	1.46E-05	5.31E-05	AP3S1	adaptor-rel protein_co	5	1.16E+08	1.16E+08	1	q22.3
ENSG00000186272	0.7098	1.6356	1.30E-06	5.31E-06	ZNF17	zinc finger protein_co	19	57411163	57421939	1	q13.43
ENSG00000111875	0.7097	1.6355	2.53E-11	1.59E-10	ASF1A	anti-silencing protein_co	6	1.19E+08	1.19E+08	1	q22.31
ENSG00000115947	0.7095	1.6352	4.33E-06	1.67E-05	ORC4	origin recognition protein_co	2	1.48E+08	1.48E+08	-1	q23.1
ENSG00000108960	0.7092	1.6349	0.0079	0.0192	MMD	monocyte protein_co	17	55392613	55421992	-1	q22
ENSG00000176171	0.709	1.6347	8.48E-06	3.17E-05	BNIP3	BCL2/aden protein_co	10	1.32E+08	1.32E+08	-1	q26.3
ENSG00000183891	0.709	1.6346	0.0005	0.0016	TTC32	tetratricopeptide protein_co	2	19896643	19901986	-1	p24.1
ENSG00000110536	0.7087	1.6343	8.37E-10	4.62E-09	PTPMT1	protein tyrosine protein_co	11	47565430	47573461	1	p11.2
ENSG00000223804	0.708	1.6336	0.0005	0.0014	CH17-472G23.2	transcribed	1	1.2E+08	1.2E+08	-1	p12
ENSG00000120688	0.7075	1.633	4.28E-09	2.22E-08	WBP4	WW domain protein_co	13	41061274	41084006	1	q14.11
ENSG00000179091	0.7076	1.633	2.06E-07	9.13E-07	CYC1	cytochrome protein_co	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000163536	0.7074	1.6328	0.0015	0.0041	SERPINI1	serpin peptidase protein_co	3	1.68E+08	1.68E+08	1	q26.1
ENSG00000116957	0.7072	1.6327	1.80E-08	8.82E-08	TBCE	tubulin fold protein_co	1	2.35E+08	2.35E+08	1	q42.3
ENSG00000106853	0.707	1.6324	2.77E-08	1.33E-07	PTGR1	prostaglandin protein_co	9	1.12E+08	1.12E+08	-1	q31.3
ENSG00000197808	0.7068	1.6322	1.29E-07	5.86E-07	ZNF461	zinc finger protein_co	19	36637192	36666853	-1	q13.12
ENSG00000082153	0.7067	1.6321	1.95E-09	1.05E-08	BZW1	basic leucine protein_co	2	2.01E+08	2.01E+08	1	q33.1
ENSG00000117906	0.7068	1.6321	4.33E-07	1.86E-06	RCN2	reticulocalbin protein_co	15	76931619	76954392	1	q24.3
ENSG00000181804	0.7062	1.6315	8.72E-05	0.0003	SLC9A9	solute carrier protein_co	3	1.43E+08	1.44E+08	-1	q24
ENSG00000196975	0.7059	1.6312	2.66E-16	2.54E-15	ANXA4	annexin A4 protein_co	2	69644425	69826464	1	p13.3
ENSG00000168615	0.7058	1.6311	0.0012	0.0033	ADAM9	ADAM metallopeptidase protein_co	8	38996869	39105144	1	p11.22
ENSG00000102174	0.7057	1.6309	0.0109	0.0256	PHEX	phosphate protein_co X		22032441	22251310	1	p22.11
ENSG00000153292	0.7046	1.6297	3.07E-12	2.08E-11	GPR110	G protein-coupled protein_co	6	46997703	47042363	-1	p12.3
ENSG00000149932	0.7042	1.6293	1.70E-20	2.29E-19	TMEM219	transmembrane protein_co	16	29940885	29973052	1	p11.2
ENSG00000132199	0.7041	1.6292	4.30E-08	2.04E-07	ENOSF1	enolase superfamily protein_co	18	670324	712676	-1	p11.32
ENSG00000042493	0.704	1.629	9.02E-06	3.36E-05	CAPG	capping protein protein_co	2	85394748	85418432	-1	p11.2
ENSG00000197372	0.7038	1.6288	2.68E-06	1.06E-05	ZNF675	zinc finger protein_co	19	23525631	23687220	-1	p12
ENSG00000125122	0.7038	1.6288	0.0064	0.0158	LRRC29	leucine rich protein_co	16	67207139	67227048	-1	q22.1
ENSG00000133142	0.7038	1.6287	2.29E-15	2.01E-14	TCEAL4	transcriptase protein_co X		1.04E+08	1.04E+08	1	q22.2
ENSG00000177628	0.7035	1.6285	2.43E-10	1.41E-09	GBA	glucosylase protein_co	1	1.55E+08	1.55E+08	-1	q22
ENSG00000137106	0.7034	1.6284	1.36E-21	2.04E-20	GRHPR	glyoxylate reductase protein_co	9	37422666	37436990	1	p13.2
ENSG00000144635	0.7034	1.6284	6.02E-21	8.45E-20	DYNC1LI1	dynein, cytoplasmic protein_co	3	32525971	32570874	-1	p22.3
ENSG00000183978	0.7027	1.6275	6.26E-06	2.37E-05	COA3	cytochrome protein_co	17	42795147	42798704	-1	q21.2



ENSG00000104863	0.7026	1.6274	0.0031	0.008	LIN7B	lin-7 homol protein_co	19	49114324	49118460	1	q13.33
ENSG00000092010	0.7025	1.6273	2.09E-21	3.07E-20	PSME1	proteasom protein_co	14	24136158	24138967	1	q12
ENSG00000102547	0.7022	1.627	5.81E-06	2.21E-05	CAB39L	calcium bin protein_co	13	49308650	49444126	-1	q14.2
ENSG00000166228	0.7018	1.6266	2.55E-06	1.01E-05	PCBD1	pterin-4 alç protein_co	10	70882280	70888784	-1	q22.1
ENSG00000221886	0.7014	1.626	5.46E-07	2.33E-06	ZBED8	zinc finger, protein_co	5	1.6E+08	1.6E+08	-1	q33.3
ENSG00000028116	0.7007	1.6252	1.57E-08	7.72E-08	VRK2	vaccinia rel protein_co	2	57907651	58159920	1	p16.1
ENSG00000198185	0.7003	1.6248	0.0022	0.006	ZNF334	zinc finger protein_co	20	46499630	46513559	-1	q13.12
ENSG00000182986	0.7	1.6245	1.33E-07	6.04E-07	ZNF320	zinc finger protein_co	19	52863790	52897693	-1	q13.41
ENSG00000122884	0.7	1.6245	1.44E-07	6.48E-07	P4HA1	prolyl 4-hy protein_co	10	73007217	73096974	-1	q22.1
ENSG00000138614	0.6998	1.6243	1.02E-12	7.22E-12	VWA9	von Willebl protein_co	15	65578753	65611289	-1	q22.31
ENSG00000198931	0.6998	1.6243	2.23E-11	1.41E-10	APRT	adenine ph protein_co	16	88809339	88811944	-1	q24.3
ENSG00000112855	0.6996	1.6241	6.15E-11	3.77E-10	HARS2	histidyl-tRN protein_co	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000100722	0.6993	1.6238	1.88E-11	1.20E-10	ZC3H14	zinc finger protein_co	14	88562909	88627596	1	q31.3
ENSG00000272667	0.6992	1.6236	0.0018	0.0048	RP11-395A13.2	lincRNA	2	1.28E+08	1.28E+08	1	q14.3
ENSG00000000460	0.699	1.6234	7.76E-06	2.91E-05	C1orf112	chromoson protein_co	1	1.7E+08	1.7E+08	1	q24.2
ENSG00000189266	0.6989	1.6232	4.38E-09	2.27E-08	PNRC2	proline-rich protein_co	1	23959109	23963462	1	p36.11
ENSG00000183137	0.6988	1.6231	8.92E-08	4.11E-07	CEP57L1	centrosom protein_co	6	1.09E+08	1.09E+08	1	q21
ENSG00000122565	0.6981	1.6224	2.97E-18	3.30E-17	CBX3	chromobox protein_co	7	26201162	26213356	1	p15.2
ENSG00000138029	0.6981	1.6223	6.45E-12	4.26E-11	HADHB	hydroxyacy protein_co	2	26243170	26290468	1	p23.3
ENSG00000047315	0.6979	1.6221	1.28E-25	2.75E-24	POLR2B	polymerase protein_co	4	56977722	57031168	1	q12
ENSG00000013392	0.6975	1.6217	0.0002	0.0005	RWDD2A	RWD doma protein_co	6	83193379	83198932	1	q14.1
ENSG00000089123	0.6973	1.6215	0.0003	0.0009	TASP1	taspase, th protein_co	20	13389392	13638940	-1	p12.1
ENSG00000069943	0.6972	1.6214	0.0005	0.0015	PIGB	phosphatid protein_co	15	55318960	55355648	1	q21.3
ENSG00000169255	0.6969	1.621	0.0009	0.0025	B3GALNT1	beta-1,3-N protein_co	3	1.61E+08	1.61E+08	-1	q26.1
ENSG00000122694	0.6966	1.6207	1.98E-05	7.08E-05	GLIPR2	GLI pathog protein_co	9	36136536	36163913	1	p13.3
ENSG00000168517	0.6962	1.6202	0.0061	0.015	HEXIM2	hexamethy protein_co	17	45160700	45170040	1	q21.31
ENSG00000124444	0.696	1.62	5.83E-07	2.48E-06	ZNF576	zinc finger protein_co	19	43596392	43601157	1	q13.31
ENSG00000197265	0.6958	1.6198	9.54E-14	7.35E-13	GTF2E2	general tra protein_co	8	30578318	30658251	-1	p12
ENSG00000005001	0.6956	1.6196	4.21E-05	0.0001	PRSS22	protease, s protein_co	16	2852727	2858170	-1	p13.3
ENSG00000100379	0.6954	1.6194	5.29E-05	0.0002	KCTD17	potassium protein_co	22	37051736	37063390	1	q12.3
ENSG00000154263	0.6952	1.6192	0.0193	0.0426	ABCA10	ATP-bindin protein_co	17	69147214	69244846	-1	q24.3
ENSG00000143748	0.6952	1.6191	7.96E-10	4.41E-09	NVL	nuclear VCl protein_co	1	2.24E+08	2.24E+08	-1	q42.11
ENSG00000143155	0.695	1.6188	1.18E-10	7.02E-10	TIPRL	TOR signali protein_co	1	1.68E+08	1.68E+08	1	q24.2
ENSG00000170854	0.695	1.6188	9.09E-09	4.57E-08	MINA	MYC induc protein_co	3	97941818	97972457	-1	q11.2
ENSG00000096872	0.6947	1.6185	0.0061	0.0152	IFT74	intraflagell protein_co	9	26947039	27062930	1	p21.2
ENSG00000180398	0.6942	1.618	3.00E-05	0.0001	MCFD2	multiple co protein_co	2	46901870	46941855	-1	p21
ENSG00000115425	0.694	1.6177	0.0025	0.0067	PECR	peroxisom protein_co	2	2.16E+08	2.16E+08	-1	q35
ENSG00000214026	0.6936	1.6173	0.0018	0.0049	MRPL23	mitochondi protein_co	11	1947278	1984522	1	p15.5
ENSG00000144827	0.6934	1.6171	1.05E-07	4.80E-07	ABHD10	abhydrolas protein_co	3	1.12E+08	1.12E+08	1	q13.2
ENSG00000162735	0.6932	1.6169	1.98E-25	4.16E-24	PEX19	peroxisom protein_co	1	1.6E+08	1.6E+08	-1	q23.2
ENSG00000186625	0.693	1.6167	1.69E-05	6.12E-05	KATNA1	katanin p6( protein_co	6	1.5E+08	1.5E+08	-1	q25.1

ENSG00000139546	0.693	1.6166	1.39E-09	7.52E-09	TARBP2	TAR (HIV-1' protein_co	12	53500921	53506431	1	q13.13
ENSG00000121350	0.693	1.6166	4.40E-08	2.08E-07	PYROXD1	pyridine nu protein_co	12	21437615	21471252	1	p12.1
ENSG00000236618	0.6924	1.616	0.003	0.0078	PITPNA-AS1	PITPNA ant antisense	17	1516931	1518096	1	p13.3
ENSG00000115641	0.6912	1.6146	0.0016	0.0045	FHL2	four and a l protein_co	2	1.05E+08	1.05E+08	-1	q12.2
ENSG00000159200	0.6911	1.6145	0.0095	0.0225	RCAN1	regulator o protein_co	21	34513142	34615142	-1	q22.12
ENSG00000170786	0.6909	1.6143	0.0006	0.0017	SDR16C5	short chain protein_co	8	56300010	56320776	-1	q12.1
ENSG00000186364	0.6907	1.6141	0.0096	0.0229	NUDT17	nudix (nucl protein_co	1	1.46E+08	1.46E+08	1	q21.1
ENSG00000173890	0.6906	1.614	2.83E-05	9.93E-05	GPR160	G protein-c protein_co	3	1.7E+08	1.7E+08	1	q26.2
ENSG00000138442	0.6904	1.6137	5.10E-12	3.41E-11	WDR12	WD repeat protein_co	2	2.03E+08	2.03E+08	-1	q33.2
ENSG00000138363	0.6901	1.6133	4.60E-10	2.60E-09	ATIC	5-aminoimi protein_co	2	2.15E+08	2.15E+08	1	q35
ENSG00000174628	0.69	1.6133	0.019	0.0422	IQCK	IQ motif co protein_co	16	19716456	19858467	1	p12.3
ENSG00000196873	0.6891	1.6123	0.0005	0.0016	CBWD3	COBW dor protein_co	9	68232003	68300015	1	q21.11
ENSG00000018699	0.6886	1.6117	8.04E-14	6.24E-13	TTC27	tetratricop protein_co	2	32628032	32821051	1	p22.3
ENSG00000118564	0.6883	1.6114	5.66E-18	6.18E-17	FBXL5	F-box and l protein_co	4	15604539	15681679	-1	p15.32
ENSG00000104689	0.6883	1.6114	5.41E-05	0.0002	TNFRSF10A	tumor necr protein_co	8	23190452	23225126	-1	p21.3
ENSG00000250722	0.6882	1.6113	0.0004	0.0011	SEPP1	selenoprot protein_co	5	42799880	42887392	-1	p12
ENSG00000154065	0.6881	1.6112	0.013	0.0298	ANKRD29	ankyrin rep protein_co	18	23598926	23662885	-1	q11.2
ENSG00000162927	0.6878	1.6108	6.23E-06	2.36E-05	PUS10	pseudourid protein_co	2	60940222	61018259	-1	p15
ENSG00000115363	0.6874	1.6104	0.0062	0.0153	EVA1A	eva-1 hom protein_co	2	75469302	75569722	-1	p12
ENSG00000135249	0.6871	1.6101	1.83E-09	9.84E-09	RINT1	RAD50 inte protein_co	7	1.06E+08	1.06E+08	1	q22.3
ENSG00000107937	0.687	1.6099	3.01E-15	2.61E-14	GTPBP4	GTP bindin protein_co	10	988019	1019936	1	p15.3
ENSG00000138430	0.6867	1.6096	6.04E-19	7.14E-18	OLA1	Obg-like A1 protein_co	2	1.74E+08	1.74E+08	-1	q31.1
ENSG00000147533	0.6866	1.6095	1.62E-19	2.01E-18	GOLGA7	golgin A7 [s protein_co	8	41490396	41510980	1	p11.21
ENSG00000115761	0.6862	1.609	7.24E-13	5.21E-12	NOL10	nucleolar p protein_co	2	10570766	10689987	-1	p25.1
ENSG00000204344	0.686	1.6088	5.09E-07	2.18E-06	STK19	serine/thre protein_co	6	31971091	31982821	1	p21.33
ENSG00000142856	0.6852	1.6079	0.0019	0.0052	ITGB3BP	integrin be protein_co	1	63440770	63593721	-1	p31.3
ENSG00000129625	0.6847	1.6073	3.99E-13	2.92E-12	REEP5	receptor ac protein_co	5	1.13E+08	1.13E+08	-1	q22.2
ENSG00000102898	0.6847	1.6073	2.82E-12	1.93E-11	NUTF2	nuclear tra protein_co	16	67846732	67872567	1	q22.1
ENSG00000156976	0.6847	1.6073	6.96E-11	4.23E-10	EIF4A2	eukaryotic protein_co	3	1.87E+08	1.87E+08	1	q27.3
ENSG00000132646	0.6844	1.607	1.11E-08	5.54E-08	PCNA	proliferatin protein_co	20	5114953	5126626	-1	p12.3
ENSG00000115661	0.6841	1.6067	4.67E-06	1.80E-05	STK16	serine/thre protein_co	2	2.19E+08	2.19E+08	1	q35
ENSG00000080822	0.684	1.6066	1.50E-07	6.77E-07	CLDND1	claudin dor protein_co	3	98497912	98523066	-1	q11.2
ENSG00000181007	0.6838	1.6063	0.0004	0.0011	ZFP82	ZFP82 zinc protein_co	19	36383120	36418656	-1	q13.12
ENSG00000167157	0.6836	1.6061	0.0065	0.0161	PRRX2	paired rela protein_co	9	1.3E+08	1.3E+08	1	q34.11
ENSG00000206075	0.6835	1.606	2.65E-07	1.16E-06	SERPINB5	serpin pept protein_co	18	63476761	63505085	1	q21.33
ENSG00000163041	0.6835	1.606	4.79E-06	1.84E-05	H3F3A	H3 histone, protein_co	1	2.26E+08	2.26E+08	1	q42.12
ENSG00000115286	0.6831	1.6056	1.54E-12	1.07E-11	NDUFS7	NADH dehy protein_co	19	1383527	1395589	1	p13.3
ENSG00000088832	0.683	1.6055	2.86E-22	4.48E-21	FKBP1A	FK506 bind protein_co	20	1368978	1393172	-1	p13
ENSG00000174109	0.683	1.6055	0.0001	0.0004	C16orf91	chromoson protein_co	16	1419744	1420800	-1	p13.3
ENSG00000114107	0.6829	1.6054	1.98E-08	9.68E-08	CEP70	centrosom protein_co	3	1.38E+08	1.39E+08	-1	q22.3
ENSG00000157869	0.6829	1.6054	8.16E-07	3.43E-06	RAB28	RAB28, me protein_co	4	13361354	13484365	-1	p15.33

ENSG00000257556	0.6828	1.6053	0.0109	0.0256 RP11-44N21.1	lincRNA	14	1.05E+08	1.05E+08	1 q32.33
ENSG00000065057	0.6826	1.605	4.18E-06	1.62E-05 NTHL1	nth endonuc protein_co	16	2039815	2047866	-1 p13.3
ENSG00000170445	0.6825	1.6049	7.10E-20	9.12E-19 HARS	histidyl-tRNA protein_co	5	1.41E+08	1.41E+08	-1 q31.3
ENSG00000129680	0.6823	1.6046	8.44E-06	3.15E-05 MAP7D3	MAP7 dom protein_co X		1.36E+08	1.36E+08	-1 q26.3
ENSG00000087263	0.6812	1.6035	1.86E-15	1.64E-14 OGFOD1	2-oxogluta protein_co	16	56451490	56479100	1 q13
ENSG00000166295	0.681	1.6032	1.80E-12	1.25E-11 ANAPC16	anaphase p protein_co	10	72216000	72235860	1 q22.1
ENSG00000164221	0.6809	1.6032	1.38E-05	5.03E-05 CCDC112	coiled-coil protein_co	5	1.15E+08	1.15E+08	-1 q22.3
ENSG00000210127	0.6797	1.6018	0.0174	0.0391 MT-TA	mitochond Mt_tRNA MT		5587	5655	-1
ENSG00000151338	0.679	1.6011	0.0002	0.0006 MIPOL1	mirror-image protein_co	14	37197913	37552361	1 q13.3
ENSG00000104518	0.6789	1.6009	1.51E-08	7.43E-08 GSDMD	gasdermin protein_co	8	1.44E+08	1.44E+08	1 q24.3
ENSG00000164902	0.6781	1.6001	8.68E-18	9.33E-17 PHAX	phosphoryl protein_co	5	1.27E+08	1.27E+08	1 q23.2
ENSG00000151247	0.6778	1.5997	1.92E-09	1.03E-08 EIF4E	eukaryotic protein_co	4	98871684	98930637	-1 q23
ENSG00000160194	0.6773	1.5992	1.03E-10	6.19E-10 NDUFV3	NADH dehy protein_co	21	42879644	42913304	1 q22.3
ENSG00000137944	0.6773	1.5992	3.30E-09	1.73E-08 CCBL2	cysteine co protein_co	1	88935773	88992953	-1 p22.2
ENSG00000260260	0.6773	1.5991	0.0037	0.0095 SNHG19	small nucle lincRNA	16	2154797	2155358	-1 p13.3
ENSG00000156795	0.6771	1.5989	2.22E-07	9.86E-07 WDYHV1	WDYHV mc protein_co	8	1.23E+08	1.23E+08	1 q24.13
ENSG00000198691	0.6768	1.5986	0.0045	0.0114 ABCA4	ATP-binding protein_co	1	93992835	94121132	-1 p22.1
ENSG00000163026	0.6767	1.5985	3.17E-09	1.67E-08 C2orf44	chromoson protein_co	2	24029340	24049575	-1 p23.3
ENSG00000130706	0.6766	1.5984	2.44E-17	2.53E-16 ADRM1	adhesion re protein_co	20	62302093	62308862	1 q13.33
ENSG00000181264	0.6765	1.5982	0.0021	0.0056 TMEM136	transmemt protein_co	11	1.2E+08	1.2E+08	1 q23.3
ENSG00000188938	0.6758	1.5975	1.40E-09	7.58E-09 FAM120AOS	family with protein_co	9	93446494	93453592	-1 q22.31
ENSG00000002549	0.6758	1.5975	4.91E-08	2.32E-07 LAP3	leucine ami protein_co	4	17577192	17607972	1 p15.32
ENSG000000052802	0.6748	1.5964	0.0001	0.0005 MSMO1	methylster protein_co	4	1.65E+08	1.65E+08	1 q32.3
ENSG00000139826	0.6745	1.5961	0.0001	0.0003 ABHD13	abhydrolas protein_co	13	1.08E+08	1.08E+08	1 q33.3
ENSG00000233725	0.6741	1.5957	0.0028	0.0073 LINC00284	long interg lincRNA	13	43908669	44030461	1 q14.11
ENSG00000086827	0.6737	1.5952	5.33E-14	4.20E-13 ZW10	zw10 kinet protein_co	11	1.14E+08	1.14E+08	-1 q23.2
ENSG00000120832	0.6736	1.5951	7.51E-05	0.0003 MTERF2	mitochond protein_co	12	1.07E+08	1.07E+08	-1 q23.3
ENSG00000137496	0.6732	1.5946	0.0065	0.016 IL18BP	interleukin protein_co	11	71998541	72005715	1 q13.4
ENSG00000156026	0.673	1.5944	3.37E-20	4.43E-19 MCU	mitochond protein_co	10	72692131	72887694	1 q22.1
ENSG00000148229	0.6727	1.594	8.69E-09	4.37E-08 POLE3	polymerase protein_co	9	1.13E+08	1.13E+08	-1 q32
ENSG00000121417	0.6726	1.5939	2.36E-10	1.37E-09 ZNF211	zinc finger protein_co	19	57630395	57642779	1 q13.43
ENSG00000128965	0.6726	1.5939	0.0165	0.0371 CHAC1	ChaC, catio protein_co	15	40952962	40956519	1 q15.1
ENSG00000118600	0.6718	1.5931	1.16E-10	6.94E-10 TMEM5	transmemt protein_co	12	63779803	63809558	1 q14.2
ENSG00000144746	0.6718	1.5931	0.0002	0.0005 ARL6IP5	ADP-ribosy protein_co	3	69084944	69106066	1 p14.1
ENSG00000196998	0.6716	1.5929	1.16E-13	8.86E-13 WDR45	WD repeat protein_co X		49074433	49101170	-1 p11.23
ENSG00000117411	0.6716	1.5929	1.85E-09	9.94E-09 B4GALT2	UDP-Gal:be protein_co	1	43978943	43991170	1 p34.1
ENSG00000070950	0.6713	1.5925	8.70E-07	3.64E-06 RAD18	RAD18 E3 t protein_co	3	8775402	8963773	-1 p25.3
ENSG00000064692	0.6706	1.5917	0.0047	0.0119 SNCAIP	synuclein, t protein_co	5	1.22E+08	1.22E+08	1 q23.2
ENSG00000107968	0.6703	1.5914	1.13E-05	4.15E-05 MAP3K8	mitogen-ac protein_co	10	30433937	30461833	1 p11.23
ENSG00000164904	0.6702	1.5913	2.07E-08	1.01E-07 ALDH7A1	aldehyde d protein_co	5	1.27E+08	1.27E+08	-1 q23.2
ENSG00000078487	0.6702	1.5913	0.0144	0.0329 ZCWPW1	zinc finger, protein_co	7	1E+08	1E+08	-1 q22.1

ENSG00000143570	0.6699	1.591	3.53E-09	1.85E-08	SLC39A1	solute carrier protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000163406	0.6699	1.5909	1.11E-05	4.10E-05	SLC15A2	solute carrier protein_co	3	1.22E+08	1.22E+08	1	q13.33
ENSG00000157181	0.6697	1.5907	4.99E-10	2.81E-09	C1orf27	chromosome protein_co	1	1.86E+08	1.86E+08	1	q31.1
ENSG00000121691	0.6697	1.5907	1.28E-05	4.67E-05	CAT	catalase [S] protein_co	11	34438925	34472062	1	p13
ENSG00000116667	0.6694	1.5904	7.30E-10	4.05E-09	C1orf21	chromosome protein_co	1	1.84E+08	1.85E+08	1	q25.3
ENSG00000167653	0.6693	1.5903	0.0006	0.0018	PSCA	prostate stem protein_co	8	1.43E+08	1.43E+08	1	q24.3
ENSG00000213625	0.669	1.59	1.57E-05	5.69E-05	LEPROT	leptin receptor protein_co	1	65420587	65436007	1	p31.3
ENSG00000198331	0.6688	1.5897	0.0216	0.0473	HYLS1	hydrolethal protein_co	11	1.26E+08	1.26E+08	1	q24.2
ENSG00000067113	0.6684	1.5893	0.0004	0.0013	PPAP2A	phosphatidyl protein_co	5	55424854	55535050	-1	q11.2
ENSG00000159131	0.6682	1.5891	4.46E-16	4.18E-15	GART	phosphoribosyl protein_co	21	33503931	33543491	-1	q22.11
ENSG00000122068	0.6681	1.589	3.70E-10	2.11E-09	FYTTD1	forty-two-t protein_co	3	1.98E+08	1.98E+08	1	q29
ENSG00000169131	0.6679	1.5888	3.04E-06	1.20E-05	ZNF354A	zinc finger protein_co	5	1.79E+08	1.79E+08	-1	q35.3
ENSG00000165929	0.6678	1.5887	1.18E-06	4.87E-06	TC2N	tandem C2 protein_co	14	91779751	91867536	-1	q32.12
ENSG00000147364	0.6676	1.5884	3.76E-09	1.96E-08	FBXO25	F-box protein_co	8	406428	477967	1	p23.3
ENSG00000047230	0.6674	1.5883	1.17E-05	4.30E-05	CTPS2	CTP synthase protein_co X		16588003	16712936	-1	p22.2
ENSG00000078618	0.6671	1.5879	1.21E-15	1.08E-14	NRD1	nardilysin ( protein_co	1	51789191	51878937	-1	p32.3
ENSG00000170430	0.6666	1.5873	9.37E-05	0.0003	MGMT	O-6-methyl protein_co	10	1.29E+08	1.3E+08	1	q26.3
ENSG00000197989	0.6665	1.5872	0.005	0.0126	SNHG12	small nucleolar antisense	1	28578538	28582983	-1	p35.3
ENSG00000106305	0.6664	1.5871	4.42E-10	2.50E-09	AIMP2	aminoacyl-t protein_co	7	6009245	6023834	1	p22.1
ENSG00000260265	0.6664	1.5871	0.0115	0.0269	RP11-44F21.5	lincRNA	4	75081702	75084717	-1	q13.3
ENSG00000025772	0.6663	1.587	2.66E-10	1.53E-09	TOMM34	translocase protein_co	20	44942130	44960486	-1	q13.12
ENSG00000042317	0.6656	1.5863	0.007	0.0171	SPATA7	spermatogonial protein_co	14	88384924	88470350	1	q31.3
ENSG00000162236	0.6651	1.5857	1.91E-11	1.22E-10	STX5	syntaxin 5 protein_co	11	62806897	62832088	-1	q12.3
ENSG00000067167	0.6649	1.5854	0.0203	0.0447	TRAM1	translocation protein_co	8	70573442	70608387	-1	q13.3
ENSG00000247809	0.6647	1.5853	0.0127	0.0294	NR2F2-AS1	NR2F2 anti antisense	15	96110040	96327361	-1	q26.2
ENSG00000162851	0.6635	1.5839	4.42E-10	2.51E-09	TFB2M	transcription protein_co	1	2.47E+08	2.47E+08	-1	q44
ENSG00000174851	0.6631	1.5835	3.88E-10	2.21E-09	YIF1A	Yip1 interactor protein_co	11	66284580	66289170	-1	q13.2
ENSG00000100347	0.6627	1.5831	1.47E-12	1.03E-11	SAMM50	SAMM50 signal protein_co	22	43955421	44010531	1	q13.31
ENSG00000153485	0.6627	1.5831	2.14E-05	7.65E-05	TMEM251	transmembrane protein_co	14	93184951	93187089	1	q32.12
ENSG00000125877	0.6625	1.5829	5.64E-09	2.89E-08	ITPA	inosine triphosphate protein_co	20	3208868	3223870	1	p13
ENSG00000122376	0.6617	1.582	1.48E-07	6.67E-07	FAM35A	family with protein_co	10	87094161	87191468	1	q23.2
ENSG00000116791	0.6613	1.5815	3.10E-07	1.35E-06	CRYZ	crystallin, z protein_co	1	74705482	74733408	-1	p31.1
ENSG00000129317	0.6612	1.5814	7.92E-05	0.0003	PUS7L	pseudouridine protein_co	12	43728607	43758817	-1	q12
ENSG00000127022	0.6609	1.5811	6.26E-13	4.53E-12	CANX	calnexin [S] protein_co	5	1.8E+08	1.8E+08	1	q35.3
ENSG00000134283	0.6606	1.5808	1.78E-14	1.46E-13	PPHLN1	periphilin 1 protein_co	12	42238447	42459715	1	q12
ENSG00000141101	0.6605	1.5806	1.07E-06	4.44E-06	NOB1	NIN1/RPN1 protein_co	16	69741867	69754940	-1	q22.1
ENSG00000189403	0.6605	1.5806	1.28E-06	5.24E-06	HMGB1	high mobility protein_co	13	30456704	30617597	-1	q12.3
ENSG00000117228	0.6599	1.58	1.37E-05	5.00E-05	GBP1	guanylate kinase protein_co	1	89052319	89065360	-1	p22.2
ENSG00000114956	0.6598	1.5799	9.12E-12	5.95E-11	DGUOK	deoxyguanosine protein_co	2	73926826	73958961	1	p13.1
ENSG00000135211	0.6598	1.5799	4.77E-07	2.05E-06	TMEM60	transmembrane protein_co	7	77793728	77798580	-1	q11.23
ENSG00000109738	0.6597	1.5797	0.0018	0.005	GLRB	glycine receptor protein_co	4	1.57E+08	1.57E+08	1	q32.1

ENSG00000151466	0.6595	1.5795	1.36E-06	5.57E-06	SCLT1	sodium cha protein_co	4	1.29E+08	1.29E+08	-1	q28.2
ENSG00000169964	0.6594	1.5794	1.85E-06	7.46E-06	TMEM42	transmemt protein_co	3	44861869	44865670	1	p21.31
ENSG00000162777	0.6593	1.5793	2.96E-12	2.01E-11	DENND2D	DENN/MAI protein_co	1	1.11E+08	1.11E+08	-1	p13.2
ENSG00000256294	0.6593	1.5793	5.28E-06	2.02E-05	ZNF225	zinc finger   protein_co	19	44112181	44134816	1	q13.31
ENSG00000242779	0.6593	1.5793	9.39E-06	3.49E-05	ZNF702P	zinc finger   transcribed	19	52968251	53037898	-1	q13.41
ENSG00000167578	0.6589	1.5789	1.17E-05	4.29E-05	RAB4B	RAB4B, me protein_co	19	40778216	40796944	1	q13.2
ENSG00000182544	0.6588	1.5788	4.38E-15	3.76E-14	MFSD5	major facili protein_co	12	53251251	53254405	1	q13.13
ENSG00000138134	0.6587	1.5786	0.0006	0.0018	STAMBPL1	STAM bindi protein_co	10	88879734	88975153	1	q23.31
ENSG00000136527	0.6582	1.5781	2.54E-15	2.22E-14	TRA2B	transforme protein_co	3	1.86E+08	1.86E+08	-1	q27.2
ENSG00000225492	0.658	1.5779	0.004	0.0101	GBP1P1	guanylate t transcribed	1	89407679	89426243	1	p22.2
ENSG00000155959	0.6579	1.5778	1.73E-10	1.01E-09	VBP1	von Hippel- protein_co X		1.55E+08	1.55E+08	1	q28
ENSG00000124380	0.6578	1.5777	1.51E-06	6.14E-06	SNRNP27	small nucle protein_co	2	69893560	69905575	1	p13.3
ENSG00000161526	0.6577	1.5776	3.73E-13	2.74E-12	SAP30BP	SAP30 bind protein_co	17	75667116	75708062	1	q25.1
ENSG00000101138	0.6577	1.5775	8.46E-12	5.54E-11	CSTF1	cleavage st protein_co	20	56392371	56406369	1	q13.2
ENSG00000109911	0.6577	1.5775	5.42E-07	2.31E-06	ELP4	elongator a protein_co	11	31509750	31783998	1	p13
ENSG00000138050	0.6576	1.5774	5.22E-06	2.00E-05	THUMPDP2	THUMP doi protein_co	2	39736060	39779267	-1	p22.1
ENSG00000111801	0.6574	1.5773	0.0001	0.0005	BTN3A3	butyrophili protein_co	6	26440472	26453415	-1	p22.2
ENSG00000114988	0.6574	1.5772	3.06E-06	1.20E-05	LMAN2L	lectin, man protein_co	2	96705929	96740064	-1	q11.2
ENSG00000099785	0.657	1.5768	1.11E-09	6.10E-09	MARCH2	membrane protein_co	19	8413270	8439017	1	p13.2
ENSG00000148925	0.657	1.5768	1.80E-09	9.70E-09	BTBD10	BTB (POZ) ( protein_co	11	13388001	13463297	-1	p15.3
ENSG00000168439	0.6568	1.5766	1.03E-12	7.30E-12	STIP1	stress-indu protein_co	11	64185272	64204543	1	q13.1
ENSG00000155957	0.6565	1.5763	1.32E-08	6.52E-08	TMBIM4	transmemt protein_co	12	66135846	66170072	-1	q14.3
ENSG00000224307	0.6556	1.5753	0.0228	0.0497	RP11-344B5.2	lincRNA	9	1.29E+08	1.29E+08	1	q34.11
ENSG00000170892	0.6552	1.5749	5.94E-13	4.31E-12	TSEN34	TSEN34 tRN protein_co	19	54189938	54194536	1	q13.42
ENSG00000167699	0.6553	1.5749	3.26E-09	1.71E-08	GLOD4	glyoxalase   protein_co	17	757097	783390	-1	p13.3
ENSG00000175691	0.6552	1.5748	0.0003	0.0008	ZNF77	zinc finger   protein_co	19	2933218	2944971	-1	p13.3
ENSG00000224597	0.6549	1.5745	7.81E-12	5.12E-11	SVIL-AS1	SVIL antisense antisense	10	29409402	29487745	1	p11.23
ENSG00000014123	0.6546	1.5741	6.67E-09	3.40E-08	UFL1	UFM1-spec protein_co	6	96521595	96555276	1	q16.1
ENSG00000133997	0.6541	1.5736	7.79E-05	0.0003	MED6	mediator c  protein_co	14	70581257	70600690	-1	q24.2
ENSG00000105393	0.6539	1.5734	2.76E-08	1.33E-07	BABAM1	BRISC and l protein_co	19	17267350	17281249	1	p13.11
ENSG00000148290	0.6536	1.5731	9.55E-09	4.80E-08	SURF1	surfeit 1 [S  protein_co	9	1.33E+08	1.33E+08	-1	q34.2
ENSG00000066557	0.6536	1.5731	0.0003	0.001	LRRC40	leucine rich protein_co	1	70144805	70205620	-1	p31.1
ENSG00000141349	0.6535	1.573	2.31E-12	1.59E-11	G6PC3	glucose 6 p protein_co	17	44070735	44076344	1	q21.31
ENSG00000100591	0.653	1.5724	0.0028	0.0074	AHSA1	AHA1, activ protein_co	14	77457870	77469474	1	q24.3
ENSG00000166529	0.6522	1.5716	5.33E-05	0.0002	ZSCAN21	zinc finger : protein_co	7	1E+08	1E+08	1	q22.1
ENSG00000000457	0.6517	1.571	6.56E-06	2.48E-05	SCYL3	SCY1-like 3 protein_co	1	1.7E+08	1.7E+08	-1	q24.2
ENSG00000148219	0.6516	1.5709	0.0177	0.0397	ASTN2	astrotactin protein_co	9	1.16E+08	1.17E+08	-1	q33.1
ENSG00000147654	0.6515	1.5708	3.51E-06	1.37E-05	EBAG9	estrogen re protein_co	8	1.1E+08	1.1E+08	1	q23.2
ENSG00000128595	0.6514	1.5707	0.0006	0.0017	CALU	calumenin protein_co	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000166037	0.6511	1.5703	1.64E-07	7.38E-07	CEP57	centrosom: protein_co	11	95789965	95832693	1	q21
ENSG00000117305	0.6506	1.5698	1.03E-09	5.68E-09	HMGCL	3-hydroxyn protein_co	1	23801885	23838620	-1	p36.11



ENSG00000168116	0.6504	1.5696	0.0012	0.0034 KIAA1586	KIAA1586 [ protein_co	6	57046532	57055239	1	p12.1
ENSG00000145494	0.6502	1.5694	6.74E-13	4.86E-12 NDUFS6	NADH dehyprotein_co	5	1801400	1816605	1	p15.33
ENSG00000213551	0.65	1.5692	4.10E-06	1.59E-05 DNAJC9	DnaJ (Hsp4 protein_co	10	73183362	73248862	-1	q22.2
ENSG00000152234	0.6495	1.5686	4.78E-09	2.47E-08 ATP5A1	ATP syntha protein_co	18	46080248	46104334	-1	q21.1
ENSG00000153048	0.6491	1.5682	3.83E-05	0.0001 CARHSP1	calcium reg protein_co	16	8852942	8869012	-1	p13.2
ENSG00000174456	0.6485	1.5676	0.0074	0.0179 C12orf76	chromoson protein_co	12	1.1E+08	1.1E+08	-1	q24.11
ENSG00000196154	0.6478	1.5667	0.0106	0.0249 S100A4	S100 calciu protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000137133	0.6475	1.5665	6.76E-06	2.56E-05 HINT2	histidine tri protein_co	9	35812960	35815354	-1	p13.3
ENSG00000240891	0.6475	1.5665	0.0194	0.0428 PLCXD2	phosphatid protein_co	3	1.12E+08	1.12E+08	1	q13.2
ENSG00000049130	0.6472	1.5661	0.0001	0.0004 KITLG	KIT ligand [ protein_co	12	88492793	88580851	-1	q21.32
ENSG00000075914	0.6471	1.566	2.72E-11	1.71E-10 EXOSC7	exosome c protein_co	3	44975241	45036066	1	p21.31
ENSG00000150756	0.6471	1.566	5.43E-09	2.79E-08 FAM173B	family with protein_co	5	10226330	10249897	-1	p15.2
ENSG00000121964	0.6468	1.5657	1.13E-14	9.43E-14 GTDC1	glycosyltra protein_co	2	1.44E+08	1.44E+08	-1	q22.3
ENSG00000103245	0.6462	1.5651	5.36E-11	3.29E-10 NARFL	nuclear pre protein_co	16	729753	741329	-1	p13.3
ENSG00000183666	0.6462	1.565	0.0012	0.0032 GUSBP1	glucuronid; transcribed	5	21341833	21589372	1	p14.3
ENSG00000179152	0.6455	1.5642	1.90E-14	1.55E-13 TCAIM	T cell activa protein_co	3	44338119	44409451	1	p21.31
ENSG00000123268	0.6453	1.564	6.11E-07	2.59E-06 ATF1	activating t protein_co	12	50763710	50821122	1	q13.12
ENSG00000204261	0.645	1.5637	0.0023	0.006 PSMB8-AS1	PSMB8 ant lincRNA	6	32844086	32846495	1	p21.32
ENSG00000108961	0.6447	1.5634	2.73E-07	1.20E-06 RANGRF	RAN guanir protein_co	17	8288497	8290092	1	p13.1
ENSG00000196757	0.6446	1.5633	1.57E-05	5.70E-05 ZNF700	zinc finger   protein_co	19	11925068	11950773	1	p13.2
ENSG00000128694	0.6443	1.563	7.54E-05	0.0003 OSGEPL1	O-sialoglyc protein_co	2	1.9E+08	1.9E+08	-1	q32.2
ENSG00000106524	0.6441	1.5628	1.90E-12	1.32E-11 ANKMY2	ankyrin rep protein_co	7	16599776	16645817	-1	p21.1
ENSG00000198121	0.6433	1.5618	0.0001	0.0003 LPAR1	lysophosph protein_co	9	1.11E+08	1.11E+08	-1	q31.3
ENSG00000204387	0.6431	1.5617	5.69E-05	0.0002 C6orf48	chromoson protein_co	6	31834608	31839766	1	p21.33
ENSG00000251381	0.6428	1.5614	2.34E-08	1.14E-07 LINC00958	long interg; lincRNA	11	12962510	12989548	-1	p15.3
ENSG00000198171	0.6428	1.5613	1.72E-14	1.41E-13 DDRGK1	DDRGK dor protein_co	20	3190350	3204685	-1	p13
ENSG00000083544	0.6427	1.5613	6.73E-05	0.0002 TDRD3	tudor dom; protein_co	13	60396457	60573878	1	q21.2
ENSG00000126458	0.6426	1.5611	0.0027	0.0071 RRAS	related RA; protein_co	19	49635292	49640201	-1	q13.33
ENSG00000165507	0.6425	1.561	0.0092	0.0218 C10orf10	chromoson protein_co	10	44970981	44978810	-1	q11.21
ENSG00000068745	0.6419	1.5604	3.84E-12	2.59E-11 IP6K2	inositol hex protein_co	3	48688003	48740353	-1	p21.31
ENSG00000169217	0.6418	1.5602	7.11E-21	9.92E-20 CD2BP2	CD2 (cytop protein_co	16	30350766	30355361	-1	p11.2
ENSG00000026103	0.6414	1.5599	0.0007	0.0021 FAS	Fas cell sur protein_co	10	88990531	89015785	1	q23.31
ENSG00000141219	0.6413	1.5597	7.33E-09	3.72E-08 C17orf80	chromoson protein_co	17	73232233	73248947	1	q25.1
ENSG00000100941	0.6411	1.5595	2.48E-07	1.09E-06 PNN	pinin, desr protein_co	14	39175183	39183218	1	q21.1
ENSG00000025156	0.6409	1.5593	8.49E-05	0.0003 HSF2	heat shock protein_co	6	1.22E+08	1.22E+08	1	q22.31
ENSG00000151327	0.6408	1.5592	6.19E-12	4.10E-11 FAM177A1	family with protein_co	14	35044907	35113130	1	q13.2
ENSG00000213096	0.6408	1.5592	1.08E-06	4.47E-06 ZNF254	zinc finger   protein_co	19	24033405	24129961	1	p12
ENSG00000198763	0.6408	1.5592	2.90E-05	0.0001 MT-ND2	mitochondi protein_co MT		4470	5511	1	
ENSG00000174132	0.6408	1.5592	0.0037	0.0096 FAM174A	family with protein_co	5	1.01E+08	1.01E+08	1	q21.1
ENSG00000100983	0.6407	1.5591	9.01E-15	7.55E-14 GSS	glutathione protein_co	20	34928430	34955817	-1	q11.22
ENSG00000171097	0.6407	1.5591	0.0002	0.0005 CCBL1	cysteine co protein_co	9	1.29E+08	1.29E+08	-1	q34.11



ENSG00000183431	0.6405	1.5589	2.50E-15	2.19E-14 SF3A3	splicing fac protein_co	1	37956975	37990921	-1 p34.3
ENSG00000105849	0.6404	1.5587	4.04E-07	1.75E-06 TWISTNB	TWIST neig protein_co	7	19695462	19709087	-1 p21.1
ENSG00000159921	0.6401	1.5584	0.0006	0.0017 GNE	glucosamin protein_co	9	36214441	36277056	-1 p13.3
ENSG00000169738	0.6399	1.5582	2.56E-08	1.24E-07 DCXR	dicarbonyl/ protein_co	17	82035136	82037732	-1 q25.3
ENSG00000160336	0.6398	1.5581	5.05E-08	2.38E-07 ZNF761	zinc finger   protein_co	19	53431993	53458261	1 q13.42
ENSG00000277462	0.6398	1.5581	0.0016	0.0043 ZNF670	zinc finger   protein_co	1	2.47E+08	2.47E+08	-1 q44
ENSG00000213799	0.6396	1.5579	7.90E-06	2.96E-05 ZNF845	zinc finger   protein_co	19	53333749	53354869	1 q13.42
ENSG00000121749	0.6389	1.5571	1.35E-07	6.12E-07 TBC1D15	TBC1 doma protein_co	12	71839707	71927248	1 q21.1
ENSG00000176225	0.6387	1.5569	2.23E-08	1.08E-07 RTTN	rotatin [So] protein_co	18	70003793	70205945	-1 q22.2
ENSG00000170619	0.6381	1.5563	4.94E-11	3.04E-10 COMMD5	COMM dor protein_co	8	1.45E+08	1.45E+08	-1 q24.3
ENSG00000067248	0.6378	1.556	2.58E-08	1.25E-07 DHX29	DEAH (Asp- protein_co	5	55256245	55307722	-1 q11.2
ENSG00000158864	0.6374	1.5555	4.79E-09	2.47E-08 NDUFS2	NADH dehy protein_co	1	1.61E+08	1.61E+08	1 q23.3
ENSG00000100225	0.6373	1.5554	6.26E-27	1.52E-25 FBXO7	F-box prote protein_co	22	32474676	32498829	1 q12.3
ENSG00000175575	0.637	1.5551	8.04E-05	0.0003 PAAF1	proteasom protein_co	11	73876699	73927745	1 q13.4
ENSG00000168556	0.6369	1.555	1.47E-05	5.35E-05 ING2	inhibitor of protein_co	4	1.84E+08	1.84E+08	1 q35.1
ENSG00000095261	0.6368	1.5549	1.24E-11	7.98E-11 PSMD5	proteasom protein_co	9	1.21E+08	1.21E+08	-1 q33.2
ENSG00000172239	0.636	1.554	1.88E-10	1.10E-09 PAIP1	poly(A) bin protein_co	5	43526267	43557758	-1 p12
ENSG00000086666	0.6356	1.5536	1.81E-07	8.09E-07 ZFAND6	zinc finger, protein_co	15	80059568	80138393	1 q25.1
ENSG00000146729	0.6356	1.5536	2.66E-05	9.36E-05 GBAS	glioblaston protein_co	7	55951793	56000181	1 p11.2
ENSG00000167842	0.6355	1.5535	5.15E-09	2.65E-08 MIS12	MIS12 kine protein_co	17	5486285	5490814	1 p13.2
ENSG00000165792	0.6354	1.5534	5.09E-14	4.01E-13 METTL17	methyltran protein_co	14	20989770	20997035	1 q11.2
ENSG00000143742	0.635	1.5529	2.31E-06	9.22E-06 SRP9	signal reco protein_co	1	2.26E+08	2.26E+08	1 q42.12
ENSG00000244754	0.6348	1.5527	1.36E-07	6.15E-07 N4BP2L2	NEDD4 bin protein_co	13	32432417	32538885	-1 q13.1
ENSG00000268362	0.6347	1.5527	0.0062	0.0153 CTD-2017D11.1	lincRNA	19	24033445	24066909	1 p12
ENSG00000138942	0.6346	1.5526	1.63E-13	1.23E-12 RNF185	ring finger   protein_co	22	31160183	31207019	1 q12.2
ENSG00000183814	0.6343	1.5522	0.0021	0.0056 LIN9	lin-9 DREAL protein_co	1	2.26E+08	2.26E+08	-1 q42.12
ENSG00000005175	0.634	1.5519	5.53E-08	2.60E-07 RPAP3	RNA polym protein_co	12	47661249	47706061	-1 q13.11
ENSG000000051620	0.634	1.5518	2.05E-17	2.14E-16 HEBP2	heme bindi protein_co	6	1.38E+08	1.38E+08	1 q24.1
ENSG00000153130	0.6337	1.5516	0.0016	0.0044 SCOC	short coilex protein_co	4	1.4E+08	1.4E+08	1 q31.1
ENSG00000214293	0.6335	1.5513	0.0002	0.0005 APTR	Alu-mediat lincRNA	7	77657660	77696265	-1 q11.23
ENSG00000182149	0.6333	1.5511	1.67E-15	1.48E-14 IST1	increased s protein_co	16	71845996	71931199	1 q22.2
ENSG00000221988	0.6331	1.5509	0.0015	0.0042 PPT2	palmitoyl- $\rho$ protein_co	6	32153441	32163680	1 p21.32
ENSG00000117859	0.6331	1.5508	8.06E-10	4.47E-09 OSBPL9	oxysterol b protein_co	1	51577179	51798427	1 p32.3
ENSG00000138768	0.6329	1.5507	1.90E-13	1.43E-12 USO1	USO1 vesic protein_co	4	75724593	75814286	1 q21.1
ENSG00000127337	0.6327	1.5504	2.62E-05	9.23E-05 YEATS4	YEATS dom protein_co	12	69359703	69390796	1 q15
ENSG00000014914	0.6326	1.5504	4.93E-05	0.0002 MTMR11	myotubulai protein_co	1	1.5E+08	1.5E+08	-1 q21.2
ENSG00000114767	0.6321	1.5498	2.82E-05	9.90E-05 RRP9	ribosomal f protein_co	3	51933430	51941941	-1 p21.2
ENSG00000102287	0.6321	1.5498	0.0108	0.0252 GABRE	gamma-am protein_co X		1.52E+08	1.52E+08	-1 q28
ENSG00000120662	0.6317	1.5494	2.83E-05	9.91E-05 MTRF1	mitochondi protein_co	13	41216369	41263577	-1 q14.11
ENSG00000115339	0.6306	1.5483	5.31E-07	2.27E-06 GALNT3	polypeptid protein_co	2	1.66E+08	1.66E+08	-1 q24.3
ENSG00000183323	0.6305	1.5481	0.0024	0.0063 CCDC125	coiled-coil   protein_co	5	69280175	69332809	-1 q13.2

ENSG00000131080	0.6302	1.5478	0.0083	0.0199	EDA2R	ectodyspla:protein_co X	66595637	66639298	-1	q12	
ENSG00000155100	0.6301	1.5477	0.0004	0.0012	OTUD6B	OTU domai protein_co	8	91070196	91087095	1	q21.3
ENSG00000090612	0.6301	1.5476	3.89E-09	2.02E-08	ZNF268	zinc finger   protein_co	12	1.33E+08	1.33E+08	1	q24.33
ENSG00000102359	0.6299	1.5475	2.15E-06	8.63E-06	SRPX2	sushi-repea protein_co X		1.01E+08	1.01E+08	1	q22.1
ENSG00000196204	0.6297	1.5472	7.39E-05	0.0002	RNF216P1	ring finger   transcribed	7	4973988	5040675	1	p22.1
ENSG00000214530	0.6294	1.5469	2.78E-06	1.10E-05	STARD10	StAR-relate protein_co	11	72754729	72794168	-1	q13.4
ENSG00000102158	0.6294	1.5469	3.52E-05	0.0001	MAGT1	magnesium protein_co X		77826364	77895593	-1	q21.1
ENSG00000171735	0.6291	1.5466	2.09E-09	1.11E-08	CAMTA1	calmodulin protein_co	1	6785324	7769706	1	p36.31
ENSG00000225335	0.6291	1.5466	0.0084	0.0203	XXbac-B476C20.9	antisense	22	18076527	18078884	-1	q11.21
ENSG00000121690	0.6291	1.5466	0.0123	0.0286	DEPDC7	DEP domai protein_co	11	33015864	33033582	1	p13
ENSG00000103429	0.6279	1.5453	1.01E-07	4.62E-07	BFAR	bifunctiona protein_co	16	14632815	14669236	1	p13.12
ENSG00000006451	0.6277	1.5451	5.09E-08	2.40E-07	RALA	v-ral simiar protein_co	7	39623483	39708124	1	p14.1
ENSG00000171843	0.6273	1.5447	1.12E-09	6.12E-09	MLLT3	myeloid/ly protein_co	9	20341665	20622543	-1	p21.3
ENSG00000155975	0.6273	1.5447	7.47E-09	3.78E-08	VPS37A	vacuolar pr protein_co	8	17246571	17302427	1	p22
ENSG00000175550	0.6273	1.5447	2.24E-07	9.94E-07	DRAP1	DR1-associ protein_co	11	65919257	65921561	1	q13.1
ENSG00000121542	0.6274	1.5447	7.10E-07	3.00E-06	SEC22A	SEC22 vesic protein_co	3	1.23E+08	1.23E+08	1	q21.1
ENSG00000099260	0.6267	1.544	0.0001	0.0004	PALMD	palmdelphi protein_co	1	99645943	99694541	1	p21.2
ENSG00000108406	0.6265	1.5439	7.95E-05	0.0003	DHX40	DEAH (Asp- protein_co	17	59565525	59608345	1	q23.1
ENSG00000118363	0.6261	1.5434	7.54E-07	3.18E-06	SPCS2	signal pept protein_co	11	74949247	74979031	1	q13.4
ENSG00000134531	0.626	1.5433	0.0115	0.0268	EMP1	epithelial n protein_co	12	13196716	13219939	1	p13.1
ENSG00000225526	0.6258	1.5431	0.0038	0.0098	MKRN2OS	MKRN2 op protein_co	3	12514934	12561059	-1	p25.2
ENSG00000102934	0.6252	1.5425	6.97E-05	0.0002	PLLP	plasmolipir protein_co	16	57248547	57284687	-1	q13
ENSG00000110218	0.6251	1.5423	0.0021	0.0055	PANX1	pannexin 1 protein_co	11	94128928	94181972	1	q21
ENSG00000142252	0.6247	1.5419	1.42E-05	5.17E-05	GEMIN7	gem (nucle protein_co	19	45079195	45091524	1	q13.32
ENSG00000240225	0.6241	1.5412	1.82E-10	1.06E-09	ZNF542P	zinc finger   transcribed	19	56368099	56379828	1	q13.43
ENSG00000065809	0.6237	1.5409	4.71E-07	2.02E-06	FAM107B	family with protein_co	10	14518557	14774897	-1	p13
ENSG00000114631	0.6236	1.5407	0.0229	0.0499	PODXL2	podocalyxii protein_co	3	1.28E+08	1.28E+08	1	q21.3
ENSG00000100558	0.6235	1.5406	0.0004	0.0011	PLEK2	pleckstrin 2 protein_co	14	67386983	67412200	-1	q24.1
ENSG00000124383	0.6231	1.5402	1.18E-10	7.02E-10	MPHOSPH10	M-phase pl protein_co	2	71130314	71150101	1	p13.3
ENSG00000176473	0.6224	1.5394	3.64E-05	0.0001	WDR25	WD repeat protein_co	14	1E+08	1.01E+08	1	q32.2
ENSG00000164597	0.6221	1.5391	5.01E-09	2.58E-08	COG5	component protein_co	7	1.07E+08	1.08E+08	-1	q22.3
ENSG00000156172	0.6221	1.5391	0.0027	0.0071	C8orf37	chromoson protein_co	8	95244919	95269201	-1	q22.1
ENSG00000183401	0.6219	1.5389	2.06E-05	7.37E-05	CCDC159	coiled-coil   protein_co	19	11344684	11354944	1	p13.2
ENSG00000257218	0.6217	1.5387	5.84E-14	4.58E-13	GATC	glutamyl-tF protein_co	12	1.2E+08	1.2E+08	1	q24.31
ENSG00000276023	0.6214	1.5384	0.0025	0.0066	DUSP14	dual specifi protein_co	17	37489831	37513501	1	q12
ENSG00000139579	0.6214	1.5383	7.53E-12	4.95E-11	NABP2	nucleic acic protein_co	12	56222015	56229854	1	q13.3
ENSG00000173041	0.6205	1.5375	0.0002	0.0006	ZNF680	zinc finger   protein_co	7	64519884	64563106	-1	q11.21
ENSG00000086619	0.6205	1.5374	0.0001	0.0004	ERO1LB	ERO1-like t protein_co	1	2.36E+08	2.36E+08	-1	q42.3
ENSG00000255398	0.6204	1.5373	0.0001	0.0005	HCAR3	hydroxycar protein_co	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000099385	0.6196	1.5365	2.32E-07	1.03E-06	BCL7C	B-cell CLL/l protein_co	16	30833626	30894960	-1	p11.2
ENSG00000028839	0.6197	1.5365	1.99E-05	7.13E-05	TBPL1	TBP-like 1 [ protein_co	6	1.34E+08	1.34E+08	1	q23.2

ENSG00000110619	0.6193	1.5361	3.70E-05	0.0001	CARS	cysteinyl-tf protein_co	11	3000922	3057613	-1	p15.4
ENSG00000270344	0.6193	1.5361	0.0039	0.0099	RP11-734K2.4	antisense	12	89525654	89548005	1	q21.33
ENSG00000067992	0.6192	1.536	0.0008	0.0024	PK3	pyruvate deprotein_co X		24465221	24539837	1	p22.11
ENSG00000164251	0.6189	1.5357	0.0009	0.0025	F2RL1	coagulation protein_co	5	76818933	76835315	1	q13.3
ENSG00000171490	0.6185	1.5353	1.73E-07	7.76E-07	RSL1D1	ribosomal l protein_co	16	11833850	11851585	-1	p13.13
ENSG00000119979	0.6177	1.5345	1.08E-09	5.92E-09	FAM45A	family with protein_co	10	1.19E+08	1.19E+08	1	q26.11
ENSG00000133835	0.6177	1.5344	3.75E-16	3.54E-15	HSD17B4	hydroxysteroid protein_co	5	1.19E+08	1.2E+08	1	q23.1
ENSG00000107371	0.6174	1.5341	2.15E-06	8.62E-06	EXOSC3	exosome component protein_co	9	37766978	37801437	-1	p13.2
ENSG00000198961	0.617	1.5337	7.70E-08	3.56E-07	PJA2	praja ring factor protein_co	5	1.09E+08	1.09E+08	-1	q21.3
ENSG00000115446	0.6169	1.5335	2.12E-09	1.13E-08	UNC50	unc-50 homolog protein_co	2	98608579	98618515	1	q11.2
ENSG00000143033	0.6169	1.5335	9.58E-06	3.56E-05	MTF2	metal responsive protein_co	1	93079235	93139081	1	p22.1
ENSG00000233396	0.6168	1.5335	0.003	0.0078	RP11-458D21.1	lincRNA	1	1.46E+08	1.46E+08	1	q21.1
ENSG00000134757	0.6163	1.533	5.99E-05	0.0002	DSG3	desmoglein protein_co	18	31447795	31478702	1	q12.1
ENSG00000001561	0.6156	1.5322	0.0032	0.0082	ENPP4	ectonucleoside protein_co	6	46129993	46146699	1	p21.1
ENSG00000176124	0.6149	1.5315	0.0178	0.0399	DLEU1	deleted in l protein_co	13	50082171	50723236	1	q14.2
ENSG00000149573	0.6147	1.5312	4.77E-06	1.84E-05	MPZL2	myelin proteolipin protein_co	11	1.18E+08	1.18E+08	-1	q23.3
ENSG00000275074	0.614	1.5305	1.29E-05	4.72E-05	NUDT18	nudix (nucl) protein_co	8	22106872	22109419	-1	p21.3
ENSG00000228989	0.6138	1.5303	0.0033	0.0087	AC133528.2	antisense	2	2.42E+08	2.42E+08	1	q37.3
ENSG00000110074	0.6133	1.5297	3.80E-05	0.0001	FOXRED1	FAD-dependent protein_co	11	1.26E+08	1.26E+08	1	q24.2
ENSG00000172687	0.6129	1.5293	0.0038	0.0098	ZNF738	zinc finger protein_co	19	21358930	21379302	1	p12
ENSG00000115540	0.6125	1.529	1.91E-06	7.70E-06	MOB4	MOB family protein_co	2	1.98E+08	1.98E+08	1	q33.1
ENSG00000081181	0.6124	1.5288	0.0063	0.0155	ARG2	arginase 2 protein_co	14	67619798	67651720	1	q24.1
ENSG00000094880	0.6123	1.5286	4.92E-09	2.53E-08	CDC23	cell division protein_co	5	1.38E+08	1.38E+08	-1	q31.2
ENSG00000087191	0.6113	1.5277	1.65E-11	1.06E-10	PSMC5	proteasome protein_co	17	63827152	63832026	1	q23.3
ENSG00000110330	0.6112	1.5276	4.59E-05	0.0002	BIRC2	baculoviral protein_co	11	1.02E+08	1.02E+08	1	q22.2
ENSG00000223547	0.6109	1.5272	2.21E-06	8.84E-06	ZNF844	zinc finger protein_co	19	12064699	12081565	1	p13.2
ENSG00000117592	0.6102	1.5265	3.64E-10	2.08E-09	PRDX6	peroxiredoxin protein_co	1	1.73E+08	1.73E+08	1	q25.1
ENSG00000185947	0.6098	1.526	1.22E-06	5.04E-06	ZNF267	zinc finger protein_co	16	31873758	31917357	1	p11.2
ENSG00000040633	0.6097	1.5259	7.34E-12	4.83E-11	PHF23	PHD finger protein_co	17	7235028	7239722	-1	p13.1
ENSG00000137274	0.6095	1.5257	7.81E-05	0.0003	BPHL	biphenyl hydrolase protein_co	6	3118374	3153578	1	p25.2
ENSG00000164008	0.609	1.5252	2.74E-05	9.63E-05	C1orf50	chromosome protein_co	1	42767269	42794493	1	p34.2
ENSG00000196284	0.6089	1.5251	5.99E-05	0.0002	SUPT3H	suppressor protein_co	6	44809317	45377953	-1	p21.1
ENSG00000124783	0.6086	1.5248	3.79E-07	1.64E-06	SSR1	signal sequence protein_co	6	7268306	7347446	-1	p24.3
ENSG00000138190	0.6087	1.5248	1.17E-05	4.32E-05	EXOC6	exocyst component protein_co	10	92834713	93059493	1	q23.33
ENSG00000134901	0.6084	1.5246	0.0099	0.0235	KDEL1	KDEL (Lys- <i>A</i> ) protein_co	13	1.03E+08	1.03E+08	-1	q33.1
ENSG00000082258	0.6081	1.5242	3.36E-07	1.46E-06	CCNT2	cyclin T2 [S] protein_co	2	1.35E+08	1.35E+08	1	q21.3
ENSG00000168522	0.6075	1.5236	2.15E-11	1.37E-10	FNTA	farnesyltransferase protein_co	8	43034194	43085788	1	p11.21
ENSG00000159593	0.6074	1.5235	3.99E-10	2.27E-09	NAE1	NEDD8 activating protein_co	16	66802875	66873256	-1	q22.1
ENSG00000175505	0.6071	1.5232	0.0224	0.049	CLCF1	cardiotrophin protein_co	11	67364168	67374177	-1	q13.2
ENSG00000109762	0.6069	1.523	0.0008	0.0022	SNX25	sorting nexin protein_co	4	1.85E+08	1.85E+08	1	q35.1
ENSG00000136270	0.6066	1.5227	1.90E-08	9.32E-08	TBRG4	transforming protein_co	7	45100100	45112047	-1	p13

ENSG00000116473	0.6066	1.5226	1.29E-06	5.30E-06	RAP1A	RAP1A, me protein_co	1	1.12E+08	1.12E+08	1	p13.2
ENSG00000233621	0.6064	1.5225	0.0004	0.0012	LINC01137	long intergenic antisense	1	37454879	37474411	-1	p34.3
ENSG00000137312	0.6059	1.5219	6.77E-11	4.13E-10	FLOT1	flotillin 1 [S protein_co	6	30727709	30742733	-1	p21.33
ENSG00000065559	0.6055	1.5215	6.21E-14	4.86E-13	MAP2K4	mitogen-act protein_co	17	12020824	12143830	1	p12
ENSG00000176894	0.6053	1.5213	0.0096	0.0228	PXMP2	peroxisomal protein_co	12	1.33E+08	1.33E+08	1	q24.33
ENSG00000196912	0.6053	1.5213	0.0105	0.0248	ANKRD36B	ankyrin repeat protein_co	2	97492663	97589965	-1	q11.2
ENSG00000280032	0.605	1.521	0.0016	0.0044	RP11-832A4.7	TEC	11	1.18E+08	1.18E+08	1	q23.3
ENSG00000003509	0.6049	1.5209	5.30E-06	2.03E-05	NDUFAF7	NADH dehydrogenase protein_co	2	37231631	37253403	1	p22.2
ENSG00000270804	0.6046	1.5205	0.0166	0.0374	CTD-2583A14.11	transcribed	19	57867885	57868834	1	q13.43
ENSG00000010030	0.6044	1.5204	0.0032	0.0083	ETV7	ets variant protein_co	6	36354642	36387800	-1	p21.31
ENSG00000013503	0.6039	1.5199	3.67E-07	1.59E-06	POLR3B	polymerase protein_co	12	1.06E+08	1.07E+08	1	q23.3
ENSG00000223865	0.6035	1.5194	0.0036	0.0092	HLA-DPB1	major histocompatibility protein_co	6	33075926	33087201	1	p21.32
ENSG00000050405	0.6034	1.5193	3.16E-07	1.38E-06	LIMA1	LIM domain protein_co	12	50175788	50283546	-1	q13.12
ENSG00000186666	0.603	1.5188	0.0013	0.0037	BCDIN3D	BCDIN3 domain protein_co	12	49836039	49843129	-1	q13.12
ENSG00000134255	0.602	1.5179	4.31E-07	1.86E-06	CEPT1	choline/ethanolamine protein_co	1	1.11E+08	1.11E+08	1	p13.3
ENSG00000145293	0.6017	1.5175	2.03E-10	1.18E-09	ENOPH1	enolase-phosphatase protein_co	4	82430562	82461091	1	q21.22
ENSG00000176046	0.6016	1.5174	0.0012	0.0033	NUPR1	nuclear pore protein_co	16	28532708	28539174	-1	p11.2
ENSG00000185787	0.6015	1.5173	1.27E-15	1.14E-14	MORF4L1	mortality factor protein_co	15	78810487	78898133	1	q25.1
ENSG00000233429	0.6013	1.5171	0.0042	0.0107	HOTAIRM1	HOXA transcribed antisense	7	27095647	27100265	1	p15.2
ENSG00000184564	0.6012	1.517	0.0023	0.006	SLITRK6	SLIT and NRP1 protein_co	13	85792790	85799488	-1	q31.1
ENSG00000119878	0.6011	1.5168	0.0003	0.0008	CRIPT	cysteine-rich protein_co	2	46616416	46625742	1	p21
ENSG00000110013	0.6004	1.5161	1.20E-07	5.47E-07	SIAE	sialic acid transporter protein_co	11	1.25E+08	1.25E+08	-1	q24.2
ENSG00000167766	0.6002	1.5159	2.88E-05	0.0001	ZNF83	zinc finger protein_co	19	52594060	52690581	-1	q13.41
ENSG00000184903	0.6001	1.5158	0.0011	0.0031	IMMP2L	IMP2 inner protein_co	7	1.11E+08	1.12E+08	-1	q31.1
ENSG00000069956	0.6	1.5157	4.26E-10	2.42E-09	MAPK6	mitogen-act protein_co	15	51952106	52067372	1	q21.2
ENSG00000164815	0.6	1.5157	3.21E-07	1.40E-06	ORC5	origin recognition protein_co	7	1.04E+08	1.04E+08	-1	q22.2
ENSG00000077348	0.5999	1.5156	0.0002	0.0005	EXOSC5	exosome core protein_co	19	41386374	41397479	-1	q13.2
ENSG00000139350	0.5997	1.5154	1.99E-08	9.73E-08	NEDD1	neural precursor protein_co	12	96907223	96953777	1	q23.1
ENSG00000144366	0.5996	1.5153	0.0002	0.0007	GULP1	GULP, engulfment protein_co	2	1.88E+08	1.89E+08	1	q32.1
ENSG00000132530	0.5992	1.5149	0.002	0.0054	XAF1	XIAP associated protein_co	17	6755447	6775647	1	p13.1
ENSG00000178988	0.5991	1.5148	1.95E-09	1.05E-08	MRFAP1L1	Morf4 family protein_co	4	6707701	6709880	-1	p16.1
ENSG00000151657	0.5987	1.5144	4.32E-07	1.86E-06	KIN	Kin17 DNA binding protein_co	10	7750962	7787981	-1	p14
ENSG00000259431	0.5987	1.5143	0.0015	0.0042	THTPA	thiamine transporter protein_co	14	23555988	23560271	1	q11.2
ENSG00000172315	0.5985	1.5141	5.52E-12	3.68E-11	TP53RK	TP53 regulator protein_co	20	46684365	46689779	-1	q13.12
ENSG00000139679	0.5984	1.514	0.0001	0.0004	LPAR6	lysophosphatidic acid protein_co	13	48389567	48444704	-1	q14.2
ENSG00000168237	0.5983	1.5139	0.0017	0.0046	GLYCTK	glycerate kinase protein_co	3	52287089	52293476	1	p21.2
ENSG00000177674	0.5981	1.5137	2.01E-06	8.07E-06	AGTRAP	angiotensin receptor protein_co	1	11736084	11754802	1	p36.22
ENSG00000144120	0.5978	1.5134	2.66E-06	1.06E-05	TMEM177	transmembrane protein_co	2	1.2E+08	1.2E+08	1	q14.2
ENSG00000121316	0.5975	1.5131	0.0016	0.0045	PLBD1	phospholipid binding protein_co	12	14503661	14568349	-1	p13.1
ENSG00000198001	0.5973	1.5129	4.72E-09	2.44E-08	IRAK4	interleukin-1 protein_co	12	43758944	43789543	1	q12
ENSG00000149923	0.5972	1.5128	2.82E-20	3.74E-19	PPP4C	protein phosphatase protein_co	16	30075978	30085377	1	p11.2

ENSG00000172123	0.5972	1.5127	0.0007	0.002	SLFN12	schlafen fai protein_co	17	35411060	35433283	-1	q12
ENSG00000101856	0.5965	1.512	5.28E-15	4.51E-14	PGRMC1	progesterone protein_co X		1.19E+08	1.19E+08	1	q24
ENSG00000093144	0.5965	1.512	2.03E-10	1.18E-09	ECHDC1	enoyl CoA l protein_co	6	1.27E+08	1.27E+08	-1	q22.33
ENSG00000101546	0.5964	1.5119	8.28E-05	0.0003	RBFA	ribosome b protein_co	18	80034358	80046397	1	q23
ENSG00000270170	0.5961	1.5116	2.01E-07	8.94E-07	NCBP2-AS2	NCBP2 anti lincRNA	3	1.97E+08	1.97E+08	1	q29
ENSG00000164615	0.5958	1.5113	3.03E-09	1.60E-08	CAMLG	calcium mc protein_co	5	1.35E+08	1.35E+08	1	q31.1
ENSG00000121858	0.5949	1.5103	4.69E-05	0.0002	TNFSF10	tumor necr protein_co	3	1.73E+08	1.73E+08	-1	q26.31
ENSG00000101166	0.5947	1.5102	5.05E-09	2.60E-08	SLMO2	slowmo ho protein_co	20	59033145	59042909	-1	q13.32
ENSG00000132313	0.5944	1.5098	4.76E-10	2.69E-09	MRPL35	mitochond protein_co	2	86199355	86213794	1	p11.2
ENSG00000100029	0.5943	1.5098	1.63E-08	7.99E-08	PES1	pescadillo r protein_co	22	30576625	30607083	-1	q12.2
ENSG00000083814	0.5943	1.5098	0.0001	0.0005	ZNF671	zinc finger   protein_co	19	57719751	57727624	-1	q13.43
ENSG00000118217	0.5934	1.5088	1.44E-15	1.28E-14	ATF6	activating t protein_co	1	1.62E+08	1.62E+08	1	q23.3
ENSG00000153714	0.5932	1.5086	0.0003	0.001	LURAP1L	leucine rich protein_co	9	12775021	12822131	1	p23
ENSG00000164253	0.5928	1.5082	8.38E-07	3.51E-06	WDR41	WD repeat protein_co	5	77425970	77620611	-1	q14.1
ENSG00000170089	0.5928	1.5082	8.98E-06	3.34E-05	RP11-423H2.1	transcribed	5	1.78E+08	1.78E+08	-1	q35.3
ENSG00000165195	0.5925	1.5079	8.32E-06	3.11E-05	PIGA	phosphatid protein_co X		15319451	15335554	-1	p22.2
ENSG00000139117	0.5923	1.5077	1.16E-06	4.80E-06	CPNE8	copine VIII protein_co	12	38646822	38907430	-1	q12
ENSG00000115317	0.5921	1.5074	4.03E-07	1.74E-06	HTRA2	HtrA serine protein_co	2	74529377	74533348	1	p13.1
ENSG00000110888	0.5915	1.5068	0.0118	0.0274	CAPRIN2	caprin fami protein_co	12	30709552	30754951	-1	p11.21
ENSG00000158717	0.5909	1.5062	4.21E-05	0.0001	RNF166	ring finger   protein_co	16	88696495	88706421	-1	q24.3
ENSG00000051128	0.5909	1.5062	0.0128	0.0296	HOMER3	homer hon protein_co	19	18929201	18941261	-1	p13.11
ENSG00000133103	0.5906	1.5059	2.27E-10	1.32E-09	COG6	component protein_co	13	39655627	39791665	1	q14.11
ENSG00000236699	0.5906	1.5059	0.002	0.0055	ARHGFB38	Rho guanin protein_co	4	1.06E+08	1.06E+08	1	q24
ENSG00000169193	0.5902	1.5054	0.0004	0.0013	CCDC126	coiled-coil ( protein_co	7	23597379	23644708	1	p15.3
ENSG00000014824	0.5898	1.5051	9.24E-10	5.09E-09	SLC30A9	solute carri protein_co	4	41990472	42090457	1	p13
ENSG00000145741	0.5887	1.5039	5.94E-08	2.79E-07	BTF3	basic trans protein_co	5	73498408	73505635	1	q13.2
ENSG00000196504	0.5886	1.5038	1.70E-12	1.18E-11	PRPF40A	PRP40 pre- protein_co	2	1.53E+08	1.53E+08	-1	q23.3
ENSG00000180776	0.5886	1.5037	2.64E-06	1.05E-05	ZDHC20	zinc finger, protein_co	13	21372573	21459370	-1	q12.11
ENSG00000187626	0.5885	1.5037	0.0001	0.0003	ZKSCAN4	zinc finger   protein_co	6	28244623	28252224	-1	p22.1
ENSG00000120616	0.588	1.5032	9.58E-09	4.81E-08	EPC1	enhancer o protein_co	10	32267751	32378798	-1	p11.22
ENSG00000111057	0.5879	1.503	2.54E-06	1.01E-05	KRT18	keratin 18   protein_co	12	52948871	52952901	1	q13.13
ENSG00000114098	0.5878	1.5029	1.19E-10	7.09E-10	ARMC8	armadillo r protein_co	3	1.38E+08	1.38E+08	1	q22.3
ENSG00000085415	0.5877	1.5029	3.07E-10	1.76E-09	SEH1L	SEH1-like ( protein_co	18	12947133	12987536	1	p11.21
ENSG00000177830	0.5877	1.5028	5.37E-12	3.59E-11	CHID1	chitinase di protein_co	11	867860	915058	-1	p15.5
ENSG00000119203	0.5875	1.5026	3.24E-09	1.70E-08	CPSF3	cleavage ar protein_co	2	9423568	9473101	1	p25.1
ENSG00000140905	0.5874	1.5025	4.44E-05	0.0002	GCSH	glycine clea protein_co	16	81081961	81096403	-1	q23.2
ENSG00000049541	0.5869	1.502	5.01E-05	0.0002	RFC2	replication protein_co	7	74231499	74254458	-1	q11.23
ENSG00000115524	0.5856	1.5006	4.75E-13	3.47E-12	SF3B1	splicing fac protein_co	2	1.97E+08	1.97E+08	-1	q33.1
ENSG00000185813	0.5852	1.5003	0.0017	0.0047	PCYT2	phosphate protein_co	17	81900965	81911464	-1	q25.3
ENSG00000135317	0.5845	1.4995	3.53E-08	1.69E-07	SNX14	sorting nex protein_co	6	85505496	85594156	-1	q14.3
ENSG00000187554	0.5836	1.4986	1.41E-05	5.13E-05	TLR5	toll-like rec protein_co	1	2.23E+08	2.23E+08	-1	q41



ENSG00000121390	0.5831	1.4981	2.03E-10	1.18E-09	PSPC1	paraspeckli protein_co	13	19674752	19783019	-1	q12.11
ENSG00000068079	0.5831	1.498	1.12E-05	4.14E-05	IFI35	interferon- protein_co	17	43006725	43014456	1	q21.31
ENSG00000197885	0.5821	1.497	0.0008	0.0023	NKIRAS1	NFKB inhib protein_co	3	23891660	23946591	-1	p24.2
ENSG00000272888	0.5815	1.4964	1.08E-07	4.94E-07	AC013394.2	processed_	15	92882707	92899701	1	q26.1
ENSG00000154153	0.5809	1.4958	0.0028	0.0074	FAM134B	family with protein_co	5	16473038	16617058	-1	p15.1
ENSG00000196449	0.5808	1.4957	3.54E-05	0.0001	YRDC	yrDC N(6)-t protein_co	1	37802944	37808185	-1	p34.3
ENSG00000186184	0.5806	1.4955	6.46E-13	4.67E-12	POLR1D	polymerase protein_co	13	27620743	27667422	1	q12.2
ENSG00000185386	0.5804	1.4952	0.0017	0.0047	MAPK11	mitogen-ac protein_co	22	50263713	50270767	-1	q13.33
ENSG00000100612	0.5801	1.495	3.05E-06	1.20E-05	DHRS7	dehydrogei protein_co	14	60144120	60169856	-1	q23.1
ENSG00000204520	0.5802	1.495	0.0116	0.027	MICA	MHC class I protein_co	6	31399784	31415315	1	p21.33
ENSG00000105875	0.5801	1.4949	0.0004	0.0013	WDR91	WD repeat protein_co	7	1.35E+08	1.35E+08	-1	q33
ENSG00000256235	0.5799	1.4948	0.0004	0.0011	SMIM3	small integ protein_co	5	1.51E+08	1.51E+08	1	q33.1
ENSG00000157778	0.5795	1.4943	1.76E-06	7.14E-06	PSMG3	proteasom protein_co	7	1567330	1571005	-1	p22.3
ENSG00000180425	0.5792	1.4941	0.0088	0.021	C11orf71	chromoson protein_co	11	1.14E+08	1.14E+08	-1	q23.2
ENSG00000196387	0.5789	1.4937	4.22E-09	2.19E-08	ZNF140	zinc finger   protein_co	12	1.33E+08	1.33E+08	1	q24.33
ENSG00000059769	0.5788	1.4936	0.0001	0.0004	DNAJC25	DnaJ (Hsp4 protein_co	9	1.12E+08	1.12E+08	1	q31.3
ENSG00000151883	0.5785	1.4933	3.53E-17	3.61E-16	PARP8	poly (ADP-r protein_co	5	50665899	50846522	1	q11.1
ENSG00000143545	0.5784	1.4932	4.91E-09	2.53E-08	RAB13	RAB13, me protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000233493	0.5784	1.4932	0.0177	0.0396	TMEM238	transmemt protein_co	19	55379245	55384598	-1	q13.42
ENSG00000230409	0.5781	1.4928	0.0152	0.0345	TCEA1P2	transcripti processed_	3	37275693	37276598	1	p22.2
ENSG00000066697	0.5775	1.4923	0.0015	0.0042	MSANTD3	Myb/SANT- protein_co	9	1E+08	1E+08	1	q31.1
ENSG00000140297	0.5774	1.4922	0.0003	0.0009	GCNT3	glucosamin protein_co	15	59594875	59640239	1	q22.2
ENSG00000160050	0.5774	1.4922	0.0158	0.0357	CCDC28B	coiled-coil   protein_co	1	32200386	32205387	1	p35.2
ENSG00000185651	0.5773	1.4921	2.28E-21	3.35E-20	UBE2L3	ubiquitin-c  protein_co	22	21549447	21624034	1	q11.21
ENSG00000178537	0.5772	1.492	3.07E-09	1.62E-08	SLC25A20	solute carri protein_co	3	48856931	48898993	-1	p21.31
ENSG00000165732	0.577	1.4918	1.30E-09	7.09E-09	DDX21	DEAD (Asp- protein_co	10	68956128	68985073	1	q22.1
ENSG00000172336	0.5769	1.4917	7.60E-06	2.85E-05	POP7	processing protein_co	7	1.01E+08	1.01E+08	1	q22.1
ENSG00000196950	0.5765	1.4912	0.0144	0.0329	SLC39A10	solute carri protein_co	2	1.96E+08	1.96E+08	1	q32.3
ENSG00000100650	0.5761	1.4908	7.98E-09	4.03E-08	SRSF5	serine/argii protein_co	14	69726900	69772005	1	q24.1
ENSG00000112210	0.5761	1.4908	2.16E-06	8.64E-06	RAB23	RAB23, me protein_co	6	57186992	57222314	-1	p11.2
ENSG00000033867	0.5761	1.4908	0.0049	0.0123	SLC4A7	solute carri protein_co	3	27372721	27484420	-1	p24.1
ENSG00000001497	0.5759	1.4907	7.26E-09	3.69E-08	LAS1L	LAS1-like (S protein_co X		65512582	65534775	-1	q12
ENSG00000083937	0.576	1.4907	1.14E-08	5.70E-08	CHMP2B	charged mi protein_co	3	87227271	87255548	1	p11.2
ENSG00000168040	0.5757	1.4904	8.74E-06	3.26E-05	FADD	Fas (TNFRS protein_co	11	70203163	70207390	1	q13.3
ENSG00000123444	0.5756	1.4903	0.0063	0.0154	KBTBD4	kelch repee protein_co	11	47572197	47579015	-1	p11.2
ENSG00000197258	0.5753	1.49	0.0206	0.0453	EIF4BP6	eukaryotic processed_	7	1.05E+08	1.05E+08	1	q22.2
ENSG00000139974	0.575	1.4897	0.0103	0.0242	SLC38A6	solute carri protein_co	14	60981114	61083733	1	q23.1
ENSG00000113240	0.575	1.4897	0.0193	0.0428	CLK4	CDC-like kir protein_co	5	1.79E+08	1.79E+08	-1	q35.3
ENSG00000124762	0.5749	1.4896	0.001	0.003	CDKN1A	cyclin-depe protein_co	6	36676460	36687339	1	p21.2
ENSG00000170946	0.5748	1.4895	0.0014	0.0038	DNAJC24	DnaJ (Hsp4 protein_co	11	31369840	31432832	1	p13
ENSG00000265666	0.5748	1.4895	0.0064	0.0158	RARA-AS1	RARA antis antisense	17	40340867	40343136	-1	q21.2



ENSG00000173436	0.5745	1.4892	1.70E-09	9.16E-09	MINOS1	mitochondi protein_co	1	19596977	19629821	1	p36.13
ENSG00000204592	0.574	1.4886	3.42E-15	2.95E-14	HLA-E	major histo protein_co	6	30489406	30494205	1	p22.1
ENSG00000163754	0.574	1.4886	5.74E-12	3.82E-11	GYG1	glycogenin protein_co	3	1.49E+08	1.49E+08	1	q24
ENSG00000137364	0.5738	1.4884	8.92E-08	4.10E-07	TPMT	thiopurine protein_co	6	18128311	18155074	-1	p22.3
ENSG00000197632	0.5736	1.4882	0.0059	0.0145	SERPINB2	serpin pept protein_co	18	63871692	63903890	1	q21.33
ENSG00000117395	0.5735	1.4881	3.63E-05	0.0001	EBNA1BP2	EBNA1 bin protein_co	1	43164175	43270936	-1	p34.2
ENSG00000250786	0.5732	1.4878	6.23E-06	2.37E-05	SNHG18	small nucle lincRNA	5	9546200	9550609	1	p15.31
ENSG00000114126	0.5716	1.4862	0.0009	0.0026	TFDP2	transcriptic protein_co	3	1.42E+08	1.42E+08	-1	q23
ENSG00000186166	0.5717	1.4862	0.0053	0.0133	CCDC84	coiled-coil protein_co	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000135486	0.5714	1.486	3.83E-05	0.0001	HNRNPA1	heterogene protein_co	12	54280193	54287088	1	q13.13
ENSG00000170540	0.5714	1.4859	1.31E-09	7.14E-09	ARL6IP1	ADP-ribosy protein_co	16	18791667	18801678	-1	p12.3
ENSG00000091140	0.5712	1.4858	9.76E-11	5.86E-10	DLD	dihydrolipc protein_co	7	1.08E+08	1.08E+08	1	q31.1
ENSG00000138639	0.571	1.4855	3.43E-05	0.0001	ARHGAP24	Rho GTPas protein_co	4	85475114	86002670	1	q21.23
ENSG00000117226	0.5708	1.4854	7.92E-08	3.66E-07	GBP3	guanylate t protein_co	1	89006666	89022894	-1	p22.2
ENSG00000204228	0.5706	1.4851	0.0077	0.0186	HSD17B8	hydroxyste protein_co	6	33204642	33206831	1	p21.32
ENSG00000167799	0.5699	1.4844	0.0024	0.0065	NUDT8	nudix (nucl protein_co	11	67627938	67629930	-1	q13.2
ENSG00000170412	0.5698	1.4843	3.33E-07	1.45E-06	GPRC5C	G protei-c protein_co	17	74424851	74451653	1	q25.1
ENSG00000170584	0.5692	1.4837	1.77E-05	6.38E-05	NUDCD2	NudC dom protein_co	5	1.63E+08	1.63E+08	-1	q34
ENSG00000089050	0.5687	1.4832	9.46E-05	0.0003	RBBP9	retinoblast protein_co	20	18486540	18497243	-1	p11.23
ENSG00000179632	0.5685	1.483	2.83E-11	1.78E-10	MAF1	MAF1 hom protein_co	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000079462	0.5681	1.4826	3.51E-06	1.37E-05	PAFAH1B3	platelet-act protein_co	19	42297033	42303546	-1	q13.2
ENSG00000157593	0.568	1.4825	8.81E-08	4.06E-07	SLC35B2	solute carri protein_co	6	44254096	44257890	-1	p21.1
ENSG00000165832	0.568	1.4825	1.72E-06	6.96E-06	TRUB1	TruB pseud protein_co	10	1.15E+08	1.15E+08	1	q25.3
ENSG00000244045	0.5678	1.4823	1.82E-08	8.91E-08	TMEM199	transmemt protein_co	17	28357581	28363683	1	q11.2
ENSG00000172115	0.5678	1.4823	8.02E-08	3.71E-07	CYCS	cytochrom protein_co	7	25120091	25125361	-1	p15.3
ENSG00000168818	0.5677	1.4822	0.0008	0.0022	STX18	syntaxin 18 protein_co	4	4415742	4542346	-1	p16.2
ENSG00000039123	0.5673	1.4818	2.73E-10	1.57E-09	SKIV2L2	superkiller protein_co	5	55307760	55425581	1	q11.2
ENSG00000203952	0.5673	1.4817	0.0117	0.0272	CCDC160	coiled-coil protein_co X		1.34E+08	1.34E+08	1	q26.2
ENSG00000100478	0.5669	1.4814	0.0006	0.0017	AP4S1	adaptor-rel protein_co	14	31025106	31096450	1	q12
ENSG00000107872	0.5665	1.4809	2.08E-06	8.36E-06	FBXL15	F-box and l protein_co	10	1.02E+08	1.02E+08	1	q24.32
ENSG00000168958	0.5662	1.4806	2.83E-16	2.70E-15	MFF	mitochondi protein_co	2	2.27E+08	2.27E+08	1	q36.3
ENSG00000112031	0.5656	1.48	6.01E-09	3.07E-08	MTRF1L	mitochondi protein_co	6	1.53E+08	1.53E+08	-1	q25.2
ENSG00000152464	0.5653	1.4797	0.005	0.0126	RPP38	ribonuclea protein_co	10	15097180	15139818	1	p13
ENSG00000149231	0.5651	1.4795	2.30E-05	8.18E-05	CCDC82	coiled-coil protein_co	11	96352769	96389923	-1	q21
ENSG00000075292	0.5642	1.4786	4.28E-10	2.43E-09	ZNF638	zinc finger protein_co	2	71276561	71435069	1	p13.3
ENSG00000187024	0.5641	1.4784	0.0007	0.0021	PTRH1	peptidyl-tR protein_co	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000083099	0.5639	1.4783	1.27E-08	6.28E-08	LYRM2	LYR motif c protein_co	6	89568144	89638753	-1	q15
ENSG00000167700	0.5639	1.4782	0.0003	0.0009	MFSD3	major facili protein_co	8	1.45E+08	1.45E+08	1	q24.3
ENSG00000153310	0.5637	1.4781	7.54E-05	0.0003	FAM49B	family with protein_co	8	1.3E+08	1.3E+08	-1	q24.21
ENSG00000116691	0.5636	1.478	0.0001	0.0004	MIIP	migration a protein_co	1	12019466	12032045	1	p36.22
ENSG00000163660	0.5636	1.478	0.004	0.0101	CCNL1	cyclin L1 [S protein_co	3	1.57E+08	1.57E+08	-1	q25.31

ENSG00000273045	0.5633	1.4777	0.0104	0.0245 C2orf15	chromoson protein_co	2	99141485	99151487	1	q11.2
ENSG00000177854	0.563	1.4774	0.0002	0.0006 TMEM187	transmemt protein_co X		1.54E+08	1.54E+08	1	q28
ENSG00000112130	0.5627	1.477	6.28E-07	2.66E-06 RNF8	ring finger   protein_co	6	37353972	37394738	1	p21.2
ENSG00000089063	0.5625	1.4769	1.70E-09	9.15E-09 TMEM230	transmemt protein_co	20	5068232	5113103	-1	p12.3
ENSG00000115685	0.5623	1.4766	0.0044	0.0112 PPP1R7	protein phc protein_co	2	2.41E+08	2.41E+08	1	q37.3
ENSG00000150776	0.5621	1.4764	2.66E-06	1.05E-05 C11orf57	chromoson protein_co	11	1.12E+08	1.12E+08	1	q23.1
ENSG00000265808	0.5619	1.4762	1.11E-06	4.59E-06 SEC22B	SEC22 vesic protein_co	1	1.2E+08	1.2E+08	-1	p12
ENSG00000127249	0.5618	1.4762	0.0016	0.0044 ATP13A4	ATPase typ protein_co	3	1.93E+08	1.94E+08	-1	q29
ENSG00000267102	0.5611	1.4754	0.0061	0.015 RP11-686D22.7	transcribed	17	35409602	35410228	-1	q12
ENSG00000136243	0.5608	1.4751	7.36E-09	3.73E-08 NUPL2	nucleoporin protein_co	7	23181827	23201011	1	p15.3
ENSG00000082146	0.5603	1.4746	1.60E-05	5.79E-05 STRADB	STE20-relat protein_co	2	2.01E+08	2.01E+08	1	q33.1
ENSG00000145979	0.5602	1.4745	5.62E-05	0.0002 TBC1D7	TBC1 doma protein_co	6	13266542	13328583	-1	p24.1
ENSG00000146707	0.56	1.4743	0.0168	0.0377 POMZP3	POM121 ar protein_co	7	76609986	76627261	-1	q11.23
ENSG00000229043	0.5599	1.4742	0.0134	0.0307 AC091729.9	antisense	7	1160374	1165267	1	p22.3
ENSG00000165169	0.5597	1.474	0.0009	0.0027 DYNLT3	dynein, light protein_co X		37836757	37847637	-1	p11.4
ENSG00000104886	0.5596	1.4738	1.15E-05	4.23E-05 PLEKHJ1	pleckstrin   protein_co	19	2230084	2237704	-1	p13.3
ENSG00000160813	0.5594	1.4737	2.77E-05	9.74E-05 PPP1R35	protein phc protein_co	7	1E+08	1E+08	-1	q22.1
ENSG00000197713	0.5592	1.4734	4.09E-07	1.76E-06 RPE	ribulose-5-  protein_co	2	2.1E+08	2.1E+08	1	q34
ENSG00000102871	0.559	1.4732	1.00E-06	4.17E-06 TRADD	TNFRSF1A- protein_co	16	67154180	67160298	-1	q22.1
ENSG00000126261	0.5589	1.4731	1.94E-16	1.88E-15 UBA2	ubiquitin-lil protein_co	19	34428352	34471251	1	q13.11
ENSG00000134602	0.5587	1.473	2.61E-05	9.20E-05 STK26	serine/thre protein_co X		1.32E+08	1.32E+08	1	q26.2
ENSG00000164169	0.5587	1.4729	5.45E-05	0.0002 PRMT9	protein arg protein_co	4	1.48E+08	1.48E+08	-1	q31.23
ENSG00000130826	0.5585	1.4727	4.77E-06	1.84E-05 DKC1	dyskeratosi protein_co X		1.55E+08	1.55E+08	1	q28
ENSG00000162585	0.5584	1.4726	1.93E-06	7.78E-06 C1orf86	chromoson protein_co	1	2184461	2212720	-1	p36.33
ENSG00000167543	0.5584	1.4726	1.48E-05	5.39E-05 TP53I13	tumor prot protein_co	17	29566052	29573157	1	q11.2
ENSG00000146409	0.5582	1.4724	4.43E-06	1.71E-05 SLC18B1	solute carri protein_co	6	1.33E+08	1.33E+08	-1	q23.2
ENSG00000134285	0.5582	1.4724	0.0207	0.0457 FKBP11	FK506 bind protein_co	12	48921518	48926474	-1	q13.12
ENSG00000117054	0.5579	1.4721	1.51E-05	5.49E-05 ACADM	acyl-CoA de protein_co	1	75724347	75787575	1	p31.1
ENSG00000151881	0.5578	1.4721	0.0003	0.0008 C5orf28	chromoson protein_co	5	43444252	43483893	-1	p12
ENSG00000161203	0.5575	1.4717	4.69E-14	3.71E-13 AP2M1	adaptor-rel protein_co	3	1.84E+08	1.84E+08	1	q27.1
ENSG00000175906	0.5575	1.4717	0.0044	0.0112 ARL4D	ADP-ribosy protein_co	17	43398959	43401137	1	q21.31
ENSG00000182141	0.556	1.4702	0.0008	0.0023 ZNF708	zinc finger   protein_co	19	21221500	21329425	-1	p12
ENSG00000159596	0.5556	1.4698	6.56E-09	3.35E-08 TMEM69	transmemt protein_co	1	45687214	45694443	1	p34.1
ENSG00000153006	0.5556	1.4697	4.13E-06	1.60E-05 SREK1IP1	SREK1-intei protein_co	5	64718144	64768685	-1	q12.3
ENSG00000204498	0.5555	1.4697	1.71E-05	6.18E-05 NFKBIL1	nuclear fac protein_co	6	31546870	31558829	1	p21.33
ENSG00000189046	0.5556	1.4697	0.0022	0.0059 ALKBH2	alkB, alkyla protein_co	12	1.09E+08	1.09E+08	-1	q24.11
ENSG00000175606	0.5553	1.4695	9.05E-05	0.0003 TMEM70	transmemt protein_co	8	73972437	73982783	1	q21.11
ENSG00000155876	0.5551	1.4693	1.05E-09	5.77E-09 RRAGA	Ras-related protein_co	9	19049395	19050983	1	p22.1
ENSG00000006625	0.5549	1.4691	3.80E-07	1.64E-06 GGCT	gamma-glu protein_co	7	30496621	30551479	-1	p14.3
ENSG00000117151	0.5544	1.4686	4.53E-07	1.95E-06 CTBS	chitobiase, protein_co	1	84549606	84574480	-1	p22.3
ENSG00000176623	0.5544	1.4685	1.05E-09	5.77E-09 RMDN1	regulator o protein_co	8	86468257	86514357	-1	q21.3

ENSG00000130545	0.5542	1.4683	5.93E-05	0.0002	CRB3	crumbs fan protein_co	19	6463777	6467221	1	p13.3
ENSG00000063241	0.554	1.4682	1.60E-08	7.85E-08	ISOC2	isochorism:protein_co	19	55452985	55462343	-1	q13.42
ENSG00000139644	0.5537	1.4678	6.90E-09	3.51E-08	TMBIM6	transmemt protein_co	12	49707725	49764934	1	q13.12
ENSG00000206337	0.5537	1.4678	2.97E-05	0.0001	HCP5	HLA compl:sense_over	6	31400702	31477506	1	p21.33
ENSG00000276291	0.5535	1.4677	0.0021	0.0055	RP11-87H9.2	transcribed	9	40992249	41217197	1	p11.2
ENSG00000197619	0.5535	1.4676	0.0002	0.0007	ZNF615	zinc finger  protein_co	19	51991332	52008230	-1	q13.41
ENSG00000100890	0.5525	1.4666	0.0037	0.0094	KIAA0391	KIAA0391 [ protein_co	14	35121846	35277614	1	q13.2
ENSG00000178974	0.5524	1.4665	0.0001	0.0005	FBXO34	F-box prote protein_co	14	55271303	55361918	1	q22.3
ENSG00000168228	0.5523	1.4664	0.0002	0.0006	ZCCHC4	zinc finger, protein_co	4	25312785	25370383	1	p15.2
ENSG00000147872	0.5523	1.4664	0.0013	0.0036	PLIN2	perilipin 2  protein_co	9	19108375	19149290	-1	p22.1
ENSG00000115866	0.5515	1.4656	3.67E-11	2.28E-10	DARS	aspartyl-tR protein_co	2	1.36E+08	1.36E+08	-1	q21.3
ENSG00000171055	0.5514	1.4655	0.0003	0.0008	FEZ2	fasciculatio protein_co	2	36531805	36646087	-1	p22.2
ENSG00000166033	0.5514	1.4655	0.0005	0.0014	HTRA1	HtrA serine protein_co	10	1.22E+08	1.23E+08	1	q26.13
ENSG00000085491	0.5511	1.4652	2.36E-07	1.04E-06	SLC25A24	solute carri protein_co	1	1.08E+08	1.08E+08	-1	p13.3
ENSG00000166896	0.55	1.4641	0.0193	0.0428	XRCC6BP1	XRCC6 binc protein_co	12	57941541	57957269	1	q14.1
ENSG00000053770	0.5496	1.4637	6.79E-09	3.46E-08	AP5M1	adaptor-rel protein_co	14	57268909	57298742	1	q22.3
ENSG00000124357	0.5496	1.4637	1.21E-06	4.99E-06	NAGK	N-acetylglu protein_co	2	71064344	71079805	1	p13.3
ENSG00000015153	0.5496	1.4637	0.0006	0.0017	YAF2	YY1 associa protein_co	12	42157104	42238349	-1	q12
ENSG00000124508	0.5493	1.4634	0.0042	0.0107	BTN2A2	butyrophili protein_co	6	26383096	26394874	1	p22.2
ENSG00000171729	0.5494	1.4634	0.0159	0.036	TMEM51	transmemt protein_co	1	15152532	15220480	1	p36.21
ENSG00000107984	0.5491	1.4632	0.0016	0.0043	DKK1	dickkopf W protein_co	10	52314296	52318042	1	q21.1
ENSG00000004700	0.5491	1.4631	0.0001	0.0004	RECQL	RecQ helica protein_co	12	21468911	21501669	-1	p12.1
ENSG00000132300	0.548	1.4621	7.45E-13	5.35E-12	PTCD3	pentatricop protein_co	2	86106182	86142157	1	p11.2
ENSG00000256043	0.5478	1.4619	1.69E-09	9.10E-09	CTSO	cathepsin C protein_co	4	1.56E+08	1.56E+08	-1	q32.1
ENSG00000247627	0.5477	1.4618	0.0215	0.0471	MTND4P12	MT-ND4 ps processed_	5	1.35E+08	1.35E+08	-1	q31.1
ENSG00000073803	0.5476	1.4616	4.29E-06	1.66E-05	MAP3K13	mitogen-ac protein_co	3	1.85E+08	1.85E+08	1	q27.2
ENSG00000118242	0.5467	1.4607	0.0003	0.001	MREG	melanoregi protein_co	2	2.16E+08	2.16E+08	-1	q35
ENSG00000119383	0.5466	1.4606	4.62E-21	6.55E-20	PPP2R4	protein phc protein_co	9	1.29E+08	1.29E+08	1	q34.11
ENSG00000064313	0.5462	1.4603	1.15E-09	6.30E-09	TAF2	TAF2 RNA f protein_co	8	1.2E+08	1.2E+08	-1	q24.12
ENSG00000149489	0.5456	1.4596	0.0115	0.0268	ROM1	retinal oute protein_co	11	62611722	62615120	1	q12.3
ENSG00000136867	0.5452	1.4592	0.0126	0.029	SLC31A2	solute carri protein_co	9	1.13E+08	1.13E+08	1	q32
ENSG00000074219	0.5448	1.4589	0.0147	0.0335	TEAD2	TEA domai protein_co	19	49340595	49362457	-1	q13.33
ENSG00000241058	0.5444	1.4584	0.0002	0.0007	NSUN6	NOP2/Sun protein_co	10	18545561	18651622	-1	p12.31
ENSG00000040341	0.5441	1.4581	1.71E-07	7.68E-07	STAU2	staufen doi protein_co	8	73420369	73747708	-1	q21.11
ENSG00000126775	0.5441	1.4581	2.37E-05	8.41E-05	ATG14	autophagy protein_co	14	55366392	55411858	-1	q22.3
ENSG00000013275	0.5431	1.4571	6.78E-11	4.13E-10	PSMC4	proteasom protein_co	19	39971005	39981441	1	q13.2
ENSG00000248049	0.543	1.4569	6.16E-07	2.62E-06	UBA6-AS1	UBA6 antis antisense	4	67701280	68080952	1	q13.2
ENSG00000055950	0.5428	1.4568	4.32E-06	1.67E-05	MRPL43	mitochondi protein_co	10	1.01E+08	1.01E+08	-1	q24.31
ENSG00000131408	0.5427	1.4567	4.13E-16	3.88E-15	NR1H2	nuclear rec protein_co	19	50329653	50382982	1	q13.33
ENSG00000143013	0.5415	1.4555	0.0004	0.0013	LMO4	LIM domai protein_co	1	87328468	87348923	1	p22.3
ENSG00000254285	0.5413	1.4553	0.0001	0.0004	KRT8P3	keratin 8 p: processed_	8	61578220	61579668	1	q12.3

ENSG00000189221	0.5407	1.4546	0.0013	0.0035	MAOA	monoamin protein_co X	43654907	43746824	1	p11.3	
ENSG00000035928	0.539	1.4529	2.45E-07	1.08E-06	RFC1	replication protein_co	4	39287456	39366375	-1	p14
ENSG00000064490	0.5388	1.4528	4.42E-07	1.90E-06	RFXANK	regulatory protein_co	19	19192229	19201869	1	p13.11
ENSG00000115840	0.5384	1.4523	1.69E-05	6.10E-05	SLC25A12	solute carri protein_co	2	1.72E+08	1.72E+08	-1	q31.1
ENSG00000164180	0.5381	1.4521	0.0005	0.0015	TMEM161B	transmemt protein_co	5	88189633	88269476	-1	q14.3
ENSG00000122378	0.5378	1.4518	0.0026	0.0069	FAM213A	family with protein_co	10	80407829	80437115	1	q23.1
ENSG00000146085	0.5373	1.4513	2.40E-07	1.06E-06	MUT	methylmal protein_co	6	49430360	49463191	-1	p12.3
ENSG00000211455	0.5372	1.4512	0.0007	0.0021	STK38L	serine/thre protein_co	12	27243968	27325959	1	p11.23
ENSG00000166192	0.537	1.4509	0.0001	0.0003	SENP8	SUMO/sen protein_co	15	72114258	72143688	1	q23
ENSG00000127870	0.5368	1.4507	3.29E-06	1.29E-05	RNF6	ring finger protein_co	13	26132115	26222493	-1	q12.13
ENSG00000214013	0.5367	1.4506	1.08E-08	5.39E-08	GANC	glucosidase protein_co	15	42273233	42356935	1	q15.1
ENSG00000106636	0.5363	1.4503	1.54E-06	6.28E-06	YKT6	YKT6 v-SNA protein_co	7	44200968	44214294	1	p13
ENSG00000105700	0.536	1.4499	1.40E-12	9.85E-12	KXD1	KxDL motif protein_co	19	18557762	18569387	1	p13.11
ENSG00000155906	0.536	1.4499	5.95E-06	2.26E-05	RMND1	required fo protein_co	6	1.51E+08	1.51E+08	-1	q25.1
ENSG00000167685	0.5359	1.4499	8.04E-05	0.0003	ZNF444	zinc finger protein_co	19	56132599	56160893	1	q13.43
ENSG00000188321	0.5357	1.4497	0.0004	0.0011	ZNF559	zinc finger protein_co	19	9323772	9351162	1	p13.2
ENSG00000119812	0.5356	1.4496	1.84E-07	8.21E-07	FAM98A	family with protein_co	2	33583658	33599382	-1	p22.3
ENSG00000065183	0.5355	1.4494	5.45E-09	2.80E-08	WDR3	WD repeat protein_co	1	1.18E+08	1.18E+08	1	p12
ENSG00000166997	0.5355	1.4494	0.0036	0.0092	CNPY4	canopy FGF protein_co	7	1E+08	1E+08	1	q22.1
ENSG00000092330	0.5352	1.4491	1.61E-12	1.12E-11	TINF2	TERF1 (TRF protein_co	14	24239643	24242674	-1	q12
ENSG00000163866	0.5351	1.449	3.21E-09	1.69E-08	SMIM12	small integri protein_co	1	34712737	34859816	-1	p34.3
ENSG00000124532	0.5349	1.4488	1.37E-13	1.05E-12	MRS2	MRS2 magi protein_co	6	24402908	24426194	1	p22.3
ENSG00000103024	0.5348	1.4487	9.61E-06	3.57E-05	NME3	NME/NM2 protein_co	16	1770286	1771730	-1	p13.3
ENSG00000158882	0.5345	1.4485	4.64E-07	1.99E-06	TOMM40L	translocase protein_co	1	1.61E+08	1.61E+08	1	q23.3
ENSG00000099377	0.5345	1.4485	0.0027	0.007	HSD3B7	hydroxy-de protein_co	16	30985207	30989152	1	p11.2
ENSG00000136856	0.5341	1.448	0.0002	0.0007	SLC2A8	solute carri protein_co	9	1.27E+08	1.27E+08	1	q33.3
ENSG00000108654	0.534	1.4479	2.41E-05	8.54E-05	DDX5	DEAD (Asp- protein_co	17	64499616	64508199	-1	q23.3
ENSG00000165475	0.5339	1.4478	0.0007	0.0021	CRYL1	crystallin, l; protein_co	13	20403667	20525857	-1	q12.11
ENSG00000055130	0.5326	1.4465	1.47E-09	7.93E-09	CUL1	cullin 1 [So; protein_co	7	1.49E+08	1.49E+08	1	q36.1
ENSG00000135338	0.5323	1.4462	0.0229	0.0499	LCA5	Leber cong protein_co	6	79484991	79537458	-1	q14.1
ENSG00000084092	0.5316	1.4455	0.0058	0.0143	NOA1	nitric oxide protein_co	4	56963370	56978823	-1	q12
ENSG00000142528	0.5311	1.445	0.001	0.0028	ZNF473	zinc finger protein_co	19	50025714	50053414	1	q13.33
ENSG00000140995	0.5307	1.4446	6.62E-08	3.09E-07	DEF8	differential protein_co	16	89947925	89968060	1	q24.3
ENSG00000129465	0.5307	1.4446	1.27E-05	4.66E-05	RIPK3	receptor-in protein_co	14	24336021	24340045	-1	q12
ENSG00000063854	0.5304	1.4444	8.69E-05	0.0003	HAGH	hydroxyacy protein_co	16	1795620	1827194	-1	p13.3
ENSG00000174842	0.5298	1.4438	0.0002	0.0008	GLMN	glomulin, F protein_co	1	92246402	92298987	-1	p22.1
ENSG00000084733	0.5296	1.4435	1.04E-15	9.38E-15	RAB10	RAB10, me protein_co	2	26034107	26137454	1	p23.3
ENSG00000162639	0.5294	1.4433	0.0122	0.0284	HENMT1	HEN1 meth protein_co	1	1.09E+08	1.09E+08	-1	p13.3
ENSG00000036054	0.5293	1.4432	4.54E-05	0.0002	TBC1D23	TBC1 doma protein_co	3	1E+08	1E+08	1	q12.1
ENSG00000106105	0.529	1.4429	1.26E-05	4.62E-05	GARS	glycyl-tRNA protein_co	7	30594681	30634033	1	p14.3
ENSG00000091732	0.5288	1.4428	8.78E-06	3.27E-05	ZC3HC1	zinc finger, protein_co	7	1.3E+08	1.3E+08	-1	q32.2

ENSG00000180329	0.5285	1.4425	2.83E-11	1.77E-10	CCDC43	coiled-coil (protein_co	17	44673069	44689779	-1	q21.31
ENSG00000106554	0.5285	1.4424	6.28E-09	3.21E-08	CHCHD3	coiled-coil- protein_co	7	1.33E+08	1.33E+08	-1	q33
ENSG00000090581	0.5285	1.4424	4.14E-05	0.0001	GNPTG	N-acetylglu protein_co	16	1351923	1364113	1	p13.3
ENSG00000140598	0.5281	1.4421	2.96E-11	1.86E-10	EFTUD1	elongation protein_co	15	82130230	82262763	-1	q25.2
ENSG00000064726	0.5282	1.4421	1.77E-10	1.03E-09	BTBD1	BTB (POZ) (protein_co	15	83016422	83067354	-1	q25.2
ENSG00000109606	0.528	1.442	1.31E-13	1.00E-12	DHX15	DEAH (Asp- protein_co	4	24517441	24584550	-1	p15.2
ENSG00000133731	0.5281	1.442	1.18E-05	4.35E-05	IMPA1	inositol(my protein_co	8	81657961	81686693	-1	q21.13
ENSG00000127989	0.528	1.442	4.76E-05	0.0002	MTERF1	mitochond protein_co	7	91692008	91880720	-1	q21.2
ENSG00000137509	0.5271	1.441	2.05E-10	1.19E-09	PRCP	prolylcarbo protein_co	11	82823502	82970584	-1	q14.1
ENSG00000187815	0.5269	1.4408	0.0207	0.0456	ZFP69	ZFP69 zinc protein_co	1	40477215	40496343	1	p34.2
ENSG00000175634	0.5268	1.4407	8.07E-08	3.73E-07	RPS6KB2	ribosomal ( protein_co	11	67428460	67435408	1	q13.2
ENSG00000173914	0.5265	1.4405	1.31E-07	5.93E-07	RBM4B	RNA bindin protein_co	11	66664998	66677921	-1	q13.2
ENSG00000137040	0.5266	1.4405	4.44E-05	0.0002	RANBP6	RAN bindin protein_co	9	6011043	6015625	-1	p24.1
ENSG00000137575	0.5264	1.4404	2.52E-06	1.00E-05	SDCBP	syndecan b protein_co	8	58552924	58582860	1	q12.1
ENSG00000125970	0.5259	1.4398	9.01E-16	8.17E-15	RALY	RALY heter protein_co	20	33993646	34108308	1	q11.22
ENSG00000197563	0.5259	1.4398	7.25E-05	0.0002	PIGN	phosphatid protein_co	18	62043567	62187118	-1	q21.33
ENSG00000175198	0.5254	1.4394	0.0005	0.0013	PCCA	propionyl C protein_co	13	1E+08	1.01E+08	1	q32.3
ENSG00000138744	0.5255	1.4394	0.0009	0.0024	NAAA	N-acylethai protein_co	4	75913657	75941051	-1	q21.1
ENSG00000101294	0.5252	1.4392	5.35E-05	0.0002	HM13	histocomp; protein_co	20	31514428	31577923	1	q11.21
ENSG00000122783	0.5252	1.4391	2.79E-07	1.22E-06	C7orf49	chromoson protein_co	7	1.35E+08	1.35E+08	-1	q33
ENSG00000163281	0.5252	1.4391	0.0023	0.0061	GNPDA2	glucosamin protein_co	4	44682200	44726595	-1	p12
ENSG00000099282	0.525	1.4389	0.0005	0.0015	TSPAN15	tetraspanir protein_co	10	69451473	69507669	1	q22.1
ENSG00000155545	0.5248	1.4388	3.59E-05	0.0001	MIER3	mesoderm protein_co	5	56919602	56971675	-1	q11.2
ENSG00000130348	0.5244	1.4383	4.00E-06	1.55E-05	QRSL1	glutaminy- protein_co	6	1.07E+08	1.07E+08	1	q21
ENSG00000186377	0.5241	1.438	0.004	0.0101	CYP4X1	cytochrom; protein_co	1	47023568	47050751	1	p33
ENSG00000144591	0.5238	1.4377	9.75E-07	4.06E-06	GMPPA	GDP-mann; protein_co	2	2.19E+08	2.2E+08	1	q35
ENSG0000010704	0.5233	1.4372	2.36E-05	8.38E-05	HFE	hemochror protein_co	6	26087281	26098343	1	p22.2
ENSG00000147905	0.5229	1.4369	5.21E-08	2.45E-07	ZCCHC7	zinc finger, protein_co	9	37120539	37358149	1	p13.2
ENSG00000149357	0.5228	1.4367	5.63E-12	3.75E-11	LAMTOR1	late endosc protein_co	11	72085895	72103387	-1	q13.4
ENSG00000181191	0.5227	1.4366	7.16E-07	3.02E-06	PJA1	praja ring fi protein_co X		69160851	69165793	-1	q13.1
ENSG00000138709	0.5225	1.4365	1.38E-05	5.04E-05	LARP1B	La ribonucl protein_co	4	1.28E+08	1.28E+08	1	q28.2
ENSG00000237190	0.5222	1.4362	2.93E-07	1.28E-06	CDKN2AIPNL	CDKN2A in; protein_co	5	1.34E+08	1.34E+08	-1	q31.1
ENSG00000213341	0.5219	1.4358	1.77E-10	1.04E-09	CHUK	conserved l protein_co	10	1E+08	1E+08	-1	q24.31
ENSG00000157800	0.5219	1.4358	4.72E-08	2.23E-07	SLC37A3	solute carri protein_co	7	1.4E+08	1.4E+08	-1	q34
ENSG00000178386	0.5214	1.4354	0.0211	0.0464	ZNF223	zinc finger   protein_co	19	44051367	44067991	1	q13.31
ENSG00000166337	0.5213	1.4353	2.54E-11	1.60E-10	TAF10	TAF10 RNA protein_co	11	6606296	6612667	-1	p15.4
ENSG00000277147	0.5209	1.4348	0.016	0.0362	LINC00869	long interg; processed_	1	1.5E+08	1.5E+08	1	q21.2
ENSG00000132475	0.5203	1.4342	4.62E-19	5.52E-18	H3F3B	H3 histone, protein_co	17	75776434	75785893	-1	q25.1
ENSG00000129472	0.5202	1.4342	5.92E-06	2.25E-05	RAB2B	RAB2B, me protein_co	14	21459020	21476973	-1	q11.2
ENSG00000108788	0.5201	1.4341	2.30E-11	1.45E-10	MLX	MLX, MAX protein_co	17	42567068	42573239	1	q21.2
ENSG00000147416	0.52	1.4339	4.09E-12	2.76E-11	ATP6V1B2	ATPase, H+ protein_co	8	20197367	20226819	1	p21.3



ENSG0000010539	0.5199	1.4338	1.74E-05	6.28E-05	ZNF200	zinc finger   protein_co	16	3222325	3236221	-1	p13.3
ENSG00000180228	0.5196	1.4336	5.91E-13	4.29E-12	PRKRA	protein kin. protein_co	2	1.78E+08	1.78E+08	-1	q31.2
ENSG00000104723	0.5196	1.4336	0.0007	0.0021	TUSC3	tumor suppressor protein_co	8	15417215	15766649	1	p22
ENSG00000183172	0.5195	1.4335	0.0015	0.0041	SMDT1	single-pass protein_co	22	42079691	42084284	1	q13.2
ENSG00000130881	0.5195	1.4335	0.0152	0.0344	LRP3	low density protein_co	19	33177603	33208867	1	q13.11
ENSG00000122435	0.5192	1.4332	1.22E-05	4.48E-05	TRMT13	tRNA methylase protein_co	1	1E+08	1E+08	1	p21.2
ENSG00000104904	0.5189	1.4328	4.08E-09	2.12E-08	OAZ1	ornithine decarboxylase protein_co	19	2269509	2273490	1	p13.3
ENSG00000188266	0.5188	1.4328	0.0034	0.0088	HYKK	hydroxylysine oxidase protein_co	15	78507564	78537372	1	q25.1
ENSG00000221994	0.5187	1.4327	0.0008	0.0023	ZNF630	zinc finger   protein_co X		47983356	48071658	-1	p11.23
ENSG00000116096	0.518	1.432	3.27E-05	0.0001	SPR	sepiapterin reductase protein_co	2	72887360	72892158	1	p13.2
ENSG00000142864	0.5179	1.4319	1.59E-10	9.35E-10	SERBP1	SERPINE1 non-coding protein_co	1	67407810	67430415	-1	p31.3
ENSG00000186470	0.5179	1.4319	2.12E-08	1.03E-07	BTN3A2	butyrophilin protein_co	6	26365159	26378320	1	p22.2
ENSG00000172466	0.5177	1.4316	4.79E-10	2.70E-09	ZNF24	zinc finger   protein_co	18	35332212	35345482	-1	q12.2
ENSG00000111802	0.5175	1.4315	8.15E-07	3.42E-06	TDP2	tyrosyl-DNA phosphodiesterase protein_co	6	24649977	24667033	-1	p22.3
ENSG00000168101	0.5174	1.4314	6.99E-09	3.55E-08	NUDT16L1	nudix (nucl diphosphate) protein_co	16	4693694	4695859	1	p13.3
ENSG00000164338	0.5174	1.4314	8.71E-06	3.25E-05	UTP15	UTP15, U3 protein_co	5	73565443	73583377	1	q13.2
ENSG00000165119	0.517	1.431	8.90E-13	6.35E-12	HNRNPK	heterogeneous nuclear ribonucleoprotein protein_co	9	83968083	83980616	-1	q21.32
ENSG00000198642	0.516	1.43	7.32E-08	3.39E-07	KLHL9	kelch-like family protein_co	9	21329671	21335380	-1	p21.3
ENSG00000089818	0.5159	1.4298	9.19E-14	7.09E-13	NECAP1	NECAP endonuclease protein_co	12	8082211	8097771	1	p13.31
ENSG00000225973	0.5155	1.4295	0.0117	0.0271	PIGBOS1	PIGB opposome protein_co	15	55317184	55319161	-1	q21.3
ENSG00000240602	0.5155	1.4295	0.0183	0.0407	AADACP1	arylacetamide transcribed	3	1.52E+08	1.52E+08	1	q25.1
ENSG00000138459	0.5154	1.4294	6.19E-07	2.63E-06	SLC35A5	solute carrier protein_co	3	1.13E+08	1.13E+08	1	q13.2
ENSG00000161671	0.5152	1.4292	2.65E-05	9.33E-05	EMC10	ER membrane protein_co	19	50476400	50490870	1	q13.33
ENSG00000101558	0.5147	1.4287	8.96E-12	5.85E-11	VAPA	VAMP (vesicle-associated protein) protein_co	18	9914002	9960021	1	p11.22
ENSG00000182185	0.5147	1.4287	0.0203	0.0447	RAD51B	RAD51 paralogue protein_co	14	67819779	68730218	1	q24.1
ENSG00000139921	0.5143	1.4283	0.0005	0.0014	TMX1	thioredoxin reductase protein_co	14	51240162	51257546	1	q22.1
ENSG00000105750	0.5139	1.4279	0.0127	0.0292	ZNF85	zinc finger   protein_co	19	20923222	20950697	1	p12
ENSG00000163875	0.5134	1.4274	7.21E-06	2.72E-05	MEAF6	MYST/Esa1 protein_co	1	37492575	37514774	-1	p34.3
ENSG00000131849	0.5131	1.4271	0.0007	0.0021	ZNF132	zinc finger   protein_co	19	58432814	58440222	-1	q13.43
ENSG00000181450	0.5125	1.4265	1.92E-05	6.88E-05	ZNF678	zinc finger   protein_co	1	2.28E+08	2.28E+08	1	q42.13
ENSG00000106392	0.5125	1.4265	0.0055	0.0136	C1GALT1	core 1 synthase protein_co	7	7156934	7248651	1	p22.1
ENSG00000168090	0.5123	1.4264	1.76E-08	8.65E-08	COPS6	COP9 signalosome protein_co	7	1E+08	1E+08	1	q22.1
ENSG00000115211	0.5124	1.4264	3.99E-07	1.72E-06	EIF2B4	eukaryotic translation initiation factor protein_co	2	27364352	27370486	-1	p23.3
ENSG00000240207	0.5118	1.4259	0.0133	0.0306	RP11-379F4.4	antisense	3	1.59E+08	1.59E+08	1	q25.32
ENSG00000174405	0.5118	1.4258	0.0003	0.0009	LIG4	ligase IV, D protein_co	13	1.08E+08	1.08E+08	-1	q33.3
ENSG00000126247	0.5116	1.4256	1.54E-12	1.08E-11	CAPNS1	calpain, smooth muscle protein_co	19	36139575	36150353	1	q13.12
ENSG00000160695	0.5111	1.4251	2.66E-07	1.17E-06	VPS11	vacuolar protein sorting protein_co	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000138399	0.5111	1.4251	0.0002	0.0006	FASTKD1	FAST kinase protein_co	2	1.7E+08	1.7E+08	-1	q31.1
ENSG00000132664	0.5109	1.4249	0.0098	0.0233	POLR3F	polymerase III protein_co	20	18467127	18484643	1	p11.23
ENSG00000179918	0.5108	1.4248	1.43E-09	7.76E-09	SEPHS2	selenophos protein_co	16	30443631	30446181	-1	p11.2
ENSG00000137492	0.5103	1.4243	3.45E-05	0.0001	PRKRIR	protein-kinase protein_co	11	76349956	76380971	-1	q13.5



ENSG00000136940	0.5098	1.4239	1.04E-07	4.76E-07 PDCL	phosducin- protein_co	9	1.23E+08	1.23E+08	-1 q33.2
ENSG00000168394	0.5099	1.4239	0.0149	0.0339 TAP1	transporter protein_co	6	32845209	32853978	-1 p21.32
ENSG00000169139	0.5098	1.4238	2.08E-05	7.44E-05 UBE2V2	ubiquitin-c1 protein_co	8	48008400	48064708	1 q11.21
ENSG00000140386	0.5097	1.4238	4.69E-05	0.0002 SCAPER	S-phase cyc protein_co	15	76347904	76905444	-1 q24.3
ENSG00000168152	0.5098	1.4238	0.0067	0.0163 THAP9	THAP domain protein_co	4	82900684	82919969	1 q21.22
ENSG00000085721	0.5096	1.4236	4.44E-07	1.91E-06 RRN3	RRN3 RNA protein_co	16	15060022	15094317	-1 p13.11
ENSG00000160221	0.5093	1.4233	0.0038	0.0096 C21orf33	chromosom protein_co	21	44133605	44145723	1 q22.3
ENSG00000118855	0.5088	1.4229	0.0032	0.0082 MFSD1	major facili protein_co	3	1.59E+08	1.59E+08	1 q25.32
ENSG00000176407	0.5087	1.4227	9.27E-19	1.08E-17 KCMF1	potassium protein_co	2	84971093	85059472	1 p11.2
ENSG00000159128	0.5085	1.4226	0.0006	0.0016 IFNGR2	interferon protein_co	21	33402896	33479348	1 q22.11
ENSG00000130165	0.5084	1.4225	0.0003	0.0011 ELOF1	elongation protein_co	19	11551147	11559236	-1 p13.2
ENSG00000166971	0.508	1.4221	5.73E-06	2.19E-05 AKTIP	AKT interac protein_co	16	53491040	53504411	-1 q12.2
ENSG00000123297	0.5081	1.4221	0.0034	0.0087 TSFM	Ts translati protein_co	12	57782589	57808071	1 q14.1
ENSG00000261455	0.5076	1.4217	0.0034	0.0087 LINC01003	long interglincRNA	7	1.52E+08	1.52E+08	1 q36.1
ENSG00000111445	0.5075	1.4216	0.0131	0.0301 RFC5	replication protein_co	12	1.18E+08	1.18E+08	1 q24.23
ENSG00000117360	0.5066	1.4207	1.33E-06	5.46E-06 PRPF3	pre-mRNA protein_co	1	1.5E+08	1.5E+08	1 q21.2
ENSG00000173715	0.5066	1.4207	4.78E-05	0.0002 C11orf80	chromosom protein_co	11	66744451	66843324	1 q13.2
ENSG00000155755	0.5047	1.4188	0.0005	0.0014 TMEM237	transmemt protein_co	2	2.02E+08	2.02E+08	-1 q33.1
ENSG00000197548	0.5045	1.4186	2.67E-07	1.17E-06 ATG7	autophagy protein_co	3	11272309	11557665	1 p25.3
ENSG00000165525	0.5043	1.4184	1.24E-09	6.77E-09 NEMF	nuclear exp protein_co	14	49782083	49853203	-1 q21.3
ENSG00000145868	0.5039	1.4181	2.50E-15	2.18E-14 FBXO38	F-box prote protein_co	5	1.48E+08	1.48E+08	1 q32
ENSG00000130638	0.5037	1.4179	1.05E-14	8.80E-14 ATXN10	ataxin 10 [5 protein_co	22	45671798	45845307	1 q13.31
ENSG00000105341	0.5035	1.4177	3.42E-09	1.79E-08 ATP5SL	ATP5S-like protein_co	19	41431318	41440717	-1 q13.2
ENSG00000177096	0.5035	1.4177	7.56E-05	0.0003 FAM109B	family with protein_co	22	42074251	42079441	1 q13.2
ENSG00000136819	0.5033	1.4174	8.71E-11	5.26E-10 C9orf78	chromosom protein_co	9	1.3E+08	1.3E+08	-1 q34.11
ENSG00000034693	0.5033	1.4174	1.52E-06	6.19E-06 PEX3	peroxisom protein_co	6	1.43E+08	1.43E+08	1 q24.2
ENSG00000205643	0.503	1.4171	0.0061	0.0151 CDPF1	cysteine-ric protein_co	22	46244011	46250679	-1 q13.31
ENSG00000235109	0.5025	1.4166	0.0002	0.0007 ZSCAN31	zinc finger protein_co	6	28324693	28356271	-1 p22.1
ENSG00000261824	0.5024	1.4166	0.0003	0.0008 LINC00662	long interglincRNA	19	27684580	27793940	-1 q11
ENSG00000170365	0.5023	1.4165	2.73E-07	1.20E-06 SMAD1	SMAD fami protein_co	4	1.45E+08	1.46E+08	1 q31.21
ENSG00000197142	0.502	1.4162	0.0025	0.0066 ACSL5	acyl-CoA sy protein_co	10	1.12E+08	1.12E+08	1 q25.2
ENSG00000119820	0.5014	1.4156	1.13E-06	4.67E-06 YIPF4	Yip1 domai protein_co	2	32277910	32316594	1 p22.3
ENSG00000029153	0.5011	1.4153	8.57E-10	4.72E-09 ARNTL2	aryl hydroc protein_co	12	27332854	27425289	1 p11.23
ENSG00000102030	0.5007	1.4149	5.21E-05	0.0002 NAA10	N(alpha)-ac protein_co X		1.54E+08	1.54E+08	-1 q28
ENSG00000132952	0.5007	1.4149	8.25E-05	0.0003 USPL1	ubiquitin s protein_co	13	30617693	30660770	1 q12.3
ENSG00000131351	0.5006	1.4148	0.0182	0.0405 HAUS8	HAUS augn protein_co	19	17049729	17075625	-1 p13.11
ENSG00000106993	0.5004	1.4146	0.0005	0.0015 CDC37L1	cell divisior protein_co	9	4679559	4708398	1 p24.1
ENSG00000102362	0.5004	1.4146	0.0007	0.002 SYTL4	synaptotag protein_co X		1.01E+08	1.01E+08	-1 q22.1
ENSG00000132485	0.5002	1.4144	0.0002	0.0005 ZRANB2	zinc finger, protein_co	1	71063291	71081297	-1 p31.1
ENSG00000145388	0.4999	1.4141	1.73E-06	7.02E-06 METTL14	methyltran protein_co	4	1.19E+08	1.19E+08	1 q26
ENSG00000105928	0.4998	1.414	0.0118	0.0274 DFNA5	deafness, a protein_co	7	24698353	24758113	-1 p15.3

ENSG00000122008	0.4995	1.4138	0.0002	0.0006	POLK	polymerase protein_co	5	75511756	75601144	1	q13.3
ENSG00000171824	0.4995	1.4137	2.89E-08	1.39E-07	EXOSC10	exosome c protein_co	1	11066618	11099881	-1	p36.22
ENSG00000111671	0.498	1.4123	0.0001	0.0004	SPSB2	spla/ryano protein_co	12	6870935	6889358	-1	p13.31
ENSG00000137871	0.498	1.4122	1.62E-05	5.86E-05	ZNF280D	zinc finger   protein_co	15	56630181	56918571	-1	q21.3
ENSG00000119616	0.4978	1.4121	1.33E-05	4.87E-05	FCF1	FCF1 rRNA- protein_co	14	74713144	74738620	1	q24.3
ENSG00000060140	0.4964	1.4107	5.82E-06	2.21E-05	STYK1	serine/thre protein_co	12	10618939	10674318	-1	p13.2
ENSG00000196510	0.4962	1.4105	9.08E-06	3.38E-05	ANAPC7	anaphase p protein_co	12	1.1E+08	1.1E+08	-1	q24.11
ENSG00000234545	0.4962	1.4105	2.26E-05	8.02E-05	FAM133B	family with protein_co	7	92560793	92590394	-1	q21.2
ENSG00000110911	0.4959	1.4102	2.68E-07	1.17E-06	SLC11A2	solute carri protein_co	12	50979401	51028566	-1	q13.12
ENSG00000106615	0.4959	1.4102	1.24E-06	5.11E-06	RHEB	Ras homolo protein_co	7	1.51E+08	1.52E+08	-1	q36.1
ENSG00000005194	0.4958	1.4101	5.71E-11	3.50E-10	CIAPIN1	cytokine in protein_co	16	57428169	57447528	-1	q21
ENSG00000168802	0.4957	1.41	3.15E-08	1.51E-07	CHTF8	CTF8, chror protein_co	16	69118010	69132584	-1	q22.1
ENSG00000135002	0.4955	1.4098	0.0006	0.0018	RFK	riboflavin k protein_co	9	76385517	76394517	-1	q21.13
ENSG00000134759	0.4951	1.4094	6.94E-08	3.23E-07	ELP2	elongator a protein_co	18	36129444	36180556	1	q12.2
ENSG00000162928	0.4942	1.4086	3.38E-07	1.47E-06	PEX13	peroxisom protein_co	2	61017225	61051990	1	p15
ENSG00000222011	0.4942	1.4085	0.0017	0.0045	FAM185A	family with protein_co	7	1.03E+08	1.03E+08	1	q22.1
ENSG00000152700	0.4941	1.4084	7.97E-08	3.69E-07	SAR1B	secretion a protein_co	5	1.35E+08	1.35E+08	-1	q31.1
ENSG00000050426	0.4936	1.4079	8.07E-05	0.0003	LETMD1	LETM1 don protein_co	12	51047962	51060424	1	q13.12
ENSG00000112812	0.4936	1.4079	0.0005	0.0014	PRSS16	protease, s protein_co	6	27247701	27256624	1	p22.1
ENSG00000173145	0.4934	1.4078	5.72E-05	0.0002	NOC3L	nucleolar c protein_co	10	94333226	94362959	-1	q23.33
ENSG00000143436	0.493	1.4074	7.50E-05	0.0003	MRPL9	mitochondi protein_co	1	1.52E+08	1.52E+08	-1	q21.3
ENSG00000141425	0.4926	1.407	9.00E-11	5.42E-10	RPRD1A	regulation   protein_co	18	35984387	36067576	-1	q12.2
ENSG00000089006	0.4923	1.4066	2.05E-08	1.00E-07	SNX5	sorting nex protein_co	20	17941597	17968980	-1	p11.23
ENSG00000119446	0.4922	1.4066	5.80E-06	2.21E-05	RBM18	RNA bindin protein_co	9	1.22E+08	1.22E+08	-1	q33.2
ENSG00000179387	0.4922	1.4066	4.81E-05	0.0002	ELMOD2	ELMO/CED protein_co	4	1.41E+08	1.41E+08	1	q31.1
ENSG00000170425	0.4915	1.4059	0.0007	0.0019	ADORA2B	adenosine . protein_co	17	15944917	15975746	1	p12
ENSG00000119801	0.491	1.4054	6.68E-06	2.53E-05	YPEL5	yippee-like protein_co	2	30146941	30160533	1	p23.1
ENSG00000081386	0.4908	1.4053	3.76E-05	0.0001	ZNF510	zinc finger   protein_co	9	96755865	96778129	-1	q22.33
ENSG00000198521	0.4907	1.4051	0.0102	0.0241	ZNF43	zinc finger   protein_co	19	21804949	21852125	-1	p12
ENSG00000154781	0.4906	1.405	1.35E-07	6.13E-07	CCDC174	coiled-coil   protein_co	3	14651746	14672659	1	p25.1
ENSG00000180917	0.4905	1.4049	1.69E-06	6.86E-06	CMTR2	cap methyl protein_co	16	71281389	71289715	-1	q22.2
ENSG00000008311	0.4905	1.4049	0.0028	0.0074	AASS	aminoadip: protein_co	7	1.22E+08	1.22E+08	-1	q31.32
ENSG00000039319	0.4902	1.4047	1.73E-05	6.25E-05	ZFYVE16	zinc finger, protein_co	5	80408013	80479350	1	q14.1
ENSG00000113013	0.4899	1.4044	4.66E-07	2.00E-06	HSPA9	heat shock protein_co	5	1.39E+08	1.39E+08	-1	q31.2
ENSG00000162627	0.4894	1.4038	4.41E-08	2.09E-07	SNX7	sorting nex protein_co	1	98661701	98760500	1	p21.3
ENSG00000182551	0.489	1.4035	7.79E-06	2.92E-05	ADI1	acireductor protein_co	2	3497361	3519736	-1	p25.3
ENSG00000166847	0.4889	1.4034	6.24E-09	3.19E-08	DCTN5	dynactin 5 protein_co	16	23641392	23677455	1	p12.2
ENSG00000133028	0.4889	1.4034	1.97E-06	7.91E-06	SCO1	SCO1 cytoc protein_co	17	10672474	10698375	-1	p13.1
ENSG00000119965	0.4885	1.403	0.0002	0.0005	C10orf88	chromoson protein_co	10	1.23E+08	1.23E+08	-1	q26.13
ENSG00000087995	0.488	1.4025	0.0007	0.0021	METTL2A	methyltran protein_co	17	62423867	62450822	1	q23.2
ENSG00000162734	0.4861	1.4007	0.0117	0.0272	PEA15	phosphopri protein_co	1	1.6E+08	1.6E+08	1	q23.2

ENSG00000170242	0.4861	1.4006	1.27E-05	4.64E-05	USP47	ubiquitin s protein_co	11	11841423	11959323	1	p15.3
ENSG00000125868	0.486	1.4005	5.90E-09	3.02E-08	DSTN	destrin (act protein_co	20	17569863	17609919	1	p12.1
ENSG00000029725	0.4858	1.4004	0.0002	0.0006	RABEP1	rabaptin, R protein_co	17	5282265	5385812	1	p13.2
ENSG00000130414	0.4857	1.4003	1.24E-05	4.56E-05	NDUFA10	NADH dehy protein_co	2	2.4E+08	2.4E+08	-1	q37.3
ENSG00000073331	0.4855	1.4	0.0009	0.0026	ALPK1	alpha-kinas protein_co	4	1.12E+08	1.12E+08	1	q25
ENSG00000155097	0.4854	1.3999	3.43E-09	1.80E-08	ATP6V1C1	ATPase, H+ protein_co	8	1.03E+08	1.03E+08	1	q22.3
ENSG00000183576	0.4853	1.3999	2.06E-08	1.01E-07	SETD3	SET domain protein_co	14	99397746	99480879	-1	q32.2
ENSG00000146859	0.4854	1.3999	0.0072	0.0175	TMEM140	transmemt protein_co	7	1.35E+08	1.35E+08	1	q33
ENSG00000176978	0.4849	1.3995	2.91E-06	1.15E-05	DPP7	dipeptidyl- protein_co	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000154845	0.4848	1.3994	3.98E-12	2.69E-11	PPP4R1	protein phc protein_co	18	9546791	9615240	-1	p11.22
ENSG00000135070	0.4846	1.3992	0.0001	0.0005	ISCA1	iron-sulfur protein_co	9	86264546	86282538	-1	q21.33
ENSG00000105708	0.4844	1.399	0.0037	0.0095	ZNF14	zinc finger protein_co	19	19710471	19733097	-1	p13.11
ENSG00000120370	0.4841	1.3988	0.0003	0.0009	GORAB	golgin, RAB protein_co	1	1.71E+08	1.71E+08	1	q24.2
ENSG00000056097	0.4841	1.3987	1.43E-08	7.05E-08	ZFR	zinc finger protein_co	5	32354350	32444761	-1	p13.3
ENSG00000105669	0.484	1.3986	1.16E-08	5.78E-08	COPE	coatomer protein_co	19	18899514	18919397	-1	p13.11
ENSG00000074842	0.484	1.3986	0.003	0.0077	C19orf10	chromoson protein_co	19	4641374	4670370	-1	p13.3
ENSG00000187778	0.4838	1.3984	1.69E-10	9.92E-10	MCRS1	microspher protein_co	12	49556544	49568153	-1	q13.12
ENSG00000136147	0.4837	1.3983	1.11E-06	4.58E-06	PHF11	PHD finger protein_co	13	49495610	49528987	1	q14.2
ENSG00000108107	0.4836	1.3982	3.53E-05	0.0001	RPL28	ribosomal protein_co	19	55385345	55403250	1	q13.42
ENSG00000103769	0.4833	1.3979	2.48E-11	1.56E-10	RAB11A	RAB11A, m protein_co	15	65726054	65891991	1	q22.31
ENSG00000148481	0.483	1.3976	9.93E-06	3.68E-05	FAM188A	family with protein_co	10	15778170	15860520	-1	p13
ENSG00000167969	0.4823	1.397	0.0088	0.0211	ECI1	enoyl-CoA protein_co	16	2239395	2252300	-1	p13.3
ENSG00000198513	0.4822	1.3968	0.0006	0.0017	ATL1	atlastin GTI protein_co	14	50532509	50633068	1	q22.1
ENSG00000164081	0.4819	1.3966	1.06E-08	5.32E-08	TEX264	testis expre protein_co	3	51662693	51704323	1	p21.2
ENSG00000120910	0.4817	1.3964	3.20E-05	0.0001	PPP3CC	protein phc protein_co	8	22440819	22541142	1	p21.3
ENSG00000173933	0.4817	1.3964	0.0032	0.0083	RBM4	RNA bindin protein_co	11	66638617	66666682	1	q13.2
ENSG00000204789	0.4816	1.3963	0.0132	0.0304	ZNF204P	zinc finger processed_	6	27357825	27360221	-1	p22.1
ENSG00000105865	0.4815	1.3962	0.0009	0.0026	DUS4L	dihydrouric protein_co	7	1.08E+08	1.08E+08	1	q22.3
ENSG00000114346	0.4809	1.3956	9.88E-06	3.66E-05	ECT2	epithelial c protein_co	3	1.73E+08	1.73E+08	1	q26.31
ENSG00000142188	0.4804	1.3952	2.71E-07	1.19E-06	TMEM50B	transmemt protein_co	21	33432485	33480011	-1	q22.11
ENSG00000008869	0.4804	1.3951	6.85E-09	3.49E-08	HEATR5B	HEAT repea protein_co	2	36968383	37084342	-1	p22.2
ENSG00000154040	0.4803	1.3951	0.0101	0.0239	CABYR	calcium bin protein_co	18	24138956	24161603	1	q11.2
ENSG00000167553	0.4799	1.3946	0.0002	0.0005	TUBA1C	tubulin, alp protein_co	12	49188736	49274603	1	q13.12
ENSG00000221923	0.4798	1.3946	0.0003	0.0009	ZNF880	zinc finger protein_co	19	52369917	52385795	1	q13.41
ENSG00000118518	0.4793	1.3941	0.0003	0.001	RNF146	ring finger protein_co	6	1.27E+08	1.27E+08	1	q22.33
ENSG00000159445	0.4784	1.3932	0.0002	0.0005	THEM4	thioesteras protein_co	1	1.52E+08	1.52E+08	-1	q21.3
ENSG00000021776	0.4782	1.393	0.0005	0.0014	AQR	aquarius in protein_co	15	34851782	34969839	-1	q14
ENSG00000138660	0.4781	1.3929	2.59E-06	1.03E-05	AP1AR	adaptor-rel protein_co	4	1.12E+08	1.12E+08	1	q25
ENSG00000074201	0.4779	1.3928	1.17E-09	6.40E-09	CLNS1A	chloride ch protein_co	11	77514936	77637805	-1	q14.1
ENSG00000166526	0.4779	1.3927	0.0156	0.0354	ZNF3	zinc finger protein_co	7	1E+08	1E+08	-1	q22.1
ENSG00000125846	0.4777	1.3925	0.0007	0.0021	ZNF133	zinc finger protein_co	20	18288283	18316996	1	p11.23

ENSG00000204381	0.4777	1.3925	0.0128	0.0295	LAYN	layilin [Sou protein_co	11	1.12E+08	1.12E+08	1	q23.1
ENSG00000184047	0.4775	1.3924	0.0009	0.0024	DIABLO	diablo, IAP- protein_co	12	1.22E+08	1.22E+08	-1	q24.31
ENSG00000144959	0.4775	1.3923	0.0001	0.0004	NCEH1	neutral chc protein_co	3	1.73E+08	1.73E+08	-1	q26.31
ENSG00000075651	0.4772	1.3921	1.53E-10	9.05E-10	PLD1	phospholip protein_co	3	1.72E+08	1.72E+08	-1	q26.31
ENSG00000188811	0.4772	1.392	9.37E-05	0.0003	NHLRC3	NHL repeat protein_co	13	39038306	39050109	1	q13.3
ENSG00000127980	0.4771	1.3919	0.0001	0.0004	PEX1	peroxisom; protein_co	7	92487020	92528531	-1	q21.2
ENSG00000081692	0.4768	1.3917	2.22E-05	7.91E-05	JMJD4	jumonji doi protein_co	1	2.28E+08	2.28E+08	-1	q42.13
ENSG00000159917	0.4767	1.3915	0.0017	0.0045	ZNF235	zinc finger   protein_co	19	44228729	44305046	-1	q13.31
ENSG00000169592	0.4766	1.3914	0.0006	0.0019	INO80E	INO80 com protein_co	16	29995294	30005793	1	p11.2
ENSG00000065150	0.476	1.3908	7.24E-09	3.67E-08	IPO5	importin 5 protein_co	13	97953658	98024297	1	q32.2
ENSG00000146223	0.4755	1.3904	3.35E-08	1.60E-07	RPL7L1	ribosomal   protein_co	6	42879618	42889925	1	p21.1
ENSG00000015479	0.4752	1.3902	7.75E-10	4.30E-09	MATR3	matrin 3 [S protein_co	5	1.39E+08	1.39E+08	1	q31.2
ENSG00000182173	0.4742	1.3892	0.0034	0.0089	TSEN54	TSEN54 tRN protein_co	17	75516060	75524739	1	q25.1
ENSG00000062194	0.474	1.389	7.24E-06	2.72E-05	GPBP1	GC-rich pro protein_co	5	57173948	57264679	1	q11.2
ENSG00000122482	0.4738	1.3888	7.28E-05	0.0002	ZNF644	zinc finger   protein_co	1	90915298	91022272	-1	p22.2
ENSG00000163798	0.4732	1.3882	1.21E-10	7.19E-10	SLC4A1AP	solute carri protein_co	2	27663471	27694976	-1	p23.3
ENSG00000108561	0.4726	1.3876	8.25E-09	4.16E-08	C1QBP	complemer protein_co	17	5432777	5448830	-1	p13.2
ENSG00000147854	0.4724	1.3875	2.74E-05	9.62E-05	UHRF2	ubiquitin-lil protein_co	9	6413151	6507054	1	p24.1
ENSG00000120705	0.4723	1.3873	4.26E-17	4.33E-16	ETF1	eukaryotic protein_co	5	1.39E+08	1.39E+08	-1	q31.2
ENSG00000170633	0.472	1.3871	9.01E-08	4.14E-07	RNF34	ring finger   protein_co	12	1.21E+08	1.21E+08	1	q24.31
ENSG00000023287	0.4714	1.3865	2.24E-05	7.97E-05	RB1CC1	RB1-inducil protein_co	8	52622456	52745843	-1	q11.23
ENSG00000058262	0.4715	1.3865	0.0004	0.0012	SEC61A1	Sec61 alph; protein_co	3	1.28E+08	1.28E+08	1	q21.3
ENSG00000140939	0.4713	1.3864	0.0007	0.0022	NOL3	nucleolar p protein_co	16	67170154	67175735	1	q22.1
ENSG00000205138	0.4713	1.3864	0.0008	0.0024	SDHAF1	succinate d protein_co	19	35995199	35996315	1	q13.12
ENSG00000167770	0.4711	1.3862	9.86E-07	4.10E-06	OTUB1	OTU deubic protein_co	11	63985853	64001811	1	q13.1
ENSG00000166582	0.4706	1.3857	0.0139	0.0318	CENPV	centromer; protein_co	17	16342534	16353656	-1	p11.2
ENSG00000067365	0.4702	1.3853	0.0118	0.0274	METTL22	methyltran protein_co	16	8621683	8649654	1	p13.2
ENSG00000166411	0.47	1.3851	1.57E-06	6.38E-06	IDH3A	isocitrate d protein_co	15	78131498	78171949	1	q25.1
ENSG00000162600	0.47	1.3851	0.0052	0.0129	OMA1	OMA1 zinc protein_co	1	58415384	58546802	-1	p32.1
ENSG00000143207	0.469	1.3841	2.20E-12	1.51E-11	RFWD2	ring finger ; protein_co	1	1.76E+08	1.76E+08	-1	q25.2
ENSG00000013374	0.4686	1.3838	1.83E-09	9.83E-09	NUB1	negative re protein_co	7	1.51E+08	1.51E+08	1	q36.1
ENSG00000162836	0.4678	1.383	5.96E-06	2.27E-05	ACP6	acid phospl protein_co	1	1.48E+08	1.48E+08	-1	q21.2
ENSG00000116353	0.4677	1.3829	4.26E-05	0.0001	MECR	mitochondi protein_co	1	29192873	29230942	-1	p35.3
ENSG00000171222	0.4677	1.3829	0.0016	0.0043	SCAND1	SCAN dom; protein_co	20	35953617	35959472	-1	q11.23
ENSG00000101391	0.4675	1.3827	7.23E-06	2.72E-05	CDK5RAP1	CDK5 regul protein_co	20	33358839	33401561	-1	q11.21
ENSG00000146574	0.4673	1.3825	3.51E-05	0.0001	CCZ1B	CCZ1 vacuc protein_co	7	6794134	6826770	-1	p22.1
ENSG00000121851	0.4669	1.3822	3.97E-06	1.54E-05	POLR3GL	polymerase; protein_co	1	1.46E+08	1.46E+08	1	q21.1
ENSG00000154957	0.4669	1.3822	0.0036	0.0094	ZNF18	zinc finger   protein_co	17	11977439	11997510	-1	p12
ENSG00000125457	0.4664	1.3817	0.0002	0.0005	MIF4GD	MIF4G don protein_co	17	75266228	75271227	-1	q25.1
ENSG00000117519	0.4664	1.3817	0.0041	0.0105	CNN3	calponin 3, protein_co	1	94896949	94927278	-1	p21.3
ENSG00000075415	0.4662	1.3815	5.49E-13	3.99E-12	SLC25A3	solute carri protein_co	12	98593591	98606379	1	q23.1

ENSG00000162076	0.4658	1.3811	1.74E-05	6.29E-05	FLYWCH2	FLYWCH fa protein_co	16	2883186	2899382	1	p13.3
ENSG00000172775	0.4658	1.381	1.71E-12	1.19E-11	FAM192A	family with protein_co	16	57152466	57186116	-1	q13
ENSG00000204370	0.4657	1.381	0.0011	0.0031	SDHD	succinate dprotein_co	11	1.12E+08	1.12E+08	1	q23.1
ENSG0000010256	0.4656	1.3809	3.97E-05	0.0001	UQCRC1	ubiquinol-c protein_co	3	48599002	48610976	-1	p21.31
ENSG00000167617	0.4653	1.3806	0.0037	0.0095	CDC42EP5	CDC42 effe protein_co	19	54465026	54473264	-1	q13.42
ENSG00000118515	0.4651	1.3805	0.0021	0.0057	SGK1	serum/gluc protein_co	6	1.34E+08	1.34E+08	-1	q23.2
ENSG00000168495	0.4646	1.38	1.08E-05	3.98E-05	POLR3D	polymerase protein_co	8	22245104	22254600	1	p21.3
ENSG00000130713	0.464	1.3793	0.0087	0.0209	EXOSC2	exosome cr protein_co	9	1.31E+08	1.31E+08	1	q34.12
ENSG00000135541	0.4638	1.3792	0.0013	0.0037	AHI1	Abelson he protein_co	6	1.35E+08	1.35E+08	-1	q23.3
ENSG00000122591	0.4634	1.3788	0.019	0.0421	FAM126A	family with protein_co	7	22889371	23014130	-1	p15.3
ENSG00000152382	0.4631	1.3785	0.0006	0.0017	TADA1	transcriptic protein_co	1	1.67E+08	1.67E+08	-1	q24.1
ENSG00000166401	0.4628	1.3782	0.0003	0.0009	SERPINB8	serpin pept protein_co	18	63969925	64005667	1	q22.1
ENSG00000152455	0.4628	1.3782	0.0073	0.0177	SUV39H2	suppressor protein_co	10	14878820	14904315	1	p13
ENSG00000256525	0.4627	1.3781	0.01	0.0235	POLG2	polymerase protein_co	17	64477785	64497036	-1	q23.3
ENSG00000140350	0.4626	1.378	8.52E-08	3.93E-07	ANP32A	acidic (leuc protein_co	15	68778535	68820897	-1	q23
ENSG00000076053	0.4626	1.378	0.0005	0.0016	RBM7	RNA bindin protein_co	11	1.14E+08	1.14E+08	1	q23.2
ENSG00000152749	0.4622	1.3777	0.0016	0.0045	GPR180	G protein-c protein_co	13	94601903	94634645	1	q32.1
ENSG00000139505	0.462	1.3774	3.93E-08	1.87E-07	MTMR6	myotubula protein_co	13	25246201	25288009	-1	q12.13
ENSG00000013561	0.4618	1.3773	2.12E-08	1.03E-07	RNF14	ring finger   protein_co	5	1.42E+08	1.42E+08	1	q31.3
ENSG00000112357	0.4617	1.3772	0.0002	0.0005	PEX7	peroxisom protein_co	6	1.37E+08	1.37E+08	1	q23.3
ENSG00000162613	0.4615	1.377	2.07E-12	1.43E-11	FUBP1	far upstrea protein_co	1	77944055	77979110	-1	p31.1
ENSG00000136159	0.4616	1.377	0.0002	0.0005	NUDT15	nudix (nucl protein_co	13	48037567	48047222	1	q14.2
ENSG00000030110	0.4606	1.3761	0.0011	0.0031	BAK1	BCL2-antag protein_co	6	33572547	33580293	-1	p21.31
ENSG00000145390	0.4604	1.3759	2.02E-05	7.22E-05	USP53	ubiquitin s protein_co	4	1.19E+08	1.19E+08	1	q26
ENSG00000178935	0.46	1.3756	0.0006	0.0017	ZNF552	zinc finger   protein_co	19	57803841	57814913	-1	q13.43
ENSG00000189058	0.4599	1.3754	0.015	0.0341	APOD	apolipopro protein_co	3	1.96E+08	1.96E+08	-1	q29
ENSG00000136436	0.4586	1.3742	4.12E-09	2.14E-08	CALCOCO2	calcium bin protein_co	17	48830988	48866522	1	q21.32
ENSG00000131148	0.4585	1.3741	6.09E-07	2.59E-06	EMC8	ER membra protein_co	16	85771758	85799608	-1	q24.1
ENSG00000134597	0.4583	1.3739	0.0002	0.0006	RBMX2	RNA bindin protein_co X		1.3E+08	1.3E+08	1	q26.1
ENSG00000072756	0.4578	1.3734	0.0001	0.0004	TRNT1	tRNA nucle protein_co	3	3126916	3150879	1	p26.2
ENSG00000153406	0.4578	1.3734	0.0007	0.0019	NMRAL1	NmrA-like t protein_co	16	4461680	4495763	-1	p13.3
ENSG00000116266	0.4576	1.3732	1.47E-05	5.36E-05	STXBP3	syntaxin bin protein_co	1	1.09E+08	1.09E+08	1	p13.3
ENSG00000065135	0.4574	1.373	1.89E-09	1.01E-08	GNAI3	guanine nu protein_co	1	1.1E+08	1.1E+08	1	p13.3
ENSG00000258056	0.4573	1.373	0.0136	0.0312	RP11-644F5.11	antisense	12	55729104	55730852	1	q13.2
ENSG00000167508	0.4562	1.3719	0.0008	0.0023	MVD	mevalonat protein_co	16	88651935	88663161	-1	q24.2
ENSG00000136536	0.4556	1.3713	1.49E-05	5.42E-05	MARCH7	membrane protein_co	2	1.6E+08	1.6E+08	1	q24.2
ENSG00000163528	0.4555	1.3712	0.0028	0.0073	CHCHD4	coiled-coil- protein_co	3	14112077	14124870	-1	p25.1
ENSG00000163870	0.4551	1.3709	0.0009	0.0027	TPRA1	transmemt protein_co	3	1.28E+08	1.28E+08	-1	q21.3
ENSG00000124596	0.455	1.3708	9.07E-05	0.0003	OARD1	O-acyl-ADP protein_co	6	41033627	41097787	-1	p21.1
ENSG00000136758	0.4549	1.3707	1.59E-09	8.62E-09	YME1L1	YME1-like : protein_co	10	27110112	27155266	-1	p12.1
ENSG00000204764	0.4549	1.3707	0.0134	0.0308	RANBP17	RAN bindin protein_co	5	1.71E+08	1.71E+08	1	q35.1



ENSG0000076650	0.4547	1.3705	0.0004	0.0011	GPATCH1	G patch do protein_co	19	33080880	33130542	1	q13.11
ENSG0000086598	0.4543	1.3701	2.47E-06	9.83E-06	TMED2	transmemt protein_co	12	1.24E+08	1.24E+08	1	q24.31
ENSG00000144401	0.454	1.3698	0.0004	0.0013	METTL21A	methyltran protein_co	2	2.08E+08	2.08E+08	-1	q33.3
ENSG00000177352	0.4534	1.3693	3.17E-06	1.25E-05	CCDC71	coiled-coil (protein_co	3	49162535	49166321	-1	p21.31
ENSG00000156469	0.4534	1.3693	0.0007	0.002	MTERF3	mitochond protein_co	8	96239398	96261610	-1	q22.1
ENSG00000170340	0.452	1.3679	5.37E-06	2.05E-05	B3GNT2	UDP-GlcNA protein_co	2	62196113	62224731	1	p15
ENSG00000182481	0.4518	1.3678	4.26E-08	2.02E-07	KPNA2	karyopherin protein_co	17	68035519	68046842	1	q24.2
ENSG00000026297	0.4519	1.3678	0.0032	0.0083	RNASET2	ribonuclea protein_co	6	1.67E+08	1.67E+08	-1	q27
ENSG00000176018	0.4519	1.3678	0.0128	0.0296	LYSMD3	LysM, puta protein_co	5	90515611	90529584	-1	q14.3
ENSG00000148341	0.4518	1.3677	0.0004	0.0013	SH3GLB2	SH3-domai protein_co	9	1.29E+08	1.29E+08	-1	q34.11
ENSG00000126460	0.4516	1.3675	0.0011	0.0031	PRRG2	proline rich protein_co	19	49580646	49591015	1	q13.33
ENSG00000164941	0.4514	1.3674	0.0007	0.0021	INTS8	integrator (protein_co	8	94813311	94881746	1	q22.1
ENSG00000107643	0.4512	1.3672	0.0002	0.0005	MAPK8	mitogen-ac protein_co	10	48306639	48439360	1	q11.22
ENSG00000242259	0.451	1.3669	0.0004	0.0011	C22orf39	chromoson protein_co	22	19351368	19448232	-1	q11.21
ENSG00000197119	0.4504	1.3664	5.38E-05	0.0002	SLC25A29	solute carri protein_co	14	1E+08	1E+08	-1	q32.2
ENSG00000130818	0.4504	1.3664	4.77E-05	0.0002	ZNF426	zinc finger protein_co	19	9527991	9538627	-1	p13.2
ENSG00000010072	0.4501	1.3661	9.44E-05	0.0003	SPRTN	SprT-like N- protein_co	1	2.31E+08	2.31E+08	1	q42.2
ENSG00000136152	0.449	1.3651	8.72E-05	0.0003	COG3	component protein_co	13	45464898	45536630	1	q14.13
ENSG00000090097	0.449	1.3651	0.0124	0.0288	PCBP4	poly(rC) bir protein_co	3	51957454	51968410	-1	p21.2
ENSG00000155287	0.4489	1.365	0.0067	0.0165	SLC25A28	solute carri protein_co	10	99610522	99620609	-1	q24.2
ENSG00000182952	0.4487	1.3648	5.23E-06	2.00E-05	HMGN4	high mobili protein_co	6	26538405	26546254	1	p22.2
ENSG00000114744	0.4486	1.3647	3.26E-05	0.0001	COMMD2	COMM dor protein_co	3	1.5E+08	1.5E+08	-1	q25.1
ENSG00000086544	0.4485	1.3646	1.72E-10	1.01E-09	ITPKC	inositol-tris protein_co	19	40717103	40740860	1	q13.2
ENSG00000173230	0.4483	1.3644	2.32E-05	8.24E-05	GOLGB1	golgin B1 [s protein_co	3	1.22E+08	1.22E+08	-1	q13.33
ENSG00000178694	0.4474	1.3636	0.0001	0.0004	NSUN3	NOP2/Sun protein_co	3	94062916	94128545	1	q11.2
ENSG00000083223	0.4471	1.3633	8.82E-07	3.69E-06	ZCCHC6	zinc finger, protein_co	9	86287733	86354454	-1	q21.33
ENSG00000122705	0.447	1.3632	1.64E-07	7.38E-07	CLTA	clathrin, lig protein_co	9	36190856	36304781	1	p13.3
ENSG00000126653	0.4469	1.3631	1.07E-07	4.88E-07	NSRP1	nuclear spe protein_co	17	30115521	30186475	1	q11.2
ENSG00000123472	0.4467	1.363	1.15E-05	4.24E-05	ATPAF1	ATP syntha protein_co	1	46632737	46673867	-1	p33
ENSG00000116815	0.4468	1.363	0.008	0.0194	CD58	CD58 mole protein_co	1	1.17E+08	1.17E+08	-1	p13.1
ENSG00000131778	0.4466	1.3628	0.0001	0.0004	CHD1L	chromodor protein_co	1	1.47E+08	1.47E+08	1	q21.1
ENSG00000104047	0.4465	1.3627	0.0008	0.0022	DTWD1	DTW doma protein_co	15	49620980	49656232	1	q21.2
ENSG00000215712	0.4461	1.3624	3.45E-05	0.0001	TMEM242	transmemt protein_co	6	1.57E+08	1.57E+08	-1	q25.3
ENSG00000123130	0.446	1.3623	0.0003	0.001	ACOT9	acyl-CoA th protein_co X		23702253	23766475	-1	p22.11
ENSG00000163597	0.4449	1.3612	2.30E-07	1.02E-06	SNHG16	small nucle processed_	17	76557766	76565348	1	q25.1
ENSG00000183255	0.4449	1.3612	2.25E-05	8.01E-05	PTTG1IP	pituitary tu protein_co	21	44849585	44873903	-1	q22.3
ENSG00000023228	0.4445	1.3609	6.49E-07	2.75E-06	NDUFS1	NADH dehy protein_co	2	2.06E+08	2.06E+08	-1	q33.3
ENSG00000092094	0.4446	1.3609	0.0003	0.0008	OSGEP	O-sialoglyc protein_co	14	20446411	20455105	-1	q11.2
ENSG00000091490	0.4445	1.3609	0.0091	0.0216	SEL1L3	sel-1 suppr protein_co	4	25747427	25863760	-1	p15.2
ENSG00000166173	0.4437	1.3601	0.0071	0.0173	LARP6	La ribonucl protein_co	15	70829130	70854159	-1	q23
ENSG00000205413	0.4433	1.3597	0.0016	0.0043	SAMD9	sterile alph protein_co	7	93099513	93118023	-1	q21.2



ENSG00000176102	0.4432	1.3596	3.50E-06	1.37E-05	CSTF3	cleavage st protein_co	11	33077188	33162371	-1	p13
ENSG00000126953	0.4427	1.3591	0.0029	0.0075	TIMM8A	translocase protein_co X		1.01E+08	1.01E+08	-1	q22.1
ENSG00000130177	0.4426	1.359	5.30E-06	2.03E-05	CDC16	cell divisior protein_co	13	1.14E+08	1.14E+08	1	q34
ENSG00000126581	0.4424	1.3589	4.53E-09	2.34E-08	BECN1	beclin 1, au protein_co	17	42810134	42833350	-1	q21.31
ENSG00000182552	0.4423	1.3588	4.58E-06	1.77E-05	RWDD4	RWD doma protein_co	4	1.84E+08	1.84E+08	-1	q35.1
ENSG00000104442	0.4422	1.3586	2.91E-05	0.0001	ARMC1	armadillo r protein_co	8	65602456	65634217	-1	q13.1
ENSG00000134717	0.442	1.3585	6.45E-06	2.44E-05	BTF3L4	basic trans protein_co	1	52056125	52090716	1	p32.3
ENSG00000181852	0.4419	1.3584	1.30E-08	6.44E-08	RNF41	ring finger protein_co	12	56202175	56221933	-1	q13.3
ENSG00000184007	0.4417	1.3582	0.0016	0.0043	PTP4A2	protein tyri protein_co	1	31906421	31944856	-1	p35.2
ENSG00000184117	0.4413	1.3579	5.12E-06	1.96E-05	NIPSNAP1	nipsnap ho protein_co	22	29554808	29581337	-1	q12.2
ENSG00000163950	0.4413	1.3578	6.70E-07	2.83E-06	SLBP	stem-loop l protein_co	4	1692800	1712555	-1	p16.3
ENSG00000242612	0.4413	1.3578	0.0083	0.0199	DECR2	2,4-dienoyl protein_co	16	401826	412487	1	p13.3
ENSG00000105202	0.4411	1.3577	0.0048	0.0121	FBL	fibrillariln [S protein_co	19	39834458	39846414	-1	q13.2
ENSG00000122674	0.4411	1.3576	2.55E-05	9.01E-05	CCZ1	CCZ1 vacuc protein_co	7	5898725	5925974	1	p22.1
ENSG00000168661	0.4397	1.3563	0.016	0.0362	ZNF30	zinc finger protein_co	19	34926903	34945170	1	q13.11
ENSG00000205339	0.4394	1.3561	5.52E-06	2.11E-05	IPO7	importin 7 protein_co	11	9384622	9448126	1	p15.4
ENSG00000221869	0.439	1.3557	3.63E-05	0.0001	CEBPD	CCAAT/enh protein_co	8	47736909	47739086	-1	q11.21
ENSG00000136718	0.4388	1.3555	4.37E-08	2.07E-07	IMP4	IMP4, U3 si protein_co	2	1.3E+08	1.3E+08	1	q21.1
ENSG00000159256	0.4389	1.3555	1.22E-05	4.47E-05	MORC3	MORC fami protein_co	21	36320189	36386148	1	q22.12
ENSG00000145817	0.4383	1.355	0.0035	0.009	YIPF5	Yip1 domai protein_co	5	1.44E+08	1.44E+08	-1	q31.3
ENSG00000145365	0.4381	1.3548	0.0004	0.0013	TIFA	TRAF-inter protein_co	4	1.12E+08	1.12E+08	-1	q25
ENSG00000120053	0.4379	1.3546	6.03E-06	2.29E-05	GOT1	glutamic-o protein_co	10	99396870	99430624	-1	q24.2
ENSG00000205629	0.4378	1.3545	9.48E-07	3.95E-06	LCMT1	leucine carl protein_co	16	25111729	25178231	1	p12.1
ENSG00000171103	0.4368	1.3536	9.48E-06	3.52E-05	TRMT61B	tRNA meth protein_co	2	28849821	28870301	-1	p23.2
ENSG00000160948	0.4364	1.3533	1.43E-06	5.82E-06	VPS28	vacuolar pr protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000151414	0.4358	1.3527	6.98E-05	0.0002	NEK7	NIMA-relat protein_co	1	1.98E+08	1.98E+08	1	q31.3
ENSG00000135829	0.4356	1.3525	2.38E-05	8.45E-05	DHX9	DEAH (Asp- protein_co	1	1.83E+08	1.83E+08	1	q25.3
ENSG00000132424	0.4356	1.3525	0.0021	0.0056	PNISR	PNN-intera protein_co	6	99398051	99425331	-1	q16.2
ENSG00000186480	0.4352	1.3521	0.0093	0.0222	INSIG1	insulin indt protein_co	7	1.55E+08	1.55E+08	1	q36.3
ENSG00000074695	0.435	1.352	0.0008	0.0022	LMAN1	lectin, man protein_co	18	59327823	59359962	-1	q21.32
ENSG00000204152	0.435	1.3519	0.0039	0.0099	TIMM23B	translocase protein_co	10	49942033	49974850	1	q11.23
ENSG00000170473	0.4346	1.3516	0.0001	0.0004	WIBG	within bgcr protein_co	12	55901413	55932618	-1	q13.2
ENSG00000145348	0.4345	1.3515	3.12E-06	1.22E-05	TBCK	TBC1 doma protein_co	4	1.06E+08	1.06E+08	-1	q24
ENSG00000179010	0.4343	1.3513	1.11E-14	9.24E-14	MRFAP1	Morf4 fami protein_co	4	6640091	6642745	1	p16.1
ENSG00000138794	0.4341	1.3511	2.80E-05	9.82E-05	CASP6	caspase 6, ; protein_co	4	1.1E+08	1.1E+08	-1	q25
ENSG00000169609	0.4339	1.3509	0.0004	0.0012	C15orf40	chromoson protein_co	15	82988441	83011641	-1	q25.2
ENSG00000163807	0.4337	1.3507	4.56E-05	0.0002	KIAA1143	KIAA1143 [ protein_co	3	44737661	44761662	-1	p21.31
ENSG00000163389	0.4335	1.3505	0.0074	0.0179	POGLUT1	protein O-g protein_co	3	1.19E+08	1.19E+08	1	q13.33
ENSG00000064703	0.4334	1.3504	4.99E-07	2.14E-06	DDX20	DEAD (Asp- protein_co	1	1.12E+08	1.12E+08	1	p13.2
ENSG00000139624	0.4327	1.3497	4.89E-06	1.88E-05	CERS5	ceramide s protein_co	12	50129306	50167533	-1	q13.12
ENSG00000215251	0.432	1.3491	8.54E-09	4.30E-08	FASTKD5	FAST kinase protein_co	20	3146519	3159897	-1	p13

ENSG00000094914	0.4318	1.3489	1.80E-06	7.27E-06	AAAS	achalasia, $\epsilon$ protein_co	12	53307456	53324864	-1	q13.13
ENSG00000102038	0.4318	1.3489	0.0013	0.0036	SMARCA1	SWI/SNF re protein_co X		1.29E+08	1.3E+08	-1	q26.1
ENSG00000147439	0.4317	1.3488	6.60E-05	0.0002	BIN3	bridging int protein_co	8	22620418	22669148	-1	p21.3
ENSG00000108666	0.4316	1.3487	0.0034	0.0087	C17orf75	chromoson protein_co	17	32324565	32350023	-1	q11.2
ENSG00000165983	0.4306	1.3478	0.0002	0.0006	PTER	phosphotri protein_co	10	16436943	16513745	1	p13
ENSG00000116668	0.43	1.3472	0.0082	0.0198	SWT1	SWT1 RNA protein_co	1	1.85E+08	1.85E+08	1	q25.3
ENSG00000073910	0.4298	1.347	0.0077	0.0187	FRY	furry homo protein_co	13	32031300	32299122	1	q13.1
ENSG00000082996	0.4296	1.3469	0.0005	0.0016	RNF13	ring finger   protein_co	3	1.5E+08	1.5E+08	1	q25.1
ENSG00000127445	0.4296	1.3469	0.0012	0.0034	PIN1	peptidylprc protein_co	19	9835257	9849682	1	p13.2
ENSG00000188428	0.4296	1.3468	0.0007	0.0021	BLOC1S5	biogenesis protein_co	6	8013567	8064414	-1	p24.3
ENSG00000112167	0.4294	1.3467	5.79E-05	0.0002	SAYS1	SAYS1 protein_co	6	39104064	39115189	-1	p21.2
ENSG00000162441	0.4291	1.3464	5.72E-05	0.0002	LZIC	leucine zip1 protein_co	1	9922113	9943407	-1	p36.22
ENSG00000128059	0.429	1.3463	0.0013	0.0035	PPAT	phosphorit protein_co	4	56393362	56435615	-1	q12
ENSG00000060339	0.4287	1.3461	3.87E-11	2.40E-10	CCAR1	cell divisior protein_co	10	68721012	68792377	1	q21.3
ENSG00000128294	0.4288	1.3461	0.0002	0.0006	TPST2	tyrosylprot protein_co	22	26525492	26596717	-1	q12.1
ENSG00000109790	0.4282	1.3456	0.0135	0.031	KLHL5	kelch-like f; protein_co	4	39045039	39126857	1	p14
ENSG00000228300	0.4281	1.3455	0.0002	0.0006	C19orf24	chromoson protein_co	19	1275438	1279249	1	p13.3
ENSG00000133706	0.428	1.3454	4.48E-06	1.73E-05	LARS	leucyl-tRNA <sup>f</sup> protein_co	5	1.46E+08	1.46E+08	-1	q32
ENSG00000131127	0.4279	1.3453	0.0029	0.0077	ZNF141	zinc finger   protein_co	4	337814	384864	1	p16.3
ENSG00000143643	0.4275	1.3449	0.0019	0.005	TTC13	tetratricop protein_co	1	2.31E+08	2.31E+08	-1	q42.2
ENSG00000131116	0.4274	1.3448	2.14E-05	7.64E-05	ZNF428	zinc finger   protein_co	19	43607219	43619874	-1	q13.31
ENSG00000133818	0.4274	1.3448	0.0009	0.0026	RRAS2	related RA <sup>s</sup> protein_co	11	14277926	14364506	-1	p15.2
ENSG00000023318	0.4269	1.3443	5.00E-05	0.0002	ERP44	endoplasm protein_co	9	99979179	1E+08	-1	q31.1
ENSG00000105793	0.4267	1.3442	2.27E-05	8.07E-05	GTPBP10	GTP-binding protein_co	7	90335223	90391455	1	q21.13
ENSG00000164896	0.4265	1.344	8.18E-07	3.44E-06	FASTK	Fas-activat protein_co	7	1.51E+08	1.51E+08	-1	q36.1
ENSG00000005022	0.4263	1.3438	0.0011	0.003	SLC25A5	solute carri protein_co X		1.19E+08	1.19E+08	1	q24
ENSG00000215021	0.4262	1.3437	0.0028	0.0073	PHB2	prohibitin 2 protein_co	12	6965327	6970825	-1	p13.31
ENSG00000170545	0.426	1.3435	0.0002	0.0006	SMAGP	small cell a protein_co	12	51244558	51270890	-1	q13.13
ENSG00000164366	0.4258	1.3433	1.56E-06	6.34E-06	CCDC127	coiled-coil   protein_co	5	196871	218215	-1	p15.33
ENSG00000257365	0.4257	1.3432	0.0129	0.0298	FNTB	farnesyltra protein_co	14	64986720	65062652	1	q23.3
ENSG00000179218	0.4255	1.3431	0.0082	0.0198	CALR	calreticulin protein_co	19	12938578	12944489	1	p13.13
ENSG00000196083	0.4248	1.3424	0.0005	0.0015	IL1RAP	interleukin protein_co	3	1.91E+08	1.91E+08	1	q28
ENSG00000134287	0.4247	1.3423	7.32E-07	3.09E-06	ARF3	ADP-ribosy protein_co	12	48935723	48957551	-1	q13.12
ENSG00000167637	0.4246	1.3422	0.0038	0.0098	ZNF283	zinc finger   protein_co	19	43827292	43852017	1	q13.31
ENSG00000112335	0.4244	1.342	8.06E-06	3.02E-05	SNX3	sorting nex protein_co	6	1.08E+08	1.08E+08	-1	q21
ENSG00000041802	0.424	1.3416	0.0001	0.0004	LSG1	large 60S s1 protein_co	3	1.95E+08	1.95E+08	-1	q29
ENSG00000131115	0.4238	1.3415	0.0002	0.0008	ZNF227	zinc finger   protein_co	19	44207547	44237268	1	q13.31
ENSG00000166189	0.4232	1.3409	0.0002	0.0007	HPS6	Hermansky protein_co	10	1.02E+08	1.02E+08	1	q24.32
ENSG00000117758	0.4229	1.3406	1.77E-09	9.53E-09	STX12	syntaxin 12 protein_co	1	27773183	27824452	1	p35.3
ENSG00000164463	0.4229	1.3406	0.0078	0.0188	CREBRF	CREB3 regu protein_co	5	1.73E+08	1.73E+08	1	q35.1
ENSG00000139233	0.4227	1.3404	2.02E-05	7.24E-05	LLPH	LLP homolc protein_co	12	66116555	66130768	-1	q14.3

ENSG0000048544	0.4223	1.3401	1.04E-06	4.32E-06	MRPS10	mitochondi protein_co	6	42206801	42217865	-1	p21.1
ENSG00000115998	0.4211	1.339	0.0012	0.0034	C2orf42	chromoson protein_co	2	70149880	70248615	-1	p13.3
ENSG00000050344	0.4211	1.3389	0.0113	0.0264	NFE2L3	nuclear fac protein_co	7	26152240	26187125	1	p15.2
ENSG00000145687	0.4209	1.3388	0.005	0.0125	SSBP2	single-strar protein_co	5	81413021	81751797	-1	q14.1
ENSG00000198440	0.4206	1.3384	0.0158	0.0357	ZNF583	zinc finger   protein_co	19	56397966	56436035	1	q13.43
ENSG00000167460	0.4203	1.3382	0.0185	0.0411	TPM4	tropomyos protein_co	19	16067021	16103005	1	p13.12
ENSG00000016402	0.4199	1.3378	8.43E-06	3.15E-05	IL20RA	interleukin protein_co	6	1.37E+08	1.37E+08	-1	q23.3
ENSG00000225630	0.4191	1.337	0.0119	0.0276	MTND2P28	MT-ND2 ps unprocesse	1	629640	630683	1	p36.33
ENSG00000164609	0.4189	1.3369	8.63E-06	3.22E-05	SLU7	SLU7 splicir protein_co	5	1.6E+08	1.6E+08	-1	q33.3
ENSG00000186300	0.4189	1.3369	0.0014	0.0039	ZNF555	zinc finger   protein_co	19	2841435	2860484	1	p13.3
ENSG00000198040	0.4187	1.3368	7.30E-05	0.0002	ZNF84	zinc finger   protein_co	12	1.33E+08	1.33E+08	1	q24.33
ENSG00000114353	0.4188	1.3368	0.0023	0.0061	GNAI2	guanine nu protein_co	3	50226292	50259355	1	p21.31
ENSG00000160799	0.4186	1.3366	0.0216	0.0473	CCDC12	coiled-coil (protein_co	3	46921726	46982010	-1	p21.31
ENSG00000130313	0.4185	1.3365	3.90E-08	1.86E-07	PGLS	6-phospho  protein_co	19	17511629	17521288	1	p13.11
ENSG00000276234	0.4182	1.3363	0.0087	0.0207	TADA2A	transcriptic protein_co	17	37406874	37479730	1	q12
ENSG00000023572	0.4179	1.336	0.0057	0.0143	GLRX2	glutaredoxi protein_co	1	1.93E+08	1.93E+08	-1	q31.2
ENSG00000175455	0.4177	1.3358	0.0025	0.0066	CCDC14	coiled-coil (protein_co	3	1.24E+08	1.24E+08	-1	q21.1
ENSG00000165526	0.4174	1.3356	0.0009	0.0025	RPUSD4	RNA pseud protein_co	11	1.26E+08	1.26E+08	-1	q24.2
ENSG00000102007	0.4174	1.3355	0.0015	0.0041	PLP2	proteolipid protein_co X		49171926	49175239	1	p11.23
ENSG00000101442	0.4171	1.3353	0.0042	0.0107	ACTR5	ARP5 actin-protein_co	20	38748442	38772520	1	q11.23
ENSG00000138686	0.4172	1.3353	0.0051	0.0128	BBS7	Bardet-Bier protein_co	4	1.22E+08	1.22E+08	-1	q27
ENSG00000255302	0.4169	1.3351	0.0037	0.0094	EID1	EP300 inter protein_co	15	48877886	48880183	1	q21.1
ENSG00000219545	0.4168	1.335	0.0024	0.0064	UMAD1	UBAP1-MV protein_co	7	7640711	8004059	1	p21.3
ENSG00000130150	0.4167	1.3349	0.0019	0.0051	MOSPD2	motile sper protein_co X		14873441	14922327	1	p22.2
ENSG00000115364	0.4167	1.3348	9.12E-07	3.81E-06	MRPL19	mitochondi protein_co	2	75646783	75690851	1	p12
ENSG00000130234	0.4163	1.3345	0.0153	0.0348	ACE2	angiotensir protein_co X		15561033	15602148	-1	p22.2
ENSG00000188529	0.4153	1.3336	1.44E-06	5.89E-06	SRSF10	serine/argii protein_co	1	23964804	23980927	-1	p36.11
ENSG00000127554	0.4149	1.3332	0.0007	0.0021	GFER	growth fact protein_co	16	1984207	1987749	1	p13.3
ENSG00000166225	0.4144	1.3328	7.50E-05	0.0003	FRS2	fibroblast g protein_co	12	69470349	69579789	1	q15
ENSG00000196417	0.4141	1.3325	0.0016	0.0044	ZNF765	zinc finger   protein_co	19	53389793	53430413	1	q13.42
ENSG00000168438	0.414	1.3324	1.90E-06	7.66E-06	CDC40	cell divisior protein_co	6	1.1E+08	1.1E+08	1	q21
ENSG00000196911	0.4141	1.3324	0.0223	0.0487	KPNA5	karyopherii protein_co	6	1.17E+08	1.17E+08	1	q22.1
ENSG00000173451	0.4133	1.3317	0.0203	0.0449	THAP2	THAP doma protein_co	12	71663009	71680639	1	q21.1
ENSG00000144224	0.4132	1.3316	5.19E-10	2.92E-09	UBXN4	UBX domai protein_co	2	1.36E+08	1.36E+08	1	q21.3
ENSG00000067533	0.4126	1.3311	8.82E-05	0.0003	RRP15	ribosomal f protein_co	1	2.18E+08	2.18E+08	1	q41
ENSG00000141698	0.4127	1.3311	0.0036	0.0093	NT5C3B	5'-nucleoti protein_co	17	41825181	41836263	-1	q21.2
ENSG00000164695	0.4124	1.3309	1.60E-06	6.53E-06	CHMP4C	charged m  protein_co	8	81732434	81759515	1	q21.13
ENSG00000108465	0.4121	1.3307	6.23E-05	0.0002	CDK5RAP3	CDK5 regul protein_co	17	47967810	47981774	1	q21.32
ENSG00000170634	0.4119	1.3305	0.0002	0.0007	ACYP2	acylphosph protein_co	2	53970838	54305300	1	p16.2
ENSG00000100462	0.4119	1.3304	0.011	0.0258	PRMT5	protein arg protein_co	14	22920511	22929585	-1	q11.2
ENSG00000142230	0.4117	1.3303	2.61E-09	1.38E-08	SAE1	SUMO1 act protein_co	19	47113274	47210636	1	q13.32

ENSG00000114541	0.4116	1.3302	6.31E-06	2.39E-05	FRMD4B	FERM dom. protein_co	3	69169990	69542583	-1	p14.1
ENSG00000240682	0.4113	1.3299	0.0011	0.0032	ISY1	ISY1 splicin protein_co	3	1.29E+08	1.29E+08	-1	q21.3
ENSG00000135164	0.4108	1.3294	0.0006	0.0017	DMTF1	cyclin D bin protein_co	7	87152361	87196337	1	q21.12
ENSG00000145833	0.41	1.3287	3.16E-06	1.24E-05	DDX46	DEAD (Asp- protein_co	5	1.35E+08	1.35E+08	1	q31.1
ENSG00000181704	0.4097	1.3284	2.88E-06	1.14E-05	YIPF6	Yip1 domai protein_co X		68498323	68537285	1	q12
ENSG00000166004	0.4096	1.3284	0.0001	0.0005	CEP295	centrosom; protein_co	11	93661639	93730358	1	q21
ENSG00000138629	0.4096	1.3283	1.60E-05	5.79E-05	UBL7	ubiquitin-lii protein_co	15	74445977	74461182	-1	q24.1
ENSG00000103356	0.4095	1.3282	6.13E-05	0.0002	EARS2	glutamyl-tF protein_co	16	23522014	23557731	-1	p12.2
ENSG00000115966	0.4094	1.3282	0.0003	0.0009	ATF2	activating t protein_co	2	1.75E+08	1.75E+08	-1	q31.1
ENSG00000154274	0.4095	1.3282	0.0092	0.022	C4orf19	chromoson protein_co	4	37453941	37623495	1	p14
ENSG00000164073	0.4092	1.328	0.0005	0.0013	MFSD8	major facili protein_co	4	1.28E+08	1.28E+08	-1	q28.2
ENSG00000230124	0.409	1.3278	2.72E-06	1.08E-05	LHX4-AS1	LHX4 antiseprotein_co	1	1.8E+08	1.81E+08	-1	q25.3
ENSG00000151348	0.4089	1.3276	0.0079	0.019	EXT2	exostosin g protein_co	11	44095549	44245429	1	p11.2
ENSG00000137656	0.4086	1.3274	0.0162	0.0366	BUD13	BUD13 hon protein_co	11	1.17E+08	1.17E+08	-1	q23.3
ENSG00000133739	0.4075	1.3264	0.0136	0.0312	LRRCC1	leucine rich protein_co	8	85107147	85146076	1	q21.2
ENSG00000204713	0.4072	1.3261	4.65E-10	2.63E-09	TRIM27	tripartite rr protein_co	6	28903002	28923989	-1	p22.1
ENSG00000143870	0.4072	1.3261	0.0008	0.0023	PDIA6	protein disiprotein_co	2	10783391	10837977	-1	p25.1
ENSG00000139323	0.407	1.3259	0.0012	0.0034	POC1B	POC1 centr protein_co	12	89419718	89526024	-1	q21.33
ENSG00000083312	0.4069	1.3258	0.0007	0.0021	TNPO1	transportin protein_co	5	72816312	72916733	1	q13.2
ENSG00000232677	0.4069	1.3258	0.0102	0.0242	LINC00665	long interg;lincRNA	19	36313067	36331718	-1	q13.12
ENSG00000225921	0.4063	1.3253	3.50E-09	1.83E-08	NOL7	nucleolar p protein_co	6	13615327	13632739	1	p23
ENSG00000048140	0.4062	1.3252	6.40E-06	2.42E-05	TSPAN17	tetraspanir protein_co	5	1.77E+08	1.77E+08	1	q35.2
ENSG00000105676	0.406	1.325	0.0014	0.004	ARMC6	armadillo r protein_co	19	19033575	19060311	1	p13.11
ENSG00000183621	0.4059	1.3249	0.0133	0.0305	ZNF438	zinc finger   protein_co	10	30820207	31031937	-1	p11.23
ENSG00000162616	0.4054	1.3245	0.0136	0.0313	DNAJB4	DnaJ (Hsp4 protein_co	1	77979175	78017964	1	p31.1
ENSG00000108061	0.4053	1.3244	2.30E-08	1.12E-07	SHOC2	soc-2 suppi protein_co	10	1.11E+08	1.11E+08	1	q25.2
ENSG00000204899	0.4053	1.3243	0.0017	0.0046	MZT1	mitotic spir protein_co	13	72708357	72727687	-1	q21.33
ENSG00000146232	0.405	1.3241	0.0217	0.0474	NFKBIE	nuclear fac protein_co	6	44258166	44265788	-1	p21.1
ENSG00000070540	0.4048	1.3239	0.0012	0.0033	WIP1	WD repeat protein_co	17	68420948	68457513	-1	q24.2
ENSG00000172183	0.4048	1.3239	0.0048	0.0121	ISG20	interferon : protein_co	15	88636153	88656483	1	q26.1
ENSG00000165410	0.4047	1.3238	0.0056	0.014	CFL2	cofilin 2 (m protein_co	14	34706769	34714823	-1	q13.1
ENSG00000170571	0.4041	1.3233	0.0096	0.0227	EMB	embigin [Sc protein_co	5	50396192	50443248	-1	q11.1
ENSG00000205707	0.4033	1.3225	0.0096	0.0228	LYRM5	LYR motif c protein_co	12	25195216	25209645	1	p12.1
ENSG00000118412	0.4028	1.3221	0.0004	0.0012	CASP8AP2	caspase 8 a protein_co	6	89829894	89874436	1	q15
ENSG00000113456	0.4023	1.3217	0.0001	0.0004	RAD1	RAD1 checl protein_co	5	34905264	34918989	-1	p13.2
ENSG00000169371	0.4021	1.3215	0.0008	0.0023	SNUPN	snurportin protein_co	15	75598083	75626469	-1	q24.2
ENSG00000174177	0.402	1.3213	0.0154	0.035	CTU2	cytosolic th protein_co	16	88706463	88715386	1	q24.3
ENSG00000128050	0.4017	1.3211	5.66E-05	0.0002	PAICS	phosphorit protein_co	4	56435741	56461368	1	q12
ENSG00000253710	0.4018	1.3211	0.001	0.0028	ALG11	ALG11, alpl protein_co	13	52012398	52029664	1	q14.3
ENSG00000136100	0.4014	1.3208	1.32E-06	5.39E-06	VPS36	vacuolar pr protein_co	13	52412602	52450628	-1	q14.3
ENSG00000102805	0.4011	1.3205	0.0069	0.0168	CLN5	ceroid-lipoi protein_co	13	76990660	77002517	1	q22.3

ENSG00000204392	0.401	1.3204	0.0004	0.0011	LSM2	LSM2 hom (protein_co	6	31797396	31806984	-1	p21.33
ENSG00000196981	0.4009	1.3203	0.0223	0.0487	WDR5B	WD repeat protein_co	3	1.22E+08	1.22E+08	-1	q21.1
ENSG00000198346	0.4003	1.3198	0.0023	0.0062	ZNF813	zinc finger   protein_co	19	53467735	53496255	1	q13.42
ENSG00000112367	0.4	1.3195	8.51E-06	3.18E-05	FIG4	FIG4 phosp protein_co	6	1.1E+08	1.1E+08	1	q21
ENSG00000038210	0.3996	1.3191	0.0016	0.0044	PI4K2B	phosphatid protein_co	4	25160641	25279092	1	p15.2
ENSG00000267680	0.3996	1.3191	0.0021	0.0056	ZNF224	zinc finger   protein_co	19	44094339	44109886	1	q13.31
ENSG00000170632	0.3994	1.319	5.94E-06	2.26E-05	ARMC10	armadillo r protein_co	7	1.03E+08	1.03E+08	1	q22.1
ENSG00000198393	0.3994	1.3189	0.0018	0.0049	ZNF26	zinc finger   protein_co	12	1.33E+08	1.33E+08	1	q24.33
ENSG00000167384	0.3993	1.3189	0.0027	0.0072	ZNF180	zinc finger   protein_co	19	44475637	44500524	-1	q13.31
ENSG00000149636	0.3986	1.3182	0.0101	0.0238	DSN1	DSN1, MIS: protein_co	20	36751791	36773818	-1	q11.23
ENSG00000011132	0.3983	1.318	0.0031	0.0079	APBA3	amyloid be protein_co	19	3750819	3761699	-1	p13.3
ENSG00000166266	0.3982	1.3179	2.78E-05	9.76E-05	CUL5	cullin 5 [So protein_co	11	1.08E+08	1.08E+08	1	q22.3
ENSG00000116977	0.3981	1.3178	0.0045	0.0114	LGALS8	lectin, gala protein_co	1	2.37E+08	2.37E+08	1	q43
ENSG00000048392	0.3982	1.3178	0.0139	0.0317	RRM2B	ribonucleo protein_co	8	1.02E+08	1.02E+08	-1	q22.3
ENSG00000237523	0.3974	1.3172	0.0141	0.0323	LINC00857	long interg lincRNA	10	80207710	80219657	1	q22.3
ENSG00000135316	0.3972	1.317	8.20E-11	4.97E-10	SYNCRIP	synaptotag protein_co	6	85607785	85643792	-1	q14.3
ENSG00000112763	0.397	1.3168	0.0052	0.0131	BTN2A1	butyrophili protein_co	6	26457904	26476621	1	p22.2
ENSG00000069248	0.397	1.3167	0.0001	0.0004	NUP133	nucleoporii protein_co	1	2.29E+08	2.3E+08	-1	q42.13
ENSG00000089248	0.3964	1.3163	5.75E-06	2.19E-05	ERP29	endoplasm protein_co	12	1.12E+08	1.12E+08	1	q24.13
ENSG00000142409	0.3964	1.3162	0.0001	0.0004	ZNF787	zinc finger   protein_co	19	56087366	56121280	-1	q13.43
ENSG00000145241	0.3954	1.3153	9.95E-05	0.0003	CENPC	centromer protein_co	4	67471803	67545606	-1	q13.2
ENSG00000165533	0.3947	1.3146	0.0021	0.0057	TTC8	tetratricop protein_co	14	88824153	88881078	1	q31.3
ENSG00000165516	0.3944	1.3144	0.0004	0.0011	KLHDC2	kelch doma protein_co	14	49767608	49786385	1	q21.3
ENSG00000177917	0.3944	1.3144	0.0059	0.0146	ARL6IP6	ADP-ribosy protein_co	2	1.53E+08	1.53E+08	1	q23.3
ENSG00000114745	0.3942	1.3142	1.92E-05	6.88E-05	GORASP1	golgi reass protein_co	3	39096659	39108363	-1	p22.2
ENSG00000158019	0.3937	1.3138	2.19E-05	7.81E-05	BRE	brain and r protein_co	2	27889941	28338901	1	p23.2
ENSG00000123124	0.3937	1.3137	0.0007	0.0021	WWP1	WW domai protein_co	8	86342738	86478420	1	q21.3
ENSG00000198498	0.3932	1.3133	0.0087	0.0209	TMA16	translation protein_co	4	1.63E+08	1.64E+08	1	q32.2
ENSG00000167671	0.393	1.3131	2.32E-08	1.12E-07	UBXN6	UBX domai protein_co	19	4444999	4457822	-1	p13.3
ENSG00000116001	0.3928	1.3129	0.0096	0.0227	TIA1	TIA1 cytotc protein_co	2	70209444	70248660	-1	p13.3
ENSG00000172340	0.3926	1.3128	0.0008	0.0023	SUCLG2	succinate-C protein_co	3	67360460	67654614	-1	p14.1
ENSG00000123106	0.3922	1.3124	1.97E-05	7.05E-05	CCDC91	coiled-coil (protein_co	12	28133249	28581511	1	p11.22
ENSG00000141971	0.392	1.3122	0.0003	0.0009	MVB12A	multivesicu protein_co	19	17405722	17433724	1	p13.11
ENSG00000100263	0.392	1.3122	0.0025	0.0065	RHBDD3	rhomboid c protein_co	22	29259852	29268209	-1	q12.2
ENSG00000107745	0.3918	1.312	1.46E-06	5.95E-06	MICU1	mitochondi protein_co	10	72367327	72626191	-1	q22.1
ENSG00000172936	0.3917	1.3119	3.31E-07	1.44E-06	MYD88	myeloid dif protein_co	3	38138478	38143022	1	p22.2
ENSG00000168496	0.3915	1.3117	0.0157	0.0355	FEN1	flap structu protein_co	11	61792637	61797244	1	q12.2
ENSG00000141424	0.3909	1.3112	0.0114	0.0266	SLC39A6	solute carri protein_co	18	36108532	36129385	-1	q12.2
ENSG00000101574	0.3907	1.3111	0.0035	0.009	METTL4	methyltran protein_co	18	2537525	2571509	-1	p11.33
ENSG00000135845	0.3907	1.311	4.06E-06	1.58E-05	PIGC	phosphatid protein_co	1	1.72E+08	1.72E+08	-1	q24.3
ENSG00000130347	0.3907	1.311	0.0098	0.0232	RTN4IP1	reticulon 4 protein_co	6	1.07E+08	1.07E+08	-1	q21



ENSG00000198862	0.3906	1.3109	0.0045	0.0114	LTN1	listerin E3 (protein_co	21	28928144	28992956	-1	q21.3
ENSG00000174718	0.3898	1.3102	0.0027	0.0072	KIAA1551	KIAA1551 (protein_co	12	31959370	31993107	1	p11.21
ENSG00000111727	0.3897	1.3101	0.0007	0.002	HCFC2	host cell factor protein_co	12	1.04E+08	1.04E+08	1	q23.3
ENSG00000088682	0.3896	1.31	0.001	0.0027	COQ9	coenzyme (protein_co	16	57447425	57461275	1	q21
ENSG00000174564	0.3892	1.3097	0.0027	0.0072	IL20RB	interleukin protein_co	3	1.37E+08	1.37E+08	1	q22.3
ENSG00000120519	0.3892	1.3097	0.0063	0.0155	SLC10A7	solute carrier protein_co	4	1.46E+08	1.47E+08	-1	q31.22
ENSG00000177981	0.388	1.3086	0.0002	0.0006	ASB8	ankyrin repeat protein_co	12	48147788	48181213	-1	q13.11
ENSG00000096063	0.388	1.3086	0.0002	0.0007	SRPK1	SRSF protein protein_co	6	35832966	35921342	-1	p21.31
ENSG00000110429	0.3881	1.3086	0.0003	0.001	FBXO3	F-box protein protein_co	11	33740939	33774543	-1	p13
ENSG00000090487	0.3879	1.3085	2.58E-12	1.77E-11	SPG21	spastic paraprotein_co	15	64963021	64990310	-1	q22.31
ENSG00000136824	0.3879	1.3085	0.0073	0.0178	SMC2	structural protein_co	9	1.04E+08	1.04E+08	1	q31.1
ENSG00000116863	0.3874	1.3081	0.0004	0.0011	ADPRHL2	ADP-ribosyl protein_co	1	36088875	36093932	1	p34.3
ENSG00000120334	0.3875	1.3081	0.0192	0.0426	CENPL	centromere protein_co	1	1.74E+08	1.74E+08	-1	q25.1
ENSG00000100296	0.3871	1.3078	2.45E-05	8.68E-05	THOC5	THO complex protein_co	22	29505879	29555216	-1	q12.2
ENSG00000068784	0.3865	1.3072	0.0016	0.0044	SRBD1	S1 RNA binding protein_co	2	45388680	45612165	-1	p21
ENSG00000147789	0.3865	1.3072	0.003	0.0077	ZNF7	zinc finger protein_co	8	1.45E+08	1.45E+08	1	q24.3
ENSG00000140375	0.3861	1.3068	7.00E-05	0.0002	STK3	serine/threonine protein_co	8	98401403	98942827	-1	q22.2
ENSG00000168591	0.3857	1.3065	0.0002	0.0005	TMUB2	transmembrane protein_co	17	44186970	44191731	1	q21.31
ENSG00000148090	0.3854	1.3062	0.0002	0.0006	AUH	AU RNA binding protein_co	9	91213815	91361913	-1	q22.31
ENSG00000148154	0.3846	1.3055	0.0022	0.0059	UGCG	UDP-glucosyl protein_co	9	1.12E+08	1.12E+08	1	q31.3
ENSG00000164654	0.3842	1.3052	3.92E-06	1.52E-05	MIOS	missing open reading frame protein_co	7	7566872	7608929	1	p21.3
ENSG00000185104	0.3839	1.3049	0.0082	0.0198	FAF1	Fas (TNFRS) protein_co	1	50439478	50960263	-1	p32.3
ENSG00000109220	0.3835	1.3045	0.0072	0.0175	CHIC2	cysteine-rich protein_co	4	54009789	54064690	-1	q12
ENSG00000128699	0.3833	1.3043	0.0076	0.0185	ORMDL1	ORMDL1 splicing protein_co	2	1.9E+08	1.9E+08	-1	q32.2
ENSG00000070190	0.3828	1.3039	0.0009	0.0026	DAPP1	dual adaptor protein_co	4	99816833	99870154	1	q23
ENSG00000115234	0.3828	1.3038	2.23E-07	9.89E-07	SNX17	sorting nexin protein_co	2	27370496	27377533	1	p23.3
ENSG00000102575	0.3823	1.3034	0.0067	0.0164	ACP5	acid phospholipid protein_co	19	11574660	11579008	-1	p13.2
ENSG00000261338	0.382	1.3031	0.0039	0.0099	RP11-378A13.1	sense overlap	2	2.18E+08	2.18E+08	1	q35
ENSG00000066422	0.3817	1.3029	0.0002	0.0007	ZBTB11	zinc finger protein_co	3	1.02E+08	1.02E+08	-1	q12.3
ENSG00000130921	0.3815	1.3027	0.0034	0.0087	C12orf65	chromosome protein_co	12	1.23E+08	1.23E+08	1	q24.31
ENSG00000132434	0.3812	1.3024	7.24E-06	2.73E-05	LANCL2	LanC lantibiotic protein_co	7	55365448	55433742	1	p11.2
ENSG00000151914	0.3804	1.3017	0.0066	0.0161	DST	dystonin [S] protein_co	6	56457987	56954628	-1	p12.1
ENSG00000119888	0.3797	1.3011	0.0014	0.0038	EPCAM	epithelial cell protein_co	2	47345158	47387601	1	p21
ENSG00000144306	0.3796	1.301	0.0001	0.0004	SCRN3	secernin 3 protein_co	2	1.74E+08	1.74E+08	1	q31.1
ENSG00000211456	0.3792	1.3006	4.05E-06	1.57E-05	SACM1L	SAC1 suppressor protein_co	3	45689056	45745424	1	p21.31
ENSG00000172977	0.3776	1.2991	2.88E-05	0.0001	KAT5	K(lysine) acetyl protein_co	11	65711996	65719604	1	q13.1
ENSG00000136271	0.3773	1.2989	8.30E-06	3.11E-05	DDX56	DEAD (Asp-) protein_co	7	44565417	44575051	-1	p13
ENSG00000141295	0.3771	1.2987	0.0004	0.0013	SCRN2	secernin 2 protein_co	17	47837692	47841333	-1	q21.32
ENSG00000111269	0.3769	1.2985	0.0003	0.0008	CREBL2	cAMP response protein_co	12	12611827	12645108	1	p13.1
ENSG00000138780	0.3766	1.2983	0.0011	0.0032	GSTCD	glutathione protein_co	4	1.06E+08	1.06E+08	1	q24
ENSG00000103550	0.3761	1.2978	8.06E-07	3.39E-06	KNOP1	lysine-rich protein_co	16	19701934	19718235	-1	p12.3



ENSG00000158773	0.3759	1.2976	1.96E-06	7.87E-06	USF1	upstream t protein_co	1	1.61E+08	1.61E+08	-1	q23.3
ENSG00000119285	0.3757	1.2974	6.99E-05	0.0002	HEATR1	HEAT repeat protein_co	1	2.37E+08	2.37E+08	-1	q43
ENSG00000083750	0.3756	1.2974	0.0014	0.0038	RRAGB	Ras-related protein_co X		55717739	55758774	1	p11.21
ENSG00000138434	0.3754	1.2972	0.015	0.0341	SSFA2	sperm spec protein_co	2	1.82E+08	1.82E+08	1	q31.3
ENSG00000160058	0.3751	1.2969	0.0004	0.0012	BSDC1	BSD domain protein_co	1	32365103	32394731	-1	p35.1
ENSG00000124786	0.3744	1.2963	0.0003	0.0009	SLC35B3	solute carrier protein_co	6	8413068	8435483	-1	p24.3
ENSG00000081177	0.3744	1.2963	0.0009	0.0027	EXD2	exonuclease protein_co	14	69191511	69244020	1	q24.1
ENSG00000101189	0.3739	1.2959	0.0177	0.0396	MIRGBP	MIRG/MOR protein_co	20	62796453	62801738	1	q13.33
ENSG00000110492	0.3723	1.2944	0.0097	0.0229	MDK	midkine (n) protein_co	11	46380756	46383837	1	p11.2
ENSG00000171469	0.372	1.2942	6.62E-09	3.38E-08	ZNF561	zinc finger protein_co	19	9604680	9621399	-1	p13.2
ENSG00000157916	0.3716	1.2938	5.97E-08	2.80E-07	RER1	retention in protein_co	1	2391775	2405444	1	p36.32
ENSG00000068001	0.3715	1.2937	0.0131	0.0301	HYAL2	hyaluronoglycan protein_co	3	50317790	50322906	-1	p21.31
ENSG00000164930	0.3714	1.2936	2.16E-05	7.71E-05	FZD6	frizzled class protein_co	8	1.03E+08	1.03E+08	1	q22.3
ENSG00000152942	0.3709	1.2932	0.0011	0.0032	RAD17	RAD17 homolog protein_co	5	69369293	69414801	1	q13.2
ENSG00000174165	0.3693	1.2918	0.001	0.0029	ZDHHC24	zinc finger, protein_co	11	66520637	66546238	-1	q13.2
ENSG00000186104	0.3688	1.2912	0.0205	0.0453	CYP2R1	cytochrome protein_co	11	14877440	14892252	-1	p15.2
ENSG00000046651	0.3682	1.2908	4.29E-06	1.66E-05	OFD1	oral-facial-lingual protein_co X		13734745	13769353	1	p22.2
ENSG00000108423	0.3682	1.2908	0.0045	0.0115	TUBD1	tubulin, delta protein_co	17	59859482	59892945	-1	q23.1
ENSG00000134882	0.3674	1.29	6.67E-07	2.82E-06	UBAC2	UBA domain protein_co	13	99200774	99386434	1	q32.3
ENSG00000183155	0.3673	1.2899	4.85E-05	0.0002	RABIF	RAB interactor protein_co	1	2.03E+08	2.03E+08	-1	q32.1
ENSG00000106443	0.3671	1.2897	0.0002	0.0005	PHF14	PHD finger protein_co	7	10973872	11169623	1	p21.3
ENSG00000071655	0.367	1.2897	0.0006	0.0018	MBD3	methyl-CpG protein_co	19	1573596	1592801	-1	p13.3
ENSG00000063046	0.3662	1.289	0.0116	0.0269	EIF4B	eukaryotic protein_co	12	53006158	53042209	1	q13.13
ENSG00000150977	0.3659	1.2887	0.0016	0.0042	RILPL2	Rab interactor protein_co	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000172057	0.3654	1.2883	0.0004	0.0011	ORMDL3	ORMDL3 protein_co	17	39921041	39927601	-1	q21.1
ENSG00000062370	0.3655	1.2883	0.0022	0.0058	ZNF112	zinc finger protein_co	19	44326555	44367217	-1	q13.31
ENSG00000137814	0.3653	1.2882	0.0001	0.0004	HAUS2	HAUS augmin protein_co	15	42548810	42569994	1	q15.2
ENSG00000092531	0.365	1.2879	2.98E-06	1.17E-05	SNAP23	synaptosomal protein_co	15	42491233	42545356	1	q15.1
ENSG00000151065	0.3647	1.2876	0.001	0.0029	DCP1B	decapping protein_co	12	1946054	2004535	-1	p13.33
ENSG00000137760	0.3644	1.2873	0.0039	0.0099	ALKBH8	alkB, alkylase protein_co	11	1.08E+08	1.08E+08	-1	q22.3
ENSG00000125841	0.3641	1.2871	0.001	0.0027	NRSN2	neurensin 2 protein_co	20	346782	359660	1	p13
ENSG00000124333	0.3641	1.2871	0.003	0.0079	VAMP7	vesicle-associated protein_co X		1.56E+08	1.56E+08	1	q28
ENSG00000125901	0.3638	1.2869	0.0006	0.0018	MRPS26	mitochondrial protein_co	20	3045945	3048254	1	p13
ENSG00000163029	0.3631	1.2862	0.0013	0.0035	SMC6	structural protein_co	2	17663812	17800242	-1	p24.2
ENSG00000115839	0.363	1.2861	0.0001	0.0003	RAB3GAP1	RAB3 GTPase protein_co	2	1.35E+08	1.35E+08	1	q21.3
ENSG00000175895	0.3629	1.286	0.0026	0.0069	PLEKHF2	pleckstrin homology protein_co	8	95133804	95156684	1	q22.1
ENSG00000126777	0.3626	1.2857	1.03E-06	4.28E-06	KTN1	kinectin 1 ( protein_co	14	55559072	55701526	1	q22.3
ENSG00000049769	0.3624	1.2856	0.0075	0.0182	PPP1R3F	protein phosphatase protein_co X		49269843	49301461	1	p11.23
ENSG00000165813	0.3622	1.2854	0.0084	0.0201	CCDC186	coiled-coil protein_co	10	1.14E+08	1.14E+08	-1	q25.3
ENSG00000182534	0.3621	1.2853	0.0004	0.0012	MXRA7	matrix-remodelling protein_co	17	76672551	76711016	-1	q25.1
ENSG00000108094	0.3616	1.2848	1.88E-06	7.57E-06	CUL2	cullin 2 [So] protein_co	10	35008551	35090642	-1	p11.21

ENSG00000245556	0.3615	1.2848	0.0115	0.0269	SCAMP1-AS1	SCAMP1 ar lincRNA	5	78342365	78360507	-1	q14.1
ENSG00000125971	0.361	1.2843	0.0054	0.0134	DYNLRB1	dynein, light protein_co	20	34516409	34540958	1	q11.22
ENSG00000119899	0.3609	1.2842	0.0025	0.0065	SLC17A5	solute carrier protein_co	6	73593379	73654155	-1	q13
ENSG00000184277	0.3604	1.2838	0.0015	0.0042	TM2D3	TM2 domain protein_co	15	1.02E+08	1.02E+08	-1	q26.3
ENSG00000140694	0.3598	1.2832	0.0025	0.0066	PARN	poly(A)-specific protein_co	16	14435701	14632728	-1	p13.12
ENSG00000122490	0.3595	1.283	0.0002	0.0005	PQLC1	PQ loop repeat protein_co	18	79902420	79951664	-1	q23
ENSG00000175793	0.3595	1.283	0.0005	0.0015	SFN	stratiferin [Sc protein_co	1	26863138	26864457	1	p36.11
ENSG00000149269	0.359	1.2826	0.0004	0.0011	PAK1	p21 protein protein_co	11	77321707	77474635	-1	q14.1
ENSG00000174891	0.3583	1.2819	0.0034	0.0087	RSRC1	arginine/specific protein_co	3	1.58E+08	1.59E+08	1	q25.32
ENSG00000167981	0.3582	1.2818	0.0133	0.0305	ZNF597	zinc finger protein_co	16	3432422	3443542	-1	p13.3
ENSG00000119471	0.357	1.2808	0.0055	0.0136	HSDL2	hydroxysteroid protein_co	9	1.12E+08	1.12E+08	1	q32
ENSG00000182628	0.3568	1.2806	0.0033	0.0086	SKA2	spindle anchor protein_co	17	59109951	59155269	-1	q22
ENSG00000101972	0.3556	1.2795	0.0005	0.0015	STAG2	stromal anchor protein_co X		1.24E+08	1.24E+08	1	q25
ENSG00000180423	0.3555	1.2795	0.012	0.0278	HARBI1	harbinger transcript protein_co	11	46602861	46617909	-1	p11.2
ENSG00000165782	0.3552	1.2792	0.0007	0.0021	TMEM55B	transmembrane protein_co	14	20457719	20461612	-1	q11.2
ENSG00000173614	0.3546	1.2786	0.0011	0.003	NMNAT1	nicotinamide protein_co	1	9943428	9985501	1	p36.22
ENSG00000165359	0.3542	1.2783	0.0227	0.0495	DDX26B	DEAD/H (A) protein_co X		1.36E+08	1.36E+08	1	q26.3
ENSG00000110315	0.3542	1.2782	0.0001	0.0003	RNF141	ring finger protein_co	11	10511678	10541230	-1	p15.4
ENSG00000165637	0.3537	1.2778	4.36E-10	2.47E-09	VDAC2	voltage-dependent protein_co	10	75210154	75231448	1	q22.2
ENSG00000232040	0.3533	1.2775	0.0138	0.0315	ZBED9	zinc finger protein_co	6	28571630	28616212	-1	q22.1
ENSG00000090060	0.3523	1.2766	1.19E-08	5.92E-08	PAPOLA	poly(A) polymerase protein_co	14	96501433	96567111	1	q32.2
ENSG00000126945	0.3524	1.2766	7.55E-06	2.83E-05	HNRNPH2	heterogeneous protein_co X		1.01E+08	1.01E+08	1	q22.1
ENSG00000052841	0.3521	1.2764	5.62E-06	2.14E-05	TTC17	tetratricopeptide protein_co	11	43358932	43494933	1	p12
ENSG00000198886	0.3519	1.2762	0.0016	0.0044	MT-ND4	mitochondrial protein_co MT		10760	12137	1	
ENSG00000136908	0.3517	1.2761	0.003	0.0077	DPM2	dolichyl-phosphate protein_co	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000161011	0.3516	1.276	0.0112	0.0261	SQSTM1	sequestosome protein_co	5	1.8E+08	1.8E+08	1	q35.3
ENSG00000110955	0.3513	1.2757	0.0006	0.0018	ATP5B	ATP synthase protein_co	12	56638175	56646068	-1	q13.3
ENSG00000166275	0.3503	1.2748	0.001	0.0029	C10orf32	chromosome protein_co	10	1.03E+08	1.03E+08	1	q24.32
ENSG00000073969	0.3502	1.2747	0.0004	0.0013	NSF	N-ethylmaleimide protein_co	17	46590669	46757464	1	q21.31
ENSG00000245060	0.3498	1.2744	0.0153	0.0347	LINC00847	long intergenic lincRNA	5	1.81E+08	1.81E+08	1	q35.3
ENSG00000162191	0.3496	1.2742	0.0001	0.0005	UBXN1	UBX domain protein_co	11	62676498	62679117	-1	q12.3
ENSG00000170502	0.3495	1.2741	2.09E-06	8.40E-06	NUDT9	nudix (nucleoside diphosphate) protein_co	4	87422582	87459454	1	q22.1
ENSG00000071794	0.3494	1.2741	0.0016	0.0044	HLTF	helicase-like protein_co	3	1.49E+08	1.49E+08	-1	q24
ENSG00000181896	0.349	1.2737	0.0081	0.0196	ZNF101	zinc finger protein_co	19	19668796	19683509	1	p13.11
ENSG00000131375	0.3484	1.2732	0.0003	0.001	CAPN7	calpain 7 [S protein_co	3	15206152	15252918	1	p25.1
ENSG00000164733	0.3485	1.2732	0.0008	0.0024	CTSB	cathepsin E protein_co	8	11842524	11869448	-1	p23.1
ENSG00000160310	0.3484	1.2731	2.30E-10	1.33E-09	PRMT2	protein arginine protein_co	21	46635167	46665124	1	q22.3
ENSG00000156873	0.3483	1.273	0.0008	0.0023	PHKG2	phosphoryl protein_co	16	30748270	30761176	1	p11.2
ENSG00000003400	0.3478	1.2726	0.0001	0.0004	CASP10	caspase 10 protein_co	2	2.01E+08	2.01E+08	1	q33.1
ENSG00000172594	0.3473	1.2721	0.0134	0.0308	SMPDL3A	sphingomyelinase protein_co	6	1.23E+08	1.23E+08	1	q22.31
ENSG00000069974	0.3471	1.272	0.0027	0.0072	RAB27A	RAB27A, membrane protein_co	15	55202966	55319113	-1	q21.3

ENSG00000005436	0.347	1.2719	0.014	0.032	GCFC2	GC-rich seq protein_co	2	75652000	75710989	-1	p12
ENSG00000136146	0.3464	1.2714	9.11E-07	3.81E-06	MED4	mediator c protein_co	13	48053323	48095131	-1	q14.2
ENSG00000127837	0.346	1.271	0.0001	0.0004	AAMP	angio-assor protein_co	2	2.18E+08	2.18E+08	-1	q35
ENSG00000145439	0.346	1.271	0.0004	0.0013	CBR4	carbonyl re protein_co	4	1.69E+08	1.69E+08	-1	q32.3
ENSG00000171135	0.3458	1.2709	0.0003	0.001	JAGN1	jagunal hor protein_co	3	9890554	9894349	1	p25.3
ENSG00000115561	0.3451	1.2703	0.0005	0.0014	CHMP3	charged m protein_co	2	86503430	86620493	-1	p11.2
ENSG00000140563	0.345	1.2701	0.0007	0.0019	MCTP2	multiple C2 protein_co	15	94231538	94483952	1	q26.2
ENSG00000139173	0.3448	1.2699	0.0117	0.0273	TMEM117	transmemt protein_co	12	43835967	44389762	1	q12
ENSG00000104381	0.3442	1.2695	0.0166	0.0374	GDAP1	ganglioside protein_co	8	74321130	74488872	1	q21.11
ENSG00000103274	0.3441	1.2693	0.001	0.0029	NUBP1	nucleotide protein_co	16	10743786	10769351	1	p13.13
ENSG00000186283	0.3438	1.2691	9.33E-08	4.28E-07	TOR3A	torsin famil protein_co	1	1.79E+08	1.79E+08	1	q25.2
ENSG00000196116	0.3435	1.2688	0.0012	0.0034	TDRD7	tudor dom; protein_co	9	97411950	97496125	1	q22.33
ENSG00000071189	0.3432	1.2686	0.0002	0.0007	SNX13	sorting nex protein_co	7	17790761	17940501	-1	p21.1
ENSG00000137171	0.343	1.2684	0.001	0.0027	KLC4	kinesin ligh protein_co	6	43040777	43075099	1	p21.1
ENSG00000076321	0.3426	1.268	0.0004	0.0012	KLHL20	kelch-like fi protein_co	1	1.74E+08	1.74E+08	1	q25.1
ENSG00000110921	0.3425	1.268	0.0032	0.0082	MVK	mevalonat protein_co	12	1.1E+08	1.1E+08	1	q24.11
ENSG00000165389	0.3418	1.2674	0.0079	0.0191	SPTSSA	serine palr protein_co	14	34432789	34462356	-1	q13.1
ENSG00000144455	0.3414	1.267	0.0053	0.0132	SUMF1	sulfatase m protein_co	3	3700814	4467281	-1	p26.1
ENSG00000167740	0.3405	1.2662	0.0011	0.0031	CYB5D2	cytochrom protein_co	17	4143168	4187310	1	p13.2
ENSG00000099246	0.3402	1.266	0.0029	0.0075	RAB18	RAB18, me protein_co	10	27504174	27542237	1	p12.1
ENSG00000136108	0.3398	1.2656	0.0009	0.0025	CKAP2	cytoskeletc protein_co	13	52455429	52476628	1	q14.3
ENSG00000137513	0.3395	1.2653	0.0034	0.0089	NARS2	asparaginy protein_co	11	78435961	78574874	-1	q14.1
ENSG00000104980	0.3393	1.2651	0.0019	0.005	TIMM44	translocase protein_co	19	7926718	7943920	-1	p13.2
ENSG00000017260	0.3393	1.2651	0.0023	0.0061	ATP2C1	ATPase, Ca protein_co	3	1.31E+08	1.31E+08	1	q22.1
ENSG00000170903	0.3393	1.2651	0.0034	0.0088	MSANTD4	Myb/SANT- protein_co	11	1.06E+08	1.06E+08	-1	q22.3
ENSG00000182405	0.3392	1.2651	0.0197	0.0435	PGBD4	piggyBac tr protein_co	15	34102073	34108684	1	q14
ENSG00000100104	0.3385	1.2644	0.001	0.0027	SRRD	SRR1 doma protein_co	22	26483877	26494658	1	q12.1
ENSG00000215039	0.338	1.264	0.0169	0.0381	CD27-AS1	CD27 antis processed_	12	6439001	6451567	-1	p13.31
ENSG00000018510	0.3379	1.2639	0.0014	0.0038	AGPS	alkylglycer protein_co	2	1.77E+08	1.78E+08	1	q31.2
ENSG00000175054	0.3374	1.2635	0.0002	0.0007	ATR	ATR serine, protein_co	3	1.42E+08	1.43E+08	-1	q23
ENSG00000138035	0.3368	1.263	0.0109	0.0256	PNPT1	polyribonu protein_co	2	55634063	55693910	-1	p16.1
ENSG00000213585	0.3363	1.2625	3.29E-07	1.43E-06	VDAC1	voltage-dej protein_co	5	1.34E+08	1.34E+08	-1	q31.1
ENSG00000111641	0.3354	1.2617	0.0008	0.0023	NOP2	NOP2 nucle protein_co	12	6556863	6568691	-1	p13.31
ENSG00000170522	0.3353	1.2616	0.0039	0.01	ELOVL6	ELOVL fatty protein_co	4	1.1E+08	1.1E+08	-1	q25
ENSG00000184281	0.3346	1.261	0.0001	0.0005	TSSC4	tumor sup; protein_co	11	2400488	2403878	1	p15.5
ENSG00000136950	0.3345	1.2609	3.33E-06	1.31E-05	ARPC5L	actin relate protein_co	9	1.25E+08	1.25E+08	1	q33.3
ENSG00000101363	0.3344	1.2608	0.0002	0.0006	MANBAL	mannosida protein_co	20	37289638	37317260	1	q11.23
ENSG00000133393	0.3341	1.2606	5.60E-05	0.0002	FOPNL	FGFR1OP N protein_co	16	15865720	15888625	-1	p13.11
ENSG00000161956	0.3338	1.2603	0.0021	0.0057	SEN3	SUMO1/sei protein_co	17	7561875	7571969	1	p13.1
ENSG00000129084	0.3336	1.2602	0.0025	0.0066	PSMA1	proteasom protein_co	11	14504874	14643635	-1	p15.2
ENSG00000129691	0.333	1.2596	2.05E-06	8.23E-06	ASH2L	ash2 (absei protein_co	8	38105242	38144076	1	p11.23

ENSG00000134899	0.3323	1.259	0.0016	0.0043 ERCC5	excision reprotein_co	13	1.03E+08	1.03E+08	1 q33.1
ENSG00000112685	0.3315	1.2583	2.31E-05	8.21E-05 EXOC2	exocyst cor protein_co	6	485133	693111	-1 p25.3
ENSG00000164631	0.3303	1.2573	0.0025	0.0067 ZNF12	zinc finger   protein_co	7	6688433	6706923	-1 p22.1
ENSG00000181885	0.33	1.2571	2.69E-05	9.46E-05 CLDN7	claudin 7 [S protein_co	17	7259903	7263983	-1 p13.1
ENSG00000167720	0.3294	1.2565	0.011	0.0257 SRR	serine race protein_co	17	2303383	2325260	1 p13.3
ENSG00000198042	0.3287	1.2558	0.001	0.0029 MAK16	MAK16 hor protein_co	8	33484750	33501260	1 p12
ENSG00000099849	0.3285	1.2557	0.0062	0.0153 RASSF7	Ras associa protein_co	11	560404	564021	1 p15.5
ENSG00000171109	0.3274	1.2548	2.52E-06	1.00E-05 MFN1	mitofusin 1 protein_co	3	1.79E+08	1.79E+08	1 q26.33
ENSG00000168564	0.3271	1.2545	0.0041	0.0104 CDKN2AIP	CDKN2A ini protein_co	4	1.83E+08	1.83E+08	1 q35.1
ENSG00000143418	0.3265	1.254	0.0009	0.0026 CERS2	ceramide s protein_co	1	1.51E+08	1.51E+08	-1 q21.3
ENSG00000198130	0.3252	1.2529	0.0017	0.0046 HIBCH	3-hydroxyis protein_co	2	1.9E+08	1.9E+08	-1 q32.2
ENSG00000172380	0.3251	1.2527	0.001	0.0027 GNG12	guanine nu protein_co	1	67701466	67833467	-1 p31.3
ENSG00000164548	0.3249	1.2526	0.0003	0.0009 TRA2A	transforme protein_co	7	23504780	23532041	-1 p15.3
ENSG00000174032	0.3249	1.2526	0.0005	0.0016 SLC25A30	solute carri protein_co	13	45393316	45418455	-1 q14.13
ENSG00000162654	0.3242	1.252	0.0134	0.0308 GBP4	guanylate t protein_co	1	89181148	89198932	-1 p22.2
ENSG00000175216	0.3242	1.2519	0.0014	0.0039 CKAP5	cytoskeletc protein_co	11	46743048	46846308	-1 p11.2
ENSG00000198964	0.3241	1.2519	0.0043	0.0109 SGMS1	sphingomy protein_co	10	50305586	50625163	-1 q11.23
ENSG00000108433	0.3237	1.2515	0.0058	0.0145 GOSR2	golgi SNAP protein_co	17	46923117	46967019	1 q21.32
ENSG00000168785	0.3227	1.2506	0.0051	0.0127 TSPAN5	tetraspanir protein_co	4	98470367	98658629	-1 q23
ENSG00000161547	0.3225	1.2505	1.97E-05	7.04E-05 SRSF2	serine/argi protein_co	17	76734115	76737374	-1 q25.1
ENSG00000138757	0.3221	1.2501	0.0004	0.0012 G3BP2	GTPase act protein_co	4	75642782	75724525	-1 q21.1
ENSG00000136021	0.3205	1.2488	0.006	0.0149 SCYL2	SCY1-like 2 protein_co	12	1E+08	1E+08	1 q23.1
ENSG00000114316	0.32	1.2483	3.17E-05	0.0001 USP4	ubiquitin s protein_co	3	49277831	49340712	-1 p21.31
ENSG00000116685	0.3199	1.2482	1.89E-05	6.79E-05 KIAA2013	KIAA2013 [ protein_co	1	11919591	11926428	-1 p36.22
ENSG00000004897	0.319	1.2475	0.0027	0.007 CDC27	cell divisior protein_co	17	47117703	47189422	-1 q21.32
ENSG00000164144	0.319	1.2474	8.20E-05	0.0003 ARFIP1	ADP-ribosy protein_co	4	1.53E+08	1.53E+08	1 q31.3
ENSG00000196458	0.3185	1.2471	0.0055	0.0138 ZNF605	zinc finger   protein_co	12	1.33E+08	1.33E+08	-1 q24.33
ENSG00000154473	0.3181	1.2467	0.0036	0.0093 BUB3	BUB3 mitot protein_co	10	1.23E+08	1.23E+08	1 q26.13
ENSG00000189306	0.3179	1.2465	3.18E-05	0.0001 RRP7A	ribosomal f protein_co	22	42509968	42519802	-1 q13.2
ENSG00000162704	0.3175	1.2461	0.0017	0.0047 ARPC5	actin relate protein_co	1	1.84E+08	1.84E+08	-1 q25.3
ENSG00000174903	0.3169	1.2456	5.91E-05	0.0002 RAB1B	RAB1B, me protein_co	11	66268533	66277492	1 q13.2
ENSG00000110717	0.3167	1.2455	0.0017	0.0047 NDUFS8	NADH dehy protein_co	11	68030617	68036644	1 q13.2
ENSG00000119844	0.3167	1.2455	0.0031	0.0081 AFTPH	aftiphilin [S protein_co	2	64524305	64593005	1 p14
ENSG00000112739	0.3165	1.2453	2.43E-05	8.60E-05 PRPF4B	pre-mRNA protein_co	6	4021267	4064983	1 p25.2
ENSG00000076685	0.3159	1.2448	0.004	0.0103 NT5C2	5'-nucleoti protein_co	10	1.03E+08	1.03E+08	-1 q24.33
ENSG00000084073	0.3158	1.2447	0.0007	0.002 ZMPSTE24	zinc metall protein_co	1	40258107	40294184	1 p34.2
ENSG00000169249	0.3157	1.2447	0.0089	0.0213 ZRSR2	zinc finger   protein_co X		15790472	15823260	1 p22.2
ENSG00000198301	0.3152	1.2442	5.54E-05	0.0002 SDAD1	SDA1 domæ protein_co	4	75940950	75990962	-1 q21.1
ENSG00000149084	0.3151	1.2441	0.0147	0.0334 HSD17B12	hydroxyste protein_co	11	43556436	43856617	1 p11.2
ENSG00000182810	0.3148	1.2438	0.0166	0.0375 DDX28	DEAD (Asp- protein_co	16	68021274	68023442	-1 q22.1
ENSG00000087470	0.3143	1.2434	0.0007	0.002 DNM1L	dynamin 1- protein_co	12	32679200	32745650	1 p11.21

ENSG00000155256	0.3142	1.2433	0.0178	0.0398 ZFYVE27	zinc finger, protein_co	10	97737121	97760907	1	q24.2
ENSG00000143622	0.3137	1.2429	0.0024	0.0064 RIT1	Ras-like wit protein_co	1	1.56E+08	1.56E+08	-1	q22
ENSG00000120686	0.3134	1.2426	0.007	0.0172 UFM1	ubiquitin-fc protein_co	13	38349849	38363619	1	q13.3
ENSG00000174796	0.3134	1.2426	0.0111	0.0259 THAP6	THAP domain protein_co	4	75513946	75550473	1	q21.1
ENSG00000086475	0.3127	1.242	0.0003	0.0011 SEPHS1	selenophos protein_co	10	13317424	13348298	-1	p13
ENSG00000138592	0.3126	1.2419	0.0027	0.0071 USP8	ubiquitin sp protein_co	15	50424380	50514419	1	q21.2
ENSG00000102786	0.3118	1.2412	0.0001	0.0004 INTS6	integrator c protein_co	13	51354077	51454264	-1	q14.3
ENSG00000148296	0.3118	1.2412	0.0033	0.0084 SURF6	surfeit 6 [S] protein_co	9	1.33E+08	1.33E+08	-1	q34.2
ENSG00000196305	0.3116	1.2411	7.56E-05	0.0003 IARS	isoleucyl-tF protein_co	9	92210207	92293716	-1	q22.31
ENSG00000132591	0.3111	1.2407	0.0017	0.0045 ERAL1	Era-like 12 protein_co	17	28854938	28861067	1	q11.2
ENSG00000107960	0.3108	1.2404	0.0012	0.0033 OBFC1	oligonuclec protein_co	10	1.04E+08	1.04E+08	-1	q24.33
ENSG00000115307	0.3104	1.2401	0.0159	0.036 AUP1	ancient ubi protein_co	2	74526645	74529939	-1	p13.1
ENSG00000155229	0.3101	1.2398	8.82E-05	0.0003 MMS19	MMS19 nu protein_co	10	97458324	97498794	-1	q24.1
ENSG00000127328	0.3099	1.2397	0.0008	0.0023 RAB3IP	RAB3A inte protein_co	12	69738681	69823204	1	q15
ENSG00000171159	0.3099	1.2396	0.0013	0.0036 C9orf16	chromoson protein_co	9	1.28E+08	1.28E+08	1	q34.11
ENSG00000198791	0.3094	1.2392	7.47E-06	2.81E-05 CNOT7	CCR4-NOT protein_co	8	17224964	17246878	-1	p22
ENSG00000122687	0.3091	1.239	0.0041	0.0104 FTSJ2	FtsJ RNA m protein_co	7	2234231	2242198	-1	p22.3
ENSG00000132603	0.3084	1.2383	0.001	0.0027 NIP7	NIP7, nucle protein_co	16	69339430	69343111	1	q22.1
ENSG00000145725	0.3084	1.2383	0.0038	0.0098 PPIP5K2	diphoshoi protein_co	5	1.03E+08	1.03E+08	1	q21.1
ENSG00000183258	0.3082	1.2382	0.0021	0.0057 DDX41	DEAD (Asp- protein_co	5	1.78E+08	1.78E+08	-1	q35.3
ENSG00000147124	0.3076	1.2376	0.0047	0.0117 ZNF41	zinc finger   protein_co X		47445879	47482946	-1	p11.3
ENSG00000134014	0.3074	1.2375	0.0011	0.0032 ELP3	elongator a protein_co	8	28089673	28191156	1	p21.1
ENSG00000172009	0.3074	1.2375	0.0045	0.0113 THOP1	thimet olig protein_co	19	2785460	2815807	1	p13.3
ENSG00000183828	0.307	1.2371	0.0157	0.0355 NUDT14	nudix (nucl protein_co	14	1.05E+08	1.05E+08	-1	q32.33
ENSG00000106049	0.3065	1.2367	3.54E-06	1.38E-05 HIBADH	3-hydroxyis protein_co	7	27525442	27662995	-1	p15.2
ENSG00000171953	0.3055	1.2359	0.0129	0.0297 ATPAF2	ATP syntha protein_co	17	17977409	18039209	-1	p11.2
ENSG00000196646	0.3056	1.2359	0.0171	0.0384 ZNF136	zinc finger   protein_co	19	12163064	12189881	1	p13.2
ENSG00000109381	0.3049	1.2353	0.0129	0.0297 ELF2	E74-like fac protein_co	4	1.39E+08	1.39E+08	-1	q31.1
ENSG00000168944	0.3039	1.2345	0.0146	0.0332 CEP120	centrosom: protein_co	5	1.23E+08	1.23E+08	-1	q23.2
ENSG00000171314	0.3019	1.2328	0.006	0.0148 PGAM1	phosphogly protein_co	10	97426160	97433441	1	q24.1
ENSG00000120742	0.3018	1.2327	0.0022	0.0058 SERP1	stress-asso protein_co	3	1.51E+08	1.51E+08	-1	q25.1
ENSG00000102218	0.3015	1.2324	0.0222	0.0485 RP2	retinitis pig protein_co X		46836940	46882358	1	p11.3
ENSG00000145782	0.2997	1.2309	0.0032	0.0082 ATG12	autophagy protein_co	5	1.16E+08	1.16E+08	-1	q22.3
ENSG00000120992	0.2989	1.2302	0.0176	0.0394 LYPLA1	lysophosph protein_co	8	54046367	54102017	-1	q11.23
ENSG00000111300	0.2974	1.2289	0.0021	0.0055 NAA25	N(alpha)-ac protein_co	12	1.12E+08	1.12E+08	-1	q24.13
ENSG00000110756	0.2973	1.2288	0.0015	0.004 HPS5	Hermansky protein_co	11	18278668	18322198	-1	p15.1
ENSG00000138286	0.2966	1.2282	0.0018	0.0049 FAM149B1	family with protein_co	10	73168166	73244504	1	q22.2
ENSG00000159459	0.2966	1.2282	0.0042	0.0106 UBR1	ubiquitin pi protein_co	15	42942897	43106113	-1	q15.2
ENSG00000111737	0.2961	1.2278	0.0036	0.0093 RAB35	RAB35, me protein_co	12	1.2E+08	1.2E+08	-1	q24.23
ENSG00000035687	0.296	1.2277	0.0001	0.0005 ADSS	adenylosuc protein_co	1	2.44E+08	2.44E+08	-1	q44
ENSG00000175334	0.2951	1.227	0.0181	0.0403 BANF1	barrier to a protein_co	11	66002079	66004149	1	q13.1



ENSG00000111652	0.2939	1.226	0.0005	0.0014 COPS7A	COP9 signa protein_co	12	6723741	6731875	1 p13.31
ENSG00000172273	0.2928	1.225	0.0123	0.0285 HINFP	histone H4 protein_co	11	1.19E+08	1.19E+08	1 q23.3
ENSG00000227057	0.2923	1.2246	0.0003	0.0008 WDR46	WD repeat protein_co	6	33279108	33289527	-1 p21.32
ENSG00000174442	0.2923	1.2246	0.02	0.0442 ZWILCH	zwilch kine protein_co	15	66504959	66550128	1 q22.31
ENSG00000198131	0.2915	1.2239	0.0095	0.0225 ZNF544	zinc finger protein_co	19	58228594	58277495	1 q13.43
ENSG00000223482	0.2912	1.2236	0.0215	0.0471 NUTM2A-AS1	NUTM2A a antisense	10	87203875	87342612	-1 q23.2
ENSG00000147162	0.2908	1.2233	0.0019	0.005 OGT	O-linked N- protein_co X		71533083	71575897	1 q13.1
ENSG00000110321	0.2901	1.2227	1.26E-10	7.50E-10 EIF4G2	eukaryotic protein_co	11	10797050	10809110	-1 p15.4
ENSG00000144840	0.29	1.2226	0.0009	0.0026 RABL3	RAB, memk protein_co	3	1.21E+08	1.21E+08	-1 q13.33
ENSG00000092140	0.2899	1.2225	0.0057	0.0142 G2E3	G2/M-phas protein_co	14	30559123	30620063	1 q12
ENSG00000160818	0.2896	1.2223	0.003	0.0079 GPATCH4	G patch do protein_co	1	1.57E+08	1.57E+08	-1 q23.1
ENSG00000100714	0.2896	1.2223	0.004	0.0101 MTHFD1	methylene protein_co	14	64388031	64463457	1 q23.3
ENSG00000138801	0.289	1.2218	5.53E-05	0.0002 PAPSS1	3'-phospho protein_co	4	1.08E+08	1.08E+08	-1 q25
ENSG00000140391	0.2888	1.2216	0.0009	0.0026 TSPAN3	tetraspanin protein_co	15	77041404	77083984	-1 q24.3
ENSG00000179119	0.2885	1.2214	0.0017	0.0046 SPTY2D1	SPT2, Supp protein_co	11	18606401	18634791	-1 p15.1
ENSG00000163344	0.2885	1.2214	0.0187	0.0415 PMVK	phosphom protein_co	1	1.55E+08	1.55E+08	-1 q21.3
ENSG00000168883	0.2883	1.2212	0.0017	0.0046 USP39	ubiquitin s protein_co	2	85602856	85649282	1 p11.2
ENSG00000148153	0.2878	1.2208	0.0001	0.0005 INIP	INTS3 and l protein_co	9	1.13E+08	1.13E+08	-1 q32
ENSG00000133398	0.2869	1.22	0.0038	0.0097 MED10	mediator c protein_co	5	6371881	6378594	-1 p15.31
ENSG00000033800	0.2869	1.22	0.0089	0.0214 PIAS1	protein inh protein_co	15	68054179	68198603	1 q23
ENSG00000083520	0.2869	1.22	0.012	0.028 DIS3	DIS3 exoso protein_co	13	72752169	72782096	-1 q21.33
ENSG00000115548	0.2867	1.2198	0.0049	0.0123 KDM3A	lysine (K)-s protein_co	2	86440647	86492716	1 p11.2
ENSG00000156931	0.2864	1.2196	0.0001	0.0004 VPS8	vacuolar pr protein_co	3	1.85E+08	1.85E+08	1 q27.2
ENSG00000116521	0.2863	1.2195	0.0074	0.018 SCAMP3	secretory c protein_co	1	1.55E+08	1.55E+08	-1 q22
ENSG00000119912	0.2861	1.2194	0.0032	0.0083 IDE	insulin-deg protein_co	10	92451684	92574076	-1 q23.33
ENSG00000182541	0.2856	1.2189	6.52E-05	0.0002 LIMK2	LIM domai protein_co	22	31212239	31280080	1 q12.2
ENSG00000134996	0.2851	1.2185	0.0005	0.0015 OSTF1	osteoclast s protein_co	9	75088543	75147265	1 q21.13
ENSG00000004478	0.284	1.2176	0.0072	0.0175 FKBP4	FK506 bind protein_co	12	2794953	2805423	1 p13.33
ENSG00000104756	0.2839	1.2175	0.017	0.0382 KCTD9	potassium protein_co	8	25427847	25458476	-1 p21.2
ENSG00000080546	0.2834	1.217	0.0019	0.005 SESN1	sestrin 1 [S protein_co	6	1.09E+08	1.09E+08	-1 q21
ENSG00000176783	0.283	1.2167	0.0006	0.0016 RUFY1	RUN and F) protein_co	5	1.8E+08	1.8E+08	1 q35.3
ENSG00000171988	0.2815	1.2155	0.0022	0.0058 JMJD1C	jumonji do protein_co	10	63167221	63465881	-1 q21.3
ENSG00000158623	0.2811	1.2151	0.0058	0.0143 COPG2	coatomer f protein_co	7	1.31E+08	1.31E+08	-1 q32.2
ENSG00000157911	0.2801	1.2143	0.0024	0.0063 PEX10	peroxisom protein_co	1	2403964	2413797	-1 p36.32
ENSG00000120798	0.2802	1.2143	0.0099	0.0233 NR2C1	nuclear rec protein_co	12	95020229	95073703	-1 q22
ENSG00000188419	0.2797	1.2139	0.0058	0.0143 CHM	choroidere protein_co X		85861180	86047562	-1 q21.2
ENSG00000119723	0.2797	1.2139	0.0098	0.0232 COQ6	coenzyme t protein_co	14	73949926	73963670	1 q24.3
ENSG00000163811	0.2796	1.2138	0.0013	0.0036 WDR43	WD repeat protein_co	2	28894643	28948222	1 p23.2
ENSG00000091164	0.2794	1.2137	0.0001	0.0004 TXNL1	thioredoxin protein_co	18	56597208	56651600	-1 q21.31
ENSG00000143801	0.278	1.2126	0.0113	0.0264 PSEN2	presenilin 2 protein_co	1	2.27E+08	2.27E+08	1 q42.13
ENSG00000163785	0.2781	1.2126	0.0172	0.0385 RYK	receptor-lik protein_co	3	1.34E+08	1.34E+08	-1 q22.2



ENSG00000198730	0.2773	1.2119	0.0008	0.0022	CTR9	CTR9, Paf1, protein_co	11	10750987	10779743	1	p15.4
ENSG00000163607	0.2762	1.211	0.0211	0.0464	GTPBP8	GTP-binding protein_co	3	1.13E+08	1.13E+08	1	q13.2
ENSG00000170185	0.2753	1.2102	0.0025	0.0067	USP38	ubiquitin s; protein_co	4	1.43E+08	1.43E+08	1	q31.21
ENSG00000144747	0.2739	1.2091	0.0099	0.0233	TMF1	TATA elem; protein_co	3	69019827	69052303	-1	p14.1
ENSG00000158604	0.2738	1.209	2.45E-05	8.68E-05	TMED4	transmemt protein_co	7	44577894	44582287	-1	p13
ENSG00000151689	0.2735	1.2087	0.0007	0.0021	INPP1	inositol pol protein_co	2	1.9E+08	1.9E+08	1	q32.2
ENSG00000151532	0.2722	1.2076	0.0008	0.0023	VTI1A	vesicle tran protein_co	10	1.12E+08	1.13E+08	1	q25.2
ENSG00000170852	0.272	1.2075	0.0089	0.0212	KBTBD2	kelch repe; protein_co	7	32868172	32894131	-1	p14.3
ENSG00000119977	0.2719	1.2074	0.0014	0.0039	TCTN3	tectonic far protein_co	10	95663396	95694143	-1	q24.1
ENSG00000115159	0.2705	1.2063	0.0044	0.0111	GPD2	glycerol-3-; protein_co	2	1.56E+08	1.57E+08	1	q24.1
ENSG00000112343	0.27	1.2058	0.0018	0.0049	TRIM38	tripartite r protein_co	6	25962802	25987156	1	p22.2
ENSG00000126456	0.27	1.2058	0.0105	0.0246	IRF3	interferon i protein_co	19	49659569	49665875	-1	q13.33
ENSG00000175283	0.2698	1.2057	0.0138	0.0317	DOLK	dolichol kin protein_co	9	1.29E+08	1.29E+08	-1	q34.11
ENSG00000064995	0.2697	1.2056	0.0048	0.0122	TAF11	TAF11 RNA protein_co	6	34877778	34888089	-1	p21.31
ENSG00000149313	0.269	1.205	0.0068	0.0167	AASDHPPT	aminoadip; protein_co	11	1.06E+08	1.06E+08	1	q22.3
ENSG00000156875	0.2687	1.2048	0.0019	0.0051	HIAT1	hippocamp protein_co	1	1E+08	1E+08	1	p21.2
ENSG00000153113	0.2687	1.2047	0.006	0.0148	CAST	calpastatin protein_co	5	96525267	96779595	1	q15
ENSG00000117419	0.2686	1.2046	0.0071	0.0172	ERI3	ERI1 exorib protein_co	1	44221070	44355260	-1	p34.1
ENSG00000138107	0.2671	1.2034	0.0176	0.0395	ACTR1A	ARP1 actin- protein_co	10	1.02E+08	1.03E+08	-1	q24.32
ENSG00000184209	0.2668	1.2031	0.0164	0.0369	SNRNP35	small nucle protein_co	12	1.23E+08	1.23E+08	1	q24.31
ENSG00000079332	0.2659	1.2024	0.0087	0.0209	SAR1A	secretion a protein_co	10	70147289	70170523	-1	q22.1
ENSG00000168385	0.2652	1.2018	0.0025	0.0066		02-Sep septin 2 [Sc protein_co	2	2.41E+08	2.41E+08	1	q37.3
ENSG00000058804	0.265	1.2016	0.0151	0.0344	NDC1	NDC1 trans protein_co	1	53765460	53838860	-1	p32.3
ENSG00000116095	0.2635	1.2004	0.0157	0.0356	PLEKHA3	pleckstrin f protein_co	2	1.78E+08	1.79E+08	1	q31.2
ENSG00000126814	0.2632	1.2002	0.0047	0.0119	TRMT5	tRNA meth protein_co	14	60971451	60981358	-1	q23.1
ENSG00000161179	0.2627	1.1997	0.0079	0.0191	YDJC	YdjC homol protein_co	22	21628089	21630064	-1	q11.21
ENSG00000104695	0.2624	1.1995	5.99E-05	0.0002	PPP2CB	protein phc protein_co	8	30774457	30814314	-1	p12
ENSG00000157873	0.262	1.1991	0.0062	0.0153	TNFRSF14	tumor necr protein_co	1	2555639	2565382	1	p36.32
ENSG00000163512	0.2611	1.1984	0.0042	0.0107	AZI2	5-azacytidin protein_co	3	28315003	28349127	-1	p24.1
ENSG00000243927	0.2604	1.1978	0.0165	0.0371	MRPS6	mitochondi protein_co	21	34073224	34143034	1	q22.11
ENSG00000004961	0.2601	1.1976	0.0007	0.002	HCCS	holocytoch protein_co X		11111301	11123078	1	p22.2
ENSG00000105379	0.2601	1.1976	0.0094	0.0224	ETFB	electron-tr; protein_co	19	51345169	51366418	-1	q13.41
ENSG00000114480	0.2582	1.196	0.0114	0.0266	GBE1	glucan (1,4 protein_co	3	81489699	81762161	-1	p12.2
ENSG00000140157	0.2572	1.1952	0.0023	0.0062	NIPAA2	non imprim protein_co	15	22838641	22868384	1	q11.2
ENSG00000113812	0.257	1.195	0.0005	0.0016	ACTR8	ARP8 actin- protein_co	3	53867066	53882202	-1	p21.1
ENSG00000006194	0.2568	1.1948	0.0173	0.0388	ZNF263	zinc finger j protein_co	16	3263743	3301401	1	p13.3
ENSG0000020922	0.2565	1.1946	0.0077	0.0187	MRE11A	MRE11 mei protein_co	11	94415578	94493908	-1	q21
ENSG00000138674	0.2564	1.1945	0.0029	0.0076	SEC31A	SEC31 hom protein_co	4	82818661	82901166	-1	q21.22
ENSG00000160075	0.256	1.1942	0.0006	0.0018	SSU72	SSU72 RNA protein_co	1	1541673	1574869	-1	p36.33
ENSG00000122218	0.2559	1.1941	0.0019	0.0051	COPA	coatomer f protein_co	1	1.6E+08	1.6E+08	-1	q23.2
ENSG00000169727	0.2551	1.1934	0.0025	0.0066	GPS1	G protein p protein_co	17	82050691	82057470	1	q25.3

ENSG00000167130	0.2549	1.1933	0.0188	0.0418 DOLPP1	dolichyldip protein_co	9	1.29E+08	1.29E+08	1 q34.11
ENSG00000148700	0.2548	1.1932	0.0047	0.0118 ADD3	adducin 3 ( protein_co	10	1.1E+08	1.1E+08	1 q25.1
ENSG00000204604	0.2533	1.1919	0.0049	0.0123 ZNF468	zinc finger  protein_co	19	52838008	52857649	-1 q13.41
ENSG00000115484	0.2519	1.1908	0.0029	0.0076 CCT4	chaperonin protein_co	2	61868089	61888804	-1 p15
ENSG00000109113	0.2519	1.1908	0.0105	0.0246 RAB34	RAB34, me protein_co	17	28714284	28718429	-1 q11.2
ENSG00000140575	0.2516	1.1905	5.45E-05	0.0002 IQGAP1	IQ motif co protein_co	15	90388218	90502243	1 q26.1
ENSG00000244038	0.2515	1.1904	0.0005	0.0015 DDOST	dolichyl-di protein_co	1	20651767	20661544	-1 p36.12
ENSG00000029363	0.2506	1.1897	0.0021	0.0055 BCLAF1	BCL2-assoc protein_co	6	1.36E+08	1.36E+08	-1 q23.3
ENSG00000109180	0.2503	1.1894	0.0003	0.0008 OCIAD1	OCIA doma protein_co	4	48805212	48861817	1 p11
ENSG00000109184	0.2486	1.1881	0.0172	0.0386 DCUN1D4	DCN1, defe protein_co	4	51843000	51916837	1 q12
ENSG00000101811	0.2486	1.188	0.0024	0.0063 CSTF2	cleavage st protein_co X		1.01E+08	1.01E+08	1 q22.1
ENSG00000116044	0.2467	1.1865	0.0095	0.0225 NFE2L2	nuclear fac protein_co	2	1.77E+08	1.77E+08	-1 q31.2
ENSG00000166579	0.2464	1.1863	0.0055	0.0136 NDEL1	nudE neurc protein_co	17	8413131	8490411	1 p13.1
ENSG00000165156	0.2459	1.1858	0.0054	0.0135 ZHX1	zinc fingers protein_co	8	1.23E+08	1.23E+08	-1 q24.13
ENSG00000197170	0.2456	1.1856	0.0057	0.0143 PSMD12	proteasom protein_co	17	67337916	67366627	-1 q24.2
ENSG00000198836	0.2428	1.1833	0.0001	0.0004 OPA1	optic atrop protein_co	3	1.94E+08	1.94E+08	1 q29
ENSG00000213995	0.2429	1.1833	0.0003	0.0008 CARKD	carbohydra protein_co	13	1.11E+08	1.11E+08	1 q34
ENSG00000175387	0.242	1.1826	0.0001	0.0004 SMAD2	SMAD fami protein_co	18	47808957	47931146	-1 q21.1
ENSG00000136925	0.2419	1.1825	0.0045	0.0114 TSTD2	thiosulfate protein_co	9	97600080	97633575	-1 q22.33
ENSG00000163626	0.2409	1.1817	0.0053	0.0132 COX18	COX18 cytc protein_co	4	73056080	73069755	-1 q13.3
ENSG00000152795	0.2404	1.1813	0.0221	0.0483 HNRNPDL	heterogene protein_co	4	82422564	82430225	-1 q21.22
ENSG00000126062	0.2401	1.1811	0.0042	0.0107 TMEM115	transmemt protein_co	3	50354749	50359610	-1 p21.31
ENSG00000122550	0.2391	1.1803	0.0211	0.0464 KLHL7	kelch-like fi protein_co	7	23105758	23177914	1 p15.3
ENSG00000215717	0.2385	1.1798	0.0066	0.0162 TMEM167B	transmemt protein_co	1	1.09E+08	1.09E+08	1 p13.3
ENSG00000119335	0.238	1.1794	0.0013	0.0035 SET	SET nuclear protein_co	9	1.29E+08	1.29E+08	1 q34.11
ENSG00000169359	0.2381	1.1794	0.0124	0.0287 SLC33A1	solute carri protein_co	3	1.56E+08	1.56E+08	-1 q25.31
ENSG00000141759	0.2375	1.1789	0.0003	0.001 TXNL4A	thioredoxir protein_co	18	79970811	80033949	-1 q23
ENSG00000123992	0.2372	1.1787	0.0019	0.005 DNPEP	aspartyl an protein_co	2	2.19E+08	2.19E+08	-1 q35
ENSG00000163191	0.2372	1.1787	0.0137	0.0314 S100A11	S100 calciu protein_co	1	1.52E+08	1.52E+08	-1 q21.3
ENSG00000134371	0.2363	1.178	0.0168	0.0377 CDC73	cell divisior protein_co	1	1.93E+08	1.93E+08	1 q31.2
ENSG00000152558	0.2356	1.1774	0.0172	0.0386 TMEM123	transmemt protein_co	11	1.02E+08	1.02E+08	-1 q22.2
ENSG00000149308	0.2354	1.1773	0.0106	0.0249 NPAT	nuclear prc protein_co	11	1.08E+08	1.08E+08	-1 q22.3
ENSG00000103266	0.2349	1.1768	0.0189	0.0419 STUB1	STIP1 homi protein_co	16	680224	682870	1 p13.3
ENSG00000143889	0.2326	1.175	0.0019	0.0051 HNRNPLL	heterogene protein_co	2	38561978	38603586	-1 p22.1
ENSG00000213983	0.2317	1.1742	0.0116	0.0269 AP1G2	adaptor-rel protein_co	14	23559565	23568070	-1 q11.2
ENSG00000163781	0.2303	1.173	0.0175	0.0391 TOPBP1	topoisomei protein_co	3	1.34E+08	1.34E+08	-1 q22.1
ENSG00000157224	0.2296	1.1725	0.0136	0.0313 CLDN12	claudin 12   protein_co	7	90383721	90513402	1 q21.13
ENSG00000218739	0.2293	1.1723	0.014	0.032 CEBPZOS	CEBPZ oppi protein_co	2	37196488	37216193	1 p22.2
ENSG00000168538	0.2288	1.1719	0.0012	0.0034 TRAPP11	trafficking   protein_co	4	1.84E+08	1.84E+08	1 q35.1
ENSG00000114784	0.2276	1.1709	0.0037	0.0096 EIF1B	eukaryotic protein_co	3	40309684	40312424	1 p22.1
ENSG00000184900	0.2262	1.1698	0.0031	0.008 SUMO3	small ubiq protein_co	21	44805617	44818779	-1 q22.3

ENSG00000111530	0.2239	1.1679	0.0012	0.0034 CAND1	cullin-assoc protein_co	12	67269281	67319951	1	q14.3
ENSG00000100281	0.2237	1.1678	0.0104	0.0245 HMGXB4	HMG box d protein_co	22	35257452	35295807	1	q12.3
ENSG00000154174	0.2223	1.1666	9.38E-05	0.0003 TOMM70A	translocase protein_co	3	1E+08	1E+08	-1	q12.2
ENSG00000164252	0.2207	1.1653	0.003	0.0078 AGGF1	angiogenic protein_co	5	77029251	77065234	1	q13.3
ENSG00000129315	0.22	1.1648	0.0067	0.0165 CCNT1	cyclin T1 [S protein_co	12	48688458	48716998	-1	q13.12
ENSG00000137713	0.2194	1.1643	0.0025	0.0065 PPP2R1B	protein phc protein_co	11	1.12E+08	1.12E+08	-1	q23.1
ENSG00000122566	0.2184	1.1634	0.0129	0.0298 HNRNPA2B1	heterogene protein_co	7	26189927	26201529	-1	p15.2
ENSG00000103051	0.2179	1.163	0.0126	0.0291 COG4	component protein_co	16	70480568	70523565	-1	q22.1
ENSG00000182827	0.215	1.1607	0.0104	0.0245 ACBD3	acyl-CoA bi protein_co	1	2.26E+08	2.26E+08	-1	q42.12
ENSG00000166181	0.2137	1.1596	0.009	0.0216 API5	apoptosis ii protein_co	11	43311963	43344529	1	p12
ENSG00000078304	0.2119	1.1582	0.0017	0.0047 PPP2R5C	protein phc protein_co	14	1.02E+08	1.02E+08	1	q32.31
ENSG00000118454	0.2101	1.1568	0.0173	0.0388 ANKRD13C	ankyrin rep protein_co	1	70260588	70354734	-1	p31.1
ENSG00000105993	0.2097	1.1565	0.0037	0.0096 DNAJB6	DnaJ (Hsp4 protein_co	7	1.57E+08	1.57E+08	1	q36.3
ENSG00000169062	0.2091	1.156	0.0098	0.0233 UPF3A	UPF3 regul. protein_co	13	1.14E+08	1.14E+08	1	q34
ENSG00000090989	0.2073	1.1545	0.0003	0.001 EXOC1	exocyst cor protein_co	4	55853616	55905034	1	q12
ENSG00000116679	0.2072	1.1545	0.0141	0.0323 IVNS1ABP	influenza vi protein_co	1	1.85E+08	1.85E+08	-1	q25.3
ENSG00000135040	0.2071	1.1544	0.0193	0.0427 NAA35	N(alpha)-ac protein_co	9	85941146	86022298	1	q21.33
ENSG00000112200	0.2058	1.1533	0.0057	0.0142 ZNF451	zinc finger   protein_co	6	57086844	57170307	1	p12.1
ENSG00000112514	0.2038	1.1517	0.0184	0.041 CUTA	cutA divale protein_co	6	33416442	33418317	-1	p21.32
ENSG00000143390	0.2023	1.1505	0.0113	0.0264 RFX5	regulatory   protein_co	1	1.51E+08	1.51E+08	-1	q21.3
ENSG00000132463	0.2015	1.1499	0.005	0.0125 GRSF1	G-rich RNA protein_co	4	70815782	70839945	-1	q13.3
ENSG00000198858	0.2013	1.1498	0.018	0.0403 R3HDM4	R3H domai protein_co	19	896503	913245	-1	p13.3
ENSG00000065978	0.201	1.1495	0.0179	0.0399 YBX1	Y box bindi protein_co	1	42682395	42702349	1	p34.2
ENSG00000028528	0.1963	1.1457	0.0004	0.0011 SNX1	sorting nex protein_co	15	64094123	64146090	1	q22.31
ENSG00000073584	0.1954	1.145	0.0213	0.0468 SMARCE1	SWI/SNF re protein_co	17	40624962	40648508	-1	q21.2
ENSG00000182199	0.1952	1.1449	0.0068	0.0166 SHMT2	serine hydr protein_co	12	57229327	57234935	1	q13.3
ENSG00000060642	0.1952	1.1449	0.0143	0.0327 PIGV	phosphatid protein_co	1	26787472	26798398	1	p36.11
ENSG00000100284	0.1924	1.1426	0.0228	0.0496 TOM1	target of m protein_co	22	35299275	35347994	1	q12.3
ENSG00000134453	0.1913	1.1418	0.0069	0.0168 RBM17	RNA bindin protein_co	10	6088987	6117457	1	p15.1
ENSG00000072803	0.1877	1.139	0.016	0.0361 FBXW11	F-box and \ protein_co	5	1.72E+08	1.72E+08	-1	q35.1
ENSG00000105612	0.1848	1.1367	0.0228	0.0496 DNASE2	deoxyribon protein_co	19	12875211	12881468	-1	p13.13
ENSG00000108588	0.1844	1.1364	0.0201	0.0444 CCDC47	coiled-coil   protein_co	17	63745250	63776351	-1	q23.3
ENSG00000109332	0.1708	1.1257	0.0215	0.0472 UBE2D3	ubiquitin-c  protein_co	4	1.03E+08	1.03E+08	-1	q24
ENSG00000104131	0.1689	1.1242	0.0188	0.0418 EIF3J	eukaryotic protein_co	15	44537057	44563029	1	q21.1
ENSG00000132507	0.1518	1.111	0.0134	0.0307 EIF5A	eukaryotic protein_co	17	7306999	7312463	1	p13.1
ENSG00000080815	0.1503	1.1098	0.0085	0.0204 PSEN1	presenilin 1 protein_co	14	73136418	73223691	1	q24.2
ENSG00000241685	0.1338	1.0972	0.0178	0.0397 ARPC1A	actin relate protein_co	7	99325898	99388164	1	q22.1
ENSG00000067560	0.1158	1.0836	0.0183	0.0409 RHOA	ras homolo protein_co	3	49359145	49412998	-1	p21.31
ENSG00000090316	-0.1594	-1.1169	0.0181	0.0405 MAEA	macrophag protein_co	4	1289851	1340147	1	p16.3
ENSG00000113712	-0.1694	-1.1246	0.0005	0.0014 CSNK1A1	casein kina protein_co	5	1.49E+08	1.5E+08	-1	q32
ENSG00000133704	-0.1698	-1.1249	0.0073	0.0177 IPO8	importin 8 protein_co	12	30628988	30695986	-1	p11.21

ENSG00000131165	-0.1777	-1.1311	0.0094	0.0223	CHMP1A	charged mi protein_co	16	89644431	89657845	-1	q24.3
ENSG00000078747	-0.1794	-1.1324	0.0094	0.0224	ITCH	itchy E3 ub protein_co	20	34363235	34511393	1	q11.22
ENSG00000143337	-0.1806	-1.1334	0.0135	0.031	TOR1AIP1	torsin A int protein_co	1	1.8E+08	1.8E+08	1	q25.2
ENSG00000100664	-0.1848	-1.1367	0.0087	0.0208	EIF5	eukaryotic protein_co	14	1.03E+08	1.03E+08	1	q32.32
ENSG00000164134	-0.1896	-1.1405	0.0088	0.021	NAA15	N(alpha)-ac protein_co	4	1.39E+08	1.39E+08	1	q31.1
ENSG00000082898	-0.1939	-1.1438	0.0058	0.0143	XPO1	exportin 1 protein_co	2	61477849	61538626	-1	p15
ENSG00000006125	-0.1939	-1.1439	0.0104	0.0245	AP2B1	adaptor-rel protein_co	17	35578046	35726409	1	q12
ENSG00000143952	-0.1947	-1.1445	0.0188	0.0417	VPS54	vacuolar pr protein_co	2	63892146	64019072	-1	p14
ENSG00000141380	-0.1973	-1.1465	0.0067	0.0163	SS18	synovial sai protein_co	18	26016253	26091217	-1	q11.2
ENSG00000116641	-0.199	-1.1479	0.0218	0.0477	DOCK7	dedicator c protein_co	1	62454728	62688368	-1	p31.3
ENSG00000136813	-0.2004	-1.149	0.0122	0.0283	KIAA0368	KIAA0368 [ protein_co	9	1.11E+08	1.11E+08	-1	q31.3
ENSG00000122042	-0.2007	-1.1492	0.0145	0.033	UBL3	ubiquitin-lii protein_co	13	29764371	29850684	-1	q12.3
ENSG00000167721	-0.2036	-1.1516	0.0147	0.0334	TSR1	TSR1, 20S r protein_co	17	2322503	2337507	-1	p13.3
ENSG00000073614	-0.2075	-1.1547	0.0046	0.0116	KDM5A	lysine (K)-sj protein_co	12	280129	389454	-1	p13.33
ENSG00000166750	-0.2089	-1.1558	0.0137	0.0315	SLFN5	schlafen fai protein_co	17	35243036	35273655	1	q12
ENSG00000170759	-0.209	-1.1559	0.0003	0.0011	KIF5B	kinesin far protein_co	10	32009010	32056431	-1	p11.22
ENSG00000145907	-0.2099	-1.1566	0.0012	0.0033	G3BP1	GTPase act protein_co	5	1.52E+08	1.52E+08	1	q33.1
ENSG00000211460	-0.2113	-1.1577	0.0024	0.0064	TSN	translin [So protein_co	2	1.22E+08	1.22E+08	1	q14.3
ENSG00000175224	-0.2118	-1.1581	0.0181	0.0404	ATG13	autophagy protein_co	11	46617527	46674818	1	p11.2
ENSG00000108424	-0.2141	-1.16	0.0178	0.0398	KPNB1	karyopherin protein_co	17	47649476	47685505	1	q21.32
ENSG00000108669	-0.2153	-1.161	0.0049	0.0124	CYTH1	cytohesin 1 protein_co	17	78674048	78782297	-1	q25.3
ENSG00000160714	-0.2158	-1.1613	0.0084	0.0202	UBE2Q1	ubiquitin-c protein_co	1	1.55E+08	1.55E+08	-1	q21.3
ENSG00000062725	-0.2197	-1.1645	0.0061	0.0152	APPBP2	amyloid be protein_co	17	60443149	60526219	-1	q23.2
ENSG00000111266	-0.2203	-1.165	0.0198	0.0437	DUSP16	dual specifi protein_co	12	12474210	12562383	-1	p13.2
ENSG00000204304	-0.2207	-1.1653	0.0075	0.0181	PBX2	pre-B-cell l protein_co	6	32184741	32190186	-1	p21.32
ENSG00000088179	-0.2272	-1.1705	0.0158	0.0358	PTPN4	protein tyri protein_co	2	1.2E+08	1.2E+08	1	q14.2
ENSG00000113522	-0.2274	-1.1707	0.0019	0.0051	RAD50	RAD50 hon protein_co	5	1.33E+08	1.33E+08	1	q31.1
ENSG00000090686	-0.2307	-1.1734	0.0206	0.0453	USP48	ubiquitin sj protein_co	1	21678298	21783606	-1	p36.12
ENSG00000115993	-0.231	-1.1736	0.0079	0.019	TRAK2	trafficking j protein_co	2	2.01E+08	2.01E+08	-1	q33.1
ENSG00000105698	-0.231	-1.1737	0.0044	0.0111	USF2	upstream t protein_co	19	35268978	35279821	1	q13.12
ENSG00000173726	-0.2318	-1.1743	0.0008	0.0024	TOMM20	translocase protein_co	1	2.35E+08	2.35E+08	-1	q42.3
ENSG00000255112	-0.2323	-1.1747	0.0065	0.016	CHMP1B	charged mi protein_co	18	11851396	11854449	1	p11.21
ENSG00000058673	-0.2324	-1.1748	0.0001	0.0005	ZC3H11A	zinc finger i protein_co	1	2.04E+08	2.04E+08	1	q32.1
ENSG00000177479	-0.233	-1.1752	0.0195	0.0431	ARIH2	ariadne RBi protein_co	3	48918821	48986382	1	p21.31
ENSG00000136754	-0.233	-1.1753	0.0209	0.0459	ABI1	abl-interact protein_co	10	26746593	26861087	-1	p12.1
ENSG00000172765	-0.2364	-1.178	0.0181	0.0404	TMCC1	transmemk protein_co	3	1.3E+08	1.3E+08	-1	q22.1
ENSG00000099284	-0.2373	-1.1788	0.0131	0.0301	H2AFY2	H2A histon protein_co	10	70052796	70112280	1	q22.1
ENSG00000171161	-0.2409	-1.1818	0.0207	0.0456	ZNF672	zinc finger j protein_co	1	2.49E+08	2.49E+08	1	q44
ENSG00000015171	-0.2416	-1.1823	0.005	0.0126	ZMYND11	zinc finger, protein_co	10	134465	254637	1	p15.3
ENSG00000156642	-0.2419	-1.1826	0.0037	0.0095	NPTN	neuroplasti protein_co	15	73560014	73634134	-1	q24.1
ENSG00000170606	-0.2423	-1.1829	0.0018	0.0048	HSPA4	heat shock protein_co	5	1.33E+08	1.33E+08	1	q31.1

ENSG00000257093	-0.2432	-1.1836	0.0083	0.0199 KIAA1147	KIAA1147 [ protein_co	7	1.42E+08	1.42E+08	-1 q34
ENSG00000113194	-0.2433	-1.1837	0.0028	0.0073 FAF2	Fas associa protein_co	5	1.76E+08	1.77E+08	1 q35.2
ENSG00000111786	-0.2443	-1.1845	0.0003	0.0009 SRSF9	serine/argii protein_co	12	1.2E+08	1.2E+08	-1 q24.31
ENSG00000148943	-0.2443	-1.1846	0.0008	0.0022 LIN7C	lin-7 homoi protein_co	11	27494576	27506773	-1 p14.1
ENSG00000134982	-0.2448	-1.1849	0.0045	0.0114 APC	adenomatc protein_co	5	1.13E+08	1.13E+08	1 q22.2
ENSG00000107581	-0.2459	-1.1858	1.03E-05	3.79E-05 EIF3A	eukaryotic protein_co	10	1.19E+08	1.19E+08	-1 q26.11
ENSG00000086189	-0.2461	-1.186	0.0141	0.0323 DIMT1	DIM1 dime protein_co	5	62387254	62403939	-1 q12.1
ENSG00000117868	-0.2483	-1.1878	0.0041	0.0103 ESYT2	extended s protein_co	7	1.59E+08	1.59E+08	-1 q36.3
ENSG00000080345	-0.2488	-1.1882	0.0074	0.0179 RIF1	replication protein_co	2	1.51E+08	1.52E+08	1 q23.3
ENSG00000112851	-0.2493	-1.1887	0.0002	0.0006 ERBB2IP	erbb2 inter protein_co	5	65926475	66082549	1 q12.3
ENSG00000170832	-0.2498	-1.189	0.0028	0.0072 USP32	ubiquitin s protein_co	17	60179094	60422470	-1 q23.2
ENSG00000107951	-0.2498	-1.189	0.0138	0.0317 MTPAP	mitochond protein_co	10	30309801	30374448	-1 p11.23
ENSG00000011566	-0.2499	-1.1891	0.0136	0.0312 MAP4K3	mitogen-ac protein_co	2	39249266	39437312	-1 p22.1
ENSG00000165688	-0.2502	-1.1894	0.0078	0.0187 PMPCA	peptidase ( protein_co	9	1.36E+08	1.36E+08	1 q34.3
ENSG00000133872	-0.2503	-1.1894	0.0123	0.0284 SARAF	store-oper protein_co	8	30063012	30083208	-1 p12
ENSG00000121892	-0.2507	-1.1898	0.001	0.0028 PDS5A	PDS5, regul protein_co	4	39822863	39977956	-1 p14
ENSG00000049656	-0.2528	-1.1915	0.0196	0.0433 CLPTM1L	CLPTM1-lik protein_co	5	1317744	1345099	-1 p15.33
ENSG00000109920	-0.2533	-1.1919	0.004	0.0102 FNBP4	formin binc protein_co	11	47716517	47767443	-1 p11.2
ENSG00000130741	-0.2534	-1.192	0.0016	0.0043 EIF2S3	eukaryotic protein_co X		24054716	24077971	1 p22.11
ENSG00000116514	-0.254	-1.1925	0.0124	0.0288 EIF19B	ring finger protein_co	1	32936445	32964685	-1 p35.1
ENSG00000184939	-0.254	-1.1925	0.0179	0.0399 ZFP90	ZFP90 zinc protein_co	16	68530090	68576072	1 q22.1
ENSG00000065457	-0.2541	-1.1926	0.005	0.0126 ADAT1	adenosine protein_co	16	75596981	75623300	-1 q23.1
ENSG00000170144	-0.2543	-1.1927	0.0033	0.0085 HNRNPA3	heterogene protein_co	2	1.77E+08	1.77E+08	1 q31.2
ENSG00000132680	-0.257	-1.195	0.0043	0.011 KIAA0907	KIAA0907 [ protein_co	1	1.56E+08	1.56E+08	-1 q22
ENSG00000163755	-0.2572	-1.1951	0.0041	0.0105 HPS3	Hermansky protein_co	3	1.49E+08	1.49E+08	1 q24
ENSG00000160199	-0.2596	-1.1972	0.018	0.0403 PKNOX1	PBX/knotte protein_co	21	42974510	43033931	1 q22.3
ENSG00000135766	-0.2603	-1.1977	0.0071	0.0174 EGLN1	egl-9 famil protein_co	1	2.31E+08	2.31E+08	-1 q42.2
ENSG00000168092	-0.2604	-1.1978	0.0003	0.0009 PAFAH1B2	platelet-act protein_co	11	1.17E+08	1.17E+08	1 q23.3
ENSG00000099956	-0.2607	-1.1981	0.0064	0.0158 SMARCB1	SWI/SNF re protein_co	22	23786963	23834516	1 q11.23
ENSG00000004142	-0.2611	-1.1984	0.0024	0.0064 POLDIP2	polymerase protein_co	17	28347177	28357522	-1 q11.2
ENSG00000185753	-0.2616	-1.1988	0.0089	0.0212 CXorf38	chromoson protein_co X		40626921	40647554	-1 p11.4
ENSG00000129245	-0.2628	-1.1998	0.0143	0.0326 FXR2	fragile X m protein_co	17	7591230	7614871	-1 p13.1
ENSG00000115808	-0.2629	-1.1999	0.0027	0.0071 STRN	striatin, cal protein_co	2	36843640	36966472	-1 p22.2
ENSG00000174606	-0.2631	-1.2	0.0114	0.0267 ANGEL2	angel homc protein_co	1	2.13E+08	2.13E+08	-1 q32.3
ENSG00000131508	-0.2631	-1.2001	0.0012	0.0034 UBE2D2	ubiquitin-c protein_co	5	1.4E+08	1.4E+08	1 q31.2
ENSG00000108604	-0.2659	-1.2024	0.015	0.034 SMARCD2	SWI/SNF re protein_co	17	63832081	63843065	-1 q23.3
ENSG00000155008	-0.2676	-1.2038	0.0048	0.0121 APOOL	apolipopro protein_co X		85003826	85093316	1 q21.1
ENSG00000084090	-0.2679	-1.204	9.58E-05	0.0003 STARD7	StAR-relate protein_co	2	96184859	96208825	-1 q11.2
ENSG00000171862	-0.2681	-1.2042	0.0051	0.0127 PTEN	phosphata: protein_co	10	87863113	87971930	1 q23.31
ENSG00000104361	-0.2683	-1.2044	0.0002	0.0005 NIPAL2	NIPA-like d protein_co	8	98189833	98294393	-1 q22.2
ENSG00000125826	-0.2685	-1.2046	0.0115	0.0268 RBCK1	RanBP-type protein_co	20	407498	430966	1 p13



ENSG00000118260	-0.2696	-1.2055	0.0003	0.0009 CREB1	cAMP resp; protein_co	2	2.08E+08	2.08E+08	1 q33.3
ENSG00000161654	-0.2698	-1.2057	0.0066	0.0161 LSM12	LSM12 hon protein_co	17	44034635	44067619	-1 q21.31
ENSG00000167674	-0.2704	-1.2061	0.0002	0.0006 HDGFRP2;	Hepatoma- protein_co	19	4472287	4502211	1 p13.3
ENSG00000113648	-0.2707	-1.2064	0.0018	0.0049 H2AFY	H2A histon protein_co	5	1.35E+08	1.35E+08	-1 q31.1
ENSG00000153827	-0.2712	-1.2068	7.67E-06	2.88E-05 TRIP12	thyroid hor protein_co	2	2.3E+08	2.3E+08	-1 q36.3
ENSG00000164329	-0.2717	-1.2072	2.72E-05	9.57E-05 PAPD4	PAP associ; protein_co	5	79612120	79686648	1 q14.1
ENSG00000117222	-0.2718	-1.2073	0.0124	0.0286 RBBP5	retinoblast; protein_co	1	2.05E+08	2.05E+08	-1 q32.1
ENSG00000135090	-0.2723	-1.2078	0.0036	0.0092 TAOK3	TAO kinase protein_co	12	1.18E+08	1.18E+08	-1 q24.23
ENSG00000120029	-0.2728	-1.2082	0.0038	0.0096 C10orf76	chromoson protein_co	10	1.02E+08	1.02E+08	-1 q24.32
ENSG00000147274	-0.2736	-1.2088	0.0008	0.0022 RBMX	RNA bindin protein_co X		1.37E+08	1.37E+08	-1 q26.3
ENSG00000266338	-0.2737	-1.2089	0.0195	0.0431 NBPF15	neuroblast; protein_co	1	1.44E+08	1.44E+08	-1 q21.1
ENSG00000198695	-0.2751	-1.21	0.0177	0.0396 MT-ND6	mitochond; protein_co MT		14149	14673	-1
ENSG00000073169	-0.275	-1.21	0.0194	0.0429 SELO	selenoprot; protein_co	22	50200979	50217616	1 q13.33
ENSG00000163947	-0.2762	-1.211	0.0046	0.0117 ARHGEF3	Rho guanin protein_co	3	56727418	57079329	-1 p14.3
ENSG00000166619	-0.2768	-1.2115	0.0001	0.0004 BLCAP	bladder car protein_co	20	37492472	37527931	-1 q11.23
ENSG00000147050	-0.278	-1.2125	0.0023	0.006 KDM6A	lysine (K)-s; protein_co X		44873177	45112602	1 p11.3
ENSG00000128989	-0.278	-1.2125	0.004	0.0101 ARPP19	cAMP-regu protein_co	15	52547045	52569883	-1 q21.2
ENSG00000158290	-0.2782	-1.2127	0.0085	0.0205 CUL4B	cullin 4B [S; protein_co X		1.21E+08	1.21E+08	-1 q24
ENSG00000145740	-0.2783	-1.2128	5.66E-05	0.0002 SLC30A5	solute carri protein_co	5	69093646	69131069	1 q13.1
ENSG00000112511	-0.2784	-1.2128	0.0141	0.0322 PHF1	PHD finger protein_co	6	33410399	33416453	1 p21.32
ENSG00000108100	-0.2786	-1.213	0.0001	0.0003 CCNY	cyclin Y [So protein_co	10	35247025	35572669	1 p11.21
ENSG00000141002	-0.2799	-1.2141	0.001	0.0029 TCF25	transcripti protein_co	16	89873586	89911384	1 q24.3
ENSG00000138688	-0.2802	-1.2144	0.0027	0.0071 KIAA1109	KIAA1109 [ protein_co	4	1.22E+08	1.22E+08	1 q27
ENSG00000075785	-0.2819	-1.2158	0.0008	0.0023 RAB7A	RAB7A, me protein_co	3	1.29E+08	1.29E+08	1 q21.3
ENSG00000114648	-0.2826	-1.2164	0.0223	0.0486 KLHL18	kelch-like fi; protein_co	3	47282917	47346816	1 p21.31
ENSG00000151923	-0.2828	-1.2165	0.001	0.0027 TIAL1	TIA1 cytotc protein_co	10	1.2E+08	1.2E+08	-1 q26.11
ENSG00000102763	-0.2828	-1.2165	0.0066	0.0162 VWAS	von Willebr; protein_co	13	41566837	41961120	-1 q14.11
ENSG00000099899	-0.2827	-1.2165	0.0113	0.0265 TRMT2A	tRNA meth protein_co	22	20111866	20117392	-1 q11.21
ENSG00000124193	-0.2842	-1.2177	0.01	0.0237 SRSF6	serine/argii protein_co	20	43457928	43464247	1 q13.11
ENSG00000159792	-0.2846	-1.2181	0.0067	0.0163 PSKH1	protein ser protein_co	16	67893272	67929678	1 q22.1
ENSG00000168172	-0.2854	-1.2187	0.0081	0.0196 HOOK3	hook micro protein_co	8	42896932	43030539	1 p11.21
ENSG00000173264	-0.286	-1.2193	0.019	0.0422 GPR137	G protein-c protein_co	11	64270062	64289500	1 q13.1
ENSG00000144909	-0.2871	-1.2202	0.0062	0.0153 OSBPL11	oxysterol b protein_co	3	1.26E+08	1.26E+08	-1 q21.2
ENSG00000133961	-0.2878	-1.2207	2.32E-05	8.23E-05 NUMB	numb hom protein_co	14	73275107	73463642	-1 q24.3
ENSG00000143079	-0.2877	-1.2207	0.0016	0.0044 CTTNBP2NL	CTTNBP2 N protein_co	1	1.12E+08	1.12E+08	1 p13.2
ENSG00000179041	-0.2879	-1.2209	0.0148	0.0337 RRS1	RRS1 ribos; protein_co	8	66429028	66430733	1 q13.1
ENSG00000153107	-0.2884	-1.2213	0.0066	0.0163 ANAPC1	anaphase p; protein_co	2	1.12E+08	1.12E+08	-1 q13
ENSG00000224870	-0.2891	-1.2218	0.0187	0.0415 RP4-758J18.2	processed_	1	1399522	1402046	1 p36.33
ENSG00000138802	-0.2906	-1.2231	0.0001	0.0003 SEC24B	SEC24 fami protein_co	4	1.09E+08	1.1E+08	1 q25
ENSG00000152620	-0.291	-1.2235	0.0122	0.0282 NADK2	NAD kinase protein_co	5	36192592	36242279	-1 p13.2
ENSG00000061676	-0.2912	-1.2237	0.0191	0.0423 NCKAP1	NCK-associ protein_co	2	1.83E+08	1.83E+08	-1 q32.1



ENSG00000113838	-0.2913	-1.2238	0.0153	0.0347	TBCCD1	TBC domain protein_co	3	1.87E+08	1.87E+08	-1	q27.3
ENSG00000110066	-0.2933	-1.2255	0.0003	0.0009	SUV420H1	suppressor protein_co	11	68154863	68213828	-1	q13.2
ENSG00000069275	-0.2935	-1.2256	0.0001	0.0004	NUCKS1	nuclear cas protein_co	1	2.06E+08	2.06E+08	-1	q32.1
ENSG00000144043	-0.2938	-1.2259	0.0036	0.0092	TEX261	testis expre protein_co	2	70985938	70994945	-1	p13.3
ENSG00000120800	-0.2945	-1.2265	0.0075	0.0181	UTP20	UTP20, sm; protein_co	12	1.01E+08	1.01E+08	1	q23.2
ENSG00000071626	-0.295	-1.2269	0.0007	0.0021	DAZAP1	DAZ associ; protein_co	19	1407569	1435687	1	p13.3
ENSG00000168769	-0.2956	-1.2274	0.0065	0.0161	TET2	tet methylc protein_co	4	1.05E+08	1.05E+08	1	q24
ENSG00000196670	-0.296	-1.2278	0.0028	0.0072	ZFP62	ZFP62 zinc protein_co	5	1.81E+08	1.81E+08	-1	q35.3
ENSG00000128000	-0.2963	-1.228	0.0088	0.021	ZNF780B	zinc finger   protein_co	19	40028260	40056209	-1	q13.2
ENSG00000108506	-0.2972	-1.2288	0.015	0.034	INTS2	integrator c protein_co	17	61865367	61928016	-1	q23.2
ENSG00000177963	-0.2974	-1.2289	0.0151	0.0342	RIC8A	RIC8 guanir protein_co	11	207511	215113	1	p15.5
ENSG00000100711	-0.2979	-1.2294	0.0002	0.0007	ZFYVE21	zinc finger, protein_co	14	1.04E+08	1.04E+08	1	q32.33
ENSG00000071537	-0.2981	-1.2295	0.0085	0.0205	SEL1L	sel-1 suppr protein_co	14	81471549	81533861	-1	q31.1
ENSG00000179195	-0.2997	-1.2309	0.0027	0.0071	ZNF664	zinc finger   protein_co	12	1.24E+08	1.24E+08	1	q24.31
ENSG00000065243	-0.2998	-1.231	0.0021	0.0055	PKN2	protein kin. protein_co	1	88684222	88836255	1	p22.2
ENSG00000131724	-0.2999	-1.2311	0.0066	0.0162	IL13RA1	interleukin protein_co X		1.19E+08	1.19E+08	1	q24
ENSG00000047410	-0.3001	-1.2312	0.0004	0.0013	TPR	translocate protein_co	1	1.86E+08	1.86E+08	-1	q31.1
ENSG00000101966	-0.3003	-1.2314	0.0029	0.0076	XIAP	X-linked inf protein_co X		1.24E+08	1.24E+08	1	q25
ENSG00000137992	-0.3004	-1.2315	0.0088	0.0211	DBT	dihydrolicp protein_co	1	1E+08	1E+08	-1	p21.2
ENSG00000105705	-0.3016	-1.2325	0.012	0.0278	SUGP1	SURP and C protein_co	19	19276018	19320844	-1	p13.11
ENSG00000170949	-0.302	-1.2329	0.002	0.0054	ZNF160	zinc finger   protein_co	19	53066606	53103436	-1	q13.42
ENSG00000052723	-0.3028	-1.2335	0.0037	0.0095	SIKE1	suppressor protein_co	1	1.15E+08	1.15E+08	-1	p13.2
ENSG00000145041	-0.3029	-1.2336	0.0163	0.0367	VPRBP	Vpr (HIV-1) protein_co	3	51395867	51500002	-1	p21.2
ENSG00000158467	-0.3031	-1.2338	0.0079	0.0191	AHCYL2	adenosylhc protein_co	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000135018	-0.3031	-1.2338	0.0083	0.0199	UBQLN1	ubiquilin 1 protein_co	9	83659963	83708203	-1	q21.32
ENSG00000263465	-0.3034	-1.2341	0.0005	0.0015	SRSF8	serine/argi; protein_co	11	95067197	95071224	1	q21
ENSG00000172830	-0.3034	-1.2341	0.0089	0.0212	SSH3	slingshot pi protein_co	11	67303448	67312607	1	q13.2
ENSG00000120709	-0.3036	-1.2343	0.0013	0.0036	FAM53C	family with protein_co	5	1.38E+08	1.38E+08	1	q31.2
ENSG00000183808	-0.3055	-1.2359	0.0026	0.0068	RBM12B	RNA bindin protein_co	8	93729356	93741017	-1	q22.1
ENSG00000077097	-0.3058	-1.2361	2.64E-05	9.31E-05	TOP2B	topoisomer protein_co	3	25597905	25664907	-1	p24.2
ENSG00000101596	-0.3061	-1.2364	0.0013	0.0035	SMCHD1	structural r protein_co	18	2655738	2805017	1	p11.32
ENSG00000115694	-0.3061	-1.2364	0.0113	0.0264	STK25	serine/thre protein_co	2	2.41E+08	2.42E+08	-1	q37.3
ENSG00000180891	-0.3062	-1.2365	0.0023	0.0061	CUEDC1	CUE domai protein_co	17	57861243	57955323	-1	q22
ENSG00000119707	-0.3069	-1.237	0.0021	0.0057	RBM25	RNA bindin protein_co	14	73058436	73123898	1	q24.2
ENSG00000144579	-0.3077	-1.2378	0.0038	0.0098	CTDSP1	CTD (carbo protein_co	2	2.18E+08	2.18E+08	1	q35
ENSG00000136448	-0.3079	-1.2379	0.0009	0.0025	NMT1	N-myristoy protein_co	17	45051610	45109016	1	q21.31
ENSG00000175066	-0.3083	-1.2382	0.0218	0.0478	GK5	glycerol kin protein_co	3	1.42E+08	1.42E+08	-1	q23
ENSG00000099940	-0.3091	-1.2389	3.13E-05	0.0001	SNAP29	synaptosor protein_co	22	20858983	20891218	1	q11.21
ENSG00000064419	-0.3092	-1.239	0.0021	0.0057	TNPO3	transportin protein_co	7	1.29E+08	1.29E+08	-1	q32.1
ENSG00000145216	-0.3094	-1.2392	0.0006	0.0018	FIP1L1	factor inter protein_co	4	53377643	54295272	1	q12
ENSG00000213020	-0.3095	-1.2393	0.0101	0.0238	ZNF611	zinc finger   protein_co	19	52702813	52735073	-1	q13.41

ENSG00000107897	-0.3099	-1.2396	0.002	0.0053 ACBD5	acyl-CoA bi protein_co	10	27195214	27242130	-1 p12.1
ENSG00000123064	-0.3103	-1.24	0.0014	0.004 DDX54	DEAD (Asp- protein_co	12	1.13E+08	1.13E+08	-1 q24.13
ENSG00000119392	-0.311	-1.2406	0.0205	0.0451 GLE1	GLE1 RNA ε protein_co	9	1.29E+08	1.29E+08	1 q34.11
ENSG00000177105	-0.3115	-1.241	0.0211	0.0464 RHOG	ras homolo protein_co	11	3826978	3840983	-1 p15.4
ENSG00000111361	-0.3118	-1.2412	0.0075	0.0182 EIF2B1	eukaryotic protein_co	12	1.24E+08	1.24E+08	-1 q24.31
ENSG00000107959	-0.312	-1.2415	0.0029	0.0075 PITRM1	pitrilysin m protein_co	10	3137728	3172841	-1 p15.2
ENSG00000112414	-0.3127	-1.242	0.015	0.0341 GPR126	G protein-c protein_co	6	1.42E+08	1.42E+08	1 q24.2
ENSG00000103544	-0.3128	-1.2421	0.0031	0.0079 C16orf62	chromoson protein_co	16	19555240	19706793	1 p12.3
ENSG00000143179	-0.313	-1.2423	0.0065	0.0159 UCK2	uridine-cyti protein_co	1	1.66E+08	1.66E+08	1 q24.1
ENSG00000165282	-0.315	-1.244	0.0003	0.0009 PIGO	phosphatid protein_co	9	35088688	35096601	-1 p13.3
ENSG00000172795	-0.3151	-1.2441	0.0045	0.0115 DCP2	decapping protein_co	5	1.13E+08	1.13E+08	1 q22.2
ENSG00000126254	-0.3154	-1.2444	0.0027	0.0071 RBM42	RNA bindin protein_co	19	35629030	35637686	1 q13.12
ENSG00000133812	-0.3158	-1.2447	0.0044	0.0112 SBF2	SET binding protein_co	11	9778667	10294207	-1 p15.4
ENSG00000163684	-0.316	-1.2449	0.0115	0.0268 RPP14	ribonuclea protein_co	3	58306247	58324695	1 p14.3
ENSG00000168724	-0.3166	-1.2454	0.0002	0.0007 DNAJC21	DnaJ (Hsp4 protein_co	5	34929593	34958964	1 p13.2
ENSG00000126934	-0.3166	-1.2454	0.0026	0.0068 MAP2K2	mitogen-ac protein_co	19	4090321	4124129	-1 p13.3
ENSG00000149182	-0.3167	-1.2455	0.0009	0.0025 ARFGAP2	ADP-ribosy protein_co	11	47164299	47177125	-1 p11.2
ENSG00000145780	-0.317	-1.2458	0.0094	0.0223 FEM1C	fem-1 hom protein_co	5	1.16E+08	1.16E+08	-1 q22.3
ENSG00000146247	-0.3174	-1.2461	0.0008	0.0023 PHIP	pleckstrin t protein_co	6	78935867	79078236	-1 q14.1
ENSG00000131845	-0.3181	-1.2467	0.0126	0.0291 ZNF304	zinc finger   protein_co	19	57351307	57359898	1 q13.43
ENSG00000117620	-0.3183	-1.2468	0.0101	0.0237 SLC35A3	solute carri protein_co	1	99969789	1E+08	1 p21.2
ENSG00000156136	-0.3191	-1.2476	0.0195	0.0431 DCK	deoxycytidi protein_co	4	70992538	71030914	1 q13.3
ENSG00000132912	-0.3192	-1.2477	2.27E-06	9.06E-06 DCTN4	dynactin 4 protein_co	5	1.51E+08	1.51E+08	-1 q33.1
ENSG00000158526	-0.3193	-1.2477	0.0009	0.0026 TSR2	TSR2, 20S r protein_co X		54440401	54445487	1 p11.22
ENSG00000174373	-0.3213	-1.2494	0.0017	0.0047 RALGAPA1	Ral GTPase protein_co	14	35538352	35809304	-1 q13.2
ENSG00000167925	-0.3212	-1.2494	0.0054	0.0135 GHDC	GH3 domai protein_co	17	42188799	42194532	-1 q21.2
ENSG00000113384	-0.322	-1.2501	7.26E-06	2.73E-05 GOLPH3	golgi phosp protein_co	5	32124704	32174350	-1 p13.3
ENSG00000177885	-0.3224	-1.2504	3.45E-05	0.0001 GRB2	growth fact protein_co	17	75318076	75405709	-1 q25.1
ENSG00000077147	-0.3224	-1.2504	0.005	0.0126 TM9SF3	transmemt protein_co	10	96518109	96587452	-1 q24.1
ENSG00000136478	-0.3226	-1.2505	0.0003	0.0008 TEX2	testis expre protein_co	17	64147227	64263301	-1 q23.3
ENSG00000113658	-0.3226	-1.2506	0.0031	0.0082 SMAD5	SMAD fami protein_co	5	1.36E+08	1.36E+08	1 q31.1
ENSG00000141279	-0.3232	-1.2511	0.0009	0.0025 NPEPPS	aminopept protein_co	17	47522942	47623276	1 q21.32
ENSG00000133597	-0.3232	-1.2511	0.0022	0.006 ADCK2	aarF domai protein_co	7	1.41E+08	1.41E+08	1 q34
ENSG00000173327	-0.3239	-1.2517	0.0004	0.0011 MAP3K11	mitogen-ac protein_co	11	65597755	65615382	-1 q13.1
ENSG00000136709	-0.3245	-1.2522	1.19E-05	4.37E-05 WDR33	WD repeat protein_co	2	1.28E+08	1.28E+08	-1 q14.3
ENSG00000166848	-0.3246	-1.2523	0.0017	0.0047 TERF2IP	telomeric r protein_co	16	75647786	75761872	1 q23.1
ENSG00000099622	-0.3251	-1.2527	1.30E-07	5.88E-07 CIRBP	cold inducil protein_co	19	1259384	1274880	1 p13.3
ENSG00000124831	-0.3251	-1.2527	0.0006	0.0017 LRRFIP1	leucine rich protein_co	2	2.38E+08	2.38E+08	1 q37.3
ENSG00000147457	-0.325	-1.2527	0.0046	0.0116 CHMP7	charged m protein_co	8	23243637	23262000	1 p21.3
ENSG00000153066	-0.3256	-1.2532	0.003	0.0079 TXNDC11	thioredoxir protein_co	16	11679080	11742878	-1 p13.13
ENSG00000162302	-0.3259	-1.2534	0.0009	0.0026 RPS6KA4	ribosomal t protein_co	11	64359148	64372215	1 q13.1

ENSG00000184292	-0.326	-1.2535	0.0021	0.0055 TACSTD2	tumor-assc protein_co	1	58575423	58577773	-1 p32.1
ENSG00000168872	-0.3261	-1.2537	0.0019	0.0052 DDX19A	DEAD (Asp- protein_co	16	70299224	70373383	1 q22.1
ENSG00000078140	-0.3264	-1.2539	2.41E-05	8.53E-05 UBE2K	ubiquitin-c1 protein_co	4	39698044	39782792	1 p14
ENSG00000138386	-0.3268	-1.2542	0.0001	0.0003 NAB1	NGFI-A bin1 protein_co	2	1.91E+08	1.91E+08	1 q32.2
ENSG00000161999	-0.3278	-1.2551	0.0016	0.0043 JMJD8	jumonji doi protein_co	16	681671	684528	-1 p13.3
ENSG00000152601	-0.3279	-1.2552	0.0014	0.004 MBNL1	muscleblin1 protein_co	3	1.52E+08	1.52E+08	1 q25.1
ENSG00000213859	-0.3282	-1.2554	0.0046	0.0117 KCTD11	potassium 1 protein_co	17	7351889	7354944	1 p13.1
ENSG00000133313	-0.3282	-1.2555	0.0005	0.0016 CNDP2	CNDP dipep protein_co	18	74495816	74523454	1 q22.3
ENSG00000213639	-0.3285	-1.2557	0.0112	0.0263 PPP1CB	protein phc protein_co	2	28751640	28802940	1 p23.2
ENSG00000167797	-0.3291	-1.2562	0.0094	0.0224 CDK2AP2	cyclin-depe protein_co	11	67506497	67508649	-1 q13.2
ENSG00000166704	-0.3313	-1.2581	0.009	0.0215 ZNF606	zinc finger 1 protein_co	19	57977053	58003349	-1 q13.43
ENSG00000168781	-0.3319	-1.2587	0.0067	0.0165 PPIP5K1	diphosphoi protein_co	15	43533462	43590253	-1 q15.3
ENSG00000101266	-0.3325	-1.2592	6.62E-05	0.0002 CSNK2A1	casein kina protein_co	20	473591	543821	-1 p13
ENSG00000063244	-0.3327	-1.2594	1.91E-05	6.85E-05 U2AF2	U2 small n1 protein_co	19	55654146	55674715	1 q13.42
ENSG00000119401	-0.3331	-1.2597	0.0003	0.0011 TRIM32	tripartite r1 protein_co	9	1.17E+08	1.17E+08	1 q33.1
ENSG00000089916	-0.3333	-1.2599	0.0005	0.0016 GPATCH2L	G patch do protein_co	14	76151916	76254342	1 q24.3
ENSG00000072415	-0.3334	-1.26	0.0015	0.0041 MPP5	membrane protein_co	14	67241109	67335819	1 q23.3
ENSG00000107679	-0.3339	-1.2604	0.0015	0.0042 PLEKHA1	pleckstrin 1 protein_co	10	1.22E+08	1.22E+08	1 q26.13
ENSG00000197217	-0.3347	-1.2611	0.003	0.0077 ENTPD4	ectonucleo protein_co	8	23385783	23457695	-1 p21.3
ENSG00000132478	-0.3359	-1.2621	0.006	0.0148 UNK	unkempt fe protein_co	17	75784771	75825799	1 q25.1
ENSG00000266962	-0.3359	-1.2622	0.0214	0.047 RP11-400F19.6	antisense	17	42552436	42554748	-1 q21.2
ENSG00000158201	-0.3361	-1.2623	0.0014	0.0037 ABHD3	abhydrolas protein_co	18	21650897	21704805	-1 q11.2
ENSG00000059378	-0.3363	-1.2625	0.0069	0.0169 PARP12	poly (ADP-r protein_co	7	1.4E+08	1.4E+08	-1 q34
ENSG00000172296	-0.3362	-1.2625	0.0193	0.0428 SPTLC3	serine palm protein_co	20	13008979	13169103	1 p12.1
ENSG00000130204	-0.3372	-1.2633	0.0005	0.0014 TOMM40	translocase protein_co	19	44890569	44903689	1 q13.32
ENSG00000108179	-0.3376	-1.2636	0.01	0.0235 PPIF	peptidylprc protein_co	10	79347469	79355337	1 q22.3
ENSG00000170035	-0.3375	-1.2636	0.0116	0.027 UBE2E3	ubiquitin-c1 protein_co	2	1.81E+08	1.81E+08	1 q31.3
ENSG00000161542	-0.3377	-1.2638	0.0014	0.0038 PRPSAP1	phosphorit protein_co	17	76309486	76384521	-1 q25.1
ENSG00000103510	-0.3378	-1.2638	0.0036	0.0093 KAT8	K(lysine) ac protein_co	16	31115754	31131393	1 p11.2
ENSG00000172007	-0.3383	-1.2642	0.0176	0.0395 RAB33B	RAB33B, m protein_co	4	1.39E+08	1.39E+08	1 q31.1
ENSG00000160588	-0.3386	-1.2645	0.0181	0.0404 MPZL3	myelin prot protein_co	11	1.18E+08	1.18E+08	-1 q23.3
ENSG00000085117	-0.3388	-1.2647	0.0071	0.0172 CD82	CD82 mole protein_co	11	44564427	44620363	1 p11.2
ENSG00000160753	-0.3393	-1.2651	0.0034	0.0087 RUSC1	RUN and S1 protein_co	1	1.55E+08	1.55E+08	1 q22
ENSG00000101997	-0.3396	-1.2654	0.0089	0.0213 CCDC22	coiled-coil 1 protein_co X		49235467	49250526	1 p11.23
ENSG00000182944	-0.3397	-1.2655	0.0006	0.0017 EWSR1	EWS RNA-t protein_co	22	29268009	29300525	1 q12.2
ENSG00000153214	-0.3399	-1.2657	0.0065	0.016 TMEM87B	transmemt protein_co	2	1.12E+08	1.12E+08	1 q13
ENSG00000169045	-0.3405	-1.2662	2.71E-05	9.54E-05 HNRNPH1	heterogene protein_co	5	1.8E+08	1.8E+08	-1 q35.3
ENSG00000012174	-0.341	-1.2666	0.0037	0.0095 MBTPS2	membrane protein_co X		21839636	21885424	1 p22.12
ENSG00000116747	-0.3413	-1.2669	0.0027	0.0071 TROVE2	TROVE don protein_co	1	1.93E+08	1.93E+08	1 q31.2
ENSG00000163930	-0.3414	-1.267	0.0067	0.0164 BAP1	BRCA1 assc protein_co	3	52401013	52410350	-1 p21.1
ENSG00000143761	-0.3419	-1.2674	1.09E-05	4.01E-05 ARF1	ADP-ribosy protein_co	1	2.28E+08	2.28E+08	1 q42.13

ENSG00000100109	-0.3422	-1.2677	0.0024	0.0064	TFIP11	tuftelin int protein_co	22	26491225	26512505	-1	q12.1
ENSG00000278259	-0.3441	-1.2693	0.001	0.0028	MYO19	myosin XIX protein_co	17	36495633	36543435	-1	q12
ENSG00000215193	-0.3441	-1.2694	2.28E-05	8.12E-05	PEX26	peroxisoma protein_co	22	18077920	18131138	1	q11.21
ENSG00000141560	-0.3444	-1.2696	0.0015	0.0042	FN3KRP	fructosamin protein_co	17	82716683	82730328	1	q25.3
ENSG00000154639	-0.3449	-1.2701	0.0137	0.0314	CXADR	coxsackie v protein_co	21	17512382	17593579	1	q21.1
ENSG00000187866	-0.3468	-1.2717	9.30E-05	0.0003	FAM122A	family with protein_co	9	68780055	68784608	1	q21.11
ENSG00000085982	-0.3474	-1.2722	0.0009	0.0024	USP40	ubiquitin s protein_co	2	2.33E+08	2.34E+08	-1	q37.1
ENSG00000172932	-0.3476	-1.2724	0.0036	0.0092	ANKRD13D	ankyrin rep protein_co	11	67288547	67302485	1	q13.2
ENSG00000002587	-0.3475	-1.2724	0.009	0.0215	HS3ST1	heparan su protein_co	4	11393150	11429765	-1	p15.33
ENSG00000162434	-0.348	-1.2728	0.0006	0.0016	JAK1	Janus kinas protein_co	1	64833229	64966504	-1	p31.3
ENSG00000197858	-0.3491	-1.2737	0.0005	0.0015	GPAA1	glycosylphc protein_co	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000188997	-0.3494	-1.2741	0.0034	0.0087	KCTD21	potassium protein_co	11	78171249	78188822	-1	q14.1
ENSG00000128973	-0.3497	-1.2743	0.0096	0.0228	CLN6	ceroid-lipoi protein_co	15	68206992	68257211	-1	q23
ENSG00000257315	-0.3498	-1.2744	0.0177	0.0396	ZBED6	zinc finger, protein_co	1	2.04E+08	2.04E+08	1	q32.1
ENSG00000100075	-0.3501	-1.2747	0.0027	0.0072	SLC25A1	solute carri protein_co	22	19175575	19178830	-1	q11.21
ENSG00000164506	-0.3504	-1.275	3.02E-06	1.19E-05	STXBP5	syntaxin bli protein_co	6	1.47E+08	1.47E+08	1	q24.3
ENSG00000136861	-0.3509	-1.2753	0.004	0.0103	CDK5RAP2	CDK5 regul protein_co	9	1.2E+08	1.21E+08	-1	q33.2
ENSG00000115942	-0.3511	-1.2755	0.0009	0.0025	ORC2	origin reco protein_co	2	2.01E+08	2.01E+08	-1	q33.1
ENSG00000160959	-0.3515	-1.2759	0.009	0.0215	LRRC14	leucine rich protein_co	8	1.45E+08	1.45E+08	1	q24.3
ENSG00000178074	-0.3518	-1.2761	0.022	0.0482	C2orf69	chromoson protein_co	2	2E+08	2E+08	1	q33.1
ENSG00000076248	-0.3519	-1.2762	0.0066	0.0161	UNG	uracil-DNA protein_co	12	1.09E+08	1.09E+08	1	q24.11
ENSG00000101439	-0.3525	-1.2768	0.0116	0.0271	CST3	cystatin C [ protein_co	20	23626706	23638473	-1	p11.21
ENSG00000168310	-0.3528	-1.2771	0.0057	0.0142	IRF2	interferon i protein_co	4	1.84E+08	1.84E+08	-1	q35.1
ENSG00000167881	-0.3534	-1.2775	0.0017	0.0047	SRP68	signal reco protein_co	17	76038775	76072653	-1	q25.1
ENSG00000186532	-0.3542	-1.2783	0.0023	0.0062	SMYD4	SET and M protein_co	17	1779485	1830634	-1	p13.3
ENSG00000120539	-0.3544	-1.2784	0.0137	0.0314	MASTL	microtubul protein_co	10	27154824	27186924	1	p12.1
ENSG00000114770	-0.3547	-1.2787	0.0049	0.0123	ABCC5	ATP-bindin protein_co	3	1.84E+08	1.84E+08	-1	q27.1
ENSG00000139842	-0.355	-1.279	0.0002	0.0005	CUL4A	cullin 4A [S protein_co	13	1.13E+08	1.13E+08	1	q34
ENSG00000171604	-0.3551	-1.279	0.0003	0.0008	CXXC5	CXXC finger protein_co	5	1.4E+08	1.4E+08	1	q31.2
ENSG0000017797	-0.3551	-1.2791	1.85E-08	9.04E-08	RALBP1	ralA bindin protein_co	18	9475009	9538116	1	p11.22
ENSG00000198382	-0.3553	-1.2792	0.0005	0.0014	UVRAG	UV radiatio protein_co	11	75815167	76143195	1	q13.5
ENSG00000083642	-0.3553	-1.2792	0.001	0.0028	PDS5B	PDS5, regul protein_co	13	32586427	32778019	1	q13.1
ENSG00000113048	-0.3554	-1.2793	0.0013	0.0036	MRPS27	mitochondi protein_co	5	72219409	72320646	-1	q13.2
ENSG00000103005	-0.3553	-1.2793	0.0217	0.0475	USB1	U6 snRNA l protein_co	16	57999546	58021618	1	q21
ENSG00000147649	-0.3557	-1.2796	0.0008	0.0023	MTDH	metadherin protein_co	8	97644179	97728770	1	q22.1
ENSG00000173214	-0.3559	-1.2798	0.0083	0.02	KIAA1919	KIAA1919 [ protein_co	6	1.11E+08	1.11E+08	1	q21
ENSG00000174010	-0.3561	-1.2799	0.0111	0.0261	KLHL15	kelch-like f protein_co X	23983720	24027186	-1	p22.11	
ENSG00000102241	-0.3563	-1.2801	7.09E-05	0.0002	HTATSF1	HIV-1 Tat s protein_co X	1.36E+08	1.37E+08	1	q26.3	
ENSG00000125843	-0.3564	-1.2802	0.0224	0.0488	AP5S1	adaptor-rel protein_co	20	3820524	3828837	1	p13
ENSG00000198561	-0.3568	-1.2806	0.0027	0.0071	CTNND1	catenin (ca protein_co	11	57753243	57819546	1	q12.1
ENSG00000214944	-0.3569	-1.2807	0.0002	0.0006	ARHGEF28	Rho guanin protein_co	5	73626158	73941993	1	q13.2

ENSG00000099821	-0.3574	-1.2811	0.0003	0.0009 POLRMT	polymerase protein_co	19	617223	633604	-1 p13.3
ENSG00000263753	-0.3575	-1.2812	0.0006	0.0018 LINC00667	long interg lincRNA	18	5237826	5246508	1 p11.31
ENSG00000095139	-0.3578	-1.2815	0.0008	0.0024 ARCN1	archain 1 [s protein_co	11	1.19E+08	1.19E+08	1 q23.3
ENSG00000115365	-0.3587	-1.2822	0.0001	0.0005 LANCL1	LanC lantib protein_co	2	2.1E+08	2.1E+08	-1 q34
ENSG00000159166	-0.3593	-1.2828	0.0055	0.0138 LAD1	ladinin 1 [S protein_co	1	2.01E+08	2.01E+08	-1 q32.1
ENSG00000152642	-0.3594	-1.2829	0.0056	0.0139 GPD1L	glycerol-3- $\beta$ protein_co	3	32105689	32168713	1 p22.3
ENSG00000050748	-0.361	-1.2843	3.81E-05	0.0001 MAPK9	mitogen-ac protein_co	5	1.8E+08	1.8E+08	-1 q35.3
ENSG00000165997	-0.3614	-1.2847	0.0024	0.0065 ARL5B	ADP-ribosy protein_co	10	18659405	18681639	1 p12.31
ENSG00000174915	-0.3614	-1.2847	0.0027	0.0071 PTDSS2	phosphatid protein_co	11	448268	491399	1 p15.5
ENSG00000114315	-0.3617	-1.2849	0.0005	0.0016 HES1	hes family l protein_co	3	1.94E+08	1.94E+08	1 q29
ENSG00000158985	-0.3622	-1.2853	3.02E-05	0.0001 CDC42SE2	CDC42 sma protein_co	5	1.31E+08	1.31E+08	1 q31.1
ENSG00000179562	-0.3627	-1.2859	1.57E-05	5.70E-05 GCC1	GRIP and $\alpha$ protein_co	7	1.28E+08	1.28E+08	-1 q32.1
ENSG00000204439	-0.3632	-1.2862	0.0002	0.0005 C6orf47	chromoson protein_co	6	31658298	31660772	-1 p21.33
ENSG00000159388	-0.3632	-1.2862	0.0021	0.0055 BTG2	BTG family, protein_co	1	2.03E+08	2.03E+08	1 q32.1
ENSG00000100994	-0.3632	-1.2863	0.0043	0.0109 PYGB	phosphoryl protein_co	20	25248069	25298014	1 p11.21
ENSG00000089177	-0.3634	-1.2865	0.0006	0.0017 KIF16B	kinesin far protein_co	20	16272104	16573433	-1 p12.1
ENSG00000165288	-0.364	-1.287	0.0058	0.0144 BRWD3	bromodom protein_co X		80670854	80809688	-1 q21.1
ENSG00000025293	-0.3646	-1.2875	1.65E-07	7.41E-07 PHF20	PHD finger protein_co	20	35771974	35950381	1 q11.22
ENSG00000117505	-0.3647	-1.2877	0.0001	0.0004 DR1	down-regu protein_co	1	93345888	93369498	1 p22.1
ENSG00000137824	-0.3659	-1.2887	1.26E-06	5.19E-06 RMDN3	regulator o protein_co	15	40735884	40755851	-1 q15.1
ENSG00000140632	-0.3664	-1.2891	3.52E-05	0.0001 GLYR1	glyoxylate l protein_co	16	4803203	4847342	-1 p13.3
ENSG00000173581	-0.3667	-1.2894	0.0174	0.0389 CCDC106	coiled-coil ( protein_co	19	55641062	55653161	1 q13.42
ENSG00000177485	-0.3673	-1.2899	7.42E-06	2.79E-05 ZBTB33	zinc finger ( protein_co X		1.2E+08	1.2E+08	1 q24
ENSG00000132383	-0.3679	-1.2905	6.83E-05	0.0002 RPA1	replication protein_co	17	1829702	1900082	1 p13.3
ENSG00000166685	-0.3684	-1.2909	0.0021	0.0057 COG1	component protein_co	17	73192632	73208507	1 q25.1
ENSG00000132356	-0.3685	-1.291	6.77E-06	2.56E-05 PRKAA1	protein kin. protein_co	5	40759379	40798374	-1 p13.1
ENSG00000182150	-0.3685	-1.291	0.0005	0.0014 ERCC6L2	excision rej protein_co	9	95875701	96014571	1 q22.32
ENSG00000157107	-0.3689	-1.2914	0.0014	0.0039 FCHO2	FCH domai protein_co	5	72955981	73090522	1 q13.2
ENSG00000179335	-0.369	-1.2915	0.0014	0.0039 CLK3	CDC-like kir protein_co	15	74598500	74645414	1 q24.1
ENSG00000173818	-0.3706	-1.2929	0.0214	0.0469 ENDOV	endonucle: protein_co	17	80415165	80438086	1 q25.3
ENSG00000077721	-0.3707	-1.293	0.0156	0.0352 UBE2A	ubiquitin-c protein_co X		1.2E+08	1.2E+08	1 q24
ENSG00000164151	-0.3717	-1.2939	1.80E-05	6.47E-05 ICE1	interactor ( protein_co	5	5420664	5490234	1 p15.32
ENSG00000100439	-0.3723	-1.2945	0.0006	0.0017 ABHD4	abhydrolas protein_co	14	22598237	22613215	1 q11.2
ENSG00000104731	-0.3728	-1.2949	0.0068	0.0165 KLHDC4	kelch dom: protein_co	16	87696485	87765992	-1 q24.2
ENSG00000205268	-0.373	-1.295	0.0096	0.0227 PDE7A	phosphodi: protein_co	8	65717510	65842322	-1 q13.1
ENSG00000077713	-0.373	-1.2951	0.0047	0.012 SLC25A43	solute carri protein_co X		1.19E+08	1.19E+08	1 q24
ENSG00000087152	-0.3747	-1.2966	0.0003	0.001 ATXN7L3	ataxin 7-lik protein_co	17	44191805	44200113	-1 q21.31
ENSG00000127080	-0.375	-1.2968	0.0021	0.0056 IPPK	inositol 1,3 protein_co	9	92613184	92670265	-1 q22.31
ENSG00000225151	-0.3752	-1.297	0.0068	0.0167 GOLGA2P7	golgin A2 p transcribed	15	84199311	84230136	-1 q25.2
ENSG00000150768	-0.3752	-1.297	0.01	0.0237 DLAT	dihydrolipc protein_co	11	1.12E+08	1.12E+08	1 q23.1
ENSG00000135776	-0.3752	-1.297	0.0227	0.0496 ABCB10	ATP-bindin. protein_co	1	2.3E+08	2.3E+08	-1 q42.13



ENSG00000132376	-0.3755	-1.2973	0.0014	0.0039	INPP5K	inositol pol protein_co	17	1494571	1516888	-1	p13.3
ENSG00000167792	-0.3761	-1.2978	0.0017	0.0046	NDUFV1	NADH dehyprotein_co	11	67606852	67612535	1	q13.2
ENSG00000169762	-0.3762	-1.2979	0.0093	0.0222	TAPT1	transmemt protein_co	4	16160505	16227410	-1	p15.32
ENSG00000217128	-0.3781	-1.2996	0.0048	0.012	FNIP1	folliculin in protein_co	5	1.32E+08	1.32E+08	-1	q31.1
ENSG00000215301	-0.3784	-1.2999	1.69E-08	8.28E-08	DDX3X	DEAD (Asp-protein_co X		41333348	41364472	1	p11.4
ENSG00000108468	-0.3784	-1.2999	8.08E-05	0.0003	CBX1	chromobox protein_co	17	48070052	48101521	-1	q21.32
ENSG00000002834	-0.3785	-1.2999	0.0024	0.0062	LASP1	LIM and SH protein_co	17	38869859	38921770	1	q12
ENSG00000166881	-0.3786	-1.3001	0.0002	0.0007	TMEM194A	transmemt protein_co	12	57055643	57088063	-1	q13.3
ENSG00000067182	-0.3786	-1.3001	0.0084	0.0201	TNFRSF1A	tumor necr protein_co	12	6328757	6342114	-1	p13.31
ENSG00000048405	-0.3789	-1.3003	8.67E-05	0.0003	ZNF800	zinc finger   protein_co	7	1.27E+08	1.27E+08	-1	q31.33
ENSG00000067225	-0.3791	-1.3005	0.0125	0.0289	PKM	pyruvate ki protein_co	15	72199029	72231822	-1	q23
ENSG00000100034	-0.3803	-1.3016	0.0188	0.0417	PPM1F	protein phc protein_co	22	21919420	21952837	-1	q11.22
ENSG00000093183	-0.3804	-1.3017	0.001	0.0027	SEC22C	SEC22 vesic protein_co	3	42547969	42601080	-1	p22.1
ENSG00000213923	-0.3812	-1.3025	0.013	0.03	CSNK1E	casein kina protein_co	22	38290691	38398522	-1	q13.1
ENSG00000101752	-0.3816	-1.3028	0.0001	0.0004	MIB1	mindbomb protein_co	18	21704957	21870957	1	q11.2
ENSG00000175105	-0.3823	-1.3034	0.0082	0.0197	ZNF654	zinc finger   protein_co	3	88139104	88144665	1	p11.1
ENSG00000103490	-0.3829	-1.3039	0.002	0.0053	PYCARD	PYD and C/ protein_co	16	31201485	31203450	-1	p11.2
ENSG00000068878	-0.3829	-1.304	3.65E-05	0.0001	PSME4	proteasom protein_co	2	53864067	53970840	-1	p16.2
ENSG00000165449	-0.3832	-1.3042	0.0185	0.0411	SLC16A9	solute carri protein_co	10	59650761	59736002	-1	q21.2
ENSG00000136840	-0.3833	-1.3043	0.0152	0.0344	ST6GALNAC4	ST6 (alpha-protein_co	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000125149	-0.3843	-1.3053	0.0023	0.006	C16orf70	chromosom protein_co	16	67109958	67148539	1	q22.1
ENSG00000184898	-0.385	-1.3059	0.0141	0.0323	RBM43	RNA bindin protein_co	2	1.51E+08	1.51E+08	-1	q23.3
ENSG00000099968	-0.3852	-1.3061	8.44E-07	3.54E-06	BCL2L13	BCL2-like 1 protein_co	22	17628855	17730855	1	q11.21
ENSG00000196470	-0.3857	-1.3065	0.0011	0.0031	SIAH1	siah E3 ubi protein_co	16	48356364	48448402	-1	q12.1
ENSG00000130958	-0.3858	-1.3066	0.0016	0.0042	SLC35D2	solute carri protein_co	9	96320706	96383710	-1	q22.32
ENSG00000177189	-0.3862	-1.3069	4.38E-08	2.07E-07	RPS6KA3	ribosomal   protein_co X		20149911	20267100	-1	p22.12
ENSG00000125779	-0.3861	-1.3069	4.93E-05	0.0002	PANK2	pantothen; protein_co	20	3888839	3929882	1	p13
ENSG00000164808	-0.3862	-1.307	0.002	0.0055	SPIDR	scaffolding protein_co	8	47260575	47736306	1	q11.21
ENSG00000003402	-0.3864	-1.3071	1.08E-09	5.91E-09	CFLAR	CASP8 and protein_co	2	2.01E+08	2.01E+08	1	q33.1
ENSG00000153250	-0.3867	-1.3074	0.009	0.0214	RBMS1	RNA bindin protein_co	2	1.6E+08	1.6E+08	-1	q24.2
ENSG00000074603	-0.387	-1.3077	1.82E-07	8.13E-07	DPP8	dipeptidyl-  protein_co	15	65442463	65517704	-1	q22.31
ENSG00000165802	-0.3875	-1.3081	0.0071	0.0172	NSMF	NMDA rece protein_co	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000100614	-0.3879	-1.3085	6.92E-06	2.61E-05	PPM1A	protein phc protein_co	14	60245752	60299087	1	q23.1
ENSG00000163162	-0.3881	-1.3086	0.0016	0.0043	RNF149	ring finger   protein_co	2	1.01E+08	1.01E+08	-1	q11.2
ENSG00000099290	-0.3882	-1.3088	0.0009	0.0025	FAM21A	family with protein_co	10	50067888	50133509	1	q11.23
ENSG00000137055	-0.389	-1.3095	0.0002	0.0007	PLAA	phospholip protein_co	9	26904083	26947463	-1	p21.2
ENSG00000175087	-0.3905	-1.3108	0.0051	0.0128	PDIK1L	PDLIM1 int protein_co	1	26111165	26125543	1	p36.11
ENSG00000119760	-0.3908	-1.3111	0.0003	0.0009	SUPT7L	suppressor protein_co	2	27650812	27663840	-1	p23.3
ENSG00000197562	-0.3918	-1.312	0.0088	0.021	RAB40C	RAB40C, m protein_co	16	589357	629272	1	p13.3
ENSG00000024048	-0.3922	-1.3123	1.19E-06	4.92E-06	UBR2	ubiquitin pi protein_co	6	42564062	42693504	1	p21.1
ENSG00000090776	-0.3921	-1.3123	0.0021	0.0056	EFNB1	ephrin-B1   protein_co X		68828997	68842147	1	q13.1



ENSG00000112996	-0.3923	-1.3125	1.08E-06	4.48E-06	MRPS30	mitochond protein_co	5	44808925	44820428	1	p12
ENSG00000127995	-0.3932	-1.3133	0.0202	0.0445	CASD1	CAS1 domain protein_co	7	94509219	94557019	1	q21.3
ENSG00000106086	-0.3938	-1.3138	0.0003	0.0008	PLEKHA8	pleckstrin family protein_co	7	30027404	30130483	1	p14.3
ENSG00000165943	-0.394	-1.314	0.0144	0.0329	MOAP1	modulator protein_co	14	93182196	93184928	-1	q32.12
ENSG00000134108	-0.3943	-1.3143	0.0027	0.0072	ARL8B	ADP-ribosyl protein_co	3	5122220	5180912	1	p26.1
ENSG00000133318	-0.3945	-1.3145	0.0011	0.003	RTN3	reticulon 3 protein_co	11	63681446	63759891	1	q13.1
ENSG00000081923	-0.3948	-1.3148	0.0002	0.0007	ATP8B1	ATPase, anti-protein_co	18	57646426	57803101	-1	q21.31
ENSG00000137409	-0.395	-1.315	0.0015	0.004	MTCH1	mitochond protein_co	6	36968141	36986298	-1	p21.2
ENSG00000134278	-0.3958	-1.3157	0.0186	0.0413	SPIRE1	spire-type 1 protein_co	18	12446512	12658134	-1	p11.21
ENSG00000025039	-0.396	-1.3159	0.0195	0.043	RRAGD	Ras-related protein_co	6	89364636	89412270	-1	q15
ENSG00000146576	-0.3963	-1.3161	0.0132	0.0304	C7orf26	chromosome protein_co	7	6590017	6608726	1	p22.1
ENSG00000132128	-0.3966	-1.3164	3.35E-05	0.0001	LRRC41	leucine rich protein_co	1	46261196	46303608	-1	p33
ENSG00000113580	-0.3969	-1.3166	8.01E-06	3.00E-05	NR3C1	nuclear receptor protein_co	5	1.43E+08	1.43E+08	-1	q31.3
ENSG00000103091	-0.3977	-1.3174	3.21E-05	0.0001	WDR59	WD repeat protein_co	16	74871367	75000173	-1	q23.1
ENSG00000167461	-0.3977	-1.3174	4.24E-05	0.0001	RAB8A	RAB8A, member protein_co	19	16111629	16134234	1	p13.11
ENSG00000124789	-0.3976	-1.3174	0.0005	0.0015	NUP153	nucleoporin protein_co	6	17615035	17706834	-1	p22.3
ENSG00000058272	-0.3977	-1.3174	0.0011	0.0032	PPP1R12A	protein phosphatase protein_co	12	79773563	79935460	-1	q21.31
ENSG00000180628	-0.3987	-1.3184	0.0006	0.0016	PCGF5	polycomb target protein_co	10	91163012	91284331	1	q23.32
ENSG00000070423	-0.3989	-1.3185	0.0003	0.001	PCGF126	ring finger protein_co	19	647526	663277	-1	p13.3
ENSG00000116406	-0.399	-1.3186	0.0044	0.0112	EDEM3	ER degradation protein_co	1	1.85E+08	1.85E+08	-1	q25.3
ENSG00000084234	-0.3995	-1.3191	0.0117	0.0273	APLP2	amyloid beta protein_co	11	1.3E+08	1.3E+08	1	q24.3
ENSG00000174243	-0.3999	-1.3194	1.66E-06	6.76E-06	DDX23	DEAD (Asp-) protein_co	12	48829764	48852842	-1	q13.12
ENSG00000134748	-0.4001	-1.3196	0.0016	0.0044	PRPF38A	pre-mRNA protein_co	1	52404564	52420839	1	p32.3
ENSG00000131467	-0.4003	-1.3198	0.0002	0.0006	PSME3	proteasome protein_co	17	42824385	42843758	1	q21.31
ENSG00000103343	-0.4007	-1.3201	0.0225	0.0492	ZNF174	zinc finger protein_co	16	3401235	3409370	1	p13.3
ENSG00000117461	-0.4025	-1.3218	0.0017	0.0045	PIK3R3	phosphoinositide protein_co	1	46040140	46133036	-1	p34.1
ENSG00000160209	-0.4027	-1.3219	0.0021	0.0055	PDXK	pyridoxal phosphate protein_co	21	43719094	43762307	1	q22.3
ENSG00000112992	-0.4032	-1.3225	1.65E-05	5.96E-05	NNT	nicotinamide protein_co	5	43602692	43707405	1	p12
ENSG00000149474	-0.4035	-1.3227	0.0002	0.0007	CSRP2BP	CSRP2 binding protein_co	20	18138118	18188387	1	p11.23
ENSG00000136280	-0.4041	-1.3233	0.0183	0.0408	CCM2	cerebral cavernous protein_co	7	44999475	45076469	1	p13
ENSG00000117481	-0.4045	-1.3236	7.51E-05	0.0003	NSUN4	NOP2/Sun protein_co	1	46340177	46365152	1	p33
ENSG00000179295	-0.4052	-1.3243	6.51E-05	0.0002	PTPN11	protein tyrosine protein_co	12	1.12E+08	1.13E+08	1	q24.13
ENSG00000153989	-0.4052	-1.3243	0.0002	0.0005	NUS1	nuclear uncoiled protein_co	6	1.18E+08	1.18E+08	1	q22.1
ENSG00000164237	-0.4053	-1.3244	0.0191	0.0424	CMBL	carboxypeptidase protein_co	5	10275875	10308026	-1	p15.2
ENSG00000091527	-0.4057	-1.3247	0.0019	0.005	CDV3	CDV3 homolog protein_co	3	1.34E+08	1.34E+08	1	q22.1
ENSG00000180901	-0.4057	-1.3248	4.71E-05	0.0002	KCTD2	potassium channel protein_co	17	75032575	75065889	1	q25.1
ENSG00000134684	-0.4059	-1.3249	0.0002	0.0006	YARS	tyrosyl-tRNA protein_co	1	32775237	32818153	-1	p35.1
ENSG00000101146	-0.4062	-1.3252	0.0016	0.0044	RAE1	ribonucleic acid protein_co	20	57351010	57379211	1	q13.31
ENSG00000112062	-0.4065	-1.3254	4.22E-08	2.00E-07	MAPK14	mitogen-activated protein_co	6	36027677	36111236	1	p21.31
ENSG00000089234	-0.4066	-1.3255	1.62E-05	5.88E-05	BRAP	BRCA1 associated protein_co	12	1.12E+08	1.12E+08	-1	q24.12
ENSG00000067369	-0.4066	-1.3255	0.0095	0.0225	TP53BP1	tumor suppressor protein_co	15	43403061	43510728	-1	q15.3

ENSG00000140832	-0.4069	-1.3258	2.12E-05	7.56E-05	MARVELD3	MARVEL dc protein_co	16	71626161	71642114	1	q22.2
ENSG00000183475	-0.407	-1.3259	0.0002	0.0007	ASB7	ankyrin rep protein_co	15	1.01E+08	1.01E+08	1	q26.3
ENSG00000131067	-0.4069	-1.3259	0.0012	0.0033	GGT7	gamma-glu protein_co	20	34844720	34872860	-1	q11.22
ENSG00000163293	-0.4077	-1.3266	0.0104	0.0244	NIPAL1	NIPA-like d protein_co	4	47914142	48040173	1	p12
ENSG00000102100	-0.4079	-1.3267	0.0044	0.0112	SLC35A2	solute carri protein_co X		48903182	48911958	-1	p11.23
ENSG00000127824	-0.4079	-1.3268	0.014	0.032	TUBA4A	tubulin, alp protein_co	2	2.19E+08	2.19E+08	-1	q35
ENSG00000137309	-0.408	-1.3269	0.0003	0.001	HMGA1	high mobili protein_co	6	34236873	34246231	1	p21.31
ENSG00000115241	-0.4081	-1.3269	0.0005	0.0013	PPM1G	protein phc protein_co	2	27381194	27409687	-1	p23.3
ENSG00000171680	-0.4081	-1.3269	0.0066	0.0162	PLEKHG5	pleckstrin f protein_co	1	6466092	6520061	-1	p36.31
ENSG00000127804	-0.4084	-1.3272	0.0003	0.0008	METTL16	methyltran protein_co	17	2405562	2511891	-1	p13.3
ENSG00000177606	-0.4084	-1.3272	0.0006	0.0017	JUN	jun proto-c protein_co	1	58780788	58784327	-1	p32.1
ENSG00000135932	-0.4084	-1.3273	4.69E-07	2.01E-06	CAB39	calcium bin protein_co	2	2.31E+08	2.31E+08	1	q37.1
ENSG00000227124	-0.409	-1.3277	0.0188	0.0418	ZNF717	zinc finger   protein_co	3	75709643	75785583	-1	p12.3
ENSG00000172840	-0.409	-1.3278	0.0015	0.0042	PDP2	pyruvate d protein_co	16	66878589	66895754	1	q22.1
ENSG00000035403	-0.409	-1.3278	0.0184	0.041	VCL	vinculin [Sc protein_co	10	73995193	74121363	1	q22.2
ENSG00000172270	-0.4092	-1.3279	0.0006	0.0017	BSG	basigin (Ok protein_co	19	571309	583493	1	p13.3
ENSG00000108591	-0.4099	-1.3286	0.0007	0.0021	DRG2	developme protein_co	17	18087886	18107971	1	p11.2
ENSG00000100413	-0.4108	-1.3294	0.0005	0.0014	POLR3H	polymerase protein_co	22	41525804	41544606	-1	q13.2
ENSG00000156735	-0.4112	-1.3298	3.42E-05	0.0001	BAG4	BCL2-assoc protein_co	8	38176533	38213301	-1	p11.23
ENSG00000140044	-0.4114	-1.33	0.0007	0.0019	JDP2	Jun dimeriz protein_co	14	75427716	75474111	1	q24.3
ENSG00000172954	-0.4118	-1.3303	0.0004	0.0012	LCLAT1	lysocardioli protein_co	2	30447226	30644225	1	p23.1
ENSG00000013583	-0.4125	-1.331	0.0011	0.0031	HEBP1	heme bindi protein_co	12	12974864	13000273	-1	p13.1
ENSG00000166164	-0.4139	-1.3323	1.13E-05	4.15E-05	BRD7	bromodom protein_co	16	50313487	50368934	-1	q12.1
ENSG00000058600	-0.4139	-1.3323	2.80E-05	9.84E-05	POLR3E	polymerase protein_co	16	22297375	22335103	1	p12.2
ENSG00000165102	-0.414	-1.3324	0.0124	0.0288	HGSNAT	heparan-al protein_co	8	43140455	43202855	1	p11.21
ENSG00000145014	-0.4145	-1.3328	0.0007	0.002	TMEM44	transmemt protein_co	3	1.95E+08	1.95E+08	-1	q29
ENSG00000172216	-0.4145	-1.3328	0.0027	0.0072	CEBPB	CCAAT/enh protein_co	20	50190734	50192689	1	q13.13
ENSG00000143819	-0.415	-1.3333	0.0053	0.0132	EPHX1	epoxide hy protein_co	1	2.26E+08	2.26E+08	1	q42.12
ENSG00000103044	-0.415	-1.3333	0.0143	0.0326	HAS3	hyaluronan protein_co	16	69105564	69118719	1	q22.1
ENSG00000238227	-0.4166	-1.3348	1.01E-05	3.73E-05	C9orf69	chromoson protein_co	9	1.36E+08	1.36E+08	-1	q34.3
ENSG00000160551	-0.4169	-1.3351	1.79E-05	6.45E-05	TAOK1	TAO kinase protein_co	17	29390464	29551904	1	q11.2
ENSG00000198380	-0.4174	-1.3355	0.0002	0.0006	GFPT1	glutamine- protein_co	2	69319769	69387254	-1	p13.3
ENSG00000171124	-0.4179	-1.3359	0.0079	0.019	FUT3	fucosyltran protein_co	19	5842888	5851474	-1	p13.3
ENSG00000169967	-0.418	-1.3361	5.72E-07	2.44E-06	MAP3K2	mitogen-ac protein_co	2	1.27E+08	1.27E+08	-1	q14.3
ENSG00000154217	-0.4182	-1.3363	0.0002	0.0006	PITPNC1	phosphatid protein_co	17	67377281	67697261	1	q24.2
ENSG00000170191	-0.4198	-1.3377	0.0021	0.0056	NANP	N-acetylnei protein_co	20	25612935	25624175	-1	p11.21
ENSG00000119900	-0.4204	-1.3383	0.0009	0.0025	OGFRL1	opioid grov protein_co	6	71288803	71308950	1	q13
ENSG00000107560	-0.4205	-1.3384	0.0062	0.0152	RAB11FIP2	RAB11 fam protein_co	10	1.18E+08	1.18E+08	-1	q26.11
ENSG00000138095	-0.4206	-1.3385	8.71E-07	3.65E-06	LRPPRC	leucine-ric protein_co	2	43886508	43996005	-1	p21
ENSG00000185619	-0.4206	-1.3385	0.0003	0.0009	PCGF3	polycomb ξ protein_co	4	705748	770640	1	p16.3
ENSG00000189308	-0.4217	-1.3395	0.0004	0.0011	LIN54	lin-54 DRE/ protein_co	4	82909973	83012926	-1	q21.22

ENSG00000162437	-0.4217	-1.3395	0.0079	0.0191	RAVER2	ribonucleo protein_co	1	64745095	64833232	1	p31.3
ENSG00000055208	-0.4218	-1.3396	8.77E-06	3.27E-05	TAB2	TGF-beta a protein_co	6	1.49E+08	1.49E+08	1	q25.1
ENSG00000100106	-0.4218	-1.3396	0.001	0.003	TRIOBP	TRIO and F- protein_co	22	37697004	37776556	1	q13.1
ENSG00000172071	-0.423	-1.3407	0.0004	0.0013	EIF2AK3	eukaryotic protein_co	2	88556741	88627576	-1	p11.2
ENSG00000177570	-0.4233	-1.341	0.0022	0.0059	SAMD12	sterile alph protein_co	8	1.18E+08	1.19E+08	-1	q24.12
ENSG00000165476	-0.4234	-1.341	0.0098	0.0232	REEP3	receptor ac protein_co	10	63521363	63625123	1	q21.3
ENSG00000175137	-0.4238	-1.3415	1.25E-06	5.12E-06	SH3BP5L	SH3-binding protein_co	1	2.49E+08	2.49E+08	-1	q44
ENSG00000101407	-0.4244	-1.342	0.0001	0.0004	TTI1	TELO2 inter protein_co	20	37983007	38033468	-1	q11.23
ENSG00000168096	-0.4243	-1.342	0.0048	0.0122	ANKS3	ankyrin rep protein_co	16	4696510	4734378	-1	p13.3
ENSG00000139719	-0.4248	-1.3424	0.0036	0.0092	VPS33A	vacuolar pr protein_co	12	1.22E+08	1.22E+08	-1	q24.31
ENSG00000082641	-0.4249	-1.3425	0.0017	0.0046	NFE2L1	nuclear fac protein_co	17	48048329	48061487	1	q21.32
ENSG00000197442	-0.4251	-1.3426	0.0001	0.0003	MAP3K5	mitogen-ac protein_co	6	1.37E+08	1.37E+08	-1	q23.3
ENSG00000126214	-0.425	-1.3426	0.0129	0.0297	KLC1	kinesin ligh protein_co	14	1.04E+08	1.04E+08	1	q32.33
ENSG00000168936	-0.426	-1.3435	0.001	0.003	TMEM129	transmemt protein_co	4	1715952	1721358	-1	p16.3
ENSG00000166913	-0.4263	-1.3438	6.73E-08	3.13E-07	YWHAB	tyrosine 3-i protein_co	20	44885676	44908532	1	q13.12
ENSG00000054118	-0.4264	-1.3439	3.88E-09	2.02E-08	THRAP3	thyroid hor protein_co	1	36224416	36305357	1	p34.3
ENSG00000163946	-0.4266	-1.344	5.22E-10	2.93E-09	FAM208A	family with protein_co	3	56620133	56683237	-1	p14.3
ENSG00000067900	-0.4266	-1.3441	4.73E-05	0.0002	ROCK1	Rho-associi protein_co	18	20946906	21111851	-1	q11.1
ENSG00000119688	-0.4271	-1.3445	0.001	0.0027	ABCD4	ATP-binding protein_co	14	74285423	74303056	-1	q24.3
ENSG00000179151	-0.4273	-1.3447	0.0001	0.0004	EDC3	enhancer o protein_co	15	74630558	74696292	-1	q24.1
ENSG00000156052	-0.4275	-1.3449	2.71E-05	9.55E-05	GNAQ	guaninc nu protein_co	9	77716087	78031458	-1	q21.2
ENSG00000099810	-0.4277	-1.345	4.97E-06	1.91E-05	MTAP	methylthio protein_co	9	21802543	21937651	1	p21.3
ENSG00000153339	-0.4279	-1.3453	0.0005	0.0014	TRAPPC8	trafficking   protein_co	18	31829173	31953136	-1	q12.1
ENSG00000185344	-0.4284	-1.3457	9.27E-06	3.44E-05	ATP6V0A2	ATPase, H+ protein_co	12	1.24E+08	1.24E+08	1	q24.31
ENSG00000116560	-0.4285	-1.3458	1.13E-10	6.73E-10	SFPQ	splicing fac protein_co	1	35176378	35193148	-1	p34.3
ENSG00000146587	-0.4285	-1.3458	0.0001	0.0005	RBAK	RB-associat protein_co	7	5045821	5069488	1	p22.1
ENSG00000139132	-0.4292	-1.3465	3.77E-05	0.0001	FGD4	FYVE, RhoG protein_co	12	32399529	32646050	1	p11.21
ENSG00000108829	-0.4297	-1.347	0.0016	0.0044	LRRC59	leucine rich protein_co	17	50375059	50397553	-1	q21.33
ENSG00000164754	-0.4303	-1.3476	1.43E-10	8.45E-10	RAD21	RAD21 hon protein_co	8	1.17E+08	1.17E+08	-1	q24.11
ENSG00000120696	-0.4308	-1.348	0.0002	0.0005	KBTBD7	kelch repea protein_co	13	41189833	41194566	-1	q14.11
ENSG00000099330	-0.4312	-1.3484	0.0124	0.0288	OCEL1	occludin/EI protein_co	19	17226204	17229219	1	p13.11
ENSG00000197969	-0.4317	-1.3489	0.0008	0.0023	VPS13A	vacuolar pr protein_co	9	77177353	77421541	1	q21.2
ENSG00000197535	-0.4322	-1.3493	0.0191	0.0423	MYO5A	myosin VA protein_co	15	52307283	52529050	-1	q21.2
ENSG00000060491	-0.4325	-1.3496	2.04E-05	7.30E-05	OGFR	opioid grov protein_co	20	62804835	62814000	1	q13.33
ENSG00000183624	-0.4326	-1.3497	8.67E-05	0.0003	HMCES	5-hydroxyn protein_co	3	1.29E+08	1.29E+08	1	q21.3
ENSG00000106244	-0.433	-1.3501	3.85E-07	1.67E-06	PDAP1	PDGFA assc protein_co	7	99392048	99408829	-1	q22.1
ENSG00000178685	-0.4331	-1.3501	0.0005	0.0014	PARP10	poly (ADP-r protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000139266	-0.433	-1.3501	0.0022	0.0058	MARCH9	membrane protein_co	12	57755098	57760407	1	q14.1
ENSG00000176058	-0.4331	-1.3501	0.0121	0.0281	TPRN	taperin [So protein_co	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000148343	-0.4335	-1.3505	0.008	0.0192	FAM73B	family with protein_co	9	1.29E+08	1.29E+08	1	q34.11
ENSG00000163655	-0.4343	-1.3513	8.25E-05	0.0003	GMPS	guanine mc protein_co	3	1.56E+08	1.56E+08	1	q25.31

ENSG00000081760	-0.4345	-1.3514	8.32E-06	3.11E-05	AACS	acetoacety protein_co	12	1.25E+08	1.25E+08	1	q24.31
ENSG00000187607	-0.4348	-1.3517	0.0119	0.0277	ZNF286A	zinc finger protein_co	17	15699577	15720787	1	p12
ENSG00000180008	-0.435	-1.3519	2.02E-05	7.24E-05	SOCS4	suppressor protein_co	14	55027230	55049488	1	q22.3
ENSG0000009830	-0.435	-1.3519	0.0089	0.0211	POMT2	protein-O-r protein_co	14	77274956	77320884	-1	q24.3
ENSG00000115282	-0.4352	-1.3521	0.0006	0.0018	TTC31	tetratricop protein_co	2	74483073	74494886	1	p13.1
ENSG00000115884	-0.4353	-1.3522	3.87E-05	0.0001	SDC1	syndecan 1 protein_co	2	20200797	20225433	-1	p24.1
ENSG00000141985	-0.4353	-1.3522	0.0003	0.0008	SH3GL1	SH3-domai protein_co	19	4360370	4400547	-1	p13.3
ENSG00000173653	-0.4355	-1.3523	0.0126	0.0291	RCE1	Ras conver protein_co	11	66842835	66846546	1	q13.2
ENSG00000163931	-0.4355	-1.3524	5.29E-06	2.02E-05	TKT	transketola protein_co	3	53224707	53256052	-1	p21.1
ENSG00000174206	-0.4356	-1.3524	0.0197	0.0436	C12orf66	chromoson protein_co	12	64186316	64222296	-1	q14.2
ENSG00000167186	-0.4365	-1.3533	0.0102	0.0241	COQ7	coenzyme (protein_co	16	19067599	19080095	1	p12.3
ENSG00000168575	-0.4365	-1.3534	4.38E-06	1.69E-05	SLC20A2	solute carri protein_co	8	42416475	42541926	-1	p11.21
ENSG00000170876	-0.4366	-1.3534	0.001	0.0028	TMEM43	transmemt protein_co	3	14124940	14143679	1	p25.1
ENSG00000237441	-0.4368	-1.3536	2.38E-06	9.50E-06	RGL2	ral guanine protein_co	6	33291654	33299324	-1	p21.32
ENSG00000185716	-0.4369	-1.3537	0.0101	0.0237	C16orf52	chromoson protein_co	16	22007638	22087534	1	p12.2
ENSG00000164889	-0.4371	-1.3539	0.0005	0.0015	SLC4A2	solute carri protein_co	7	1.51E+08	1.51E+08	1	q36.1
ENSG00000114302	-0.4372	-1.354	0.0001	0.0004	PRKAR2A	protein kin. protein_co	3	48744597	48847846	-1	p21.31
ENSG00000234420	-0.4373	-1.3541	0.0196	0.0432	ZNF37BP	zinc finger   transcribed	10	42513510	42552822	-1	q11.21
ENSG00000090470	-0.4374	-1.3542	0.0005	0.0015	PDCD7	programm (protein_co	15	65117379	65133836	-1	q22.31
ENSG00000132635	-0.4379	-1.3547	0.0005	0.0014	PCED1A	PC-esteras protein_co	20	2835314	28411190	-1	p13
ENSG00000160741	-0.4382	-1.3549	0.0028	0.0074	CRTC2	CREB regul. protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000128284	-0.4383	-1.355	0.0053	0.0132	APOL3	apolipopro protein_co	22	36140330	36166177	-1	q12.3
ENSG00000119231	-0.4384	-1.3551	5.41E-06	2.07E-05	SENP5	SUMO1/sei protein_co	3	1.97E+08	1.97E+08	1	q29
ENSG00000120913	-0.439	-1.3556	0.0149	0.0338	PDLIM2	PDZ and LIF protein_co	8	22578279	22598025	1	p21.3
ENSG00000104884	-0.4391	-1.3558	0.0003	0.0008	ERCC2	excision rej protein_co	19	45349837	45370918	-1	q13.32
ENSG00000134086	-0.4394	-1.356	1.49E-05	5.43E-05	VHL	von Hippel- protein_co	3	10141008	10152220	1	p25.3
ENSG00000188895	-0.4401	-1.3567	4.22E-06	1.63E-05	MSL1	male-specif protein_co	17	40122298	40136916	1	q21.1
ENSG00000107438	-0.4401	-1.3567	0.0003	0.001	PDLIM1	PDZ and LIF protein_co	10	95237572	95291024	-1	q23.33
ENSG00000213380	-0.4404	-1.3569	0.0001	0.0003	COG8	component protein_co	16	69320140	69339667	-1	q22.1
ENSG00000181027	-0.4408	-1.3573	0.0032	0.0084	FKRP	fukutin rel protein_co	19	46746046	46776988	1	q13.32
ENSG00000176410	-0.4412	-1.3577	0.0014	0.0038	DNAJC30	DnaJ (Hsp4 protein_co	7	73680969	73683453	-1	q11.23
ENSG00000168890	-0.4413	-1.3578	0.0087	0.0208	TMEM150A	transmemt protein_co	2	85598548	85603196	-1	p11.2
ENSG00000123728	-0.4417	-1.3582	0.01	0.0236	RAP2C	RAP2C, me protein_co X		1.32E+08	1.32E+08	-1	q26.2
ENSG00000196968	-0.4418	-1.3583	0.0012	0.0033	FUT11	fucosyltran protein_co	10	73772291	73780251	1	q22.2
ENSG00000068903	-0.4423	-1.3587	3.80E-05	0.0001	SIRT2	sirtuin 2 [Sc protein_co	19	38878555	38899862	-1	q13.2
ENSG00000186814	-0.4424	-1.3589	0.0001	0.0005	ZSCAN30	zinc finger ; protein_co	18	35251058	35290245	-1	q12.2
ENSG00000124535	-0.4426	-1.3591	1.27E-08	6.28E-08	WRNIP1	Werner hel protein_co	6	2765414	2786952	1	p25.2
ENSG00000101199	-0.4427	-1.3591	0.0177	0.0396	ARFGAP1	ADP-ribosy protein_co	20	63272785	63289793	1	q13.33
ENSG00000119318	-0.4427	-1.3592	3.72E-07	1.61E-06	RAD23B	RAD23 hon protein_co	9	1.07E+08	1.07E+08	1	q31.2
ENSG00000165240	-0.444	-1.3603	6.60E-05	0.0002	ATP7A	ATPase, Cu protein_co X		77910656	78050395	1	q21.1
ENSG00000019995	-0.444	-1.3604	1.96E-07	8.75E-07	ZRANB1	zinc finger, protein_co	10	1.25E+08	1.25E+08	1	q26.13

ENSG00000141452	-0.4441	-1.3605	0.0014	0.0038	C18orf8	chromoson protein_co	18	23503470	23531807	1	q11.2
ENSG00000197147	-0.4459	-1.3622	3.94E-07	1.70E-06	LRR8B	leucine rich protein_co	1	89524836	89597864	1	p22.2
ENSG00000107771	-0.4462	-1.3625	1.16E-06	4.77E-06	CCSER2	coiled-coil : protein_co	10	84328586	84518521	1	q23.1
ENSG00000140299	-0.4464	-1.3626	0.0003	0.0008	BNIP2	BCL2/aden. protein_co	15	59659146	59689534	-1	q22.2
ENSG00000110063	-0.4464	-1.3627	0.0008	0.0023	DCPS	decapping : protein_co	11	1.26E+08	1.26E+08	1	q24.2
ENSG00000142961	-0.4468	-1.363	3.84E-05	0.0001	MOB3C	MOB kinase protein_co	1	46607715	46616891	-1	p33
ENSG00000136936	-0.4468	-1.363	0.0022	0.0059	XPA	xeroderma protein_co	9	97674909	97697357	-1	q22.33
ENSG00000156869	-0.4471	-1.3633	0.0195	0.0432	FRRS1	ferric-chela protein_co	1	99708703	99766631	-1	p21.2
ENSG00000105968	-0.4476	-1.3637	1.31E-06	5.37E-06	H2AFV	H2A histon protein_co	7	44826791	44848083	-1	p13
ENSG00000106344	-0.4477	-1.3639	6.17E-06	2.34E-05	RBM28	RNA bindin protein_co	7	1.28E+08	1.28E+08	-1	q32.1
ENSG00000171302	-0.4481	-1.3643	0.0004	0.0011	CANT1	calcium act protein_co	17	78991717	79009867	-1	q25.3
ENSG00000123091	-0.4486	-1.3647	0.0006	0.0018	RNF11	ring finger   protein_co	1	51236271	51273455	1	p32.3
ENSG00000071054	-0.4487	-1.3648	0.0008	0.0024	MAP4K4	mitogen-ac protein_co	2	1.02E+08	1.02E+08	1	q11.2
ENSG00000198663	-0.4489	-1.365	4.44E-08	2.10E-07	C6orf89	chromoson protein_co	6	36871870	36928964	1	p21.2
ENSG00000166167	-0.4492	-1.3653	2.04E-07	9.05E-07	BTRC	beta-transc protein_co	10	1.01E+08	1.02E+08	1	q24.32
ENSG00000184216	-0.4496	-1.3657	1.13E-05	4.17E-05	IRAK1	interleukin- protein_co X		1.54E+08	1.54E+08	-1	q28
ENSG00000111725	-0.4496	-1.3657	1.14E-05	4.21E-05	PRKAB1	protein kin. protein_co	12	1.2E+08	1.2E+08	1	q24.23
ENSG00000170638	-0.45	-1.3661	5.28E-06	2.02E-05	TRABD	TraB domai protein_co	22	50185915	50199598	1	q13.33
ENSG00000124155	-0.451	-1.367	7.72E-05	0.0003	PIGT	phosphatid protein_co	20	45416077	45426244	1	q13.12
ENSG00000145444	-0.4514	-1.3674	5.65E-07	2.41E-06	SLC41A3	solute carri protein_co	3	1.26E+08	1.26E+08	-1	q21.3
ENSG00000143322	-0.4518	-1.3677	0.0059	0.0146	ABL2	ABL proto-( protein_co	1	1.79E+08	1.79E+08	-1	q25.2
ENSG00000119541	-0.4522	-1.3681	6.94E-17	6.95E-16	VPS4B	vacuolar pr protein_co	18	63389190	63422483	-1	q21.33
ENSG00000135823	-0.4522	-1.3681	2.68E-07	1.18E-06	STX6	syntaxin 6   protein_co	1	1.81E+08	1.81E+08	-1	q25.3
ENSG00000067596	-0.4522	-1.3681	5.37E-05	0.0002	DHX8	DEAH (Asp- protein_co	17	43483865	43544463	1	q21.31
ENSG00000008382	-0.4525	-1.3684	0.0017	0.0047	MPND	MPN doma protein_co	19	4343527	4360086	1	p13.3
ENSG00000148248	-0.4527	-1.3686	0.0172	0.0387	SURF4	surfeit 4 [S] protein_co	9	1.33E+08	1.33E+08	-1	q34.2
ENSG00000077585	-0.4529	-1.3688	0.0011	0.0031	GPR137B	G protein-c protein_co	1	2.36E+08	2.36E+08	1	q42.3
ENSG00000162378	-0.4533	-1.3692	3.75E-07	1.62E-06	ZYG11B	zyg-11 fam protein_co	1	52726467	52827342	1	p32.3
ENSG00000142686	-0.4536	-1.3694	0.0212	0.0466	C1orf216	chromoson protein_co	1	35713875	35719472	-1	p34.3
ENSG00000134852	-0.4538	-1.3697	1.10E-05	4.05E-05	CLOCK	clock circac protein_co	4	55427903	55547138	-1	q12
ENSG00000157823	-0.4543	-1.3701	0.0001	0.0004	AP3S2	adaptor-rel protein_co	15	89830599	89894638	-1	q26.1
ENSG00000006744	-0.4548	-1.3706	1.05E-05	3.88E-05	ELAC2	elaC ribonu protein_co	17	12992391	13018187	-1	p12
ENSG00000120942	-0.4548	-1.3706	0.0001	0.0004	UBIAD1	UbiA preny protein_co	1	11273206	11296049	1	p36.22
ENSG00000144524	-0.4551	-1.3709	5.33E-05	0.0002	COPS7B	COP9 signa protein_co	2	2.32E+08	2.32E+08	1	q37.1
ENSG00000178295	-0.4552	-1.371	0.0003	0.0008	GEN1	GEN1 Hollig protein_co	2	17753858	17788941	1	p24.2
ENSG00000102181	-0.4553	-1.3711	0.001	0.0028	CD99L2	CD99 mole protein_co X		1.51E+08	1.51E+08	-1	q28
ENSG00000104472	-0.4554	-1.3712	2.35E-05	8.33E-05	CHRAC1	chromatin : protein_co	8	1.41E+08	1.41E+08	1	q24.3
ENSG00000198399	-0.4557	-1.3715	4.64E-09	2.40E-08	ITSN2	intersectin protein_co	2	24202864	24360714	-1	p23.3
ENSG00000136731	-0.456	-1.3717	3.08E-05	0.0001	UGGT1	UDP-glucos protein_co	2	1.28E+08	1.28E+08	1	q14.3
ENSG00000198876	-0.4563	-1.372	0.0002	0.0006	DCAF12	DDB1 and ( protein_co	9	34086387	34127399	-1	p13.3
ENSG00000079277	-0.4567	-1.3724	0.0025	0.0065	MKNK1	MAP kinase protein_co	1	46557408	46616843	-1	p33



ENSG00000169446	-0.4569	-1.3726	3.43E-05	0.0001	MMGT1	membrane protein_co X	1.36E+08	1.36E+08	-1	q26.3
ENSG00000161204	-0.4574	-1.3731	7.85E-07	3.30E-06	ABCF3	ATP-binding protein_co	3 1.84E+08	1.84E+08	1	q27.1
ENSG00000135250	-0.458	-1.3736	1.37E-06	5.60E-06	SRPK2	SRSF protein_co	7 1.05E+08	1.05E+08	-1	q22.3
ENSG00000184363	-0.459	-1.3746	6.24E-06	2.37E-05	PKP3	plakophilin protein_co	11 392614	404908	1	p15.5
ENSG00000198252	-0.4593	-1.3749	2.94E-05	0.0001	STYX	serine/thre protein_co	14 52730180	52774998	1	q22.1
ENSG00000106608	-0.4594	-1.375	1.31E-05	4.78E-05	URGCP	upregulate protein_co	7 43875894	43926411	-1	p13
ENSG00000111679	-0.46	-1.3755	0.0006	0.0016	PTPN6	protein tyrosine protein_co	12 6946468	6961316	1	p13.31
ENSG00000177150	-0.4607	-1.3762	0.0176	0.0394	FAM210A	family with protein_co	18 13663347	13726663	-1	p11.21
ENSG00000082438	-0.4617	-1.3771	2.58E-06	1.02E-05	COBLL1	cordon-ble protein_co	2 1.65E+08	1.65E+08	-1	q24.3
ENSG00000188486	-0.4622	-1.3777	0.0176	0.0395	H2AFX	H2A histone protein_co	11 1.19E+08	1.19E+08	-1	q23.3
ENSG00000172831	-0.4624	-1.3778	0.0125	0.0289	CES2	carboxylesterase protein_co	16 66934444	66945096	1	q22.1
ENSG00000021574	-0.4624	-1.3779	0.0002	0.0005	SPAST	spastin [Spectrin] protein_co	2 32063611	32157637	1	p22.3
ENSG00000182512	-0.4627	-1.3781	0.0013	0.0037	GLRX5	glutaredoxin protein_co	14 95533503	95544724	1	q32.13
ENSG00000273749	-0.463	-1.3784	2.18E-06	8.74E-06	CYFIP1	cytoplasmic protein_co	15 22867052	22981063	-1	q11.2
ENSG00000107854	-0.4633	-1.3787	1.66E-08	8.17E-08	TNKS2	tankyrase, 1 protein_co	10 91798312	91865276	1	q23.32
ENSG00000100221	-0.4633	-1.3787	0.0003	0.0009	JOSD1	Josephin domain protein_co	22 38685543	38701556	-1	q13.1
ENSG00000180035	-0.4637	-1.379	0.0022	0.0059	ZNF48	zinc finger protein_co	16 30378106	30400108	1	p11.2
ENSG00000150455	-0.4636	-1.379	0.004	0.0103	TIRAP	toll-interleukin protein_co	11 1.26E+08	1.26E+08	1	q24.2
ENSG00000073921	-0.4637	-1.3791	6.63E-08	3.09E-07	PICALM	phosphatidylinositol protein_co	11 85957684	86069882	-1	q14.2
ENSG00000175591	-0.4638	-1.3791	0.0012	0.0032	P2RY2	purinergic receptor protein_co	11 73218298	73236352	1	q13.4
ENSG00000186001	-0.4641	-1.3794	0.0001	0.0003	LRCH3	leucine-rich protein_co	3 1.98E+08	1.98E+08	1	q29
ENSG00000164048	-0.4642	-1.3796	0.0188	0.0417	ZNF589	zinc finger protein_co	3 48241100	48299253	1	p21.31
ENSG00000146833	-0.4646	-1.3799	1.05E-05	3.86E-05	TRIM4	tripartite repeat protein_co	7 99876958	99919600	-1	q22.1
ENSG00000124406	-0.4653	-1.3806	0.019	0.0421	ATP8A1	ATPase, amino acid protein_co	4 42408373	42657105	-1	p13
ENSG00000099364	-0.4657	-1.381	0.0011	0.0031	FBXL19	F-box and leucine protein_co	16 30923055	30948783	1	p11.2
ENSG00000257103	-0.4658	-1.3811	2.69E-08	1.29E-07	LSM14A	LSM14A, Sm protein_co	19 34172504	34229515	1	q13.11
ENSG00000141034	-0.4659	-1.3811	0.0004	0.0012	GID4	GID complex protein_co	17 18039292	18068404	1	p11.2
ENSG00000083896	-0.466	-1.3813	6.52E-08	3.04E-07	YTHDC1	YTH domain protein_co	4 68310387	68350089	-1	q13.2
ENSG00000078808	-0.4662	-1.3815	0.0088	0.0211	SDF4	stromal cell protein_co	1 1216908	1232031	-1	p36.33
ENSG00000140983	-0.4664	-1.3817	0.0013	0.0036	RHOT2	ras homolog protein_co	16 668086	674174	1	p13.3
ENSG00000166483	-0.4665	-1.3818	0.0006	0.0018	WEE1	WEE1 G2 checkpoint protein_co	11 9573681	9593457	1	p15.4
ENSG00000196821	-0.4668	-1.3821	9.97E-06	3.69E-05	C6orf106	chromosome protein_co	6 34587288	34696859	-1	p21.31
ENSG00000105483	-0.4676	-1.3828	1.24E-05	4.53E-05	CARD8	caspase recruitment protein_co	19 48180770	48255946	-1	q13.33
ENSG00000179456	-0.4677	-1.3829	0.001	0.0028	ZBTB18	zinc finger protein_co	1 2.44E+08	2.44E+08	1	q44
ENSG00000177239	-0.4686	-1.3838	0.0005	0.0014	MAN1B1	mannosidase protein_co	9 1.37E+08	1.37E+08	1	q34.3
ENSG00000186660	-0.4689	-1.3841	1.46E-09	7.89E-09	ZFP91	ZFP91 zinc finger protein_co	11 58579111	58621042	1	q12.1
ENSG00000104133	-0.4689	-1.3841	1.69E-06	6.85E-06	SPG11	spastic paraparesis protein_co	15 44562696	44663678	-1	q21.1
ENSG00000044115	-0.4693	-1.3844	9.68E-09	4.86E-08	CTNNA1	catenin (cadherin) protein_co	5 1.39E+08	1.39E+08	1	q31.2
ENSG00000243335	-0.4694	-1.3845	0.0104	0.0244	KCTD7	potassium channel protein_co	7 66628881	66811187	1	q11.21
ENSG00000127452	-0.4695	-1.3846	0.0024	0.0064	FBXL12	F-box and leucine protein_co	19 9810267	9827816	-1	p13.2
ENSG00000174013	-0.4699	-1.385	0.0001	0.0003	FBXO45	F-box protein protein_co	3 1.97E+08	1.97E+08	1	q29



ENSG00000158109	-0.47	-1.3851	8.23E-05	0.0003	TPRG1L	tumor prot protein_co	1	3625002	3630127	1	p36.32
ENSG00000056972	-0.47	-1.3851	0.0001	0.0003	TRAF3IP2	TRAF3 inte protein_co	6	1.12E+08	1.12E+08	-1	q21
ENSG00000105618	-0.47	-1.3851	0.0001	0.0004	PRPF31	pre-mRNA protein_co	19	54115410	54131719	1	q13.42
ENSG00000111667	-0.4701	-1.3852	4.17E-06	1.62E-05	USP5	ubiquitin s protein_co	12	6852128	6866632	1	p13.31
ENSG00000112305	-0.4704	-1.3855	3.89E-06	1.51E-05	SMAP1	small ArfG protein_co	6	70667776	70862015	1	q13
ENSG00000162521	-0.4711	-1.3862	2.26E-11	1.43E-10	RBBP4	retinoblast protein_co	1	32651142	32686211	1	p35.1
ENSG00000128512	-0.4711	-1.3862	0.0207	0.0456	DOCK4	dedicator c protein_co	7	1.12E+08	1.12E+08	-1	q31.1
ENSG00000011258	-0.4716	-1.3866	0.0005	0.0013	MBTD1	mbt domai protein_co	17	51177425	51260163	-1	q21.33
ENSG00000087299	-0.4723	-1.3873	0.0006	0.0017	L2HGDH	L-2-hydrox protein_co	14	50237563	50312548	-1	q21.3
ENSG00000011243	-0.4731	-1.3881	2.84E-05	9.98E-05	AKAP8L	A kinase (P protein_co	19	15380048	15419141	-1	p13.12
ENSG00000119411	-0.4735	-1.3885	0.0033	0.0084	BSPRY	B-box and ! protein_co	9	1.13E+08	1.13E+08	1	q32
ENSG00000138594	-0.4737	-1.3887	2.90E-09	1.53E-08	TMOD3	tropomodu protein_co	15	51829628	51947295	1	q21.2
ENSG00000082516	-0.474	-1.3889	1.29E-05	4.73E-05	GEMIN5	gem (nucle protein_co	5	1.55E+08	1.55E+08	-1	q33.2
ENSG00000071127	-0.4741	-1.389	0.0002	0.0007	WDR1	WD repeat protein_co	4	10074339	10116949	-1	p16.1
ENSG00000129932	-0.4748	-1.3897	0.0077	0.0186	DOHH	deoxyhyu protein_co	19	3490821	3500940	-1	p13.3
ENSG00000186205	-0.4748	-1.3897	0.016	0.0361	MARC1	mitochond protein_co	1	2.21E+08	2.21E+08	1	q41
ENSG00000168397	-0.4749	-1.3898	0.0002	0.0006	ATG4B	autophagy protein_co	2	2.42E+08	2.42E+08	1	q37.3
ENSG00000138764	-0.475	-1.3899	0.0015	0.0041	CCNG2	cyclin G2 [S protein_co	4	77157151	77433388	1	q21.1
ENSG00000135373	-0.475	-1.39	0.0012	0.0032	EHF	ets homolo protein_co	11	34621093	34661057	1	p13
ENSG00000198912	-0.4759	-1.3908	3.74E-05	0.0001	C1orf174	chromoson protein_co	1	3889125	3900293	-1	p36.32
ENSG00000104765	-0.4763	-1.3911	5.62E-10	3.15E-09	BNIP3L	BCL2/adeno protein_co	8	26382898	26505636	1	p21.2
ENSG00000106546	-0.4768	-1.3916	1.05E-05	3.88E-05	AHR	aryl hydroc protein_co	7	17298622	17346152	1	p21.1
ENSG00000134030	-0.4775	-1.3923	0.0016	0.0043	CTIF	CBP80/20-( protein_co	18	48539046	48863217	1	q21.1
ENSG00000125520	-0.4777	-1.3925	9.45E-05	0.0003	SLC2A4RG	SLC2A4 reg protein_co	20	63739861	63743505	1	q13.33
ENSG00000116729	-0.478	-1.3928	9.88E-08	4.53E-07	WLS	wntless Wr protein_co	1	68098473	68233120	-1	p31.3
ENSG00000115760	-0.478	-1.3928	4.99E-05	0.0002	BIRC6	baculoviral protein_co	2	32357028	32618899	1	p22.3
ENSG00000137501	-0.4784	-1.3932	0.0031	0.0081	SYTL2	synaptotag protein_co	11	85694224	85811159	-1	q14.1
ENSG00000154144	-0.4786	-1.3934	5.94E-07	2.52E-06	TBRG1	transformir protein_co	11	1.25E+08	1.25E+08	1	q24.2
ENSG00000103942	-0.4788	-1.3935	6.93E-07	2.93E-06	HOMER2	homer hon protein_co	15	82836946	82986153	-1	q25.2
ENSG00000280128	-0.4791	-1.3939	0.0042	0.0107	XXbac-BPG283O16.9	TEC	6	30282349	30286054	-1	p22.1
ENSG00000186687	-0.4791	-1.3939	0.019	0.0421	LYRM7	LYR motif c protein_co	5	1.31E+08	1.31E+08	1	q23.3
ENSG00000118960	-0.4795	-1.3943	0.0013	0.0035	HS1BP3	HCLS1 bind protein_co	2	20560448	20651089	-1	p24.1
ENSG00000170113	-0.4798	-1.3946	2.52E-06	1.00E-05	NIPA1	non imprin protein_co	15	22773063	22829791	1	q11.2
ENSG00000158796	-0.4799	-1.3946	4.41E-05	0.0002	DEDD	death effec protein_co	1	1.61E+08	1.61E+08	-1	q23.3
ENSG00000171017	-0.4799	-1.3946	0.0006	0.0018	LRRC8E	leucine rich protein_co	19	7888505	7902021	1	p13.2
ENSG00000204120	-0.4802	-1.3949	1.10E-05	4.05E-05	GIGYF2	GRB10 inte protein_co	2	2.33E+08	2.33E+08	1	q37.1
ENSG00000154124	-0.4801	-1.3949	0.0013	0.0036	OTULIN	OTU deubic protein_co	5	14664664	14699711	1	p15.2
ENSG00000188986	-0.4803	-1.395	6.55E-07	2.77E-06	NELFB	negative el protein_co	9	1.37E+08	1.37E+08	1	q34.3
ENSG00000161048	-0.4804	-1.3951	2.53E-05	8.93E-05	NAPEPLD	N-acyl pho: protein_co	7	1.03E+08	1.03E+08	-1	q22.1
ENSG00000197948	-0.4803	-1.3951	0.0073	0.0177	FCHSD1	FCH and dc protein_co	5	1.42E+08	1.42E+08	-1	q31.3
ENSG00000120690	-0.4809	-1.3956	1.93E-07	8.59E-07	ELF1	E74-like fac protein_co	13	40931920	41061440	-1	q14.11

ENSG00000144908	-0.4811	-1.3959	0.0026	0.0068	ALDH1L1	aldehyde d protein_co	3	1.26E+08	1.26E+08	-1	q21.3
ENSG00000198324	-0.4813	-1.396	0.0023	0.0061	FAM109A	family with protein_co	12	1.11E+08	1.11E+08	-1	q24.12
ENSG00000176715	-0.4814	-1.3961	7.30E-05	0.0002	ACSF3	acyl-CoA syprotein_co	16	89088375	89155846	1	q24.3
ENSG00000177383	-0.4816	-1.3963	4.19E-05	0.0001	MAGEF1	melanoma protein_co	3	1.85E+08	1.85E+08	-1	q27.1
ENSG00000104852	-0.4816	-1.3963	0.0002	0.0007	SNRNP70	small nucle protein_co	19	49085419	49108605	1	q13.33
ENSG00000169410	-0.4821	-1.3968	2.91E-06	1.15E-05	PTPN9	protein tyrprotein_co	15	75463251	75579289	-1	q24.2
ENSG00000099889	-0.4823	-1.397	0.0007	0.0021	ARVCF	armadillo r protein_co	22	19969896	20016808	-1	q11.21
ENSG00000197162	-0.4826	-1.3973	0.0005	0.0015	ZNF785	zinc finger protein_co	16	30573740	30585771	-1	p11.2
ENSG00000197063	-0.4827	-1.3974	0.0005	0.0014	MAFG	v-maf aviar protein_co	17	81918270	81927714	-1	q25.3
ENSG00000236088	-0.4838	-1.3985	0.0165	0.0372	COX10-AS1	COX10 anti processed_	17	13756478	14069495	-1	p12
ENSG00000161091	-0.4845	-1.3991	0.0008	0.0024	MFSD12	major facili protein_co	19	3538261	3574290	-1	p13.3
ENSG00000166801	-0.485	-1.3996	8.39E-08	3.87E-07	FAM111A	family with protein_co	11	59142748	59155039	1	q12.1
ENSG00000135378	-0.4851	-1.3997	0.0121	0.0281	PRRG4	proline rich protein_co	11	32829943	32858123	1	p13
ENSG00000100485	-0.4855	-1.4001	4.82E-07	2.07E-06	SOS2	son of seve protein_co	14	50117120	50231558	-1	q21.3
ENSG00000166734	-0.4856	-1.4002	1.09E-07	5.00E-07	CASC4	cancer susc protein_co	15	44288729	44415758	1	q15.3
ENSG00000144320	-0.486	-1.4005	0.0008	0.0022	KIAA1715	KIAA1715 [ protein_co	2	1.76E+08	1.76E+08	-1	q31.1
ENSG00000164309	-0.4862	-1.4007	0.0157	0.0355	CMYA5	cardiomyo protein_co	5	79689877	79800240	1	q14.1
ENSG00000155275	-0.4865	-1.4011	0.0017	0.0046	TRMT44	tRNA meth protein_co	4	8436140	8493531	1	p16.1
ENSG00000177565	-0.4866	-1.4012	0.0009	0.0024	TBL1XR1	transducin protein_co	3	1.77E+08	1.77E+08	-1	q26.32
ENSG00000090861	-0.4873	-1.4018	1.15E-08	5.72E-08	AARS	alanyl-tRNA/ protein_co	16	70252295	70289543	-1	q22.1
ENSG00000119414	-0.4882	-1.4027	2.19E-07	9.70E-07	PPP6C	protein ph protein_co	9	1.25E+08	1.25E+08	-1	q33.3
ENSG00000117595	-0.4883	-1.4028	2.30E-05	8.17E-05	IRF6	interferon protein_co	1	2.1E+08	2.1E+08	-1	q32.2
ENSG00000253352	-0.4886	-1.403	1.75E-07	7.82E-07	TUG1	taurine up- antisense	22	30970677	30979395	1	q12.2
ENSG00000158169	-0.4888	-1.4033	0.0021	0.0057	FANCC	Fanconi an protein_co	9	95099054	95317709	-1	q22.32
ENSG00000116455	-0.4893	-1.4037	0.0033	0.0086	WDR77	WD repeat protein_co	1	1.11E+08	1.11E+08	-1	p13.2
ENSG00000092148	-0.4893	-1.4038	0.0002	0.0007	HECTD1	HECT doma protein_co	14	31100112	31207804	-1	q12
ENSG00000132640	-0.4896	-1.404	0.0151	0.0344	BTBD3	BTB (POZ) ( protein_co	20	11890723	11926609	1	p12.2
ENSG00000250462	-0.4896	-1.4041	0.0133	0.0305	LRRC37BP1	leucine rich transcribed	17	30629680	30637466	1	q11.2
ENSG00000115464	-0.49	-1.4044	7.30E-12	4.80E-11	USP34	ubiquitin sy protein_co	2	61187463	61470769	-1	p15
ENSG00000163374	-0.49	-1.4044	1.01E-05	3.75E-05	YY1AP1	YY1 associa protein_co	1	1.56E+08	1.56E+08	-1	q22
ENSG00000248175	-0.4903	-1.4047	0.0042	0.0106	CTC-428G20.3	lincRNA	5	1.15E+08	1.15E+08	-1	q22.3
ENSG00000087095	-0.4903	-1.4048	2.49E-06	9.91E-06	NLK	nemo-like l protein_co	17	28041737	28196381	1	q11.2
ENSG00000035681	-0.4904	-1.4048	3.88E-06	1.51E-05	NSMAF	neutral sph protein_co	8	58583504	58659844	-1	q12.1
ENSG00000111186	-0.4906	-1.405	2.67E-05	9.42E-05	WNT5B	wingless-ty protein_co	12	1529891	1647243	1	p13.33
ENSG00000007202	-0.491	-1.4054	2.09E-08	1.02E-07	KIAA0100	KIAA0100 [ protein_co	17	28614440	28645454	-1	q11.2
ENSG00000134452	-0.4912	-1.4056	9.86E-06	3.65E-05	FBXO18	F-box prote protein_co	10	5890203	5937594	1	p15.1
ENSG00000113282	-0.4913	-1.4057	2.08E-05	7.42E-05	CLINT1	clathrin int protein_co	5	1.58E+08	1.58E+08	-1	q33.3
ENSG00000046604	-0.4913	-1.4057	0.0045	0.0114	DSG2	desmogleir protein_co	18	31498043	31549008	1	q12.1
ENSG00000176105	-0.4915	-1.4059	3.87E-08	1.85E-07	YES1	YES proto-c protein_co	18	721588	812546	-1	p11.32
ENSG00000165275	-0.4919	-1.4063	0.0071	0.0174	TRMT10B	tRNA meth protein_co	9	37753803	37778972	1	p13.2
ENSG00000014919	-0.4922	-1.4066	0.0005	0.0015	COX15	cytochrom protein_co	10	99711844	99732100	-1	q24.2

ENSG00000148297	-0.4923	-1.4067	0.0015	0.0042	MED22	mediator c1 protein_co	9	1.33E+08	1.33E+08	-1	q34.2
ENSG00000134970	-0.4923	-1.4067	0.0224	0.0488	TMED7	transmemt protein_co	5	1.16E+08	1.16E+08	-1	q22.3
ENSG00000122257	-0.4926	-1.407	1.75E-07	7.83E-07	RBBP6	retinoblast protein_co	16	24537693	24572863	1	p12.1
ENSG00000144426	-0.4927	-1.407	6.65E-05	0.0002	NBEAL1	neurobeacl protein_co	2	2.03E+08	2.03E+08	1	q33.2
ENSG00000023909	-0.4929	-1.4073	0.0005	0.0016	GCLM	glutamate- protein_co	1	93885205	93909456	-1	p22.1
ENSG00000104969	-0.493	-1.4074	3.22E-06	1.26E-05	SGTA	small gluta protein_co	19	2754714	2783371	-1	p13.3
ENSG00000196743	-0.4934	-1.4077	3.01E-06	1.19E-05	GM2A	GM2 gangli protein_co	5	1.51E+08	1.51E+08	1	q33.1
ENSG00000127084	-0.4945	-1.4089	0.0151	0.0343	FGD3	FYVE, RhoC protein_co	9	92947451	93036236	1	q22.31
ENSG00000152439	-0.4951	-1.4094	0.0086	0.0205	ZNF773	zinc finger protein_co	19	57499915	57518404	1	q13.43
ENSG00000114503	-0.4954	-1.4097	6.44E-11	3.93E-10	NCBP2	nuclear cap protein_co	3	1.97E+08	1.97E+08	-1	q29
ENSG00000139517	-0.4955	-1.4098	2.71E-06	1.07E-05	LN2	ligand of n protein_co	13	27545911	27620404	-1	q12.2
ENSG00000144647	-0.4955	-1.4098	0.0072	0.0176	POMGNT2	protein O-li protein_co	3	43079232	43106076	-1	p22.1
ENSG00000055070	-0.4965	-1.4108	0.0001	0.0004	SZRD1	SUZ RNA bi protein_co	1	16352575	16398145	1	p36.13
ENSG00000164024	-0.4966	-1.4109	1.78E-06	7.20E-06	METAP1	methionyl i protein_co	4	98995620	99062813	1	q23
ENSG00000152117	-0.4967	-1.4109	0.0191	0.0423	AC093838.4	transcribed	2	1.31E+08	1.32E+08	1	q21.1
ENSG000000067177	-0.4967	-1.411	0.0025	0.0065	PHKA1	phosphoryl protein_co X		72578814	72714319	-1	q13.1
ENSG00000170846	-0.4969	-1.4112	0.0009	0.0026	AC093323.3	lincRNA	4	6673451	6676047	1	p16.1
ENSG00000169696	-0.4969	-1.4112	0.0016	0.0043	ASPSCR1	alveolar soi protein_co	17	81976807	82017406	1	q25.3
ENSG00000100949	-0.497	-1.4113	9.07E-05	0.0003	RABGGTA	Rab gerany protein_co	14	24265538	24271739	-1	q12
ENSG00000100401	-0.497	-1.4113	0.0002	0.0006	RANGAP1	Ran GTPase protein_co	22	41245611	41286251	-1	q13.2
ENSG000000033050	-0.4971	-1.4114	2.64E-05	9.31E-05	ABCF2	ATP-bindin protein_co	7	1.51E+08	1.51E+08	-1	q36.1
ENSG00000196372	-0.4973	-1.4116	0.0001	0.0003	ASB13	ankyrin rep protein_co	10	5638867	5666595	-1	p15.1
ENSG00000012983	-0.4974	-1.4116	0.0007	0.002	MAP4K5	mitogen-ac protein_co	14	50418501	50561126	-1	q22.1
ENSG00000206053	-0.4975	-1.4118	0.0208	0.0458	HN1L	hematologi protein_co	16	1678256	1702280	1	p13.3
ENSG00000143797	-0.4981	-1.4123	9.16E-07	3.83E-06	MBOAT2	membrane protein_co	2	8852690	9003813	-1	p25.1
ENSG00000171448	-0.4981	-1.4123	0.001	0.0028	ZBTB26	zinc finger i protein_co	9	1.23E+08	1.23E+08	-1	q33.2
ENSG00000136059	-0.498	-1.4123	0.0015	0.004	VILL	villin-like [S protein_co	3	37988059	38007188	1	p22.2
ENSG00000085449	-0.4984	-1.4127	1.87E-15	1.65E-14	WDFY1	WD repeat protein_co	2	2.24E+08	2.24E+08	-1	q36.1
ENSG00000205060	-0.4985	-1.4128	0.0007	0.0019	SLC35B4	solute carri protein_co	7	1.34E+08	1.34E+08	-1	q33
ENSG00000143514	-0.4987	-1.413	1.36E-07	6.13E-07	TP53BP2	tumor prot protein_co	1	2.24E+08	2.24E+08	-1	q41
ENSG00000179950	-0.4989	-1.4132	4.82E-06	1.85E-05	PUF60	poly-U binc protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000140553	-0.4995	-1.4137	3.24E-06	1.27E-05	UNC45A	unc-45 hon protein_co	15	90930180	90954093	1	q26.1
ENSG00000108510	-0.4998	-1.414	1.59E-12	1.11E-11	MED13	mediator c1 protein_co	17	61942605	62065282	-1	q23.2
ENSG00000204186	-0.4997	-1.414	0.0014	0.0039	ZDBF2	zinc finger, protein_co	2	2.06E+08	2.06E+08	1	q33.3
ENSG00000104998	-0.5001	-1.4143	0.0007	0.002	IL27RA	interleukin protein_co	19	14031748	14053216	1	p13.12
ENSG00000144597	-0.5005	-1.4147	1.18E-05	4.34E-05	EAF1	ELL associa protein_co	3	15427355	15450635	1	p25.1
ENSG00000166508	-0.5006	-1.4148	0.0123	0.0286	MCM7	minichromi protein_co	7	1E+08	1E+08	-1	q22.1
ENSG00000163412	-0.5007	-1.4149	4.66E-05	0.0002	EIF4E3	eukaryotic protein_co	3	71675416	71754773	-1	p13
ENSG00000223960	-0.5014	-1.4156	0.0216	0.0474	AC009948.5	antisense	2	1.78E+08	1.78E+08	1	q31.2
ENSG00000188153	-0.5018	-1.416	0.012	0.028	COL4A5	collagen, ty protein_co X		1.08E+08	1.09E+08	1	q22.3
ENSG00000157500	-0.5027	-1.4169	3.34E-06	1.31E-05	APPL1	adaptor prr protein_co	3	57227737	57273468	1	p14.3

ENSG00000180979	-0.5028	-1.4169	9.16E-06	3.41E-05	LRRC57	leucine rich protein_co	15	42537820	42548802	-1	q15.2
ENSG00000115677	-0.5032	-1.4173	6.88E-06	2.60E-05	HDLBP	high densit protein_co	2	2.41E+08	2.41E+08	-1	q37.3
ENSG00000175104	-0.5036	-1.4178	1.35E-07	6.12E-07	TRAF6	TNF recept protein_co	11	36487027	36510272	-1	p12
ENSG00000177683	-0.5042	-1.4184	0.0003	0.001	THAP5	THAP doma protein_co	7	1.09E+08	1.09E+08	-1	q31.1
ENSG00000167967	-0.5044	-1.4186	0.0018	0.0047	E4F1	E4F transcr protein_co	16	2223566	2235742	1	p13.3
ENSG00000136279	-0.5053	-1.4194	4.58E-06	1.77E-05	DBNL	drebrin-like protein_co	7	44044640	44069456	1	p13
ENSG00000170836	-0.5053	-1.4194	2.16E-05	7.71E-05	PPM1D	protein pho protein_co	17	60600183	60666280	1	q23.2
ENSG00000108578	-0.5057	-1.4198	0.0017	0.0047	BLMH	bleomycin protein_co	17	30248195	30292056	-1	q11.2
ENSG00000160888	-0.5061	-1.4202	2.32E-08	1.13E-07	IER2	immediate protein_co	19	13150415	13154908	1	p13.13
ENSG00000111605	-0.5062	-1.4203	6.96E-14	5.43E-13	CPSF6	cleavage ar protein_co	12	69239537	69274358	1	q15
ENSG00000132849	-0.5064	-1.4205	3.42E-09	1.79E-08	INADL	InaD-like (E protein_co	1	61742477	62163920	1	p31.3
ENSG00000259330	-0.507	-1.4211	0.0176	0.0393	INAFM2	InaF-motif antisense	15	40325216	40326715	1	q15.1
ENSG00000086232	-0.5071	-1.4212	1.53E-07	6.87E-07	EIF2AK1	eukaryotic protein_co	7	6022244	6059230	-1	p22.1
ENSG00000185015	-0.5076	-1.4217	0.0001	0.0004	CA13	carbonic ar protein_co	8	85220587	85284073	1	q21.2
ENSG00000213463	-0.5087	-1.4228	1.12E-15	1.01E-14	SYNJ2BP	synaptojan protein_co	14	70366496	70417061	-1	q24.2
ENSG00000110851	-0.5087	-1.4228	1.75E-07	7.83E-07	PRDM4	PR domain protein_co	12	1.08E+08	1.08E+08	-1	q23.3
ENSG00000144677	-0.5087	-1.4228	2.73E-05	9.59E-05	CTDSPL	CTD (carbo protein_co	3	37861960	37984469	1	p22.2
ENSG00000132321	-0.5089	-1.423	0.0123	0.0285	IQCA1	IQ motif co protein_co	2	2.36E+08	2.37E+08	-1	q37.3
ENSG00000101557	-0.5091	-1.4232	8.37E-06	3.13E-05	USP14	ubiquitin s protein_co	18	158383	214629	1	p11.32
ENSG00000175548	-0.5094	-1.4235	0.0004	0.0013	ALG10B	ALG10B, al protein_co	12	38316578	38329728	1	q12
ENSG00000132405	-0.5099	-1.4239	1.28E-06	5.27E-06	TBC1D14	TBC1 doma protein_co	4	6909242	7033118	1	p16.1
ENSG00000149212	-0.5099	-1.4239	0.0002	0.0006	SESN3	sestrin 3 [S protein_co	11	95165540	95232541	-1	q21
ENSG00000110719	-0.51	-1.424	0.0139	0.0318	TCIRG1	T-cell, imm protein_co	11	68039016	68050895	1	q13.2
ENSG00000115310	-0.5108	-1.4248	0.0091	0.0217	RTN4	reticulon 4 protein_co	2	54972187	55112621	-1	p16.1
ENSG00000105339	-0.5114	-1.4255	0.0228	0.0497	DENND3	DENN/MAL protein_co	8	1.41E+08	1.41E+08	1	q24.3
ENSG00000184205	-0.5117	-1.4257	0.0046	0.0115	TSPYL2	TSPY-like 2 protein_co X		53082367	53088540	1	p11.22
ENSG00000203880	-0.5121	-1.4261	5.04E-06	1.93E-05	PCMTD2	protein-L-is protein_co	20	64255695	64287821	1	q13.33
ENSG00000153561	-0.5121	-1.4262	9.01E-06	3.35E-05	RMND5A	required fo protein_co	2	86720173	86778041	1	p11.2
ENSG00000137124	-0.5126	-1.4266	0.0024	0.0063	ALDH1B1	aldehyde d protein_co	9	38392664	38398661	1	p13.1
ENSG00000117242	-0.5128	-1.4268	0.0005	0.0016	PINK1-AS	PINK1 antis antisense	1	20642657	20652193	-1	p36.12
ENSG00000106263	-0.5131	-1.4271	1.29E-09	7.01E-09	EIF3B	eukaryotic protein_co	7	2354086	2380745	1	p22.3
ENSG00000172888	-0.5134	-1.4274	1.85E-06	7.48E-06	ZNF621	zinc finger j protein_co	3	40524878	40574685	1	p22.1
ENSG00000158483	-0.5135	-1.4275	0.0216	0.0473	FAM86C1	family with protein_co	11	71787510	71801236	1	q13.4
ENSG00000145391	-0.5138	-1.4278	3.24E-05	0.0001	SETD7	SET domair protein_co	4	1.39E+08	1.4E+08	-1	q31.1
ENSG00000115053	-0.5139	-1.4279	5.56E-09	2.85E-08	NCL	nucleolin [s protein_co	2	2.31E+08	2.31E+08	-1	q37.1
ENSG00000101276	-0.5139	-1.4279	0.0106	0.0249	SLC52A3	solute carri protein_co	20	760080	768487	-1	p13
ENSG00000197150	-0.514	-1.428	0.0011	0.0032	ABCB8	ATP-bindin protein_co	7	1.51E+08	1.51E+08	1	q36.1
ENSG00000101246	-0.5142	-1.4282	0.0017	0.0045	ARFRP1	ADP-ribosy protein_co	20	63698642	63708025	-1	q13.33
ENSG00000109654	-0.5143	-1.4283	1.04E-09	5.73E-09	TRIM2	tripartite rr protein_co	4	1.53E+08	1.53E+08	1	q31.3
ENSG00000101846	-0.5145	-1.4285	0.0028	0.0073	STS	steroid sulf protein_co X		7219456	7354810	1	p22.31
ENSG00000197363	-0.5145	-1.4285	0.0125	0.029	ZNF517	zinc finger j protein_co	8	1.45E+08	1.45E+08	1	q24.3

ENSG00000178878	-0.5147	-1.4287	0.0122	0.0283	APOLD1	apolipoprotein protein_co	12	12725917	12829975	1	p13.1
ENSG00000136153	-0.515	-1.429	1.73E-07	7.77E-07	LMO7	LIM domain protein_co	13	75620434	75859870	1	q22.2
ENSG00000105127	-0.5152	-1.4292	1.18E-06	4.86E-06	AKAP8	A kinase (P) protein_co	19	15353385	15379798	-1	p13.12
ENSG00000125247	-0.5153	-1.4293	0.0037	0.0096	TMTC4	transmembrane protein_co	13	1.01E+08	1.01E+08	-1	q32.3
ENSG00000080561	-0.5154	-1.4294	0.0002	0.0007	MID2	midline 2 [5] protein_co X		1.08E+08	1.08E+08	1	q22.3
ENSG00000165714	-0.5155	-1.4295	9.41E-05	0.0003	LOH12CR1	loss of heterozygosity protein_co	12	12357079	12469694	1	p13.2
ENSG00000173786	-0.5159	-1.4299	0.0001	0.0004	CNP	2',3'-cyclic nucleotide protein_co	17	41966741	41977731	1	q21.2
ENSG00000104856	-0.5166	-1.4306	0.0207	0.0455	RELB	v-rel avian protein_co	19	45001430	45038194	1	q13.32
ENSG00000054267	-0.5167	-1.4307	1.91E-09	1.03E-08	ARID4B	AT rich interaction protein_co	1	2.35E+08	2.35E+08	-1	q42.3
ENSG00000121486	-0.5168	-1.4308	0.0004	0.0012	TRMT1L	tRNA methyltransferase protein_co	1	1.85E+08	1.85E+08	-1	q25.3
ENSG00000177125	-0.517	-1.431	0.0006	0.0018	ZBTB34	zinc finger protein_co	9	1.27E+08	1.27E+08	1	q33.3
ENSG00000182195	-0.517	-1.431	0.0161	0.0364	LDOC1	leucine zipper protein_co X		1.41E+08	1.41E+08	-1	q27.1
ENSG00000068400	-0.5173	-1.4313	1.89E-06	7.61E-06	GRIPAP1	GRIP1 associated protein_co X		48973720	49002264	-1	p11.23
ENSG00000152413	-0.5174	-1.4314	0.0002	0.0007	HOMER1	homer homolog protein_co	5	79372636	79514217	-1	q14.1
ENSG00000273270	-0.5181	-1.4321	0.0159	0.0359	RP11-212P7.2	lincRNA	7	1.29E+08	1.29E+08	-1	q32.1
ENSG00000198060	-0.5193	-1.4333	7.30E-07	3.08E-06	MARCH5	membrane protein_co	10	92291163	92353964	1	q23.32
ENSG00000011485	-0.5193	-1.4333	0.0004	0.0012	PPP5C	protein phosphatase protein_co	19	46346994	46392981	1	q13.32
ENSG00000206560	-0.5199	-1.4338	2.78E-05	9.77E-05	ANKRD28	ankyrin repeat protein_co	3	15667236	15859771	-1	p25.1
ENSG00000146242	-0.5202	-1.4341	0.0041	0.0104	TPBG	trophoblast protein_co	6	82363206	82370828	1	q14.1
ENSG00000133789	-0.5209	-1.4349	2.24E-09	1.20E-08	SWAP70	SWAP switch protein_co	11	9664077	9752991	1	p15.4
ENSG00000072210	-0.5211	-1.435	0.0116	0.027	ALDH3A2	aldehyde dehydrogenase protein_co	17	19648136	19677598	1	p11.2
ENSG00000139651	-0.5214	-1.4354	1.88E-05	6.76E-05	ZNF740	zinc finger protein_co	12	53180700	53195141	1	q13.13
ENSG00000170604	-0.5215	-1.4354	0.0003	0.0008	IRF2BP1	interferon inducible protein_co	19	45883607	45886170	-1	q13.32
ENSG00000073711	-0.5216	-1.4355	5.50E-08	2.59E-07	PPP2R3A	protein phosphatase protein_co	3	1.36E+08	1.36E+08	1	q22.2
ENSG00000111412	-0.5215	-1.4355	2.56E-06	1.02E-05	C12orf49	chromosome protein_co	12	1.17E+08	1.17E+08	-1	q24.22
ENSG00000174028	-0.5221	-1.436	0.0142	0.0324	FAM3C2	family with processed domain X		23075758	23076767	1	p22.11
ENSG00000162909	-0.5232	-1.4371	0.0001	0.0004	CAPN2	calpain 2, (I) protein_co	1	2.24E+08	2.24E+08	1	q41
ENSG00000101158	-0.5234	-1.4373	4.67E-06	1.80E-05	NELFCD	negative elongation factor protein_co	20	58981208	58995133	1	q13.32
ENSG00000100077	-0.5242	-1.4382	5.10E-06	1.96E-05	ADRBK2	adrenergic beta receptor protein_co	22	25564849	25729294	1	q12.1
ENSG00000137275	-0.525	-1.4389	1.28E-06	5.24E-06	RIPK1	receptor (T) protein_co	6	3063991	3115187	1	p25.2
ENSG00000100014	-0.525	-1.439	2.97E-06	1.17E-05	SPECC1L	sperm antigen protein_co	22	24270817	24417740	1	q11.23
ENSG00000170265	-0.5251	-1.439	9.11E-05	0.0003	ZNF282	zinc finger protein_co	7	1.49E+08	1.49E+08	1	q36.1
ENSG00000177946	-0.5258	-1.4397	0.0001	0.0005	CENPBD1	CENPB DNA binding protein_co	16	89969791	89972534	-1	q24.3
ENSG00000115648	-0.5259	-1.4398	6.47E-05	0.0002	MLPH	melanophilin protein_co	2	2.37E+08	2.38E+08	1	q37.3
ENSG00000002586	-0.5262	-1.4401	0.0042	0.0106	CD99	CD99 molecule protein_co X		2691179	2741309	1	p22.33
ENSG00000159111	-0.5266	-1.4405	4.91E-05	0.0002	MRPL10	mitochondrial protein_co	17	47823272	47831534	-1	q21.32
ENSG00000095015	-0.5271	-1.441	7.74E-06	2.90E-05	MAP3K1	mitogen-activated protein_co	5	56815574	56896152	1	q11.2
ENSG00000157110	-0.5271	-1.441	6.69E-05	0.0002	RBPMS	RNA binding protein_co	8	30384479	30572261	1	p12
ENSG00000135837	-0.5275	-1.4414	3.35E-08	1.60E-07	CEP350	centrosome protein_co	1	1.8E+08	1.8E+08	1	q25.2
ENSG00000095574	-0.5277	-1.4416	0.0001	0.0004	IKZF5	IKAROS family protein_co	10	1.23E+08	1.23E+08	-1	q26.13
ENSG00000104365	-0.5279	-1.4418	1.91E-06	7.68E-06	IKBK	inhibitor of protein_co	8	42271302	42332653	1	p11.21



ENSG00000170871	-0.529	-1.4429	5.37E-14	4.23E-13	KIAA0232	KIAA0232 [ protein_co	4	6781375	6884170	1	p16.1
ENSG00000031003	-0.5295	-1.4434	5.49E-10	3.08E-09	FAM13B	family with protein_co	5	1.38E+08	1.38E+08	-1	q31.2
ENSG00000010165	-0.5295	-1.4435	1.13E-05	4.16E-05	METTL13	methyltran protein_co	1	1.72E+08	1.72E+08	1	q24.3
ENSG00000119950	-0.5296	-1.4435	0.0018	0.005	MXI1	MAX intera protein_co	10	1.1E+08	1.1E+08	1	q25.2
ENSG00000197971	-0.53	-1.4439	4.88E-20	6.36E-19	MBP	myelin basi protein_co	18	76978827	77133683	-1	q23
ENSG00000180694	-0.5304	-1.4443	0.0223	0.0488	TMEM64	transmemt protein_co	8	90621995	90791632	-1	q21.3
ENSG00000159335	-0.5305	-1.4445	0.0004	0.0012	PTMS	parathymo protein_co	12	6765516	6770952	1	p13.31
ENSG00000138074	-0.531	-1.445	0.0001	0.0004	SLC5A6	solute carri protein_co	2	27199587	27212958	-1	p23.3
ENSG00000144554	-0.5312	-1.4452	0.0125	0.029	FANCD2	Fanconi an protein_co	3	10026414	10101930	1	p25.3
ENSG00000164985	-0.5314	-1.4453	0.0188	0.0417	PSIP1	PC4 and SF protein_co	9	15464066	15511019	-1	p22.3
ENSG00000155252	-0.5317	-1.4456	0.017	0.0382	PI4K2A	phosphatid protein_co	10	97640686	97676434	1	q24.2
ENSG00000111647	-0.5326	-1.4465	0.0003	0.0009	UHRF1BP1L	UHRF1 bin protein_co	12	1E+08	1E+08	-1	q23.1
ENSG00000196628	-0.5326	-1.4466	5.55E-05	0.0002	TCF4	transcriptic protein_co	18	55222331	55664787	-1	q21.2
ENSG00000184110	-0.5327	-1.4467	7.55E-05	0.0003	EIF3C	eukaryotic protein_co	16	28688558	28735730	1	p11.2
ENSG00000278619	-0.533	-1.4469	0.0125	0.0289	MRM1	mitochond protein_co	17	36601572	36608971	1	q12
ENSG00000114853	-0.5336	-1.4475	0.0004	0.0012	ZBTB47	zinc finger protein_co	3	42653684	42665854	1	p22.1
ENSG00000075399	-0.5336	-1.4475	0.0024	0.0063	VPS9D1	VPS9 doma protein_co	16	89707134	89720986	-1	q24.3
ENSG00000125686	-0.534	-1.4479	2.19E-06	8.77E-06	MED1	mediator c protein_co	17	39404285	39451286	-1	q12
ENSG00000125347	-0.5341	-1.448	5.87E-08	2.76E-07	IRF1	interferon protein_co	5	1.32E+08	1.32E+08	-1	q31.1
ENSG00000181274	-0.534	-1.448	0.0187	0.0415	FRAT2	frequently protein_co	10	97332497	97334709	-1	q24.1
ENSG00000143320	-0.5341	-1.4481	0.0016	0.0044	CRABP2	cellular reti protein_co	1	1.57E+08	1.57E+08	-1	q23.1
ENSG00000109670	-0.5343	-1.4483	6.02E-05	0.0002	FBXW7	F-box and \ protein_co	4	1.52E+08	1.53E+08	-1	q31.3
ENSG00000129474	-0.5349	-1.4488	1.35E-06	5.51E-06	AJUBA	ajuba LIM f protein_co	14	22971174	22982642	-1	q11.2
ENSG00000183060	-0.5349	-1.4489	0.0051	0.0128	LYSMD4	LysM, puta protein_co	15	99715697	99733561	-1	q26.3
ENSG00000170275	-0.5351	-1.449	4.88E-06	1.88E-05	CRTAP	cartilage as protein_co	3	33113979	33147773	1	p22.3
ENSG00000189298	-0.5356	-1.4495	0.011	0.0259	ZKSCAN3	zinc finger protein_co	6	28349914	28369177	1	p22.1
ENSG00000225733	-0.536	-1.45	1.89E-12	1.31E-11	FGD5-AS1	FGD5 antis antisense	3	14920347	14948424	-1	p25.1
ENSG00000120063	-0.5362	-1.4501	1.16E-06	4.77E-06	GNA13	guanine nu protein_co	17	65010715	65056839	-1	q24.1
ENSG00000151806	-0.5362	-1.4501	8.48E-06	3.17E-05	GUF1	GUF1 GTPa protein_co	4	44678427	44700926	1	p12
ENSG00000133985	-0.5363	-1.4503	0.0006	0.0019	TTC9	tetratricop protein_co	14	70641787	70675360	1	q24.2
ENSG00000140848	-0.5366	-1.4505	0.0009	0.0025	CPNE2	copine II [S protein_co	16	57092537	57148367	1	q13
ENSG00000168234	-0.5368	-1.4507	5.71E-06	2.18E-05	TTC39C	tetratricop protein_co	18	23992773	24135610	1	q11.2
ENSG00000119729	-0.5369	-1.4508	0.002	0.0055	RHOQ	ras homolo protein_co	2	46541806	46583121	1	p21
ENSG00000156853	-0.537	-1.451	0.0027	0.0072	ZNF689	zinc finger protein_co	16	30602558	30624012	-1	p11.2
ENSG00000143924	-0.5378	-1.4518	2.17E-06	8.68E-06	EML4	echinodern protein_co	2	42169350	42332548	1	p21
ENSG00000123143	-0.5386	-1.4525	0.0012	0.0035	PKN1	protein kin. protein_co	19	14433053	14471867	1	p13.12
ENSG00000235437	-0.539	-1.453	0.0002	0.0006	LINC01278	long interg processed_X		63343227	63561071	-1	q11.1
ENSG00000243716	-0.5394	-1.4533	0.0137	0.0314	NPIPB5	nuclear por protein_co	16	22479121	22536521	1	p12.2
ENSG00000112773	-0.5396	-1.4536	0.0002	0.0006	FAM46A	family with protein_co	6	81491439	81752774	-1	q14.1
ENSG00000079805	-0.5398	-1.4538	1.02E-05	3.75E-05	DNM2	dynamnin 2 protein_co	19	10718079	10833488	1	p13.2
ENSG00000134686	-0.54	-1.4539	0.0037	0.0095	PHC2	polyhomeo protein_co	1	33323623	33431052	-1	p35.1



ENSG00000125952	-0.5402	-1.4542	2.86E-08	1.38E-07	MAX	MYC associ protein_co	14	65006174	65102695	-1	q23.3
ENSG00000157510	-0.5405	-1.4545	0.0022	0.0058	AFAP1L1	actin filame protein_co	5	1.49E+08	1.49E+08	1	q32
ENSG00000163320	-0.5408	-1.4548	6.32E-10	3.52E-09	CGGBP1	CGG triplet protein_co	3	88051944	88149885	-1	p11.1
ENSG00000103479	-0.5408	-1.4548	5.12E-07	2.19E-06	RBL2	retinoblast protein_co	16	53433977	53491649	1	q12.2
ENSG00000163513	-0.5408	-1.4548	0.0161	0.0363	TGFBR2	transformir protein_co	3	30606502	30694142	1	p24.1
ENSG00000160685	-0.5409	-1.4549	1.14E-06	4.70E-06	ZBTB7B	zinc finger protein_co	1	1.55E+08	1.55E+08	1	q21.3
ENSG00000111203	-0.541	-1.455	0.0004	0.0011	ITFG2	integrin alp protein_co	12	2812622	2859791	1	p13.33
ENSG00000174227	-0.5412	-1.4552	1.39E-05	5.06E-05	PIGG	phosphatid protein_co	4	499210	540196	1	p16.3
ENSG00000149716	-0.5421	-1.4561	0.0008	0.0023	ORAOV1	oral cancer protein_co	11	69653076	69675416	-1	q13.3
ENSG00000271383	-0.5422	-1.4562	0.0005	0.0014	NBPF14	neuroblast protein_co	1	1.49E+08	1.5E+08	1	q21.2
ENSG00000105402	-0.5423	-1.4563	7.31E-07	3.08E-06	NAPA	N-ethylmal protein_co	19	47487637	47515240	-1	q13.33
ENSG00000162714	-0.5423	-1.4563	0.0001	0.0004	ZNF496	zinc finger protein_co	1	2.47E+08	2.47E+08	-1	q44
ENSG00000057704	-0.5425	-1.4565	1.32E-07	6.00E-07	TMCC3	transmemt protein_co	12	94567124	94650562	-1	q22
ENSG00000203644	-0.5425	-1.4565	0.0094	0.0224	RP11-332M2.1	sense_intrc	3	1.3E+08	1.3E+08	-1	q22.1
ENSG00000110917	-0.5431	-1.4571	0.0001	0.0004	MLEC	malectin [S protein_co	12	1.21E+08	1.21E+08	1	q24.31
ENSG00000185728	-0.5434	-1.4574	4.22E-12	2.84E-11	YTHDF3	YTH domaii protein_co	8	63168553	63212786	1	q12.3
ENSG00000092098	-0.5434	-1.4574	0.0003	0.0008	RNF31	ring finger protein_co	14	24146683	24160661	1	q12
ENSG00000141098	-0.5435	-1.4575	0.0002	0.0006	GFOD2	glucose-fru protein_co	16	67674531	67719421	-1	q22.1
ENSG00000197746	-0.544	-1.458	0.0105	0.0247	PSAP	prosaposin protein_co	10	71816298	71851369	-1	q22.1
ENSG00000106330	-0.5446	-1.4586	0.0005	0.0016	MOSPD3	motile sper protein_co	7	1.01E+08	1.01E+08	1	q22.1
ENSG00000143315	-0.5447	-1.4587	2.37E-07	1.05E-06	PIGM	phosphatid protein_co	1	1.6E+08	1.6E+08	-1	q23.2
ENSG00000124226	-0.5447	-1.4587	0.0004	0.0012	RNF114	ring finger protein_co	20	49936336	49953892	1	q13.13
ENSG00000130299	-0.5448	-1.4589	0.0018	0.005	GTPBP3	GTP bindin protein_co	19	17334920	17342735	1	p13.11
ENSG00000183718	-0.545	-1.459	0.0003	0.0008	TRIM52	tripartite r protein_co	5	1.81E+08	1.81E+08	-1	q35.3
ENSG00000173020	-0.5452	-1.4593	1.94E-10	1.13E-09	ADRBK1	adrenergic protein_co	11	67266410	67286556	1	q13.2
ENSG00000160789	-0.5454	-1.4594	1.12E-06	4.64E-06	LMNA	lamin A/C [ protein_co	1	1.56E+08	1.56E+08	1	q22
ENSG00000151233	-0.5456	-1.4596	3.67E-06	1.43E-05	GXYLT1	glucoside x protein_co	12	42081845	42144879	-1	q12
ENSG00000075303	-0.5458	-1.4598	0.0001	0.0004	SLC25A40	solute carri protein_co	7	87833568	87876357	-1	q21.12
ENSG00000205352	-0.5459	-1.4599	0.0002	0.0007	PRR13	proline rich protein_co	12	53441605	53446645	1	q13.13
ENSG00000095066	-0.546	-1.46	0.0002	0.0007	HOOK2	hook micro protein_co	19	12763003	12872740	-1	p13.13
ENSG00000100997	-0.546	-1.4601	5.77E-06	2.20E-05	ABHD12	abhydrolas protein_co	20	25294743	25390983	-1	p11.21
ENSG00000184967	-0.5464	-1.4605	0.0021	0.0057	NOC4L	nucleolar c protein_co	12	1.32E+08	1.32E+08	1	q24.33
ENSG00000176444	-0.5468	-1.4609	0.0001	0.0003	CLK2	CDC-like kir protein_co	1	1.55E+08	1.55E+08	-1	q22
ENSG00000177548	-0.5471	-1.4611	4.48E-07	1.93E-06	RABEP2	rabaptin, R protein_co	16	28904421	28936526	-1	p11.2
ENSG00000119408	-0.547	-1.4611	5.65E-06	2.16E-05	NEK6	NIMA-relat protein_co	9	1.24E+08	1.24E+08	1	q33.3
ENSG00000226752	-0.5475	-1.4616	0.0002	0.0005	PSMD5-AS1	PSMD5 ant antisense	9	1.21E+08	1.21E+08	1	q33.2
ENSG00000184014	-0.5477	-1.4618	0.0052	0.0129	DENND5A	DENN/MAI protein_co	11	9138825	9265390	-1	p15.4
ENSG00000157870	-0.5478	-1.4619	5.19E-05	0.0002	FAM213B	family with protein_co	1	2586491	2591469	1	p36.32
ENSG00000148358	-0.5479	-1.462	2.33E-09	1.24E-08	GPR107	G protein-c protein_co	9	1.3E+08	1.3E+08	1	q34.11
ENSG00000103365	-0.5479	-1.462	2.80E-06	1.11E-05	GGA2	golgi-assoc protein_co	16	23463542	23521995	-1	p12.2
ENSG00000183111	-0.5484	-1.4624	0.0001	0.0004	ARHGFB37	Rho guanin protein_co	5	1.5E+08	1.5E+08	1	q32

ENSG00000174292	-0.5486	-1.4626	0.0003	0.0009	TNK1	tyrosine kir protein_co	17	7380534	7389774	1	p13.1
ENSG00000001084	-0.5486	-1.4627	0.0002	0.0007	GCLC	glutamate- protein_co	6	53497341	53616970	-1	p12.1
ENSG00000176920	-0.5487	-1.4627	0.0006	0.0017	FUT2	fucosyltran protein_co	19	48695971	48705950	1	q13.33
ENSG00000127191	-0.549	-1.4631	8.23E-05	0.0003	TRAF2	TNF recept protein_co	9	1.37E+08	1.37E+08	1	q34.3
ENSG00000179627	-0.5495	-1.4636	7.28E-05	0.0002	ZBTB42	zinc finger protein_co	14	1.05E+08	1.05E+08	1	q32.33
ENSG00000166747	-0.5498	-1.4639	1.10E-15	9.90E-15	AP1G1	adaptor-rel protein_co	16	71729000	71809201	-1	q22.2
ENSG00000087111	-0.55	-1.4641	2.95E-06	1.16E-05	PIGS	phosphatid protein_co	17	28553383	28571872	-1	q11.2
ENSG00000168795	-0.5504	-1.4644	5.58E-08	2.62E-07	ZBTB5	zinc finger protein_co	9	37438114	37465399	-1	p13.2
ENSG00000166233	-0.5516	-1.4657	2.44E-10	1.41E-09	ARIH1	ariadne RB protein_co	15	72474326	72602985	1	q24.1
ENSG00000148308	-0.5516	-1.4657	0.0005	0.0015	GTF3C5	general tra protein_co	9	1.33E+08	1.33E+08	1	q34.13
ENSG00000125633	-0.5519	-1.466	2.08E-05	7.44E-05	CCDC93	coiled-coil protein_co	2	1.18E+08	1.18E+08	-1	q14.1
ENSG00000107819	-0.552	-1.4661	0.0002	0.0006	SFXN3	sideroflexin protein_co	10	1.01E+08	1.01E+08	1	q24.31
ENSG00000182809	-0.5521	-1.4662	0.0007	0.0021	CRIP2	cysteine-ric protein_co	14	1.05E+08	1.05E+08	1	q32.33
ENSG00000107566	-0.5532	-1.4673	3.53E-05	0.0001	ERLIN1	ER lipid raft protein_co	10	1E+08	1E+08	-1	q24.31
ENSG00000037042	-0.5531	-1.4673	0.0145	0.0331	TUBG2	tubulin, gamma protein_co	17	42659305	42667006	1	q21.2
ENSG00000162885	-0.5546	-1.4687	2.68E-06	1.06E-05	B3GALNT2	beta-1,3-N- protein_co	1	2.35E+08	2.36E+08	-1	q42.3
ENSG00000177406	-0.5548	-1.469	0.0037	0.0095	RP11-218M22.1	antisense	12	630891	663706	1	p13.33
ENSG00000153207	-0.555	-1.4692	4.71E-10	2.66E-09	AHCTF1	AT hook co protein_co	1	2.47E+08	2.47E+08	-1	q44
ENSG00000009780	-0.5554	-1.4695	0.0023	0.0062	FAM76A	family with protein_co	1	27725979	27763122	1	p35.3
ENSG00000148019	-0.5555	-1.4697	0.0097	0.0229	CEP78	centrosome protein_co	9	78236062	78279690	1	q21.2
ENSG00000166888	-0.5556	-1.4698	8.11E-06	3.04E-05	STAT6	signal trans protein_co	12	57095408	57132139	-1	q13.3
ENSG00000133619	-0.5558	-1.4699	0.0172	0.0386	KRBA1	KRAB-A doir protein_co	7	1.5E+08	1.5E+08	1	q36.1
ENSG00000111670	-0.5559	-1.4701	0.0056	0.0139	GNPTAB	N-acetylglu protein_co	12	1.02E+08	1.02E+08	-1	q23.2
ENSG00000146909	-0.5561	-1.4703	4.75E-06	1.83E-05	NOM1	nucleolar p protein_co	7	1.57E+08	1.57E+08	1	q36.3
ENSG00000079337	-0.5567	-1.4709	0.0145	0.033	RAPGEF3	Rap guanin protein_co	12	47734672	47771040	-1	q13.11
ENSG00000123200	-0.5571	-1.4714	6.24E-10	3.48E-09	ZC3H13	zinc finger protein_co	13	45954465	46052759	-1	q14.13
ENSG00000197296	-0.5573	-1.4715	6.53E-05	0.0002	FITM2	fat storage- protein_co	20	44302838	44311169	-1	q13.12
ENSG00000139998	-0.5579	-1.4721	0.0004	0.0012	RAB15	RAB15, me protein_co	14	64945814	64972776	-1	q23.3
ENSG00000139218	-0.558	-1.4722	3.66E-09	1.91E-08	SCAF11	SR-related protein_co	12	45919131	45992120	-1	q12
ENSG00000160613	-0.558	-1.4722	0.0005	0.0015	PCSK7	proprotein protein_co	11	1.17E+08	1.17E+08	-1	q23.3
ENSG00000109189	-0.559	-1.4732	2.87E-13	2.13E-12	USP46	ubiquitin sp protein_co	4	52590972	52659335	-1	q12
ENSG00000154328	-0.5591	-1.4733	0.0003	0.0009	NEIL2	nei endonu protein_co	8	11769639	11787346	1	p23.1
ENSG00000006831	-0.5592	-1.4735	4.18E-07	1.80E-06	ADIPOR2	adiponectin protein_co	12	1688574	1788678	1	p13.33
ENSG00000198700	-0.5597	-1.4739	1.83E-09	9.82E-09	IPO9	importin 9 protein_co	1	2.02E+08	2.02E+08	1	q32.1
ENSG00000064932	-0.56	-1.4743	2.82E-07	1.23E-06	SBNO2	strawberry protein_co	19	1107636	1174283	-1	p13.3
ENSG00000133135	-0.5602	-1.4744	0.0029	0.0075	RNF128	ring finger protein_co X		1.07E+08	1.07E+08	1	q22.3
ENSG00000198825	-0.5605	-1.4748	1.35E-09	7.36E-09	INPP5F	inositol pol protein_co	10	1.2E+08	1.2E+08	1	q26.11
ENSG00000083123	-0.5606	-1.4748	0.0001	0.0004	BCKDHB	branched c protein_co	6	80106647	80346270	1	q14.1
ENSG00000147044	-0.5608	-1.4751	3.73E-05	0.0001	CASK	calcium/cal protein_co X		41514934	41923463	-1	p11.4
ENSG00000152332	-0.5617	-1.476	9.07E-08	4.17E-07	UHMK1	U2AF homc protein_co	1	1.62E+08	1.63E+08	1	q23.3
ENSG00000119778	-0.5619	-1.4762	2.42E-06	9.63E-06	ATAD2B	ATPase fam protein_co	2	23748664	23927114	-1	p23.3

ENSG00000121989	-0.5621	-1.4764	1.22E-06	5.02E-06	ACVR2A	activin A re protein_co	2	1.48E+08	1.48E+08	1	q22.3
ENSG00000133639	-0.5626	-1.4769	4.14E-10	2.35E-09	BTG1	B-cell trans protein_co	12	92140278	92145897	-1	q21.33
ENSG00000100580	-0.5633	-1.4776	1.98E-09	1.06E-08	TMED8	transmemt protein_co	14	77335021	77377109	-1	q24.3
ENSG00000109534	-0.5639	-1.4782	4.10E-06	1.59E-05	GAR1	GAR1 ribon protein_co	4	1.1E+08	1.1E+08	1	q25
ENSG00000183508	-0.5645	-1.4788	0.0182	0.0405	FAM46C	family with protein_co	1	1.18E+08	1.18E+08	1	p12
ENSG00000023892	-0.5646	-1.479	0.0024	0.0063	DEF6	differential protein_co	6	35297852	35321771	1	p21.31
ENSG00000113273	-0.5653	-1.4796	0.0139	0.0319	ARSB	arylsulfatas protein_co	5	78777209	78986087	-1	q14.1
ENSG00000168758	-0.5657	-1.4802	6.66E-06	2.52E-05	SEMA4C	sema doma protein_co	2	96859716	96870757	-1	q11.2
ENSG00000183354	-0.5661	-1.4805	7.08E-08	3.29E-07	KIAA2026	KIAA2026 [ protein_co	9	5881596	6007901	-1	p24.1
ENSG00000168961	-0.5661	-1.4805	0.002	0.0055	LGALS9	lectin, gala protein_co	17	27629798	27649560	1	q11.2
ENSG00000110628	-0.5665	-1.4809	0.0082	0.0197	SLC22A18	solute carri protein_co	11	2899721	2925246	1	p15.4
ENSG00000141026	-0.5667	-1.4811	5.03E-05	0.0002	MED9	mediator c protein_co	17	17476986	17493226	1	p11.2
ENSG00000126351	-0.5667	-1.4811	0.0003	0.0009	THRA	thyroid hor protein_co	17	40058290	40093867	1	q21.1
ENSG00000105186	-0.5677	-1.4822	1.76E-10	1.03E-09	ANKRD27	ankyrin rep protein_co	19	32597007	32676597	-1	q13.11
ENSG00000175376	-0.5678	-1.4822	1.10E-07	5.01E-07	EIF1AD	eukaryotic protein_co	11	65996545	66002176	-1	q13.1
ENSG00000146963	-0.5682	-1.4827	1.91E-06	7.68E-06	C7orf55-LUC7L2	C7orf55-LU protein_co	7	1.39E+08	1.39E+08	1	q34
ENSG00000104299	-0.569	-1.4835	1.47E-05	5.36E-05	INTS9	integrator (protein_co	8	28767661	28890242	-1	p21.1
ENSG00000137343	-0.5697	-1.4842	0.0046	0.0115	ATAT1	alpha tubul protein_co	6	30626842	30646823	1	p21.33
ENSG00000139697	-0.5698	-1.4843	2.32E-15	2.03E-14	SBNO1	strawberry protein_co	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000068308	-0.5701	-1.4846	3.39E-09	1.78E-08	OTUD5	OTU deubi protein_co X		48922028	48958386	-1	p11.23
ENSG00000148660	-0.5709	-1.4855	2.34E-08	1.13E-07	CAMK2G	calcium/cal protein_co	10	73812501	73874591	-1	q22.2
ENSG00000172939	-0.5716	-1.4862	3.23E-08	1.55E-07	OXSRI	oxidative st protein_co	3	38165089	38255488	1	q22.2
ENSG00000081019	-0.5724	-1.487	3.46E-08	1.66E-07	RSBN1	round sper protein_co	1	1.14E+08	1.14E+08	-1	p13.2
ENSG00000090238	-0.5727	-1.4873	2.68E-06	1.06E-05	YPEL3	yippee-like protein_co	16	30092314	30096915	-1	p11.2
ENSG00000103275	-0.574	-1.4886	3.13E-06	1.23E-05	UBE2I	ubiquitin-c protein_co	16	1308880	1327018	1	p13.3
ENSG00000132549	-0.575	-1.4897	3.80E-09	1.98E-08	VPS13B	vacuolar pr protein_co	8	99013266	99877580	1	q22.2
ENSG00000152556	-0.5752	-1.4898	2.23E-06	8.91E-06	PFKM	phosphofru protein_co	12	48105139	48146404	1	q13.11
ENSG00000100201	-0.5757	-1.4904	8.24E-09	4.15E-08	DDX17	DEAD (Asp- protein_co	22	38483440	38507660	-1	q13.1
ENSG00000107863	-0.5758	-1.4905	4.33E-08	2.05E-07	ARHGAP21	Rho GTPas protein_co	10	24583609	24723668	-1	p12.1
ENSG00000089723	-0.5758	-1.4905	0.0015	0.0041	OTUB2	OTU deubi protein_co	14	94026329	94048930	1	q32.12
ENSG00000237807	-0.5762	-1.4909	0.0004	0.0012	RP11-400K9.4	lincRNA	8	53515171	53523931	-1	q11.23
ENSG00000138101	-0.577	-1.4918	0.0002	0.0006	DTNB	dystrobrevi protein_co	2	25377198	25673647	-1	p23.3
ENSG00000150054	-0.5772	-1.4919	5.33E-06	2.04E-05	MPP7	membrane protein_co	10	28050993	28334486	-1	p12.1
ENSG00000130758	-0.5774	-1.4921	0.0018	0.0048	MAP3K10	mitogen-ac protein_co	19	40191744	40215575	1	q13.2
ENSG00000073350	-0.5776	-1.4924	1.25E-05	4.58E-05	LLGL2	lethal giant protein_co	17	75525080	75575208	1	q25.1
ENSG00000125166	-0.5783	-1.4931	1.54E-08	7.60E-08	GOT2	glutamic-o protein_co	16	58707131	58734357	-1	q21
ENSG00000198585	-0.5788	-1.4936	6.48E-09	3.31E-08	NUDT16	nudix (nucl protein_co	3	1.31E+08	1.31E+08	1	q22.1
ENSG00000165434	-0.5788	-1.4936	2.51E-05	8.86E-05	PGM2L1	phosphoglu protein_co	11	74330318	74398473	-1	q13.4
ENSG00000091592	-0.5793	-1.4941	0.0017	0.0046	NLRP1	NLR family, protein_co	17	5499427	5619424	-1	p13.2
ENSG00000257704	-0.5793	-1.4941	0.0125	0.0289	INAFM1	InaF-motif protein_co	19	47274453	47275707	1	q13.32
ENSG00000203879	-0.5793	-1.4942	3.01E-06	1.19E-05	GDI1	GDP dissoc protein_co X		1.54E+08	1.54E+08	1	q28

ENSG0000015532	-0.58	-1.4948	0.0013	0.0036	XYLT2	xylosyltran:protein_co	17	50346092	50363138	1	q21.33
ENSG0000011454	-0.5804	-1.4952	2.35E-06	9.39E-06	RABGAP1	RAB GTPas:protein_co	9	1.23E+08	1.23E+08	1	q33.2
ENSG00000146535	-0.5816	-1.4966	0.0049	0.0124	GNA12	guanine nu protein_co	7	2728112	2844324	-1	p22.2
ENSG00000198231	-0.5826	-1.4975	4.53E-12	3.04E-11	DDX42	DEAD (Asp-protein_co	17	63773603	63819317	1	q23.3
ENSG00000079739	-0.583	-1.4979	0.0015	0.0041	PGM1	phosphogl protein_co	1	63593276	63660245	1	p31.3
ENSG00000189283	-0.583	-1.4979	0.0125	0.0289	FHIT	fragile histi protein_co	3	59749310	61251459	-1	p14.2
ENSG00000174151	-0.5837	-1.4987	3.80E-07	1.64E-06	CYB561D1	cytochrom:protein_co	1	1.09E+08	1.1E+08	1	p13.3
ENSG00000112658	-0.5837	-1.4987	3.22E-06	1.26E-05	SRF	serum resp protein_co	6	43171299	43181507	1	p21.1
ENSG00000184731	-0.584	-1.499	6.43E-05	0.0002	FAM110C	family with protein_co	2	38814	46870	-1	p25.3
ENSG00000099949	-0.5842	-1.4992	0.0023	0.0062	LZTR1	leucine-zipi protein_co	22	20979462	20999038	1	q11.21
ENSG00000198900	-0.5843	-1.4993	1.12E-05	4.14E-05	TOP1	topoisomei protein_co	20	41028818	41124487	1	q12
ENSG00000188707	-0.5843	-1.4993	0.0003	0.001	ZBED6CL	ZBED6 C-te protein_co	7	1.5E+08	1.5E+08	1	q36.1
ENSG00000108963	-0.5855	-1.5006	0.0002	0.0006	DPH1	diphthamic protein_co	17	2030110	2043430	1	p13.3
ENSG00000185090	-0.5858	-1.5009	0.0028	0.0072	MANEAL	mannosida protein_co	1	37793802	37801137	1	p34.3
ENSG00000114573	-0.5864	-1.5015	4.49E-14	3.55E-13	ATP6V1A	ATPase, H+ protein_co	3	1.14E+08	1.14E+08	1	q13.31
ENSG00000105568	-0.5872	-1.5023	1.49E-08	7.34E-08	PPP2R1A	protein ph:protein_co	19	52190039	52229533	1	q13.41
ENSG00000114904	-0.5875	-1.5026	0.0029	0.0075	NEK4	NIMA-relat protein_co	3	52708449	52770949	-1	p21.1
ENSG00000124209	-0.5881	-1.5033	3.03E-09	1.60E-08	RAB22A	RAB22A, m protein_co	20	58309696	58367507	1	q13.32
ENSG00000105722	-0.5882	-1.5033	7.58E-08	3.51E-07	ERF	Ets2 repres protein_co	19	42247572	42255157	-1	q13.2
ENSG00000181396	-0.5882	-1.5034	2.57E-08	1.24E-07	OGFOD3	2-oxogluta protein_co	17	82389223	82418637	-1	q25.3
ENSG00000170100	-0.5883	-1.5035	0.0013	0.0037	ZNF778	zinc finger   protein_co	16	89217703	89237071	1	q24.3
ENSG00000110713	-0.5893	-1.5045	2.36E-07	1.04E-06	NUP98	nucleoporin protein_co	11	3671083	3797792	-1	p15.4
ENSG00000142459	-0.5893	-1.5045	0.0015	0.0042	EVI5L	ecotropic v protein_co	19	7830233	7864976	1	p13.2
ENSG00000151502	-0.5894	-1.5046	4.85E-06	1.86E-05	VPS26B	vacuolar pr protein_co	11	1.34E+08	1.34E+08	1	q25
ENSG00000106351	-0.5901	-1.5053	2.28E-07	1.01E-06	AGFG2	ArfGAP wit protein_co	7	1.01E+08	1.01E+08	1	q22.1
ENSG00000198947	-0.59	-1.5053	1.68E-05	6.09E-05	DMD	dystrophin protein_co X		31097677	33339441	-1	p21.1
ENSG00000174738	-0.5902	-1.5054	4.70E-07	2.02E-06	NR1D2	nuclear rec protein_co	3	23945260	23980618	1	p24.2
ENSG00000102910	-0.5902	-1.5055	1.13E-09	6.15E-09	LONP2	lon peptida protein_co	16	48244296	48363122	1	q12.1
ENSG00000134698	-0.5903	-1.5056	6.34E-11	3.87E-10	AGO4	argonaute   protein_co	1	35808172	35857890	1	p34.3
ENSG00000165105	-0.5911	-1.5064	3.50E-06	1.37E-05	RASEF	RAS and EF protein_co	9	82979585	83063177	-1	q21.32
ENSG00000196724	-0.5911	-1.5064	0.0222	0.0486	ZNF418	zinc finger   protein_co	19	57921884	57935393	-1	q13.43
ENSG00000178202	-0.5915	-1.5068	0.0003	0.001	KDEL2	KDEL (Lys- <i>A</i> protein_co	11	1.08E+08	1.08E+08	-1	q22.3
ENSG00000181588	-0.5918	-1.5071	8.90E-05	0.0003	MEX3D	mex-3 RNA protein_co	19	1554669	1568058	-1	p13.3
ENSG00000183161	-0.5918	-1.5071	0.0007	0.002	FANCF	Fanconi an: protein_co	11	22622519	22626787	-1	p14.3
ENSG00000103199	-0.5918	-1.5072	0.0002	0.0006	ZNF500	zinc finger   protein_co	16	4748239	4767624	-1	p13.3
ENSG00000146067	-0.5919	-1.5073	0.0032	0.0082	FAM193B	family with protein_co	5	1.78E+08	1.78E+08	-1	q35.3
ENSG00000180011	-0.5922	-1.5075	3.10E-08	1.48E-07	ZADH2	zinc bindin: protein_co	18	75195108	75209348	-1	q22.3
ENSG00000157353	-0.5923	-1.5076	2.20E-06	8.81E-06	FUK	fucokinase protein_co	16	70454421	70480274	1	q22.1
ENSG00000168672	-0.5927	-1.5081	5.87E-07	2.50E-06	FAM84B	family with protein_co	8	1.27E+08	1.27E+08	-1	q24.21
ENSG00000224531	-0.593	-1.5084	0.0001	0.0005	SMIM13	small integ: protein_co	6	11094033	11138733	1	p24.2
ENSG00000105778	-0.5933	-1.5087	9.87E-12	6.42E-11	AVL9	AVL9 homc protein_co	7	32495426	32588721	1	p14.3

ENSG00000111816	-0.5934	-1.5088	7.71E-12	5.06E-11	FRK	fyn-related protein_co	6	1.16E+08	1.16E+08	-1	q22.1
ENSG00000146828	-0.5939	-1.5093	1.29E-07	5.84E-07	SLC12A9	solute carrier protein_co	7	1.01E+08	1.01E+08	1	q22.1
ENSG00000143067	-0.5941	-1.5096	0.0067	0.0165	ZNF697	zinc finger protein_co	1	1.2E+08	1.2E+08	-1	p12
ENSG00000085511	-0.5942	-1.5097	1.81E-08	8.89E-08	MAP3K4	mitogen-activated protein_co	6	1.61E+08	1.61E+08	1	q26
ENSG00000136895	-0.5943	-1.5097	0.0164	0.0369	GARNL3	GTPase actin protein_co	9	1.27E+08	1.27E+08	1	q33.3
ENSG00000160087	-0.5944	-1.5099	3.06E-06	1.20E-05	UBE2J2	ubiquitin-conjugating protein_co	1	1253909	1273885	-1	p36.33
ENSG00000151151	-0.5947	-1.5102	5.84E-05	0.0002	IPMK	inositol polyphosphate protein_co	10	58191517	58267934	-1	q21.1
ENSG00000009413	-0.5949	-1.5104	0.0002	0.0007	REV3L	REV3-like protein_co	6	1.11E+08	1.11E+08	-1	q21
ENSG00000008086	-0.5954	-1.5109	2.44E-10	1.41E-09	CDKL5	cyclin-dependent protein_co X		18425583	18653629	1	p22.13
ENSG00000065491	-0.5954	-1.5109	1.19E-07	5.41E-07	TBC1D22B	TBC1 domain protein_co	6	37257772	37332970	1	p21.2
ENSG00000204860	-0.5954	-1.5109	0.0141	0.0322	FAM201A	family with antisense	9	38620474	38624990	1	p13.1
ENSG00000178917	-0.5957	-1.5112	0.0088	0.0211	ZNF852	zinc finger protein_co	3	44498970	44510640	-1	p21.31
ENSG00000157259	-0.596	-1.5115	1.21E-10	7.19E-10	GATAD1	GATA zinc finger protein_co	7	92447453	92458836	1	q21.2
ENSG00000136213	-0.5961	-1.5116	2.45E-05	8.68E-05	CHST12	carbohydrate protein_co	7	2403560	2434607	1	p22.3
ENSG00000272886	-0.5963	-1.5119	1.13E-08	5.62E-08	DCP1A	decapping protein_co	3	53283428	53347610	-1	p21.1
ENSG00000142186	-0.5966	-1.5122	9.45E-10	5.20E-09	SCYL1	SCY1-like 1 protein_co	11	65525077	65538704	1	q13.1
ENSG00000269556	-0.5967	-1.5122	0.0003	0.001	TMEM185A	transmembrane protein_co X		1.5E+08	1.5E+08	-1	q28
ENSG00000158435	-0.5968	-1.5123	5.02E-07	2.15E-06	CNOT11	CCR4-NOT protein_co	2	1.01E+08	1.01E+08	1	q11.2
ENSG00000198408	-0.5968	-1.5124	4.40E-19	5.27E-18	MGEA5	meningioma protein_co	10	1.02E+08	1.02E+08	-1	q24.32
ENSG00000104714	-0.5968	-1.5124	0.0002	0.0005	ERICH1	glutamate protein_co	8	614746	738106	-1	p23.3
ENSG00000147576	-0.5978	-1.5134	0.0088	0.021	ADHFE1	alcohol dehydrogenase protein_co	8	66430185	66471601	1	q13.1
ENSG00000198718	-0.5979	-1.5135	0.0174	0.0389	FAM179B	family with protein_co	14	44962208	45074431	1	q21.2
ENSG00000276293	-0.5981	-1.5137	8.59E-10	4.74E-09	PIP4K2B	phosphatidylinositol protein_co	17	38765689	38800126	-1	q12
ENSG00000130766	-0.5987	-1.5144	0.0003	0.001	SESN2	sestrin 2 [S] protein_co	1	28259527	28282491	1	p35.3
ENSG00000006695	-0.5989	-1.5146	0.0002	0.0006	COX10	cytochrome c oxidase protein_co	17	14069496	14208677	1	p12
ENSG00000141968	-0.5992	-1.5149	0.0001	0.0004	VAV1	vav 1 guanine nucleotide protein_co	19	6772714	6857366	1	p13.3
ENSG00000167986	-0.5995	-1.5152	4.01E-12	2.70E-11	DDB1	damage-specific protein_co	11	61299451	61342596	-1	q12.2
ENSG00000105991	-0.5997	-1.5154	8.59E-05	0.0003	HOXA1	homeobox protein_co	7	27092993	27095996	-1	p15.2
ENSG00000134758	-0.5997	-1.5154	0.0006	0.0018	RNF138	ring finger protein_co	18	32091855	32131561	1	q12.1
ENSG00000197568	-0.5998	-1.5155	0.0087	0.0207	HHLA3	HERV-H LTR protein_co	1	70354805	70385339	1	p31.1
ENSG00000180182	-0.6005	-1.5163	1.33E-13	1.02E-12	MED14	mediator complex protein_co X		40648306	40735858	-1	p11.4
ENSG00000145715	-0.6007	-1.5165	2.73E-05	9.60E-05	RASA1	RAS p21 protein_co	5	87267888	87391931	1	q14.3
ENSG00000110367	-0.6009	-1.5166	8.75E-11	5.28E-10	DDX6	DEAD (Asp-) protein_co	11	1.19E+08	1.19E+08	-1	q23.3
ENSG00000124217	-0.6019	-1.5177	2.77E-05	9.73E-05	MOCS3	molybdenum cofactor protein_co	20	50958826	50963931	1	q13.13
ENSG00000153046	-0.6022	-1.518	8.36E-10	4.62E-09	CDYL	chromodomain protein_co	6	4706159	4955551	1	p25.1
ENSG00000121104	-0.6022	-1.5181	1.04E-05	3.85E-05	FAM117A	family with protein_co	17	49710332	49789180	-1	q21.33
ENSG00000168434	-0.6025	-1.5183	0.0009	0.0027	COG7	component protein_co	16	23388493	23453180	-1	p12.2
ENSG00000163694	-0.6026	-1.5184	2.62E-07	1.15E-06	RBM47	RNA binding protein_co	4	40423267	40630875	-1	p14
ENSG00000162300	-0.6033	-1.5192	3.86E-06	1.50E-05	ZFPL1	zinc finger protein_co	11	65084223	65088400	1	q13.1
ENSG00000188026	-0.6042	-1.5201	0.0061	0.015	RILPL1	Rab interacting protein_co	12	1.23E+08	1.24E+08	-1	q24.31
ENSG00000137269	-0.6044	-1.5203	5.98E-11	3.67E-10	LRRC1	leucine rich protein_co	6	53794497	53924121	1	p12.1



ENSG00000148218	-0.6061	-1.5221	2.35E-07	1.04E-06	ALAD	aminolevul protein_co	9	1.13E+08	1.13E+08	-1	q32
ENSG00000113645	-0.6061	-1.5221	6.68E-07	2.83E-06	WWC1	WW and C; protein_co	5	1.68E+08	1.68E+08	1	q34
ENSG00000119138	-0.6063	-1.5224	0.0068	0.0167	KLF9	Kruppel-like protein_co	9	70384597	70414624	-1	q21.12
ENSG00000136938	-0.6067	-1.5228	2.17E-07	9.62E-07	ANP32B	acidic (leuc protein_co	9	97983361	98015943	1	q22.33
ENSG00000225484	-0.6067	-1.5228	1.84E-06	7.45E-06	NUTM2B-AS1	NUTM2B antisense	10	79663088	79826594	-1	q22.3
ENSG00000163686	-0.607	-1.523	0.0092	0.0218	ABHD6	abhydrolas protein_co	3	58237506	58295693	1	p14.3
ENSG00000143458	-0.607	-1.5231	0.0005	0.0014	GABPB2	GA binding protein_co	1	1.51E+08	1.51E+08	1	q21.3
ENSG00000167702	-0.6071	-1.5232	0.0092	0.0219	KIFC2	kinesin fam protein_co	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000176396	-0.6074	-1.5235	0.0004	0.0011	EID2	EP300 inter protein_co	19	39538250	39540230	-1	q13.2
ENSG00000205609	-0.6076	-1.5237	5.12E-05	0.0002	EIF3CL	eukaryotic protein_co	16	28379579	28403879	-1	p12.1
ENSG00000144476	-0.6079	-1.5241	0.0115	0.0267	ACKR3	atypical chem protein_co	2	2.37E+08	2.37E+08	1	q37.3
ENSG00000166439	-0.6082	-1.5243	1.25E-08	6.22E-08	RNF169	ring finger protein_co	11	74748868	74842413	1	q13.4
ENSG00000136156	-0.6085	-1.5246	5.09E-13	3.71E-12	ITM2B	integral mem protein_co	13	48233158	48270357	1	q14.2
ENSG00000198625	-0.6086	-1.5248	8.41E-05	0.0003	MDM4	MDM4, p5; protein_co	1	2.05E+08	2.05E+08	1	q32.1
ENSG00000153179	-0.6087	-1.5249	9.42E-06	3.50E-05	RASSF3	Ras associa protein_co	12	64610513	64697567	1	q14.2
ENSG00000188177	-0.6087	-1.5249	0.0001	0.0004	ZC3H6	zinc finger protein_co	2	1.12E+08	1.12E+08	1	q14.1
ENSG00000047932	-0.6088	-1.5249	0.0003	0.0008	GOPC	golgi-assoc protein_co	6	1.17E+08	1.18E+08	-1	q22.1
ENSG00000153147	-0.609	-1.5252	2.83E-12	1.93E-11	SMARCA5	SWI/SNF re protein_co	4	1.44E+08	1.44E+08	1	q31.21
ENSG00000107816	-0.6092	-1.5255	1.73E-05	6.25E-05	LZTS2	leucine zip protein_co	10	1.01E+08	1.01E+08	1	q24.31
ENSG00000149476	-0.6098	-1.526	4.66E-05	0.0002	DAK	dihydroxya protein_co	11	61333210	61353295	1	q12.2
ENSG00000269713	-0.6102	-1.5265	0.0002	0.0007	NBPF9	neuroblast protein_co	1	1.49E+08	1.49E+08	-1	q21.2
ENSG00000152894	-0.6102	-1.5265	0.0029	0.0075	PTPRK	protein tyri protein_co	6	1.28E+08	1.29E+08	-1	q22.33
ENSG00000135801	-0.6104	-1.5267	7.22E-07	3.05E-06	TAF5L	TAF5-like R protein_co	1	2.3E+08	2.3E+08	-1	q42.13
ENSG00000188242	-0.6112	-1.5275	0.0041	0.0104	PP7080	uncharacte antisense	5	466124	473098	-1	p15.33
ENSG00000142655	-0.6112	-1.5276	6.80E-06	2.57E-05	PEX14	peroxisom; protein_co	1	10472288	10630758	1	p36.22
ENSG00000130202	-0.6115	-1.5278	0.0003	0.0009	PVRL2	poliovirus r protein_co	19	44846175	44889228	1	q13.32
ENSG00000130522	-0.6115	-1.5279	9.61E-08	4.41E-07	JUND	jun D proto protein_co	19	18279760	18281622	-1	p13.11
ENSG00000107242	-0.6117	-1.5281	0.0013	0.0036	PIP5K1B	phosphatid protein_co	9	68705414	69009176	1	q21.11
ENSG00000149179	-0.6118	-1.5282	0.016	0.0361	C11orf49	chromosom protein_co	11	46936689	47164385	1	p11.2
ENSG00000114019	-0.6123	-1.5287	0.0014	0.0039	AMOTL2	angiomotin protein_co	3	1.34E+08	1.34E+08	-1	q22.2
ENSG00000109171	-0.6123	-1.5287	0.0057	0.0142	SLAIN2	SLAIN moti protein_co	4	48341322	48426212	1	p11
ENSG00000164877	-0.6123	-1.5287	0.0074	0.018	MICALL2	MICAL-like protein_co	7	1428465	1459502	-1	p22.3
ENSG00000101665	-0.6125	-1.5289	0.0021	0.0057	SMAD7	SMAD fami protein_co	18	48919853	48950711	-1	q21.1
ENSG00000143147	-0.6128	-1.5292	0.0002	0.0007	GPR161	G protein-c protein_co	1	1.68E+08	1.68E+08	-1	q24.2
ENSG00000117408	-0.6132	-1.5297	6.47E-07	2.74E-06	IPO13	importin 1; protein_co	1	43946939	43968022	1	p34.1
ENSG00000068137	-0.6133	-1.5297	7.88E-05	0.0003	PLEKHH3	pleckstrin f protein_co	17	42667914	42676994	-1	q21.2
ENSG00000196182	-0.6134	-1.5298	1.75E-06	7.10E-06	STK40	serine/thre protein_co	1	36339624	36385896	-1	p34.3
ENSG00000115255	-0.6135	-1.5299	0.0112	0.0263	REEP6	receptor ac protein_co	19	1490747	1497927	1	p13.3
ENSG00000118046	-0.6137	-1.5301	6.66E-09	3.40E-08	STK11	serine/thre protein_co	19	1177558	1228435	1	p13.3
ENSG00000168874	-0.6137	-1.5301	0.0077	0.0186	ATOH8	atonal hom protein_co	2	85751344	85788066	1	p11.2
ENSG00000127311	-0.614	-1.5305	0.005	0.0126	HELB	helicase (D) protein_co	12	66302545	66347645	1	q14.3



ENSG00000101220	-0.6143	-1.5308	0.0007	0.0021	C20orf27	chromosom protein_co	20	3753508	3768387	-1	p13
ENSG00000104611	-0.6144	-1.531	0.0022	0.0059	SH2D4A	SH2 domai protein_co	8	19313617	19396218	1	p21.3
ENSG00000119685	-0.6145	-1.531	0.019	0.0421	TTL5	tubulin tyrc protein_co	14	75633625	75955078	1	q24.3
ENSG00000151718	-0.6147	-1.5312	6.98E-05	0.0002	WWC2	WW and C; protein_co	4	1.83E+08	1.83E+08	1	q35.1
ENSG00000176248	-0.6153	-1.5319	1.48E-08	7.30E-08	ANAPC2	anaphase p protein_co	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000137776	-0.6159	-1.5325	6.66E-11	4.06E-10	SLTM	SAFB-like, t protein_co	15	58879045	58933653	-1	q22.1
ENSG00000184481	-0.6159	-1.5325	1.73E-05	6.23E-05	FOXO4	forkhead b; protein_co X		71096197	71103535	1	q13.1
ENSG00000248333	-0.6165	-1.5331	4.98E-09	2.56E-08	CDK11B	cyclin-depe protein_co	1	1635227	1722818	-1	p36.33
ENSG00000147140	-0.6165	-1.5332	5.43E-10	3.05E-09	NONO	non-POU d protein_co X		71283192	71301168	1	q13.1
ENSG00000204947	-0.6166	-1.5333	0.001	0.0029	ZNF425	zinc finger   protein_co	7	1.49E+08	1.49E+08	-1	q36.1
ENSG00000197056	-0.6168	-1.5334	9.96E-05	0.0003	ZMYM1	zinc finger, protein_co	1	35059786	35115859	1	p34.3
ENSG00000100065	-0.6176	-1.5343	5.86E-05	0.0002	CARD10	caspase rec protein_co	22	37490362	37519542	-1	q13.1
ENSG00000145860	-0.6178	-1.5346	0.0016	0.0044	RNF145	ring finger   protein_co	5	1.59E+08	1.59E+08	-1	q33.3
ENSG00000268858	-0.6183	-1.535	0.0006	0.0017	RP4-591C20.9	antisense	20	63861212	63864293	-1	q13.33
ENSG00000089597	-0.6183	-1.5351	1.12E-08	5.59E-08	GANAB	glucosidase protein_co	11	62624826	62646726	-1	q12.3
ENSG00000171045	-0.6184	-1.5351	0.0001	0.0004	TSNARE1	t-SNARE dc protein_co	8	1.42E+08	1.42E+08	-1	q24.3
ENSG00000167977	-0.6184	-1.5352	4.24E-05	0.0001	KCTD5	potassium   protein_co	16	2682475	2709030	-1	p13.3
ENSG00000272106	-0.6188	-1.5356	0.0037	0.0094	RP11-345P4.9	antisense	1	1613758	1615795	-1	p36.33
ENSG00000109736	-0.6189	-1.5358	0.0006	0.0017	MFSD10	major facili protein_co	4	2930561	2934859	-1	p16.3
ENSG00000136381	-0.6194	-1.5362	1.44E-22	2.32E-21	IREB2	iron-respor protein_co	15	78437431	78501456	1	q25.1
ENSG00000142765	-0.6195	-1.5363	0.0022	0.0058	SYTL1	synaptotag protein_co	1	27342020	27353937	1	p36.11
ENSG00000162889	-0.6195	-1.5364	2.89E-07	1.27E-06	MAPKAPK2	mitogen-ac protein_co	1	2.07E+08	2.07E+08	1	q32.1
ENSG00000197016	-0.62	-1.5369	4.65E-05	0.0002	ZNF470	zinc finger   protein_co	19	56567511	56588911	1	q13.43
ENSG00000133111	-0.6201	-1.537	0.0044	0.0112	RFXAP	regulatory   protein_co	13	36819224	36829104	1	q13.3
ENSG00000172006	-0.6204	-1.5373	0.0006	0.0018	ZNF554	zinc finger   protein_co	19	2819874	2835773	1	p13.3
ENSG00000198816	-0.6205	-1.5374	3.97E-05	0.0001	ZNF358	zinc finger   protein_co	19	7515292	7521026	1	p13.2
ENSG00000142875	-0.6206	-1.5375	0.0023	0.006	PRKACB	protein kin. protein_co	1	84078062	84238498	1	p31.1
ENSG00000084444	-0.6212	-1.5381	0.0003	0.0008	KIAA1467	KIAA1467 [ protein_co	12	13044284	13142521	1	p13.1
ENSG00000221914	-0.6222	-1.5392	6.28E-06	2.38E-05	PPP2R2A	protein ph; protein_co	8	26291491	26372680	1	p21.2
ENSG00000139880	-0.6224	-1.5395	0.01	0.0235	CDH24	cadherin 2; protein_co	14	23047062	23057538	-1	q11.2
ENSG00000101193	-0.6226	-1.5397	1.17E-11	7.59E-11	GID8	GID comple protein_co	20	62938119	62948475	1	q13.33
ENSG00000091127	-0.6227	-1.5398	5.53E-05	0.0002	PUS7	pseudourid protein_co	7	1.05E+08	1.06E+08	-1	q22.3
ENSG00000131507	-0.6231	-1.5402	1.97E-15	1.73E-14	NDFIP1	Nedd4 fam protein_co	5	1.42E+08	1.42E+08	1	q31.3
ENSG00000144036	-0.6232	-1.5403	1.23E-07	5.62E-07	EXOC6B	exocyst cor protein_co	2	72175984	72826041	-1	p13.2
ENSG00000168062	-0.6242	-1.5414	0.0017	0.0046	BATF2	basic leucir protein_co	11	64987943	64997045	-1	q13.1
ENSG00000083290	-0.6254	-1.5427	5.16E-05	0.0002	ULK2	unc-51 like protein_co	17	19770829	19867936	-1	p11.2
ENSG00000005020	-0.6257	-1.543	1.89E-06	7.62E-06	SKAP2	src kinase ε protein_co	7	26667062	26995239	-1	p15.2
ENSG00000143995	-0.6258	-1.5431	9.95E-06	3.68E-05	MEIS1	Meis home protein_co	2	66433452	66573869	1	p14
ENSG00000154914	-0.6258	-1.5431	1.09E-05	4.01E-05	USP43	ubiquitin s; protein_co	17	9644698	9729691	1	p13.1
ENSG00000110958	-0.626	-1.5433	0.0051	0.0129	PTGES3	prostaglan; protein_co	12	56663341	56688408	-1	q13.3
ENSG00000123575	-0.6263	-1.5436	4.31E-10	2.44E-09	FAM199X	family with protein_co X		1.04E+08	1.04E+08	1	q22.2

ENSG00000223501	-0.6263	-1.5436	2.30E-07	1.02E-06	VPS52	vacuolar pr protein_co	6	33250272	33272047	-1	p21.32
ENSG00000111275	-0.6265	-1.5439	1.99E-05	7.13E-05	ALDH2	aldehyde d protein_co	12	1.12E+08	1.12E+08	1	q24.12
ENSG00000272150	-0.6268	-1.5442	0.0111	0.026	NBPF25P	neuroblast transcribed	1	1.46E+08	1.46E+08	-1	q21.1
ENSG00000156671	-0.6276	-1.5449	4.50E-11	2.78E-10	SAMD8	sterile alph protein_co	10	75099586	75182123	1	q22.2
ENSG00000169991	-0.6277	-1.5451	0.0152	0.0344	IFFO2	intermedia protein_co	1	18904281	18956686	-1	p36.13
ENSG00000143393	-0.6278	-1.5452	2.58E-07	1.14E-06	PI4KB	phosphatid protein_co	1	1.51E+08	1.51E+08	-1	q21.3
ENSG00000143319	-0.6282	-1.5456	1.32E-09	7.16E-09	ISG20L2	interferon protein_co	1	1.57E+08	1.57E+08	-1	q23.1
ENSG00000140406	-0.6284	-1.5458	8.96E-06	3.34E-05	MESDC1	mesoderm protein_co	15	81000944	81005788	1	q25.1
ENSG00000232229	-0.6284	-1.5459	8.09E-05	0.0003	LINC00865	long interg lincRNA	10	89829510	89840861	1	q23.31
ENSG00000163904	-0.6291	-1.5465	4.10E-11	2.54E-10	SENP2	SUMO1/sei protein_co	3	1.86E+08	1.86E+08	1	q27.2
ENSG00000151503	-0.6296	-1.5471	3.32E-07	1.44E-06	NCAPD3	non-SMC c protein_co	11	1.34E+08	1.34E+08	-1	q25
ENSG00000104805	-0.6298	-1.5474	2.75E-06	1.09E-05	NUCB1	nucleobind protein_co	19	48900050	48923372	1	q13.33
ENSG00000137177	-0.6303	-1.5479	6.54E-19	7.70E-18	KIF13A	kinesin fam protein_co	6	17759183	17987623	-1	p22.3
ENSG00000112977	-0.6305	-1.5481	7.92E-07	3.33E-06	DAP	death-asso protein_co	5	10679230	10761272	-1	p15.2
ENSG00000157827	-0.6306	-1.5482	6.65E-06	2.52E-05	FMNL2	formin-like protein_co	2	1.52E+08	1.53E+08	1	q23.3
ENSG00000062598	-0.6307	-1.5483	9.24E-08	4.24E-07	ELMO2	engulfment protein_co	20	46366049	46432985	-1	q13.12
ENSG00000156050	-0.6307	-1.5483	0.0011	0.0031	FAM161B	family with protein_co	14	73931501	73950414	-1	q24.3
ENSG00000178952	-0.6308	-1.5484	4.99E-06	1.92E-05	TUFM	Tu translati protein_co	16	28842411	28846408	-1	p11.2
ENSG00000106266	-0.6311	-1.5487	9.72E-06	3.61E-05	SNX8	sorting nex protein_co	7	2251770	2354318	-1	p22.3
ENSG00000196850	-0.6312	-1.5488	5.43E-10	3.04E-09	PPTC7	PTC7 prote protein_co	12	1.11E+08	1.11E+08	-1	q24.11
ENSG00000122678	-0.6315	-1.5492	0.0042	0.0108	POLM	polymerase protein_co	7	44072247	44082540	-1	p13
ENSG00000175782	-0.6317	-1.5493	1.00E-07	4.60E-07	SLC35E3	solute carri protein_co	12	68746106	68793964	1	q15
ENSG00000145495	-0.6321	-1.5498	5.89E-15	5.00E-14	MARCH6	membrane protein_co	5	10353703	10440388	1	p15.2
ENSG00000134874	-0.6322	-1.5499	0.0041	0.0105	DZIP1	DAZ interac protein_co	13	95578202	95644703	-1	q32.1
ENSG00000156711	-0.6323	-1.55	1.71E-06	6.94E-06	MAPK13	mitogen-ac protein_co	6	36127809	36144524	1	p21.31
ENSG00000052795	-0.6332	-1.551	3.59E-05	0.0001	FNIP2	folliculin in protein_co	4	1.59E+08	1.59E+08	1	q32.1
ENSG00000198162	-0.6333	-1.5511	1.51E-23	2.66E-22	MAN1A2	mannosida protein_co	1	1.17E+08	1.18E+08	1	p12
ENSG00000163558	-0.6334	-1.5512	7.92E-12	5.19E-11	PRKCI	protein kin. protein_co	3	1.7E+08	1.7E+08	1	q26.2
ENSG00000144560	-0.6335	-1.5514	3.05E-08	1.46E-07	VGLL4	vestigial-lik protein_co	3	11556070	11771350	-1	p25.2
ENSG00000109079	-0.6335	-1.5514	0.0001	0.0004	TNFAIP1	tumor necr protein_co	17	28335602	28347009	1	q11.2
ENSG00000187583	-0.6338	-1.5517	0.0014	0.0038	PLEKHN1	pleckstrin t protein_co	1	966497	975865	1	p36.33
ENSG00000132359	-0.634	-1.5518	0.005	0.0125	RAP1GAP2	RAP1 GTPa protein_co	17	2777056	3037739	1	p13.3
ENSG00000124214	-0.634	-1.5519	3.69E-10	2.10E-09	STAU1	staufen doi protein_co	20	49113339	49188367	-1	q13.13
ENSG00000144357	-0.6341	-1.552	1.72E-14	1.41E-13	UBR3	ubiquitin pi protein_co	2	1.7E+08	1.7E+08	1	q31.1
ENSG00000198920	-0.6342	-1.552	0.0002	0.0005	KIAA0753	KIAA0753 [ protein_co	17	6578148	6640927	-1	p13.1
ENSG00000130164	-0.6341	-1.552	0.003	0.0078	LDLR	low density protein_co	19	11089362	11133816	1	p13.2
ENSG00000196878	-0.6344	-1.5523	0.0147	0.0335	LAMB3	laminin, be protein_co	1	2.1E+08	2.1E+08	-1	q32.2
ENSG00000166471	-0.6348	-1.5527	4.78E-05	0.0002	TMEM41B	transmemt protein_co	11	9280654	9314780	-1	p15.4
ENSG00000136238	-0.6348	-1.5528	1.63E-14	1.34E-13	RAC1	ras-related protein_co	7	6374523	6403977	1	p22.1
ENSG00000115170	-0.635	-1.5529	9.82E-07	4.08E-06	ACVR1	activin A re protein_co	2	1.58E+08	1.58E+08	-1	q24.1
ENSG00000101577	-0.635	-1.5529	5.78E-05	0.0002	LPIN2	lipin 2 [Sou protein_co	18	2916994	3013315	-1	p11.31

ENSG00000197321	-0.635	-1.5529	0.0103	0.0243 SVIL	supervillin   protein_co	10	29457338	29736781	-1 p11.23
ENSG00000130038	-0.6351	-1.5531	0.0061	0.015 CRACR2A	calcium rel protein_co	12	3606633	3764819	-1 p13.32
ENSG00000179909	-0.6351	-1.5531	0.0113	0.0264 ZNF154	zinc finger   protein_co	19	57697367	57709194	-1 q13.43
ENSG00000236144	-0.6352	-1.5531	0.0133	0.0306 TMEM147-AS1	TMEM147   antisense	19	35540738	35546029	-1 q13.12
ENSG00000159023	-0.6356	-1.5535	1.09E-08	5.44E-08 EPB41	erythrocyte protein_co	1	28887091	29120046	1 p35.3
ENSG00000182934	-0.6359	-1.5539	4.85E-06	1.87E-05 SRPR	signal reco protein_co	11	1.26E+08	1.26E+08	-1 q24.2
ENSG00000136830	-0.6361	-1.5541	6.58E-14	5.15E-13 FAM129B	family with protein_co	9	1.28E+08	1.28E+08	-1 q34.11
ENSG00000108344	-0.6363	-1.5543	1.94E-09	1.04E-08 PSMD3	proteasom protein_co	17	39980797	39997960	1 q21.1
ENSG00000080819	-0.6372	-1.5553	6.81E-10	3.79E-09 CPOX	coproporpl protein_co	3	98521132	98593723	-1 q11.2
ENSG00000168497	-0.6372	-1.5553	0.0154	0.0349 SDPR	serum dep protein_co	2	1.92E+08	1.92E+08	-1 q32.3
ENSG00000157881	-0.6377	-1.5558	4.13E-06	1.60E-05 PANK4	pantothen protein_co	1	2508533	2526600	-1 p36.32
ENSG00000198799	-0.6383	-1.5565	1.19E-10	7.07E-10 LRIG2	leucine-ric protein_co	1	1.13E+08	1.13E+08	1 p13.2
ENSG00000112531	-0.6389	-1.5571	1.69E-05	6.12E-05 QKI	QKI, KH doi protein_co	6	1.63E+08	1.64E+08	1 q26
ENSG00000254470	-0.639	-1.5572	4.07E-06	1.58E-05 AP5B1	adaptor-rel protein_co	11	65775893	65780802	-1 q13.1
ENSG00000112242	-0.6392	-1.5575	0.0051	0.0127 E2F3	E2F transcr protein_co	6	20401906	20493715	1 p22.3
ENSG00000175582	-0.6393	-1.5576	1.21E-08	6.03E-08 RAB6A	RAB6A, me protein_co	11	73675638	73761137	-1 q13.4
ENSG00000122140	-0.6395	-1.5578	9.13E-07	3.82E-06 MRPS2	mitochond protein_co	9	1.35E+08	1.36E+08	1 q34.3
ENSG00000125741	-0.6397	-1.558	6.68E-08	3.11E-07 OPA3	optic atrop protein_co	19	45527427	45602212	-1 q13.32
ENSG00000197976	-0.64	-1.5583	2.03E-06	8.15E-06 AKAP17A	A kinase (P protein_co X		1591593	1602514	1 p22.33
ENSG00000059728	-0.64	-1.5583	1.84E-05	6.63E-05 MXD1	MAX dimer protein_co	2	69897688	69942945	1 p13.3
ENSG00000060138	-0.6401	-1.5584	1.69E-06	6.85E-06 YBX3	Y box bindi protein_co	12	10699089	10723312	-1 p13.2
ENSG00000110328	-0.6406	-1.559	0.0009	0.0026 GALNT18	polypeptid protein_co	11	11270876	11622005	-1 p15.4
ENSG00000148498	-0.6407	-1.5591	6.96E-08	3.24E-07 PARD3	par-3 famil protein_co	10	34109560	34815325	-1 p11.21
ENSG00000147421	-0.6409	-1.5593	2.45E-06	9.74E-06 HMBOX1	homeobox protein_co	8	28890394	29064764	1 p21.1
ENSG00000261116	-0.6412	-1.5596	3.30E-06	1.29E-05 RP3-523K23.2	sense_over	6	54943167	54945099	1 p12.1
ENSG00000206149	-0.6411	-1.5596	0.0021	0.0056 HERC2P9	hect domai transcribed	15	28589492	28685264	1 q13.1
ENSG00000116830	-0.6417	-1.5601	1.04E-08	5.18E-08 TTF2	transcriptic protein_co	1	1.17E+08	1.17E+08	1 p13.1
ENSG00000103145	-0.6418	-1.5603	0.0004	0.0013 HCFC1R1	host cell fa protein_co	16	3022620	3024286	-1 p13.3
ENSG00000186020	-0.6423	-1.5609	1.08E-05	3.99E-05 ZNF529	zinc finger   protein_co	19	36534774	36605276	-1 q13.12
ENSG00000174953	-0.6428	-1.5614	6.52E-13	4.71E-12 DHX36	DEAH (Asp- protein_co	3	1.54E+08	1.54E+08	-1 q25.2
ENSG00000166068	-0.6431	-1.5617	0.003	0.0078 SPRED1	sprouty-rel protein_co	15	38252326	38357249	1 q14
ENSG00000069011	-0.6431	-1.5617	0.0053	0.0132 PITX1	paired-like protein_co	5	1.35E+08	1.35E+08	-1 q31.1
ENSG00000106397	-0.6432	-1.5618	0.0106	0.025 PLOD3	procollager protein_co	7	1.01E+08	1.01E+08	-1 q22.1
ENSG00000204599	-0.6436	-1.5623	0.0003	0.0009 TRIM39	tripartite r protein_co	6	30326479	30343729	1 p22.1
ENSG00000116191	-0.6438	-1.5624	1.79E-06	7.23E-06 RALGPS2	Ral GEF wit protein_co	1	1.79E+08	1.79E+08	1 q25.2
ENSG00000107521	-0.6441	-1.5628	2.56E-07	1.13E-06 HPS1	Hermansky protein_co	10	98416198	98446947	-1 q24.2
ENSG00000155016	-0.6444	-1.563	0.0073	0.0178 CYP2U1	cytochrom protein_co	4	1.08E+08	1.08E+08	1 q25
ENSG00000108256	-0.6446	-1.5633	1.47E-17	1.55E-16 NUFIP2	nuclear fra protein_co	17	29255836	29294118	-1 q11.2
ENSG00000128274	-0.645	-1.5637	1.24E-09	6.74E-09 A4GALT	alpha 1,4-g protein_co	22	42692121	42721298	-1 q13.2
ENSG00000107186	-0.6451	-1.5638	0.0005	0.0014 MPDZ	multiple PC protein_co	9	13105704	13279590	-1 p23
ENSG00000081014	-0.6452	-1.5639	9.97E-05	0.0003 AP4E1	adaptor-rel protein_co	15	50908672	51005900	1 q21.2

ENSG00000162946	-0.6456	-1.5644	0.0091	0.0217	DISC1	disrupted ir protein_co	1	2.32E+08	2.32E+08	1	q42.2
ENSG00000168283	-0.6457	-1.5645	0.0033	0.0085	BMI1	BMI1 protc protein_co	10	22321211	22331484	1	p12.2
ENSG00000100364	-0.646	-1.5648	1.94E-05	6.96E-05	KIAA0930	KIAA0930 [ protein_co	22	45190338	45240769	-1	q13.31
ENSG00000134954	-0.6466	-1.5655	5.08E-05	0.0002	ETS1	v-ets avian protein_co	11	1.28E+08	1.29E+08	-1	q24.3
ENSG00000205765	-0.6468	-1.5657	2.36E-08	1.14E-07	C5orf51	chromoson protein_co	5	41904188	41921636	1	p13.1
ENSG00000155096	-0.6468	-1.5657	0.0012	0.0034	AZIN1	antizyme ir protein_co	8	1.03E+08	1.03E+08	-1	q22.3
ENSG00000258297	-0.6469	-1.5658	0.0014	0.0038	RP11-658F2.8	antisense	11	66666036	66668374	1	q13.2
ENSG00000104907	-0.6474	-1.5664	0.0005	0.0014	TRMT1	tRNA meth protein_co	19	13104902	13117567	-1	p13.13
ENSG00000126778	-0.6475	-1.5665	2.01E-06	8.09E-06	SIX1	SIX homeol protein_co	14	60643415	60658259	-1	q23.1
ENSG00000166135	-0.648	-1.5669	9.46E-17	9.37E-16	HIF1AN	hypoxia inc protein_co	10	1.01E+08	1.01E+08	1	q24.31
ENSG00000086848	-0.648	-1.567	0.0004	0.0011	ALG9	ALG9, alph; protein_co	11	1.12E+08	1.12E+08	-1	q23.1
ENSG00000175745	-0.648	-1.567	0.0049	0.0123	NR2F1	nuclear rec protein_co	5	93583337	93594615	1	q15
ENSG00000174327	-0.6487	-1.5677	0.0012	0.0033	SLC16A13	solute carri protein_co	17	7036075	7040121	1	p13.1
ENSG00000248092	-0.6488	-1.5679	1.38E-05	5.02E-05	NNT-AS1	NNT antise antisense	5	43571594	43603230	-1	p12
ENSG00000114978	-0.6489	-1.568	7.55E-16	6.92E-15	MOB1A	MOB kinase protein_co	2	74152528	74178898	-1	p13.1
ENSG00000131558	-0.6494	-1.5685	2.52E-08	1.21E-07	EXOC4	exocyst cor protein_co	7	1.33E+08	1.34E+08	1	q33
ENSG00000135414	-0.6496	-1.5687	0.0001	0.0004	GDF11	growth diff protein_co	12	55743280	55757278	1	q13.2
ENSG00000249471	-0.6497	-1.5688	0.0058	0.0143	ZNF324B	zinc finger   protein_co	19	58451604	58457833	1	q13.43
ENSG00000122299	-0.6502	-1.5694	2.14E-08	1.04E-07	ZC3H7A	zinc finger   protein_co	16	11750586	11797267	-1	p13.13
ENSG00000172354	-0.6503	-1.5695	2.16E-06	8.65E-06	GNB2	guanine nu protein_co	7	1.01E+08	1.01E+08	1	q22.1
ENSG00000163517	-0.6504	-1.5696	3.05E-09	1.61E-08	HDAC11	histone de; protein_co	3	13479724	13506424	1	p25.1
ENSG00000157954	-0.6507	-1.5699	3.55E-11	2.21E-10	WIPI2	WD repeat protein_co	7	5190188	5233826	1	p22.1
ENSG00000172766	-0.6508	-1.57	6.91E-06	2.61E-05	NAA16	N(alpha)-ac protein_co	13	41311205	41377030	1	q14.11
ENSG00000086289	-0.651	-1.5703	0.0143	0.0326	EPDR1	ependymin protein_co	7	37683843	37951941	1	p14.1
ENSG00000103353	-0.6512	-1.5704	2.79E-11	1.75E-10	UBFD1	ubiquitin fa protein_co	16	23557362	23574389	1	p12.2
ENSG00000247315	-0.6516	-1.5709	1.32E-07	5.97E-07	ZCCHC3	zinc finger, protein_co	20	296968	300321	1	p13
ENSG00000137460	-0.6517	-1.5711	0.0012	0.0034	FHDC1	FH2 domai protein_co	4	1.53E+08	1.53E+08	1	q31.3
ENSG00000140474	-0.6526	-1.572	1.01E-05	3.73E-05	ULK3	unc-51 like protein_co	15	74836116	74843346	-1	q24.1
ENSG00000151553	-0.6548	-1.5744	4.67E-05	0.0002	FAM160B1	family with protein_co	10	1.15E+08	1.15E+08	1	q25.3
ENSG00000177425	-0.6556	-1.5752	8.83E-10	4.86E-09	PAWR	PRKC, apo; protein_co	12	79574979	79691097	-1	q21.2
ENSG00000130844	-0.6557	-1.5754	0.0004	0.0012	ZNF331	zinc finger   protein_co	19	53520981	53580269	1	q13.42
ENSG00000103042	-0.6557	-1.5754	0.0012	0.0033	SLC38A7	solute carri protein_co	16	58665109	58685104	-1	q21
ENSG00000145604	-0.6559	-1.5756	0.017	0.0382	SKP2	S-phase kin protein_co	5	36151989	36184319	1	p13.2
ENSG00000253719	-0.6568	-1.5765	2.34E-06	9.34E-06	ATXN7L3B	ataxin 7-lik protein_co	12	74537827	74545430	1	q21.1
ENSG00000179820	-0.657	-1.5768	0.0033	0.0085	MYADM	myeloid-as. protein_co	19	53866223	53876437	1	q13.42
ENSG00000059122	-0.6575	-1.5774	1.88E-05	6.76E-05	FLYWCH1	FLYWCH-ty protein_co	16	2911937	2951208	1	p13.3
ENSG00000173276	-0.6577	-1.5775	1.64E-07	7.38E-07	ZBTB21	zinc finger ; protein_co	21	41986831	42010387	-1	q22.3
ENSG00000198933	-0.6582	-1.5781	0.0028	0.0072	TBKP1	TBK1 bindir protein_co	17	47694081	47712050	1	q21.32
ENSG00000198492	-0.6586	-1.5786	3.14E-13	2.32E-12	YTHDF2	YTH domai protein_co	1	28736621	28769775	1	p35.3
ENSG00000175826	-0.6589	-1.5789	3.38E-12	2.29E-11	CTDNBP1	CTD nuclea protein_co	17	7243591	7252491	-1	p13.1
ENSG00000175873	-0.6591	-1.5791	0.0055	0.0136	AC004840.9	lincRNA	7	2437763	2447850	1	p22.3

ENSG00000145685	-0.6594	-1.5795	0.0109	0.0255 LHFPL2	lipoma HM protein_co	5	78485215	78770021	-1 q14.1
ENSG00000112144	-0.6606	-1.5807	8.44E-06	3.15E-05 ICK	intestinal c protein_co	6	53001279	53061802	-1 p12.1
ENSG00000100100	-0.6607	-1.5808	6.84E-06	2.58E-05 PIK3IP1	phosphoinc protein_co	22	31281593	31292534	-1 q12.2
ENSG00000188070	-0.6609	-1.5811	0.0024	0.0063 C11orf95	chromoson protein_co	11	63759892	63768775	-1 q13.1
ENSG00000178904	-0.661	-1.5812	5.74E-05	0.0002 DPY19L3	dpy-19-like protein_co	19	32405543	32485895	1 q13.11
ENSG00000146776	-0.6612	-1.5814	0.0003	0.001 ATXN7L1	ataxin 7-lik protein_co	7	1.06E+08	1.06E+08	-1 q22.3
ENSG00000133858	-0.6619	-1.5822	2.61E-07	1.15E-06 ZFC3H1	zinc finger protein_co	12	71609472	71667725	-1 q21.1
ENSG00000198182	-0.662	-1.5823	0.0006	0.0017 ZNF607	zinc finger protein_co	19	37696363	37719790	-1 q13.12
ENSG00000102781	-0.6626	-1.5829	8.27E-05	0.0003 KATNAL1	katanin p6 protein_co	13	30202630	30307484	-1 q12.3
ENSG00000163681	-0.663	-1.5834	1.17E-22	1.91E-21 SLMAP	sarcolemm protein_co	3	57755450	57929168	1 p14.3
ENSG00000162139	-0.6632	-1.5836	2.61E-07	1.15E-06 NEU3	sialidase 3 protein_co	11	74988134	75018893	1 q13.4
ENSG00000124228	-0.6635	-1.5839	6.86E-08	3.19E-07 DDX27	DEAD (Asp- protein_co	20	49219295	49244077	1 q13.13
ENSG00000154222	-0.6635	-1.5839	7.13E-06	2.69E-05 CC2D1B	coiled-coil protein_co	1	52345723	52366193	-1 p32.3
ENSG00000158301	-0.6636	-1.584	5.25E-06	2.01E-05 GPRASP2	G protein-c protein_co X		1.03E+08	1.03E+08	1 q22.1
ENSG00000168710	-0.6637	-1.5842	5.98E-15	5.08E-14 AHCYL1	adenosylhc protein_co	1	1.1E+08	1.1E+08	1 p13.3
ENSG00000113391	-0.6638	-1.5843	4.71E-09	2.43E-08 FAM172A	family with protein_co	5	93618069	94111699	-1 q15
ENSG00000149925	-0.6641	-1.5846	4.19E-08	1.99E-07 ALDOA	aldolase A, protein_co	16	30053090	30070457	1 p11.2
ENSG00000278535	-0.6644	-1.5849	0.0011	0.0031 DHRS11	dehydrogei protein_co	17	36591798	36600806	1 q12
ENSG00000197912	-0.6647	-1.5853	1.67E-11	1.07E-10 SPG7	spastic pari protein_co	16	89490917	89557768	1 q24.3
ENSG00000146701	-0.6651	-1.5857	2.41E-08	1.17E-07 MDH2	malate deh protein_co	7	76048051	76067508	1 q11.23
ENSG00000170027	-0.6657	-1.5863	9.61E-06	3.56E-05 YWHAG	tyrosine 3-i protein_co	7	76326794	76359031	-1 q11.23
ENSG00000196715	-0.6658	-1.5864	4.89E-10	2.76E-09 VKORC1L1	vitamin K e protein_co	7	65873267	65959563	1 q11.21
ENSG00000013523	-0.666	-1.5867	1.21E-07	5.49E-07 ANGEL1	angel homc protein_co	14	76787243	76826246	-1 q24.3
ENSG00000272419	-0.666	-1.5867	0.0007	0.002 RP11-403I13.8	processed_	1	1.45E+08	1.45E+08	-1 q21.1
ENSG00000141367	-0.6661	-1.5868	6.23E-16	5.75E-15 CLTC	clathrin, he protein_co	17	59619689	59696956	1 q23.1
ENSG00000168246	-0.6661	-1.5868	7.35E-12	4.83E-11 UBTD2	ubiquitin di protein_co	5	1.72E+08	1.72E+08	-1 q35.1
ENSG00000204564	-0.6665	-1.5872	0.0009	0.0026 C6orf136	chromoson protein_co	6	30647039	30653210	1 p21.33
ENSG00000171617	-0.6665	-1.5873	0.0052	0.0131 ENC1	ectoderma protein_co	5	74627406	74641424	-1 q13.3
ENSG00000100299	-0.6669	-1.5876	1.82E-06	7.37E-06 ARSA	arylsulfatas protein_co	22	50622754	50628173	-1 q13.33
ENSG00000165029	-0.6669	-1.5877	0.0001	0.0004 ABCA1	ATP-bindin protein_co	9	1.05E+08	1.05E+08	-1 q31.1
ENSG00000128928	-0.6671	-1.5879	1.64E-10	9.65E-10 IVD	isovaleryl-C protein_co	15	40405795	40435947	1 q15.1
ENSG00000071967	-0.6671	-1.5879	0.0003	0.0008 CYBRD1	cytochrom protein_co	2	1.72E+08	1.72E+08	1 q31.1
ENSG00000063322	-0.6673	-1.588	1.26E-09	6.86E-09 MED29	mediator c protein_co	19	39391303	39400637	1 q13.2
ENSG00000130734	-0.6673	-1.5881	0.0002	0.0006 ATG4D	autophagy protein_co	19	10543895	10553418	1 p13.2
ENSG00000182372	-0.6676	-1.5884	3.67E-07	1.59E-06 CLN8	ceroid-lipol protein_co	8	1755778	1786572	1 p23.3
ENSG00000076944	-0.6677	-1.5886	3.48E-06	1.36E-05 STXBP2	syntaxin bi protein_co	19	7636881	7647873	1 p13.2
ENSG00000075539	-0.6681	-1.589	3.90E-13	2.86E-12 FRYL	FRY-like [Sc protein_co	4	48497361	48780322	-1 p11
ENSG00000100243	-0.6682	-1.5891	6.11E-08	2.86E-07 CYB5R3	cytochrom protein_co	22	42617840	42649568	-1 q13.2
ENSG00000183048	-0.6683	-1.5892	0.0045	0.0114 SLC25A10	solute carri protein_co	17	81712236	81721016	1 q25.3
ENSG00000174669	-0.6687	-1.5896	0.007	0.0171 SLC29A2	solute carri protein_co	11	66362521	66372214	-1 q13.2
ENSG00000188706	-0.6687	-1.5897	1.17E-05	4.31E-05 ZDHHC9	zinc finger, protein_co X		1.3E+08	1.3E+08	-1 q26.1



ENSG00000273314	-0.6688	-1.5897	0.0084	0.0201	RP5-1136G13.2	antisense	7	1.49E+08	1.49E+08	-1	q36.1
ENSG00000103248	-0.6693	-1.5903	2.10E-06	8.42E-06	MTHFSD	methenylt protein_co	16	86530176	86555235	-1	q24.1
ENSG00000101935	-0.6695	-1.5905	3.34E-13	2.47E-12	AMMECR1	Alport sync protein_co X		1.1E+08	1.1E+08	-1	q23
ENSG00000149930	-0.6696	-1.5906	5.99E-11	3.67E-10	TAOK2	TAO kinase protein_co	16	29973641	29992261	1	p11.2
ENSG00000267575	-0.6696	-1.5906	0.0002	0.0008	CTC-459F4.3	processed_	19	27793463	27918863	1	q11
ENSG00000140455	-0.6699	-1.5909	1.55E-13	1.17E-12	USP3	ubiquitin s protein_co	15	63504511	63594640	1	q22.31
ENSG00000126005	-0.67	-1.5911	8.89E-08	4.09E-07	MMP24-AS1	MMP24 an antisense	20	35216462	35278131	-1	q11.22
ENSG00000196371	-0.6702	-1.5913	0.0018	0.0048	FUT4	fucosyltran protein_co	11	94543840	94549898	1	q21
ENSG00000196642	-0.6704	-1.5915	3.94E-16	3.70E-15	RABL6	RAB, memt protein_co	9	1.37E+08	1.37E+08	1	q34.3
ENSG00000140853	-0.6704	-1.5915	0.0003	0.0009	NLRCS	NLR family, protein_co	16	56989485	57083531	1	q13
ENSG00000116574	-0.6704	-1.5916	0.0122	0.0282	RHOU	ras homolo protein_co	1	2.29E+08	2.29E+08	1	q42.13
ENSG00000130695	-0.6706	-1.5918	0.0004	0.0012	CEP85	centrosom: protein_co	1	26234153	26279038	1	p36.11
ENSG00000160877	-0.6718	-1.593	4.39E-09	2.28E-08	NACC1	nucleus acc protein_co	19	13118103	13141141	1	p13.13
ENSG00000134107	-0.6717	-1.593	2.58E-07	1.13E-06	BHLHE40	basic helix- protein_co	3	4979116	4985323	1	p26.1
ENSG00000196917	-0.672	-1.5933	0.0195	0.0431	HCAR1	hydroxycar protein_co	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000162129	-0.6721	-1.5934	8.35E-06	3.13E-05	CLPB	ClpB casein protein_co	11	72292425	72434680	-1	q13.4
ENSG00000109458	-0.6728	-1.5942	5.55E-08	2.61E-07	GAB1	GRB2-asso protein_co	4	1.43E+08	1.43E+08	1	q31.21
ENSG00000125898	-0.673	-1.5944	7.02E-05	0.0002	FAM110A	family with protein_co	20	833715	857463	1	p13
ENSG00000153560	-0.6733	-1.5947	4.44E-10	2.51E-09	UBP1	upstream t protein_co	3	33388336	33441371	-1	p22.3
ENSG00000178691	-0.6736	-1.5951	6.21E-11	3.80E-10	SUZ12	SUZ12 poly protein_co	17	31937018	32001045	1	q11.2
ENSG00000154127	-0.6736	-1.5951	1.25E-05	4.58E-05	UBASH3B	ubiquitin a: protein_co	11	1.23E+08	1.23E+08	1	q24.1
ENSG00000005889	-0.6739	-1.5954	2.21E-30	7.26E-29	ZFX	zinc finger   protein_co X		24149173	24216255	1	p22.11
ENSG00000144567	-0.674	-1.5955	1.22E-14	1.02E-13	FAM134A	family with protein_co	2	2.19E+08	2.19E+08	1	q35
ENSG00000064601	-0.6741	-1.5956	7.31E-05	0.0002	CTSA	cathepsin A protein_co	20	45890144	45898820	1	q13.12
ENSG00000111684	-0.6743	-1.5958	2.50E-08	1.21E-07	LPCAT3	lysophosph protein_co	12	6976186	7018510	-1	p13.31
ENSG00000162231	-0.6744	-1.5959	6.34E-09	3.24E-08	NXF1	nuclear RN. protein_co	11	62792123	62806302	-1	q12.3
ENSG00000170485	-0.6745	-1.596	1.10E-07	5.04E-07	NPAS2	neuronal P. protein_co	2	1.01E+08	1.01E+08	1	q11.2
ENSG00000169499	-0.6746	-1.5961	8.79E-06	3.28E-05	PLEKHA2	pleckstrin t protein_co	8	38901235	38973909	1	p11.22
ENSG00000178726	-0.6746	-1.5961	0.0014	0.0039	THBD	thrombom protein_co	20	23045633	23049741	-1	p11.21
ENSG00000144468	-0.6751	-1.5967	1.07E-08	5.33E-08	RHBDD1	rhomboid c protein_co	2	2.27E+08	2.27E+08	1	q36.3
ENSG00000107372	-0.6752	-1.5968	5.67E-14	4.45E-13	ZFAND5	zinc finger, protein_co	9	72351425	72365235	-1	q21.13
ENSG00000116649	-0.6752	-1.5969	0.0001	0.0005	SRM	spermidine protein_co	1	11054584	11060024	-1	p36.22
ENSG00000205808	-0.6754	-1.597	0.0003	0.001	PPAPDC2	phosphatid protein_co	9	4662315	4665258	1	p24.1
ENSG00000149131	-0.6755	-1.5971	0.0012	0.0034	SERPING1	serpin pept protein_co	11	57597387	57614853	1	q12.1
ENSG00000166822	-0.6761	-1.5978	2.69E-08	1.30E-07	TMEM170A	transmemt protein_co	16	75443054	75465497	-1	q23.1
ENSG00000118276	-0.6765	-1.5983	0.005	0.0126	B4GALT6	UDP-Gal:be protein_co	18	31622247	31685836	-1	q12.1
ENSG00000197530	-0.6767	-1.5985	1.73E-10	1.01E-09	MIB2	mindbomb protein_co	1	1615415	1630610	1	p36.33
ENSG00000114796	-0.6768	-1.5986	6.46E-11	3.94E-10	KLHL24	kelch-like f: protein_co	3	1.84E+08	1.84E+08	1	q27.1
ENSG00000173040	-0.677	-1.5988	0.0007	0.0021	EVC2	Ellis van Cr: protein_co	4	5542772	5709548	-1	p16.2
ENSG00000023516	-0.677	-1.5989	1.66E-22	2.67E-21	AKAP11	A kinase (P protein_co	13	42272153	42323267	1	q14.11
ENSG00000154370	-0.6774	-1.5992	1.12E-06	4.61E-06	TRIM11	tripartite r protein_co	1	2.28E+08	2.28E+08	-1	q42.13



ENSG00000139625	-0.6773	-1.5992	0.0024	0.0063	MAP3K12	mitogen-ac protein_co	12	53479669	53500063	-1	q13.13
ENSG00000154832	-0.6776	-1.5995	3.17E-09	1.67E-08	CXXC1	CXXC finger protein_co	18	50282343	50288304	-1	q21.1
ENSG00000102977	-0.6776	-1.5995	0.0007	0.002	ACD	adrenocort protein_co	16	67657512	67660815	-1	q22.1
ENSG00000229729	-0.6777	-1.5996	0.0004	0.0012	RP11-159G9.5	lincRNA	3	88059274	88138973	1	p11.1
ENSG00000159592	-0.6778	-1.5997	5.25E-14	4.13E-13	GPBP1L1	GC-rich pro protein_co	1	45627304	45688113	-1	p34.1
ENSG00000188976	-0.6782	-1.6001	1.48E-12	1.03E-11	NOC2L	nucleolar c protein_co	1	944204	959309	-1	p36.33
ENSG00000160193	-0.6785	-1.6005	6.37E-05	0.0002	WDR4	WD repeat protein_co	21	42843094	42879568	-1	q22.3
ENSG00000139668	-0.6791	-1.6012	1.74E-07	7.82E-07	WDFY2	WD repeat protein_co	13	51584455	51767707	1	q14.3
ENSG00000160972	-0.6793	-1.6014	0.0212	0.0465	PPP1R16A	protein pho protein_co	8	1.44E+08	1.45E+08	1	q24.3
ENSG00000179886	-0.6797	-1.6018	0.0002	0.0005	TIGD5	tigger trans protein_co	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000005810	-0.6801	-1.6022	1.88E-13	1.42E-12	MYCBP2	MYC bindin protein_co	13	77044655	77327050	-1	q22.3
ENSG00000113649	-0.6801	-1.6023	1.09E-11	7.10E-11	TCERG1	transcriptic protein_co	5	1.46E+08	1.47E+08	1	q32
ENSG00000234127	-0.6801	-1.6023	1.96E-08	9.57E-08	TRIM26	tripartite r protein_co	6	30184455	30213427	-1	p22.1
ENSG00000158161	-0.6803	-1.6025	6.74E-09	3.44E-08	EYA3	EYA transcr protein_co	1	27970344	28088696	-1	p35.3
ENSG00000102921	-0.6805	-1.6027	6.83E-09	3.48E-08	N4BP1	NEDD4 bin protein_co	16	48538726	48620148	-1	q12.1
ENSG00000062650	-0.6807	-1.6029	1.04E-19	1.31E-18	WAPAL	wings apar protein_co	10	86435256	86521815	-1	q23.2
ENSG00000104859	-0.6808	-1.603	0.0004	0.0013	CLASRP	CLK4-assoc protein_co	19	45039040	45070956	1	q13.32
ENSG00000031823	-0.6809	-1.6031	4.01E-11	2.49E-10	RANBP3	RAN bindin protein_co	19	5916139	5978142	-1	p13.3
ENSG00000112039	-0.681	-1.6033	0.0075	0.0181	FANCE	Fanconi an protein_co	6	35452361	35467103	1	p21.31
ENSG00000101413	-0.6814	-1.6036	9.54E-08	4.38E-07	RPRD1B	regulation p protein_co	20	38033546	38127780	1	q11.23
ENSG00000196233	-0.6814	-1.6037	2.28E-14	1.85E-13	LCOR	ligand depe protein_co	10	96832260	96981043	1	q24.1
ENSG00000182796	-0.682	-1.6043	0.0055	0.0137	TMEM198B	transmemt unitary_pse	12	55829745	55836246	1	q13.2
ENSG00000147010	-0.682	-1.6044	2.77E-07	1.21E-06	SH3KBP1	SH3-domai protein_co X		19533975	19887601	-1	p22.12
ENSG00000106992	-0.6821	-1.6045	0.0037	0.0095	AK1	adenylate k protein_co	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000166377	-0.6828	-1.6053	2.17E-11	1.38E-10	ATP9B	ATPase, cla protein_co	18	79069285	79378283	1	q23
ENSG00000178038	-0.683	-1.6055	0.0013	0.0036	ALS2CL	ALS2 C-terr protein_co	3	46668997	46693704	-1	p21.31
ENSG00000183386	-0.6832	-1.6057	0.0077	0.0187	FHL3	four and a l protein_co	1	37996770	38005606	-1	p34.3
ENSG00000175764	-0.6833	-1.6058	0.0031	0.008	TLL11	tubulin tyrc protein_co	9	1.22E+08	1.22E+08	-1	q33.2
ENSG00000162775	-0.6834	-1.6059	5.49E-06	2.10E-05	RBM15	RNA bindin protein_co	1	1.1E+08	1.1E+08	1	p13.3
ENSG00000142192	-0.6834	-1.6059	0.0004	0.0012	APP	amyloid be protein_co	21	25880550	26171128	-1	q21.3
ENSG00000174996	-0.6835	-1.606	6.41E-06	2.43E-05	KLC2	kinesin ligh protein_co	11	66257294	66267860	1	q13.2
ENSG00000114993	-0.6837	-1.6063	0.0015	0.0041	RTKN	rhotekin [S protein_co	2	74425836	74442422	-1	p13.1
ENSG00000134318	-0.684	-1.6066	1.35E-13	1.03E-12	ROCK2	Rho-associ protein_co	2	11179761	11348330	-1	p25.1
ENSG00000120093	-0.6843	-1.6069	0.0025	0.0067	HOXB3	homeobox protein_co	17	48548870	48604912	-1	q21.32
ENSG00000127054	-0.6844	-1.607	1.12E-09	6.10E-09	CPSF3L	cleavage ar protein_co	1	1311585	1324691	-1	p36.33
ENSG00000120162	-0.6843	-1.607	0.0002	0.0006	MOB3B	MOB kinasi protein_co	9	27325209	27529781	-1	p21.2
ENSG00000131791	-0.6846	-1.6072	4.25E-08	2.02E-07	PRKAB2	protein kin. protein_co	1	1.47E+08	1.47E+08	-1	q21.1
ENSG00000101350	-0.6848	-1.6075	0.0014	0.0038	KIF3B	kinesin fam protein_co	20	32277664	32335011	1	q11.21
ENSG00000175155	-0.6849	-1.6076	2.13E-07	9.46E-07	YPEL2	yippee-like protein_co	17	59331689	59401729	1	q22
ENSG00000166348	-0.6851	-1.6078	2.44E-06	9.71E-06	USP54	ubiquitin s protein_co	10	73497538	73625953	-1	q22.2
ENSG00000119314	-0.6852	-1.6079	1.11E-17	1.18E-16	PTBP3	polypyrimic protein_co	9	1.12E+08	1.12E+08	-1	q32

ENSG00000175029	-0.6852	-1.608	8.24E-12	5.40E-11	CTBP2	C-terminal protein_co	10	1.25E+08	1.25E+08	-1	q26.13
ENSG00000143799	-0.6853	-1.608	4.04E-08	1.92E-07	PARP1	poly (ADP-r protein_co	1	2.26E+08	2.26E+08	-1	q42.12
ENSG00000115525	-0.6854	-1.6081	0.0045	0.0113	ST3GAL5	ST3 beta-g; protein_co	2	85839144	85889014	-1	p11.2
ENSG00000033100	-0.686	-1.6088	0.0003	0.001	CHPF2	chondroitin protein_co	7	1.51E+08	1.51E+08	1	q36.1
ENSG00000272913	-0.6865	-1.6093	6.11E-05	0.0002	RP11-440D17.3	lincRNA	2	95525109	95526702	-1	q11.1
ENSG00000269918	-0.6864	-1.6093	0.0173	0.0388	AF131215.9	sense_intrc	8	11104691	11106704	-1	p23.1
ENSG00000101004	-0.6869	-1.6099	5.62E-07	2.39E-06	NINL	ninein-like protein_co	20	25452705	25585517	-1	p11.21
ENSG00000073050	-0.6873	-1.6103	0.0001	0.0004	XRCC1	X-ray repair protein_co	19	43543040	43580473	-1	q13.31
ENSG00000103174	-0.6873	-1.6103	0.0013	0.0035	NAGPA	N-acetylglu protein_co	16	5024844	5034141	-1	p13.3
ENSG00000163347	-0.6874	-1.6104	4.91E-05	0.0002	CLDN1	claudin 1 [S protein_co	3	1.9E+08	1.9E+08	-1	q28
ENSG00000140279	-0.6877	-1.6107	0.0106	0.0249	DUOX2	dual oxidase protein_co	15	45092650	45114344	-1	q21.1
ENSG00000198146	-0.6878	-1.6108	9.35E-19	1.09E-17	ZNF770	zinc finger protein_co	15	34978341	34988287	-1	q14
ENSG00000155265	-0.6879	-1.611	0.0096	0.0228	GOLGA7B	golgin A7 f; protein_co	10	97850239	97871580	1	q24.2
ENSG00000162542	-0.6886	-1.6118	5.05E-07	2.16E-06	TMCO4	transmemt protein_co	1	19682213	19799945	-1	p36.13
ENSG00000160703	-0.6887	-1.6119	8.85E-07	3.70E-06	NLRX1	NLR family protein_co	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000180867	-0.6894	-1.6126	0.0075	0.0181	PDIA3P1	protein disr processed_	1	1.47E+08	1.47E+08	1	q21.1
ENSG00000112079	-0.6896	-1.6128	9.13E-17	9.06E-16	STK38	serine/thre protein_co	6	36493892	36547470	-1	p21.31
ENSG00000272091	-0.6899	-1.6131	0.0004	0.0013	RP4-758J24.5	lincRNA	1	54026681	54028499	-1	p32.3
ENSG00000279348	-0.6901	-1.6134	2.20E-05	7.83E-05	RP11-566E18.1	TEC	2	2.16E+08	2.16E+08	1	q35
ENSG00000135457	-0.6904	-1.6138	7.40E-09	3.75E-08	TFCP2	transcriptic protein_co	12	51093663	51173134	-1	q13.13
ENSG00000070371	-0.6909	-1.6142	0.0008	0.0022	CLTCL1	clathrin, he protein_co	22	19179473	19291716	-1	q11.21
ENSG00000275764	-0.6913	-1.6147	2.04E-05	7.28E-05	RP11-582E3.6	lincRNA	12	27037100	27038960	1	p11.23
ENSG00000101911	-0.6917	-1.6152	7.98E-13	5.71E-12	PRPS2	phosphorit protein_co X		12791355	12824222	1	p22.2
ENSG00000160214	-0.6918	-1.6153	1.32E-06	5.39E-06	RRP1	ribosomal f protein_co	21	43789513	43805293	1	q22.3
ENSG00000104517	-0.692	-1.6155	1.22E-11	7.91E-11	UBR5	ubiquitin pi protein_co	8	1.02E+08	1.02E+08	-1	q22.3
ENSG00000197712	-0.6922	-1.6158	5.79E-10	3.24E-09	FAM114A1	family with protein_co	4	38867677	38945739	1	p14
ENSG00000147548	-0.6924	-1.6159	1.53E-10	9.01E-10	WHSC1L1	Wolf-Hirsch protein_co	8	38269697	38382272	-1	p11.23
ENSG00000124222	-0.6929	-1.6165	1.45E-12	1.02E-11	STX16	syntaxin 16 protein_co	20	58651253	58679526	1	q13.32
ENSG00000135525	-0.6929	-1.6166	2.07E-11	1.32E-10	MAP7	microtubul protein_co	6	1.36E+08	1.37E+08	-1	q23.3
ENSG00000176890	-0.6931	-1.6167	0.0048	0.0121	TYMS	thymidylat protein_co	18	657604	673578	1	p11.32
ENSG00000105656	-0.6933	-1.617	8.49E-08	3.91E-07	ELL	elongation protein_co	19	18442663	18522127	-1	p13.11
ENSG00000142700	-0.6937	-1.6174	1.97E-06	7.93E-06	DMRTA2	DMRT-like protein_co	1	50417550	50423500	-1	p32.3
ENSG00000074964	-0.6939	-1.6176	5.43E-07	2.32E-06	ARHGEF10L	Rho guanin protein_co	1	17539835	17697874	1	p36.13
ENSG00000100083	-0.6941	-1.6179	1.93E-09	1.03E-08	GGA1	golgi-assoc protein_co	22	37608475	37633564	1	q13.1
ENSG00000137815	-0.6947	-1.6185	8.02E-12	5.26E-11	RTF1	Rtf1, Paf1/l protein_co	15	41408408	41483563	1	q15.1
ENSG00000112118	-0.6947	-1.6185	1.02E-05	3.78E-05	MCM3	minichrom; protein_co	6	52264009	52284881	-1	p12.2
ENSG00000100697	-0.6954	-1.6193	3.14E-20	4.15E-19	DICER1	dicer 1, rib; protein_co	14	95086228	95158010	-1	q32.13
ENSG00000272565	-0.6954	-1.6193	3.50E-09	1.83E-08	RP11-485G4.2	lincRNA	3	1.42E+08	1.42E+08	-1	q23
ENSG00000269940	-0.6963	-1.6204	0.0087	0.0208	RP11-73M18.7	sense_intrc	14	1.04E+08	1.04E+08	1	q32.33
ENSG00000269905	-0.6966	-1.6207	2.25E-09	1.20E-08	TFDP2	transcriptic protein_co	3	1.42E+08	1.42E+08	-1	q23
ENSG00000172661	-0.6975	-1.6217	3.12E-08	1.50E-07	FAM21C	family with protein_co	10	45727200	45792964	1	q11.22

ENSG00000148843	-0.6977	-1.6219	5.91E-08	2.77E-07	PDCD11	programm protein_co	10	1.03E+08	1.03E+08	1	q24.33
ENSG00000087157	-0.6983	-1.6226	4.52E-09	2.34E-08	PGS1	phosphatid protein_co	17	78378640	78425114	1	q25.3
ENSG00000141497	-0.6983	-1.6226	0.0061	0.0152	ZMYND15	zinc finger, protein_co	17	4740015	4746119	1	p13.2
ENSG00000135720	-0.6984	-1.6227	2.88E-23	4.93E-22	DYNC1L12	dynein, cyt protein_co	16	66720893	66751798	-1	q22.1
ENSG00000077684	-0.6986	-1.6229	0.0022	0.0059	JADE1	jade family protein_co	4	1.29E+08	1.29E+08	1	q28.2
ENSG00000105866	-0.6988	-1.6232	0.0001	0.0005	SP4	Sp4 transcr protein_co	7	21428034	21514822	1	p15.3
ENSG00000108840	-0.6992	-1.6236	1.79E-06	7.25E-06	HDAC5	histone deac protein_co	17	44076746	44123702	-1	q21.31
ENSG00000173511	-0.6995	-1.6239	2.84E-05	9.95E-05	VEGFB	vascular en protein_co	11	64234538	64238793	1	q13.1
ENSG00000114062	-0.6996	-1.624	2.72E-14	2.19E-13	UBE3A	ubiquitin p1 protein_co	15	25333729	25439028	-1	q11.2
ENSG00000213214	-0.7006	-1.6252	0.0007	0.002	ARHGFE35	Rho guanin protein_co	7	1.44E+08	1.44E+08	-1	q35
ENSG00000146281	-0.7008	-1.6254	0.0002	0.0006	PM20D2	peptidase I protein_co	6	89146050	89165565	1	q15
ENSG00000204227	-0.7011	-1.6258	8.31E-11	5.03E-10	RING1	ring finger   protein_co	6	33208495	33212722	1	p21.32
ENSG00000118200	-0.7015	-1.6262	3.08E-10	1.77E-09	CAMSAP2	calmodulin protein_co	1	2.01E+08	2.01E+08	1	q32.1
ENSG00000107140	-0.7016	-1.6264	1.74E-09	9.36E-09	TESK1	testis-speci protein_co	9	35605305	35610041	1	p13.3
ENSG00000151458	-0.7019	-1.6267	3.78E-06	1.47E-05	ANKRD50	ankyrin rep protein_co	4	1.25E+08	1.25E+08	-1	q28.1
ENSG00000008130	-0.702	-1.6268	3.27E-09	1.72E-08	NADK	NAD kinase protein_co	1	1751232	1780457	-1	p36.33
ENSG00000134504	-0.7021	-1.6269	8.05E-07	3.38E-06	KCTD1	potassium   protein_co	18	26454910	26657401	-1	q11.2
ENSG00000011021	-0.7022	-1.627	2.51E-06	1.00E-05	CLCN6	chloride ch protein_co	1	11806096	11843144	1	p36.22
ENSG00000100325	-0.7023	-1.6271	1.43E-14	1.18E-13	ASCC2	activating s protein_co	22	29788608	29838304	-1	q12.2
ENSG00000169919	-0.7025	-1.6273	3.41E-07	1.48E-06	GUSB	glucuronid; protein_co	7	65960684	65982314	-1	q11.21
ENSG00000070731	-0.7028	-1.6276	1.23E-08	6.09E-08	ST6GALNAC2	ST6 (alpha- protein_co	17	76563710	76586956	-1	q25.1
ENSG00000182612	-0.703	-1.6278	0.0137	0.0314	TSPAN10	tetraspanin protein_co	17	81637171	81648749	1	q25.3
ENSG00000141458	-0.703	-1.6279	0.0003	0.0008	NPC1	Niemann-P protein_co	18	23506184	23586898	-1	q11.2
ENSG00000269983	-0.703	-1.6279	0.0056	0.0139	RP11-497H16.9	lincRNA	5	70449636	70450353	1	q13.2
ENSG00000215114	-0.7039	-1.6289	3.50E-14	2.80E-13	UBXN2B	UBX domai protein_co	8	58411264	58451501	1	q12.1
ENSG00000030419	-0.7042	-1.6292	3.18E-12	2.16E-11	IKZF2	IKAROS fan protein_co	2	2.13E+08	2.13E+08	-1	q34
ENSG00000133874	-0.7042	-1.6293	0.0016	0.0044	RNF122	ring finger   protein_co	8	33547755	33567125	-1	p12
ENSG00000101346	-0.7047	-1.6298	4.14E-08	1.97E-07	POFUT1	protein O-f protein_co	20	32207880	32238667	1	q11.21
ENSG00000204366	-0.7049	-1.63	0.0034	0.0087	ZBTB12	zinc finger ; protein_co	6	31899607	31901992	-1	p21.33
ENSG00000158987	-0.7051	-1.6302	0.0003	0.0008	RAPGEF6	Rap guanin protein_co	5	1.31E+08	1.32E+08	-1	q31.1
ENSG00000235194	-0.7052	-1.6303	0.0004	0.0011	PPP1R3E	protein phc protein_co	14	23295643	23302848	-1	q11.2
ENSG00000179277	-0.7055	-1.6307	7.25E-06	2.73E-05	MEIS3P1	Meis home processed_	17	15786618	15787575	1	p12
ENSG00000245680	-0.7056	-1.6308	2.72E-09	1.44E-08	ZNF585B	zinc finger   protein_co	19	37181579	37218153	-1	q13.12
ENSG00000044090	-0.7062	-1.6315	3.27E-12	2.22E-11	CUL7	cullin 7 [So protein_co	6	43037617	43053945	-1	p21.1
ENSG00000162688	-0.7065	-1.6318	4.88E-10	2.75E-09	AGL	amylo-alph protein_co	1	99850084	99924023	1	p21.2
ENSG00000066777	-0.7065	-1.6319	3.80E-19	4.58E-18	ARFGEF1	ADP-ribosy protein_co	8	67173512	67343677	-1	q13.2
ENSG00000184402	-0.7067	-1.632	2.41E-10	1.40E-09	SS18L1	synovial sai protein_co	20	62143795	62182484	1	q13.33
ENSG00000099219	-0.7068	-1.6322	5.28E-09	2.72E-08	ERMP1	endoplasm protein_co	9	5765076	5833117	-1	p24.1
ENSG00000140718	-0.7073	-1.6328	3.24E-07	1.41E-06	FTO	fat mass an protein_co	16	53703963	54121941	1	q12.2
ENSG00000131584	-0.7074	-1.6328	7.31E-06	2.75E-05	ACAP3	ArfGAP wit protein_co	1	1292376	1309609	-1	p36.33
ENSG00000169914	-0.7076	-1.633	1.26E-06	5.18E-06	OTUD3	OTU deubic protein_co	1	19882513	19912945	1	p36.13

ENSG00000204084	-0.7078	-1.6333	0.0001	0.0004	INPP5B	inositol pol protein_co	1	37860697	37947057	-1	p34.3
ENSG00000237172	-0.7085	-1.6341	7.63E-07	3.21E-06	B3GNT9	UDP-GlcNA protein_co	16	67148105	67151214	-1	q22.1
ENSG00000163435	-0.7093	-1.635	5.55E-07	2.36E-06	ELF3	E74-like fac protein_co	1	2.02E+08	2.02E+08	1	q32.1
ENSG00000078369	-0.7098	-1.6356	6.36E-08	2.97E-07	GNB1	guanine nu protein_co	1	1785285	1891117	-1	p36.33
ENSG00000106723	-0.7104	-1.6363	1.12E-10	6.67E-10	SPIN1	spindlin 1 [ protein_co	9	88388419	88478694	1	q22.1
ENSG00000103966	-0.7106	-1.6365	3.79E-09	1.98E-08	EHD4	EH-domain protein_co	15	41895939	41972578	-1	q15.1
ENSG00000138760	-0.7108	-1.6368	6.05E-06	2.30E-05	SCARB2	scavenger protein_co	4	76158737	76213893	-1	q21.1
ENSG00000100239	-0.7113	-1.6373	5.68E-14	4.46E-13	PPP6R2	protein pho protein_co	22	50343304	50445090	1	q13.33
ENSG00000102804	-0.7116	-1.6376	5.48E-08	2.58E-07	TSC22D1	TSC22 dom protein_co	13	44432143	44577147	-1	q14.11
ENSG00000183955	-0.7122	-1.6383	5.78E-10	3.24E-09	SETD8	SET domair protein_co	12	1.23E+08	1.23E+08	1	q24.31
ENSG00000101079	-0.7127	-1.6388	2.03E-10	1.18E-09	NDRG3	NDRG fami protein_co	20	36651766	36746078	-1	q11.23
ENSG00000187091	-0.7126	-1.6388	1.26E-06	5.19E-06	PLCD1	phospholip protein_co	3	38007496	38029762	-1	p22.2
ENSG00000179023	-0.713	-1.6392	0.0015	0.0041	KLHDC7A	kelch doma protein_co	1	18480982	18486126	1	p36.13
ENSG00000146477	-0.7131	-1.6393	0.0217	0.0476	SLC22A3	solute carri protein_co	6	1.6E+08	1.6E+08	1	q25.3
ENSG00000155729	-0.7132	-1.6394	2.72E-05	9.56E-05	KCTD18	potassium protein_co	2	2E+08	2.01E+08	-1	q33.1
ENSG00000153443	-0.7134	-1.6396	1.21E-05	4.44E-05	UBALD1	UBA-like dc protein_co	16	4608883	4615027	-1	p13.3
ENSG00000122390	-0.7134	-1.6397	9.27E-07	3.87E-06	NAA60	N(alpha)-ac protein_co	16	3443611	3486963	1	p13.3
ENSG00000090372	-0.7137	-1.64	3.55E-21	5.10E-20	STRN4	striatin, cal protein_co	19	46719507	46746994	-1	q13.32
ENSG00000116954	-0.7138	-1.6401	0.0007	0.002	RRAGC	Ras-related protein_co	1	38838198	38859823	-1	p34.3
ENSG00000168256	-0.7139	-1.6403	6.18E-08	2.90E-07	NKIRAS2	NFKB inhib protein_co	17	42011382	42025644	1	q21.2
ENSG00000100578	-0.7143	-1.6406	1.53E-05	5.54E-05	KIAA0586	KIAA0586 [ protein_co	14	58427385	58551289	1	q23.1
ENSG00000176692	-0.7143	-1.6407	0.0161	0.0364	FOXC2	forkhead b protein_co	16	86567251	86569728	1	q24.1
ENSG00000152785	-0.7148	-1.6412	0.0024	0.0063	BMP3	bone morp protein_co	4	81030965	81057531	1	q21.21
ENSG00000105699	-0.7149	-1.6414	8.74E-08	4.02E-07	LSR	lipolysis sti protein_co	19	35248330	35267964	1	q13.12
ENSG00000144115	-0.715	-1.6414	0.0005	0.0015	THNSL2	threonine s protein_co	2	88170295	88186636	1	p11.2
ENSG00000204209	-0.715	-1.6415	2.88E-10	1.65E-09	DAXX	death-dom protein_co	6	33318558	33329269	-1	p21.32
ENSG00000185252	-0.7153	-1.6419	4.21E-05	0.0001	ZNF74	zinc finger   protein_co	22	20394115	20408461	1	q11.21
ENSG00000100796	-0.7154	-1.642	2.28E-19	2.79E-18	SMEK1	SMEK homi protein_co	14	91457611	91510554	-1	q32.12
ENSG00000135924	-0.7155	-1.642	1.08E-11	7.03E-11	DNAJB2	DnaJ (Hsp4 protein_co	2	2.19E+08	2.19E+08	1	q35
ENSG00000237854	-0.7156	-1.6421	0.0006	0.0016	LINC00674	long interg transcribed	17	68101908	68115518	1	q24.2
ENSG00000105926	-0.7155	-1.6421	0.0051	0.0128	MPP6	membrane protein_co	7	24573268	24694193	1	p15.3
ENSG00000179889	-0.7158	-1.6424	4.86E-09	2.51E-08	PDXDC1	pyridoxal-d protein_co	16	14974591	15139339	1	p13.11
ENSG00000160218	-0.7159	-1.6425	2.12E-12	1.46E-11	TRAPPC10	trafficking   protein_co	21	44012319	44106552	1	q22.3
ENSG00000106484	-0.7159	-1.6425	0.0035	0.009	MEST	mesoderm protein_co	7	1.3E+08	1.31E+08	1	q32.2
ENSG00000156017	-0.7162	-1.6429	5.20E-06	1.99E-05	C9orf41	chromoson protein_co	9	74981020	75028423	-1	q21.13
ENSG00000124571	-0.7165	-1.6432	5.41E-13	3.93E-12	XPO5	exportin 5   protein_co	6	43522330	43576075	-1	p21.1
ENSG00000106348	-0.7166	-1.6433	9.92E-06	3.68E-05	IMPDH1	IMP (inosin protein_co	7	1.28E+08	1.28E+08	-1	q32.1
ENSG00000145214	-0.7167	-1.6434	9.23E-07	3.86E-06	DGKQ	diacylglyce protein_co	4	958885	986895	-1	p16.3
ENSG00000135473	-0.7177	-1.6445	1.00E-06	4.16E-06	PAN2	PAN2 poly( protein_co	12	56316223	56334053	-1	q13.3
ENSG00000162924	-0.7178	-1.6447	8.34E-06	3.12E-05	REL	v-rel avian protein_co	2	60881521	60931610	1	p16.1
ENSG00000125388	-0.7181	-1.645	0.0018	0.0048	GRK4	G protein-c protein_co	4	2963608	3040747	1	p16.3

ENSG00000065413	-0.7199	-1.6471	0.0011	0.003	ANKRD44	ankyrin rep protein_co	2	1.97E+08	1.97E+08	-1	q33.1
ENSG00000075407	-0.72	-1.6472	7.10E-08	3.30E-07	ZNF37A	zinc finger   protein_co	10	38094336	38125544	1	p11.1
ENSG00000130119	-0.7204	-1.6477	1.76E-06	7.11E-06	GNL3L	guanine nu protein_co X		54530211	54561071	1	p11.22
ENSG00000244509	-0.7207	-1.648	1.72E-11	1.10E-10	APOBEC3C	apolipopro protein_co	22	39014083	39020352	1	q13.1
ENSG00000127334	-0.7209	-1.6482	3.26E-11	2.04E-10	DYRK2	dual-specif protein_co	12	67648338	67665406	1	q15
ENSG00000093000	-0.7209	-1.6482	8.27E-10	4.57E-09	NUP50	nucleoporin protein_co	22	45163841	45188015	1	q13.31
ENSG00000067057	-0.7213	-1.6487	0.0001	0.0004	PFKP	phosphofru protein_co	10	3066333	3137712	1	p15.2
ENSG00000100731	-0.722	-1.6495	3.86E-09	2.01E-08	PCNX	pecanex hc protein_co	14	70907405	71115382	1	q24.2
ENSG00000179943	-0.7223	-1.6498	6.08E-06	2.31E-05	FIZ1	FLT3-intera protein_co	19	55591371	55601970	-1	q13.42
ENSG00000176463	-0.723	-1.6506	4.68E-05	0.0002	SLCO3A1	solute carri protein_co	15	91853695	92172435	1	q26.1
ENSG00000054611	-0.7233	-1.651	1.49E-10	8.82E-10	TBC1D22A	TBC1 doma protein_co	22	46762617	47175699	1	q13.31
ENSG00000178188	-0.7237	-1.6514	1.97E-09	1.06E-08	SH2B1	SH2B adapi protein_co	16	28846600	28874212	1	p11.2
ENSG00000130640	-0.7237	-1.6515	0.0003	0.001	TUBGCP2	tubulin, gar protein_co	10	1.33E+08	1.33E+08	-1	q26.3
ENSG00000182700	-0.7239	-1.6516	2.02E-05	7.22E-05	IGIP	IgA-inducin protein_co	5	1.4E+08	1.4E+08	1	q31.3
ENSG00000072954	-0.724	-1.6517	5.20E-07	2.22E-06	TMEM38A	transmemt protein_co	19	16661127	16690029	1	p13.11
ENSG00000078902	-0.7242	-1.652	1.48E-07	6.70E-07	TOLLIP	toll interaci protein_co	11	1274371	1309654	-1	p15.5
ENSG00000225830	-0.7244	-1.6522	5.85E-12	3.89E-11	ERCC6	excision rej protein_co	10	49455368	49539538	-1	q11.23
ENSG00000205269	-0.7247	-1.6526	0.0213	0.0468	TMEM170B	transmemt protein_co	6	11538278	11583524	1	p24.2
ENSG00000187257	-0.725	-1.6529	2.44E-11	1.54E-10	RSBN1L	round sper protein_co	7	77696443	77783022	1	q11.23
ENSG00000119953	-0.7251	-1.653	4.42E-11	2.73E-10	SMNDC1	survival mc protein_co	10	1.1E+08	1.1E+08	-1	q25.2
ENSG00000162896	-0.7253	-1.6532	0.0003	0.001	PIGR	polymeric i protein_co	1	2.07E+08	2.07E+08	-1	q32.1
ENSG00000265763	-0.7255	-1.6534	0.0177	0.0395	ZNF488	zinc finger   protein_co	10	47365496	47384273	-1	q11.22
ENSG00000142166	-0.7256	-1.6536	8.28E-15	6.96E-14	IFNAR1	interferon   protein_co	21	33324477	33359862	1	q22.11
ENSG00000141448	-0.7257	-1.6537	0.0001	0.0004	GATA6	GATA bindi protein_co	18	22169443	22202528	1	q11.2
ENSG00000139722	-0.7258	-1.6538	1.08E-09	5.90E-09	VPS37B	vacuolar pr protein_co	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000270504	-0.726	-1.6541	0.003	0.0078	RP11-420L9.5	antisense	6	3751111	3753871	1	p25.2
ENSG00000103064	-0.7261	-1.6542	3.04E-06	1.20E-05	SLC7A6	solute carri protein_co	16	68264516	68301823	1	q22.1
ENSG00000204160	-0.7262	-1.6543	2.68E-08	1.29E-07	ZDHHC18	zinc finger, protein_co	1	26826710	26857602	1	p36.11
ENSG00000146918	-0.7262	-1.6543	0.0072	0.0176	NCAPG2	non-SMC c1 protein_co	7	1.59E+08	1.59E+08	-1	q36.3
ENSG00000169239	-0.7263	-1.6544	0.0088	0.021	CA5B	carbonic ar protein_co X		15688830	15787624	1	p22.2
ENSG00000169564	-0.7264	-1.6545	1.74E-17	1.83E-16	PCBP1	poly(rC) bir protein_co	2	70087454	70089203	1	p13.3
ENSG00000126016	-0.7264	-1.6545	0.0001	0.0005	AMOT	angiomotin protein_co X		1.13E+08	1.13E+08	-1	q23
ENSG00000187239	-0.7265	-1.6546	1.04E-08	5.18E-08	FNBP1	formin binc protein_co	9	1.3E+08	1.3E+08	-1	q34.11
ENSG00000182446	-0.7267	-1.6549	3.55E-09	1.86E-08	NPLOC4	nuclear prc protein_co	17	81556887	81648465	-1	q25.3
ENSG00000154380	-0.7267	-1.6549	3.95E-06	1.53E-05	ENAH	enabled ho protein_co	1	2.25E+08	2.26E+08	-1	q42.12
ENSG00000254087	-0.727	-1.6551	3.10E-10	1.77E-09	LYN	LYN proto-(r protein_co	8	55879813	56011381	1	q12.1
ENSG00000091136	-0.727	-1.6552	0.0096	0.0228	LAMB1	laminin, be protein_co	7	1.08E+08	1.08E+08	-1	q31.1
ENSG00000147689	-0.7278	-1.6561	2.56E-05	9.04E-05	FAM83A	family with protein_co	8	1.23E+08	1.23E+08	1	q24.13
ENSG00000100441	-0.7287	-1.6571	1.98E-16	1.92E-15	KHNYN	KH and NYI protein_co	14	24429286	24441834	1	q12
ENSG00000129194	-0.7288	-1.6573	0.0042	0.0106	SOX15	SRY (sex de protein_co	17	7588178	7590170	-1	p13.1
ENSG00000116580	-0.7289	-1.6574	8.25E-09	4.16E-08	GON4L	gon-4-like ( protein_co	1	1.56E+08	1.56E+08	-1	q22



ENSG00000149418	-0.7294	-1.658	4.22E-10	2.40E-09	ST14	suppression protein_co	11	1.3E+08	1.3E+08	1	q24.3
ENSG00000051009	-0.7297	-1.6583	4.51E-10	2.55E-09	FAM160A2	family with protein_co	11	6211335	6234711	-1	p15.4
ENSG00000242086	-0.73	-1.6587	0.0001	0.0004	LINC00969	long intergenicRNA	3	1.96E+08	1.96E+08	1	q29
ENSG00000164054	-0.7306	-1.6594	5.05E-07	2.16E-06	SHISA5	shisa family protein_co	3	48467798	48504826	-1	p21.31
ENSG00000091129	-0.7311	-1.6599	0.0168	0.0377	NRCAM	neuronal cell protein_co	7	1.08E+08	1.08E+08	-1	q31.1
ENSG00000250479	-0.7314	-1.6602	0.0017	0.0047	CHCHD10	coiled-coil protein_co	22	23765834	23768443	-1	q11.23
ENSG00000169733	-0.7318	-1.6607	0.001	0.0029	RFNG	RFNG O-fuc protein_co	17	82047902	82051831	-1	q25.3
ENSG00000117676	-0.732	-1.6609	2.09E-06	8.40E-06	RPS6KA1	ribosomal protein_co	1	26529761	26575030	1	p36.11
ENSG00000161533	-0.7322	-1.6611	1.69E-09	9.09E-09	ACOX1	acyl-CoA oxidase protein_co	17	75941507	75979363	-1	q25.1
ENSG00000159733	-0.7325	-1.6615	0.0003	0.0008	ZFYVE28	zinc finger, protein_co	4	2269582	2418663	-1	p16.3
ENSG00000164181	-0.7325	-1.6616	0.0125	0.029	ELOVL7	ELOVL fatty protein_co	5	60751791	60844389	-1	q12.1
ENSG00000125875	-0.7327	-1.6617	6.56E-26	1.44E-24	TBC1D20	TBC1 domain protein_co	20	435480	462553	-1	p13
ENSG00000090975	-0.7336	-1.6627	0.0006	0.0018	PITPNM2	phosphatidyl protein_co	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000134324	-0.7342	-1.6634	7.19E-05	0.0002	LPIN1	lipin 1 [Source] protein_co	2	11677595	11827409	1	p25.1
ENSG00000171940	-0.7342	-1.6635	2.91E-15	2.53E-14	ZNF217	zinc finger protein_co	20	53567065	53609907	-1	q13.2
ENSG00000124201	-0.7344	-1.6637	2.29E-07	1.01E-06	ZNF1	zinc finger, protein_co	20	49237946	49278426	-1	q13.13
ENSG00000145882	-0.7346	-1.664	9.15E-06	3.40E-05	PCYOX1L	prenylcysteine protein_co	5	1.49E+08	1.49E+08	1	q32
ENSG00000145916	-0.7348	-1.6641	1.77E-07	7.93E-07	RMND5B	required for protein_co	5	1.78E+08	1.78E+08	1	q35.3
ENSG00000143669	-0.7349	-1.6643	4.68E-10	2.64E-09	LYST	lysosomal transmembrane protein_co	1	2.36E+08	2.36E+08	-1	q42.3
ENSG00000177119	-0.735	-1.6644	6.83E-08	3.18E-07	ANO6	anoctamin protein_co	12	45215987	45440404	1	q12
ENSG00000134775	-0.735	-1.6644	0.0206	0.0454	FHOD3	formin homologous protein_co	18	36297714	36780055	1	q12.2
ENSG00000119682	-0.7354	-1.6648	1.93E-11	1.23E-10	AREL1	apoptosis regulator protein_co	14	74653437	74713115	-1	q24.3
ENSG00000243811	-0.7353	-1.6648	0.0158	0.0356	APOBEC3D	apolipoprotein protein_co	22	39014363	39033276	1	q13.1
ENSG00000095203	-0.7356	-1.6651	0.0014	0.0038	EPB41L4B	erythrocyte protein_co	9	1.09E+08	1.09E+08	-1	q31.3
ENSG00000164402	-0.7357	-1.6652	3.17E-08	1.52E-07	08-Sep	septin 8 [Sc] protein_co	5	1.33E+08	1.33E+08	-1	q31.1
ENSG00000237296	-0.7357	-1.6652	0.012	0.0279	SMG1P1	SMG1 pseudotranscribed	16	22437008	22492220	1	p12.2
ENSG00000125818	-0.7359	-1.6654	2.77E-12	1.90E-11	PSMF1	proteasome protein_co	20	1113263	1189415	1	p13
ENSG00000165424	-0.7368	-1.6664	0.0013	0.0036	ZCCHC24	zinc finger, protein_co	10	79382325	79445627	-1	q22.3
ENSG00000231365	-0.7368	-1.6665	9.92E-06	3.68E-05	RP11-418J17.1	antisense	1	1.19E+08	1.19E+08	1	p12
ENSG00000186866	-0.7375	-1.6673	5.30E-07	2.26E-06	POFUT2	protein O-fucosyltransferase protein_co	21	45263928	45287898	-1	q22.3
ENSG00000100271	-0.7377	-1.6675	0.0007	0.0019	TTL1	tubulin tyrosine protein_co	22	43039644	43089428	-1	q13.2
ENSG00000022556	-0.7377	-1.6676	8.40E-06	3.14E-05	NLRP2	NLR family, protein_co	19	54953130	55001142	1	q13.42
ENSG00000100320	-0.7379	-1.6677	9.85E-12	6.41E-11	RBFOX2	RNA binding protein_co	22	35738736	36028425	-1	q12.3
ENSG00000149582	-0.7381	-1.668	0.0004	0.0011	TMEM25	transmembrane protein_co	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000168159	-0.7382	-1.6681	3.66E-10	2.09E-09	RNF187	ring finger protein_co	1	2.28E+08	2.28E+08	1	q42.13
ENSG00000100030	-0.7383	-1.6682	4.70E-28	1.25E-26	MAPK1	mitogen-activated protein_co	22	21754500	21867680	-1	q11.22
ENSG00000130024	-0.7383	-1.6682	1.26E-11	8.13E-11	PHF10	PHD finger protein_co	6	1.7E+08	1.7E+08	-1	q27
ENSG00000267317	-0.7389	-1.6689	0.0071	0.0172	CTB-25B13.12	antisense	19	1457670	1458580	-1	p13.3
ENSG00000136997	-0.7392	-1.6692	1.42E-05	5.18E-05	MYC	v-myc avian protein_co	8	1.28E+08	1.28E+08	1	q24.21
ENSG00000138166	-0.7394	-1.6695	0.0005	0.0014	DUSP5	dual specificity protein_co	10	1.1E+08	1.11E+08	1	q25.2
ENSG00000100321	-0.7404	-1.6706	1.09E-06	4.50E-06	SYNGR1	synaptogyrin protein_co	22	39349925	39385588	1	q13.1



ENSG00000151773	-0.7406	-1.6708	0.0023	0.006	CCDC122	coiled-coil (protein_co	13	43823909	43879727	-1	q14.11
ENSG00000083635	-0.7407	-1.671	8.38E-05	0.0003	NUFIP1	nuclear frag protein_co	13	44939249	44989483	-1	q14.12
ENSG00000260267	-0.7408	-1.6711	0.0003	0.0008	RP11-452L6.5	antisense	16	31456711	31459736	-1	p11.2
ENSG00000104936	-0.7416	-1.672	6.66E-05	0.0002	DMPK	dystrophia protein_co	19	45769717	45782552	-1	q13.32
ENSG00000108439	-0.7416	-1.6721	1.96E-09	1.05E-08	PNPO	pyridoxami protein_co	17	47941506	47948288	1	q21.32
ENSG00000188315	-0.7418	-1.6722	3.44E-06	1.35E-05	C3orf62	chromoson protein_co	3	49268602	49277909	-1	p21.31
ENSG00000132561	-0.7418	-1.6723	0.0003	0.001	MATN2	matrilin 2 (protein_co	8	97868840	98036716	1	q22.1
ENSG00000156599	-0.742	-1.6725	1.02E-11	6.60E-11	ZDHHCS	zinc finger, protein_co	11	57667747	57701187	1	q12.1
ENSG00000213516	-0.7421	-1.6726	4.97E-08	2.34E-07	RBMXL1	RNA bindin protein_co	1	88979456	88992960	-1	p22.2
ENSG00000131381	-0.7422	-1.6727	1.23E-12	8.69E-12	ZFYVE20	zinc finger, protein_co	3	15070073	15099163	-1	p25.1
ENSG00000146433	-0.7425	-1.6731	7.56E-14	5.89E-13	TMEM181	transmemt protein_co	6	1.59E+08	1.59E+08	1	q25.3
ENSG00000136504	-0.7439	-1.6747	2.33E-08	1.13E-07	KAT7	K(lysine) ac protein_co	17	49788555	49835030	1	q21.33
ENSG00000143379	-0.7441	-1.6749	7.54E-12	4.96E-11	SETDB1	SET domair protein_co	1	1.51E+08	1.51E+08	1	q21.3
ENSG00000114698	-0.7441	-1.675	0.0027	0.0072	PLSCR4	phospholip protein_co	3	1.46E+08	1.46E+08	-1	q24
ENSG00000115486	-0.7446	-1.6755	8.07E-10	4.47E-09	GGCX	gamma-glu protein_co	2	85544723	85561547	-1	p11.2
ENSG00000041880	-0.7449	-1.6759	7.51E-06	2.82E-05	PARP3	poly (ADP-r protein_co	3	51942345	51948867	1	p21.2
ENSG00000173757	-0.7457	-1.6768	8.68E-10	4.78E-09	STAT5B	signal trans protein_co	17	42199168	42276707	-1	q21.2
ENSG00000116005	-0.7458	-1.6769	5.46E-10	3.06E-09	PCYOX1	prenylcyste protein_co	2	70257386	70281191	1	p13.3
ENSG00000100726	-0.7459	-1.677	8.57E-08	3.95E-07	TELO2	telomere r protein_co	16	1493344	1510457	1	p13.3
ENSG00000177106	-0.7465	-1.6777	6.50E-13	4.70E-12	EPS8L2	EPS8-like 2 protein_co	11	694438	727727	1	p15.5
ENSG00000113716	-0.7466	-1.6778	1.12E-12	7.92E-12	HMGXB3	HMG box d protein_co	5	1.5E+08	1.5E+08	1	q32
ENSG00000183655	-0.7466	-1.6778	1.12E-05	4.14E-05	KLHL25	kelch-like f protein_co	15	85759323	85795030	-1	q25.3
ENSG00000071575	-0.748	-1.6794	9.53E-06	3.54E-05	TRIB2	tribbles pse protein_co	2	12716889	12742734	1	q24.3
ENSG00000106479	-0.7484	-1.6799	2.29E-05	8.13E-05	ZNF862	zinc finger (protein_co	7	1.5E+08	1.5E+08	1	q36.1
ENSG00000107130	-0.7485	-1.68	0.0001	0.0004	NCS1	neuronal c protein_co	9	1.3E+08	1.3E+08	1	q34.11
ENSG00000189060	-0.7488	-1.6804	1.16E-07	5.31E-07	H1FO	H1 histone protein_co	22	37805093	37807436	1	q13.1
ENSG00000162817	-0.7491	-1.6807	0.0005	0.0014	C1orf115	chromoson protein_co	1	2.21E+08	2.21E+08	1	q41
ENSG00000091409	-0.7497	-1.6814	2.56E-05	9.04E-05	ITGA6	integrin, al protein_co	2	1.72E+08	1.73E+08	1	q31.1
ENSG00000112701	-0.7502	-1.682	9.74E-17	9.62E-16	SENP6	SUMO1/sei protein_co	6	75601509	75718278	1	q14.1
ENSG00000198435	-0.7505	-1.6824	5.94E-05	0.0002	NRARP	NOTCH-reg protein_co	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000075618	-0.7507	-1.6826	5.79E-05	0.0002	FSCN1	fascin actin protein_co	7	5592823	5606655	1	p22.1
ENSG00000006210	-0.7515	-1.6835	0.0036	0.0093	CX3CL1	chemokine protein_co	16	57372458	57385048	1	q21
ENSG00000102221	-0.7526	-1.6848	3.00E-09	1.58E-08	JADE3	jade family protein_co X		46912276	47061242	1	p11.3
ENSG00000073792	-0.7532	-1.6855	9.20E-09	4.62E-08	IGF2BP2	insulin-like protein_co	3	1.86E+08	1.86E+08	-1	q27.2
ENSG00000139835	-0.7532	-1.6855	0.0005	0.0015	GRTP1	growth hor protein_co	13	1.13E+08	1.13E+08	-1	q34
ENSG00000087269	-0.7534	-1.6858	8.35E-09	4.21E-08	NOP14	NOP14 nuc protein_co	4	2937933	2963385	-1	p16.3
ENSG00000106009	-0.7539	-1.6863	8.37E-07	3.51E-06	BRAT1	BRCA1-assc protein_co	7	2537877	2555727	-1	p22.3
ENSG00000250565	-0.7539	-1.6863	0.0018	0.0048	ATP6V1E2	ATPase, H+ protein_co	2	46490750	46542557	-1	p21
ENSG00000133884	-0.7542	-1.6866	3.03E-07	1.32E-06	DPF2	D4, zinc an protein_co	11	65333754	65353249	1	q13.1
ENSG00000167280	-0.7542	-1.6867	1.34E-05	4.88E-05	ENGASE	endo-beta- protein_co	17	79074939	79088599	1	q25.3
ENSG00000100399	-0.7544	-1.6869	0.0072	0.0175	CHADL	chondroad protein_co	22	41229510	41240934	-1	q13.2

ENSG00000184602	-0.7549	-1.6875	0.0004	0.0013	SNN	stannin [So protein_co	16	11668414	11679159	1	p13.13
ENSG00000154429	-0.7552	-1.6879	0.0003	0.0008	CCSAP	centriole, c protein_co	1	2.29E+08	2.29E+08	-1	q42.13
ENSG00000171853	-0.7553	-1.688	1.23E-09	6.69E-09	TRAPPC12	trafficking p protein_co	2	3379675	3485094	1	p25.3
ENSG00000162819	-0.7555	-1.6882	6.27E-13	4.54E-12	BROX	BRO1 dom; protein_co	1	2.23E+08	2.23E+08	1	q41
ENSG00000129473	-0.7556	-1.6883	2.19E-15	1.92E-14	BCL2L2	BCL2-like 2 protein_co	14	23298790	23311759	1	q11.2
ENSG00000155090	-0.7557	-1.6885	7.85E-09	3.97E-08	KLF10	Kruppel-like protein_co	8	1.03E+08	1.03E+08	-1	q22.3
ENSG00000155974	-0.7557	-1.6885	0.0001	0.0003	GRIP1	glutamate p protein_co	12	66347431	66804186	-1	q14.3
ENSG00000089280	-0.7559	-1.6887	1.15E-13	8.78E-13	FUS	FUS RNA bi protein_co	16	31180110	31194871	1	p11.2
ENSG00000121903	-0.7562	-1.689	3.25E-05	0.0001	ZSCAN20	zinc finger p protein_co	1	33472645	33496507	1	p35.1
ENSG00000148331	-0.7566	-1.6895	0.0003	0.001	ASB6	ankyrin repprotein_co	9	1.3E+08	1.3E+08	-1	q34.11
ENSG00000133247	-0.7569	-1.6899	0.0061	0.0152	SUV420H2	suppressor protein_co	19	55339853	55348120	1	q13.42
ENSG00000104413	-0.7573	-1.6903	6.24E-18	6.77E-17	ESRP1	epithelial sp protein_co	8	94641074	94707466	1	q22.1
ENSG00000074590	-0.7573	-1.6903	0.0007	0.002	NUAK1	NUAK famii protein_co	12	1.06E+08	1.06E+08	-1	q23.3
ENSG00000115756	-0.7575	-1.6906	3.67E-05	0.0001	HPCAL1	hippocalcin protein_co	2	10302889	10427617	1	p25.1
ENSG00000013364	-0.7577	-1.6908	1.90E-11	1.21E-10	MVP	major vault protein_co	16	29820394	29848039	1	p11.2
ENSG00000131504	-0.7579	-1.6911	1.91E-13	1.44E-12	DIAPH1	diaphanous protein_co	5	1.42E+08	1.42E+08	-1	q31.3
ENSG00000144843	-0.7585	-1.6918	0.0001	0.0005	ADPRH	ADP-ribosy protein_co	3	1.2E+08	1.2E+08	1	q13.33
ENSG00000167695	-0.7587	-1.6919	4.10E-06	1.59E-05	FAM57A	family with protein_co	17	732412	742972	1	p13.3
ENSG00000166387	-0.7589	-1.6922	0.0003	0.001	PPFIBP2	PTPRF inter protein_co	11	7513298	7657127	1	p15.4
ENSG00000102753	-0.7592	-1.6925	2.46E-05	8.70E-05	KPNA3	karyopherin protein_co	13	49699307	49792921	-1	q14.2
ENSG00000135597	-0.7594	-1.6928	3.27E-10	1.87E-09	REPS1	RALBP1 ass protein_co	6	1.39E+08	1.39E+08	-1	q24.1
ENSG00000140854	-0.76	-1.6935	0.0036	0.0092	KATNB1	katanin p8( protein_co	16	57735730	57757250	1	q21
ENSG00000139990	-0.7605	-1.6941	1.23E-10	7.32E-10	DCAF5	DDB1 and ( protein_co	14	69050881	69153150	-1	q24.1
ENSG00000166123	-0.7611	-1.6948	1.89E-07	8.46E-07	GPT2	glutamic py protein_co	16	46884378	46931297	1	q11.2
ENSG00000011376	-0.7612	-1.6949	1.34E-06	5.50E-06	LARS2	leucyl-tRNA( protein_co	3	45388506	45549421	1	p21.31
ENSG00000132670	-0.7617	-1.6954	4.30E-18	4.73E-17	PTPRA	protein tyri protein_co	20	2864184	3039076	1	p13
ENSG00000157600	-0.7617	-1.6955	2.31E-09	1.23E-08	TMEM164	transmemt protein_co X		1.1E+08	1.1E+08	1	q23
ENSG00000180448	-0.7618	-1.6956	0.0014	0.004	HMHA1	histocomp; protein_co	19	1065923	1086628	1	p13.3
ENSG00000175414	-0.7621	-1.696	4.12E-06	1.60E-05	ARL10	ADP-ribosy protein_co	5	1.76E+08	1.76E+08	1	q35.2
ENSG00000146842	-0.7625	-1.6965	1.11E-10	6.65E-10	TMEM209	transmemt protein_co	7	1.3E+08	1.3E+08	-1	q32.2
ENSG00000163171	-0.7627	-1.6966	0.0005	0.0016	CDC42EP3	CDC42 effe protein_co	2	37641882	37738468	-1	p22.2
ENSG00000036257	-0.7628	-1.6968	2.36E-20	3.14E-19	CUL3	cullin 3 [So protein_co	2	2.24E+08	2.25E+08	-1	q36.2
ENSG00000105289	-0.7632	-1.6972	1.32E-06	5.39E-06	TJP3	tight juncti protein_co	19	3708109	3750813	1	p13.3
ENSG00000111321	-0.7632	-1.6972	0.0001	0.0004	LTBR	lymphotoxi protein_co	12	6375045	6391571	1	p13.31
ENSG00000163428	-0.7636	-1.6977	1.19E-11	7.67E-11	LRRC58	leucine rich protein_co	3	1.2E+08	1.2E+08	-1	q13.33
ENSG00000166444	-0.7638	-1.6979	1.48E-15	1.31E-14	ST5	suppressioi protein_co	11	8693351	8910951	-1	p15.4
ENSG00000006756	-0.7638	-1.698	5.67E-08	2.67E-07	ARSD	arylsulfatas protein_co X		2903970	2929351	-1	p22.33
ENSG00000183751	-0.7641	-1.6983	3.03E-11	1.89E-10	TBL3	transducin protein_co	16	1972037	1982933	1	p13.3
ENSG00000141644	-0.7641	-1.6983	7.94E-10	4.40E-09	MBD1	methyl-Cp( protein_co	18	50266882	50281774	-1	q21.1
ENSG00000167693	-0.7641	-1.6983	3.99E-05	0.0001	NXN	nucleoredc protein_co	17	799313	979770	-1	p13.3
ENSG00000088280	-0.7647	-1.699	5.26E-05	0.0002	ASAP3	ArfGAP wit protein_co	1	23428563	23484568	-1	p36.12

ENSG0000043143	-0.7652	-1.6996	3.79E-06	1.48E-05	JADE2	jade family protein_co	5	1.35E+08	1.35E+08	1	q31.1
ENSG0000061987	-0.7653	-1.6997	5.58E-17	5.61E-16	MON2	MON2 hom protein_co	12	62466817	62600479	1	q14.1
ENSG00000132388	-0.7653	-1.6997	1.10E-12	7.76E-12	UBE2G1	ubiquitin-c1 protein_co	17	4269259	4366628	-1	p13.2
ENSG00000146904	-0.7653	-1.6998	1.61E-07	7.24E-07	EPHA1	EPH recept protein_co	7	1.43E+08	1.43E+08	-1	q35
ENSG00000129595	-0.7656	-1.7001	1.92E-19	2.36E-18	EPB41L4A	erythrocyte protein_co	5	1.12E+08	1.12E+08	-1	q22.2
ENSG00000105559	-0.7659	-1.7004	0.0014	0.0039	PLEKHA4	pleckstrin f protein_co	19	48837097	48868632	-1	q13.33
ENSG00000168792	-0.7665	-1.7012	7.82E-08	3.62E-07	ABHD15	abhydrolas protein_co	17	29560547	29567137	-1	q11.2
ENSG00000119242	-0.7666	-1.7013	1.26E-06	5.19E-06	CCDC92	coiled-coil (protein_co	12	1.24E+08	1.24E+08	-1	q24.31
ENSG00000157350	-0.7671	-1.7019	0.0034	0.0087	ST3GAL2	ST3 beta-g: protein_co	16	70375978	70439237	-1	q22.1
ENSG00000134897	-0.7676	-1.7024	1.60E-09	8.67E-09	BIVM	basic, immu protein_co	13	1.03E+08	1.03E+08	1	q33.1
ENSG00000154803	-0.7677	-1.7025	4.34E-08	2.05E-07	FLCN	folliculin [S protein_co	17	17212212	17237188	-1	p11.2
ENSG00000109794	-0.7679	-1.7028	4.43E-05	0.0002	FAM149A	family with protein_co	4	1.86E+08	1.86E+08	1	q35.1
ENSG00000198722	-0.7687	-1.7037	1.05E-16	1.03E-15	UNC13B	unc-13 hom protein_co	9	35161992	35405338	1	p13.3
ENSG00000260804	-0.7695	-1.7046	1.42E-05	5.17E-05	PKI55	DKFZp434f lincRNA	2	2.16E+08	2.16E+08	1	q35
ENSG00000104331	-0.7697	-1.705	1.77E-06	7.17E-06	IMPAD1	inositol mo protein_co	8	56957933	56993844	-1	q12.1
ENSG00000176092	-0.7698	-1.705	0.0085	0.0204	AIM1L	absent in nr protein_co	1	26321859	26354130	-1	p36.11
ENSG00000165152	-0.7699	-1.7051	2.91E-07	1.27E-06	TMEM246	transmemt protein_co	9	1.01E+08	1.02E+08	-1	q31.1
ENSG00000198728	-0.7703	-1.7056	1.60E-10	9.45E-10	LDB1	LIM domai protein_co	10	1.02E+08	1.02E+08	-1	q24.32
ENSG00000175073	-0.7704	-1.7057	3.14E-17	3.22E-16	VCPIP1	valosin con protein_co	8	66628487	66667217	-1	q13.1
ENSG00000160953	-0.7704	-1.7057	2.64E-11	1.66E-10	MUM1	melanoma protein_co	19	1354711	1378431	1	p13.3
ENSG00000122557	-0.7705	-1.7059	2.42E-11	1.53E-10	HERPUD2	HERPUD fa protein_co	7	35632659	35695571	-1	p14.2
ENSG00000185522	-0.7707	-1.7061	0.0188	0.0417	LMNTD2	lamin tail d protein_co	11	554855	560779	-1	p15.5
ENSG00000127666	-0.7709	-1.7063	2.70E-05	9.51E-05	TICAM1	toll-like rec protein_co	19	4815932	4831704	-1	p13.3
ENSG00000142082	-0.7721	-1.7077	6.38E-06	2.42E-05	SIRT3	sirtuin 3 [Sc protein_co	11	215458	236931	-1	p15.5
ENSG00000070018	-0.7727	-1.7084	4.42E-09	2.29E-08	LRP6	low density protein_co	12	12116025	12267012	-1	p13.2
ENSG00000109756	-0.7735	-1.7094	6.48E-11	3.95E-10	RAPGEF2	Rap guanin protein_co	4	1.59E+08	1.59E+08	1	q32.1
ENSG00000163482	-0.7736	-1.7095	0.0062	0.0154	STK36	serine/thre protein_co	2	2.19E+08	2.19E+08	1	q35
ENSG00000182831	-0.7737	-1.7096	1.08E-10	6.44E-10	C16orf72	chromoson protein_co	16	9091648	9121640	1	p13.2
ENSG00000132294	-0.774	-1.71	9.60E-17	9.50E-16	EFR3A	EFR3 homo protein_co	8	1.32E+08	1.32E+08	1	q24.22
ENSG00000047346	-0.7744	-1.7104	2.10E-18	2.37E-17	FAM214A	family with protein_co	15	52581317	52709817	-1	q21.3
ENSG00000141965	-0.7749	-1.711	5.61E-09	2.88E-08	FEM1A	fem-1 hom protein_co	19	4791681	4801273	1	p13.3
ENSG00000182263	-0.775	-1.7112	0.0017	0.0046	FIGN	fidgetin [Sc protein_co	2	1.64E+08	1.64E+08	-1	q24.3
ENSG00000060069	-0.7751	-1.7114	1.61E-13	1.22E-12	CTDP1	CTD (carbo protein_co	18	79679801	79756623	1	q23
ENSG00000100813	-0.7753	-1.7115	3.28E-16	3.11E-15	ACIN1	apoptotic c protein_co	14	23058564	23095614	-1	q11.2
ENSG00000146414	-0.7753	-1.7115	1.19E-11	7.71E-11	SHPRH	SNF2 histor protein_co	6	1.46E+08	1.46E+08	-1	q24.3
ENSG00000122779	-0.7759	-1.7123	6.51E-12	4.30E-11	TRIM24	tripartite nr protein_co	7	1.38E+08	1.39E+08	1	q33
ENSG00000164190	-0.776	-1.7124	2.47E-18	2.77E-17	NIPBL	Nipped-B h protein_co	5	36876759	37066413	1	p13.2
ENSG00000139977	-0.7761	-1.7125	1.82E-11	1.16E-10	NAA30	N(alpha)-ac protein_co	14	57390544	57415917	1	q22.3
ENSG00000125850	-0.7764	-1.7128	0.0011	0.003	OVOL2	ovo-like zin protein_co	20	17956979	18059188	-1	p11.23
ENSG00000248098	-0.7763	-1.7128	0.0151	0.0343	BCKDHA	branched c protein_co	19	41397460	41431345	1	q13.2
ENSG00000135763	-0.7765	-1.7129	6.08E-07	2.58E-06	URB2	URB2 ribos protein_co	1	2.3E+08	2.3E+08	1	q42.13

ENSG00000139438	-0.7765	-1.713	0.0104	0.0244	FAM222A	family with protein_co	12	1.1E+08	1.1E+08	1	q24.11
ENSG00000163110	-0.7766	-1.7131	8.81E-16	8.02E-15	PDLIM5	PDZ and LIM protein_co	4	94451857	94668227	1	q22.3
ENSG00000115657	-0.7766	-1.7131	0.0166	0.0374	ABCB6	ATP-binding protein_co	2	2.19E+08	2.19E+08	-1	q35
ENSG00000103264	-0.7767	-1.7132	9.54E-07	3.97E-06	FBXO31	F-box protein_co	16	87326987	87392142	-1	q24.2
ENSG00000163082	-0.777	-1.7136	4.74E-13	3.46E-12	SGPP2	sphingosin protein_co	2	2.22E+08	2.23E+08	1	q36.1
ENSG00000169105	-0.7774	-1.714	8.33E-05	0.0003	CHST14	carbohydrate protein_co	15	40470998	40474571	1	q15.1
ENSG00000164091	-0.7775	-1.7141	9.85E-14	7.58E-13	WDR82	WD repeat protein_co	3	52254421	52288020	-1	p21.2
ENSG00000214078	-0.7776	-1.7143	6.13E-12	4.06E-11	CPNE1	copine I [Sc] protein_co	20	35626031	35664956	-1	q11.22
ENSG00000132819	-0.7778	-1.7145	2.41E-05	8.55E-05	RBM38	RNA binding protein_co	20	57391407	57409333	1	q13.31
ENSG00000204406	-0.7779	-1.7146	1.71E-10	1.00E-09	MBD5	methyl-CpG protein_co	2	1.48E+08	1.49E+08	1	q23.1
ENSG00000131626	-0.778	-1.7148	2.03E-10	1.18E-09	PPFIA1	protein tyrosine protein_co	11	70270700	70384403	1	q13.3
ENSG00000127415	-0.7786	-1.7154	0.0008	0.0022	IDUA	iduronidase protein_co	4	986997	1004506	1	p16.3
ENSG00000234912	-0.7785	-1.7154	0.0107	0.0252	SNHG20	small nucleolar processed_	17	77086716	77094990	1	q25.2
ENSG00000196396	-0.7789	-1.7158	2.04E-05	7.28E-05	PTPN1	protein tyrosine protein_co	20	50510321	50585241	1	q13.13
ENSG00000278996	-0.7791	-1.716	0.0078	0.0189	CH507-513H4.1	lincRNA	21	8197620	8227646	1	p11.2
ENSG00000270696	-0.7793	-1.7163	5.53E-07	2.36E-06	RP11-342K6.1	antisense	2	75660462	75662208	1	p12
ENSG00000148841	-0.7793	-1.7163	0.0005	0.0015	ITPRIP	inositol 1,4-bisphosphate_	10	1.04E+08	1.04E+08	-1	q25.1
ENSG00000157625	-0.7796	-1.7167	1.01E-12	7.16E-12	TAB3	TGF-beta signaling protein_co X		30827442	30975084	-1	p21.2
ENSG00000047249	-0.7801	-1.7172	1.83E-07	8.18E-07	ATP6V1H	ATPase, H+ transporting protein_co	8	53715557	53843558	-1	q11.23
ENSG00000177225	-0.7802	-1.7174	1.22E-12	8.57E-12	PDDC1	Parkinson disease protein_co	11	767220	777488	-1	p15.5
ENSG00000242588	-0.7806	-1.7178	0.0016	0.0043	RP11-274B21.1	transcribed	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000134508	-0.7807	-1.7179	9.79E-06	3.63E-05	CABLES1	Cdk5 and A protein_co	18	23134564	23260467	1	q11.2
ENSG00000212719	-0.7809	-1.7182	0.004	0.0103	C17orf51	chromosome protein_co	17	21524790	21574458	-1	p11.2
ENSG00000152242	-0.7814	-1.7188	6.52E-16	6.00E-15	C18orf25	chromosome protein_co	18	46173553	46266991	1	q21.1
ENSG00000078061	-0.782	-1.7196	6.30E-08	2.95E-07	ARAF	A-Raf proto-oncogene protein_co X		47561100	47571920	1	p11.3
ENSG00000176454	-0.7826	-1.7202	9.39E-13	6.68E-12	LPCAT4	lysophospholipase protein_co	15	34358618	34367278	-1	q14
ENSG00000160284	-0.7828	-1.7205	0.0052	0.0131	SPATC1L	spermatogenesis protein_co	21	46161148	46184476	-1	q22.3
ENSG00000121579	-0.783	-1.7207	6.47E-24	1.18E-22	NAA50	N(alpha)-acetylserine protein_co	3	1.14E+08	1.14E+08	-1	q13.31
ENSG00000142867	-0.7831	-1.7208	2.55E-11	1.61E-10	BCL10	B-cell CLL/lymphoma protein_co	1	85266248	85277090	-1	p22.3
ENSG00000182378	-0.7831	-1.7209	0.0056	0.0138	PLCXD1	phosphatidylinositol protein_co X		276322	303356	1	p22.33
ENSG00000189091	-0.7842	-1.7221	3.83E-09	2.00E-08	SF3B3	splicing factor protein_co	16	70523788	70577670	1	q22.1
ENSG00000130764	-0.7843	-1.7223	3.58E-19	4.33E-18	LRRC47	leucine-rich repeat protein_co	1	3778558	3796504	-1	p36.32
ENSG00000158769	-0.7843	-1.7223	8.89E-14	6.87E-13	F11R	F11 receptor protein_co	1	1.61E+08	1.61E+08	-1	q23.3
ENSG00000159399	-0.7847	-1.7227	0.0018	0.0049	HK2	hexokinase protein_co	2	74833981	74893359	1	p12
ENSG00000140450	-0.785	-1.7231	0.001	0.0028	ARRDC4	arrestin domain protein_co	15	97960698	97973838	1	q26.2
ENSG00000184897	-0.7858	-1.724	1.54E-08	7.60E-08	H1FX	H1 histone protein_co	3	1.29E+08	1.29E+08	-1	q21.3
ENSG00000198113	-0.7861	-1.7244	3.16E-10	1.81E-09	TOR4A	torsion family protein_co	9	1.37E+08	1.37E+08	1	q34.3
ENSG00000105855	-0.7862	-1.7245	3.02E-06	1.19E-05	ITGB8	integrin, beta protein_co	7	20330702	20415754	1	p21.1
ENSG00000057294	-0.7865	-1.7248	1.68E-10	9.84E-10	PKP2	plakophilin protein_co	12	32790745	32896840	-1	p11.21
ENSG00000121210	-0.7865	-1.7249	1.21E-06	4.97E-06	KIAA0922	KIAA0922 [transcript] protein_co	4	1.53E+08	1.54E+08	1	q31.3
ENSG00000004487	-0.7869	-1.7254	9.12E-11	5.49E-10	KDM1A	lysine (K)-specific demethylase protein_co	1	23019448	23083689	1	p36.12

ENSG00000075624	-0.788	-1.7266	8.77E-06	3.27E-05	ACTB	actin, beta protein_co	7	5527151	5563784	-1	p22.1
ENSG00000126217	-0.788	-1.7267	0.0091	0.0218	MCF2L	MCF.2 cell protein_co	13	1.13E+08	1.13E+08	1	q34
ENSG00000119777	-0.7883	-1.7271	3.56E-08	1.70E-07	TMEM214	transmemt protein_co	2	27032910	27041695	1	p23.3
ENSG00000262049	-0.7884	-1.7272	0.0215	0.0471	RP13-103211.7	antisense	17	81701324	81703300	-1	q25.3
ENSG00000083838	-0.7885	-1.7273	0.0002	0.0006	ZNF446	zinc finger   protein_co	19	58474017	58481230	1	q13.43
ENSG00000181031	-0.7888	-1.7276	0.0017	0.0046	RPH3AL	rabphilin 3, protein_co	17	212389	386254	-1	p13.3
ENSG00000120915	-0.7889	-1.7278	0.0147	0.0334	EPHX2	epoxide hy protein_co	8	27490779	27545564	1	p21.2
ENSG00000113761	-0.789	-1.7279	9.34E-07	3.90E-06	ZNF346	zinc finger   protein_co	5	1.77E+08	1.77E+08	1	q35.2
ENSG00000119537	-0.7891	-1.728	3.04E-08	1.46E-07	KDSR	3-ketodihy protein_co	18	63327726	63367510	-1	q21.33
ENSG00000166845	-0.7894	-1.7284	0.0052	0.0129	C18orf54	chromoson protein_co	18	54357917	54385218	1	q21.2
ENSG00000175806	-0.7899	-1.7289	6.61E-07	2.80E-06	MSRA	methionine protein_co	8	10054268	10428891	1	p23.1
ENSG00000213918	-0.79	-1.729	1.86E-05	6.67E-05	DNASE1	deoxyribon protein_co	16	3611728	3680143	1	p13.3
ENSG00000198952	-0.7902	-1.7293	1.60E-11	1.02E-10	SMG5	SMG5 nons protein_co	1	1.56E+08	1.56E+08	-1	q22
ENSG00000181467	-0.7903	-1.7294	6.40E-05	0.0002	RAP2B	RAP2B, me protein_co	3	1.53E+08	1.53E+08	1	q25.2
ENSG00000186684	-0.7903	-1.7294	0.001	0.0028	CYP27C1	cytochrom protein_co	2	1.27E+08	1.27E+08	-1	q14.3
ENSG00000064607	-0.7904	-1.7295	1.17E-15	1.05E-14	SUGP2	SURP and C protein_co	19	18990888	19034023	-1	p13.11
ENSG00000139163	-0.7904	-1.7296	2.01E-09	1.08E-08	ETNK1	ethanolami protein_co	12	22625075	22690665	1	p12.1
ENSG00000280347	-0.7905	-1.7297	0.0006	0.0017	AC000123.2	TEC	7	1.27E+08	1.27E+08	-1	q31.33
ENSG00000080802	-0.7906	-1.7298	5.37E-10	3.01E-09	CNOT4	CCR4-NOT protein_co	7	1.35E+08	1.36E+08	-1	q33
ENSG00000156675	-0.7907	-1.7299	1.83E-10	1.07E-09	RAB11FIP1	RAB11 fam protein_co	8	37858618	37899467	-1	p11.23
ENSG00000144231	-0.7908	-1.7301	1.93E-07	8.59E-07	POLR2D	polymerase protein_co	2	1.28E+08	1.28E+08	-1	q14.3
ENSG00000162073	-0.7908	-1.7301	0.0031	0.0081	PAQR4	progestin a protein_co	16	2969245	2973489	1	p13.3
ENSG00000227640	-0.7915	-1.7309	1.66E-07	7.44E-07	SOX21-AS1	SOX21 anti lincRNA	13	94712716	94716246	1	q32.1
ENSG00000100625	-0.7917	-1.7312	3.37E-09	1.77E-08	SIX4	SIX homeol protein_co	14	60709528	60724348	-1	q23.1
ENSG00000186026	-0.7922	-1.7317	0.0194	0.043	ZNF284	zinc finger   protein_co	19	44072144	44089613	1	q13.31
ENSG00000087448	-0.7924	-1.7319	1.05E-12	7.46E-12	KLHL42	kelch-like f. protein_co	12	27780020	27803040	1	p11.22
ENSG00000074855	-0.7926	-1.7322	1.44E-06	5.87E-06	ANO8	anoctamin protein_co	19	17323223	17334829	-1	p13.11
ENSG00000259583	-0.7931	-1.7328	0.0229	0.0498	RP11-66B24.4	antisense	15	1.01E+08	1.01E+08	-1	q26.3
ENSG00000150471	-0.7939	-1.7337	0.0227	0.0496	LPHN3	latrophilin   protein_co	4	61201258	62078335	1	q13.1
ENSG00000164292	-0.7945	-1.7344	0.0026	0.0069	RHOBTB3	Rho-relater protein_co	5	95713522	95824383	1	q15
ENSG00000150867	-0.7949	-1.735	9.24E-06	3.44E-05	PIP4K2A	phosphatid protein_co	10	22534849	22714555	-1	p12.2
ENSG00000240849	-0.7952	-1.7353	4.68E-07	2.01E-06	TMEM189	transmemt protein_co	20	50118254	50153734	-1	q13.13
ENSG00000186432	-0.7952	-1.7354	3.26E-12	2.21E-11	KPNA4	karyopherii protein_co	3	1.6E+08	1.61E+08	-1	q25.33
ENSG00000112033	-0.7956	-1.7358	3.83E-08	1.83E-07	PPARD	peroxisome protein_co	6	35342558	35428191	1	p21.31
ENSG00000215421	-0.7958	-1.736	8.74E-16	7.95E-15	ZNF407	zinc finger   protein_co	18	74597870	75065671	1	q22.3
ENSG00000131037	-0.7963	-1.7366	1.90E-12	1.31E-11	EPS8L1	EPS8-like 1 protein_co	19	55072020	55087923	1	q13.42
ENSG00000130402	-0.7967	-1.7372	9.26E-14	7.14E-13	ACTN4	actinin, alp protein_co	19	38647649	38731583	1	q13.2
ENSG00000070214	-0.7971	-1.7376	9.07E-17	9.01E-16	SLC44A1	solute carri protein_co	9	1.05E+08	1.05E+08	1	q31.1
ENSG00000127419	-0.7971	-1.7376	1.87E-07	8.37E-07	TMEM175	transmemt protein_co	4	932387	958656	1	p16.3
ENSG00000131061	-0.7971	-1.7376	0.0003	0.0009	ZNF341	zinc finger   protein_co	20	33731657	33792269	1	q11.22
ENSG00000271976	-0.7972	-1.7378	0.0003	0.001	RP11-884K10.7	antisense	3	53858994	53861576	-1	p21.1



ENSG00000214517	-0.7974	-1.7379	3.67E-12	2.48E-11	PPME1	protein phc protein_co	11	74171099	74254703	1	q13.4
ENSG00000104976	-0.7974	-1.7379	2.12E-05	7.58E-05	SNAPC2	small nucle protein_co	19	7920316	7923250	1	p13.2
ENSG00000149136	-0.7981	-1.7388	3.22E-06	1.26E-05	SSRP1	structure s protein_co	11	57325985	57335877	-1	q12.1
ENSG00000212670	-0.7982	-1.7389	0.0089	0.0213	RP11-56P23.1	sense_intrc	1	54104295	54106082	1	p32.3
ENSG00000278834	-0.7983	-1.739	0.0001	0.0005	RP11-458J1.1	antisense	17	40648300	40649718	1	q21.2
ENSG00000143674	-0.7983	-1.7391	0.0002	0.0005	MLK4	Mitogen-ac protein_co	1	2.33E+08	2.33E+08	1	q42.2
ENSG00000155792	-0.7984	-1.7392	0.0004	0.0013	DEPTOR	DEP domai protein_co	8	1.2E+08	1.2E+08	1	q24.12
ENSG00000082781	-0.7986	-1.7394	0.007	0.0171	ITGB5	integrin, be protein_co	3	1.25E+08	1.25E+08	-1	q21.2
ENSG00000176476	-0.799	-1.7399	0.0004	0.0013	CCDC101	coiled-coil protein_co	16	28553915	28591790	1	p11.2
ENSG00000088812	-0.7991	-1.74	4.70E-15	4.03E-14	ATRN	attractin [S protein_co	20	3471040	3651122	1	p13
ENSG00000259087	-0.7991	-1.74	0.0006	0.0016	RP11-356O9.2	lincRNA	14	37556158	37567095	-1	q21.1
ENSG00000147883	-0.7993	-1.7402	0.0085	0.0204	CDKN2B	cyclin-depe protein_co	9	22002903	22009363	-1	p21.3
ENSG00000144730	-0.7995	-1.7405	0.0001	0.0004	IL17RD	interleukin protein_co	3	57089982	57170306	-1	p14.3
ENSG00000184163	-0.7999	-1.741	0.0176	0.0395	FAM132A	family with protein_co	1	1242446	1246722	-1	p36.33
ENSG00000163249	-0.8014	-1.7429	4.87E-09	2.51E-08	CCNYL1	cyclin Y-like protein_co	2	2.08E+08	2.08E+08	1	q33.3
ENSG00000077312	-0.8028	-1.7445	1.10E-07	5.03E-07	SNRPA	small nucle protein_co	19	40750637	40765389	1	q13.2
ENSG00000186704	-0.8032	-1.745	0.0013	0.0037	DTX2P1	DTX2 pseu transcribed	7	76978617	77004308	1	q11.23
ENSG00000120314	-0.8036	-1.7455	6.34E-09	3.24E-08	WDR55	WD repeat protein_co	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000130985	-0.8038	-1.7457	4.50E-14	3.56E-13	UBA1	ubiquitin-lil protein_co X		47190861	47215128	1	p11.3
ENSG00000129667	-0.804	-1.746	0.0001	0.0004	RHBDF2	rhomboid 5 protein_co	17	76470891	76501790	-1	q25.1
ENSG00000137218	-0.8041	-1.7461	0.0169	0.0379	FRS3	fibroblast g protein_co	6	41770176	41786542	-1	p21.1
ENSG00000153814	-0.8052	-1.7474	0.0045	0.0114	JAZF1	JAZF zinc fi protein_co	7	27830573	28180743	-1	p15.1
ENSG00000166165	-0.8056	-1.7479	0.0218	0.0478	CKB	creatine kir protein_co	14	1.04E+08	1.04E+08	-1	q32.33
ENSG00000132466	-0.8057	-1.748	1.18E-18	1.36E-17	ANKRD17	ankyrin rep protein_co	4	73073376	73258798	-1	q13.3
ENSG00000226200	-0.8058	-1.7481	5.16E-05	0.0002	SGMS1-AS1	SGMS1 ant antisense	10	50624951	50641451	1	q11.23
ENSG00000140564	-0.806	-1.7484	5.05E-05	0.0002	FURIN	furin (paire protein_co	15	90868592	90883458	1	q26.1
ENSG00000127124	-0.8063	-1.7488	0.0002	0.0005	HIVEP3	human imm protein_co	1	41506365	42035925	-1	p34.2
ENSG00000125651	-0.8065	-1.7489	3.31E-11	2.06E-10	GTF2F1	general tra protein_co	19	6379569	6393981	-1	p13.3
ENSG00000080603	-0.8068	-1.7494	5.37E-15	4.57E-14	SRCAP	Snf2-relate protein_co	16	30698209	30745194	1	p11.2
ENSG00000139746	-0.8071	-1.7497	1.57E-13	1.18E-12	RBM26	RNA bindin protein_co	13	79311824	79406477	-1	q31.1
ENSG00000134398	-0.8073	-1.7499	2.85E-06	1.13E-05	ERN2	endoplasm protein_co	16	23690326	23713500	-1	p12.2
ENSG00000170271	-0.8074	-1.75	0.0094	0.0223	FAXDC2	fatty acid h protein_co	5	1.55E+08	1.55E+08	-1	q33.2
ENSG00000229186	-0.8078	-1.7505	0.0223	0.0486	ADAM1A	ADAM met unitary_pse	12	1.12E+08	1.12E+08	1	q24.12
ENSG00000126107	-0.8082	-1.751	5.74E-08	2.70E-07	HECTD3	HECT domε protein_co	1	45002540	45011329	-1	p34.1
ENSG00000140691	-0.8082	-1.751	0.0002	0.0006	ARMC5	armadillo r protein_co	16	31458080	31467166	1	p11.2
ENSG00000206418	-0.8082	-1.7511	6.51E-08	3.04E-07	RAB12	RAB12, me protein_co	18	8609445	8639381	1	p11.22
ENSG00000136720	-0.8086	-1.7515	4.94E-08	2.33E-07	HS6ST1	heparan su protein_co	2	1.28E+08	1.28E+08	-1	q14.3
ENSG00000165914	-0.8088	-1.7518	0.008	0.0192	TTC7B	tetratricop protein_co	14	90524564	90816479	-1	q32.11
ENSG00000087008	-0.809	-1.752	8.96E-08	4.12E-07	ACOX3	acyl-CoA ox protein_co	4	8366282	8440723	-1	p16.1
ENSG00000132155	-0.8094	-1.7525	5.55E-12	3.70E-11	RAF1	Raf-1 protc protein_co	3	12583601	12664226	-1	p25.2
ENSG00000107758	-0.8097	-1.7528	2.06E-12	1.42E-11	PPP3CB	protein phc protein_co	10	73436428	73496024	-1	q22.2



ENSG00000185033	-0.8099	-1.7531	6.66E-09	3.40E-08	SEMA4B	sema domain protein_co	15	90160604	90229679	1	q26.1
ENSG00000185591	-0.81	-1.7532	7.54E-14	5.87E-13	SP1	Sp1 transcr protein_co	12	53380176	53416446	1	q13.13
ENSG00000169756	-0.8101	-1.7534	1.46E-07	6.58E-07	LIMS1	LIM and sei protein_co	2	1.09E+08	1.09E+08	1	q12.3
ENSG00000160410	-0.8103	-1.7535	1.38E-07	6.25E-07	SHKBP1	SH3KBP1 b protein_co	19	40576851	40591399	1	q13.2
ENSG00000180543	-0.8103	-1.7536	0.0018	0.0049	TSPYL5	TSPY-like 5 protein_co	8	97273474	97277964	-1	q22.1
ENSG00000185963	-0.8106	-1.754	6.31E-12	4.17E-11	BICD2	bicaudal D protein_co	9	92711363	92764812	-1	q22.31
ENSG00000162402	-0.8109	-1.7543	1.54E-21	2.30E-20	USP24	ubiquitin s protein_co	1	55066359	55215113	-1	p32.3
ENSG00000116039	-0.811	-1.7544	0.0014	0.0038	ATP6V1B1	ATPase, H+ protein_co	2	70935882	70965406	1	p13.3
ENSG00000130147	-0.8116	-1.7552	1.79E-11	1.14E-10	SH3BP4	SH3-domain protein_co	2	2.35E+08	2.35E+08	1	q37.2
ENSG00000176842	-0.8118	-1.7553	6.35E-10	3.54E-09	IRX5	iroquois ho protein_co	16	54930862	54934485	1	q12.2
ENSG00000105223	-0.8126	-1.7564	1.07E-11	6.93E-11	PLD3	phospholip protein_co	19	40348456	40380439	1	q13.2
ENSG00000167535	-0.8128	-1.7566	1.63E-05	5.88E-05	CACNB3	calcium ch protein_co	12	48813794	48828941	1	q13.12
ENSG00000182606	-0.8132	-1.7571	2.21E-15	1.94E-14	TRAK1	trafficking p protein_co	3	42013802	42225889	1	p22.1
ENSG00000111319	-0.8137	-1.7577	8.36E-07	3.51E-06	SCNN1A	sodium ch protein_co	12	6346843	6377730	-1	p13.31
ENSG00000122863	-0.8137	-1.7577	0.0005	0.0016	CHST3	carbohydr protein_co	10	71964365	72013564	1	q22.1
ENSG00000109323	-0.814	-1.7581	1.19E-07	5.44E-07	MANBA	mannosid protein_co	4	1.03E+08	1.03E+08	-1	q24
ENSG00000162695	-0.8142	-1.7584	3.77E-06	1.47E-05	SLC30A7	solute carri protein_co	1	1.01E+08	1.01E+08	1	p21.2
ENSG00000163788	-0.8146	-1.7588	7.31E-10	4.06E-09	SNRK	SNF relatec protein_co	3	43286512	43424764	1	p22.1
ENSG00000272142	-0.8148	-1.759	0.0194	0.0429	RP11-428J1.5	lincRNA	6	5029972	5043449	1	p25.1
ENSG00000157184	-0.8148	-1.7591	6.46E-11	3.94E-10	CPT2	carnitine p protein_co	1	53196429	53214197	1	p32.3
ENSG00000160404	-0.8152	-1.7596	1.78E-08	8.76E-08	TOR2A	torsin famil protein_co	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000106246	-0.8165	-1.7612	0.0002	0.0007	PTCD1	pentatricop protein_co	7	99416739	99466163	-1	q22.1
ENSG00000143157	-0.817	-1.7617	1.33E-10	7.88E-10	POGK	pogo trans protein_co	1	1.67E+08	1.67E+08	1	q24.1
ENSG00000163629	-0.8169	-1.7617	0.0001	0.0004	PTPN13	protein tyr protein_co	4	86594315	86815171	1	q21.3
ENSG00000197872	-0.8171	-1.7619	0.0006	0.0017	FAM49A	family with protein_co	2	16549459	16666331	-1	p24.2
ENSG00000100412	-0.8176	-1.7625	4.90E-10	2.76E-09	ACO2	aconitase 2 protein_co	22	41469125	41528989	1	q13.2
ENSG00000184743	-0.8185	-1.7636	7.83E-13	5.61E-12	ATL3	atlastin GTI protein_co	11	63624087	63671921	-1	q13.1
ENSG00000003249	-0.8185	-1.7636	1.55E-05	5.61E-05	DBNDD1	dysbindin ( protein_co	16	90004865	90020128	-1	q24.3
ENSG00000269044	-0.8186	-1.7637	0.0002	0.0005	CTC-429P9.3	sense_intrc	19	16633797	16635269	-1	p13.11
ENSG00000108883	-0.8195	-1.7648	6.26E-13	4.53E-12	EFTUD2	elongation protein_co	17	44849943	44899662	-1	q21.31
ENSG00000276900	-0.8197	-1.765	0.0137	0.0314	RP11-467L13.7	antisense	12	31729117	31731204	1	p11.21
ENSG00000116199	-0.8201	-1.7655	3.20E-15	2.77E-14	FAM20B	family with protein_co	1	1.79E+08	1.79E+08	1	q25.2
ENSG00000143217	-0.8201	-1.7655	6.23E-12	4.13E-11	PVRL4	poliovirus r protein_co	1	1.61E+08	1.61E+08	-1	q23.3
ENSG00000101544	-0.8204	-1.7659	2.57E-13	1.92E-12	ADNP2	ADNP hom protein_co	18	80109031	80147523	1	q23
ENSG00000128607	-0.8206	-1.7661	1.99E-21	2.94E-20	KLHDC10	kelch dom protein_co	7	1.3E+08	1.3E+08	1	q32.2
ENSG00000169155	-0.8206	-1.7662	2.96E-13	2.19E-12	ZBTB43	zinc finger ; protein_co	9	1.27E+08	1.27E+08	1	q33.3
ENSG00000100242	-0.8207	-1.7663	4.74E-13	3.46E-12	SUN2	Sad1 and U protein_co	22	38734725	38794143	-1	q13.1
ENSG0000026508	-0.8208	-1.7664	0.0016	0.0045	CD44	CD44 mole protein_co	11	35138870	35232402	1	p13
ENSG00000204946	-0.8209	-1.7666	5.65E-06	2.16E-05	ZNF783	zinc finger ; protein_co	7	1.49E+08	1.49E+08	1	q36.1
ENSG00000165861	-0.8215	-1.7672	2.30E-12	1.58E-11	ZFYVE1	zinc finger, protein_co	14	72969451	73027212	-1	q24.2
ENSG00000078043	-0.8216	-1.7674	4.24E-11	2.62E-10	PIAS2	protein inh protein_co	18	46808390	46920160	-1	q21.1

ENSG0000099994	-0.8217	-1.7674	0.0172	0.0385	SUSD2	sushi domain protein_co	22	24181259	24189110	1	q11.23
ENSG00000254838	-0.8219	-1.7677	0.0103	0.0243	GVINP1	GTPase, ve transcribed	11	6713536	6746439	-1	p15.4
ENSG0000048740	-0.8222	-1.7681	0.005	0.0125	CELF2	CUGBP, Ela protein_co	10	11005296	11336675	1	p14
ENSG00000216775	-0.8222	-1.7681	0.0101	0.0238	RP1-152L7.5	transcribed	6	52665148	52669155	1	p12.2
ENSG00000140265	-0.8223	-1.7682	4.48E-17	4.55E-16	ZSCAN29	zinc finger   protein_co	15	43358172	43371025	-1	q15.3
ENSG00000169435	-0.8225	-1.7684	3.53E-07	1.53E-06	RASSF6	Ras associated protein_co	4	73571550	73620631	-1	q13.3
ENSG00000119906	-0.8225	-1.7685	6.60E-14	5.16E-13	FAM178A	family with protein_co	10	1.01E+08	1.01E+08	1	q24.31
ENSG00000198089	-0.8228	-1.7688	0.0002	0.0006	SFI1	Sfi1 homolog protein_co	22	31488688	31618586	1	q12.2
ENSG00000110422	-0.8229	-1.7689	5.31E-12	3.55E-11	HIPK3	homeodomain protein_co	11	33256672	33357023	1	p13
ENSG00000111700	-0.8228	-1.7689	0.0212	0.0466	SLCO1B3	solute carrier protein_co	12	20810702	20916911	1	p12.2
ENSG00000196440	-0.8233	-1.7695	3.17E-05	0.0001	ARMCX4	armadillo repeat protein_co X		1.01E+08	1.02E+08	1	q22.1
ENSG00000234449	-0.8235	-1.7696	0.0064	0.0158	RP11-706O15.3	lincRNA X		3853010	3882317	-1	p22.33
ENSG00000141699	-0.8238	-1.7701	7.99E-13	5.72E-12	FAM134C	family with protein_co	17	42579513	42610623	-1	q21.2
ENSG00000188735	-0.8239	-1.7702	1.60E-05	5.79E-05	TMEM120B	transmembrane protein_co	12	1.22E+08	1.22E+08	1	q24.31
ENSG00000157764	-0.824	-1.7704	1.94E-13	1.45E-12	BRAF	B-Raf proto-oncogene protein_co	7	1.41E+08	1.41E+08	-1	q34
ENSG00000112365	-0.8253	-1.7719	2.91E-09	1.54E-08	ZBTB24	zinc finger   protein_co	6	1.09E+08	1.09E+08	-1	q21
ENSG00000087301	-0.8253	-1.7719	2.64E-05	9.30E-05	TXNDC16	thioredoxin protein_co	14	52430590	52552522	-1	q22.1
ENSG00000172197	-0.8254	-1.7721	1.20E-07	5.46E-07	MBOAT1	membrane protein_co	6	20102145	20212399	-1	q22.3
ENSG00000100258	-0.8258	-1.7725	3.29E-09	1.73E-08	LMF2	lipase matric protein_co	22	50502949	50507691	-1	q13.33
ENSG00000198909	-0.8258	-1.7725	1.13E-08	5.66E-08	MAP3K3	mitogen-activated protein_co	17	63622415	63696303	1	q23.3
ENSG00000196586	-0.8259	-1.7726	3.07E-26	6.92E-25	MYO6	myosin VI [ protein_co	6	75749192	75919537	1	q14.1
ENSG00000157450	-0.826	-1.7727	6.51E-24	1.18E-22	RNF111	ring finger   protein_co	15	58865175	59097419	1	q22.1
ENSG00000125637	-0.8263	-1.7731	1.94E-11	1.23E-10	PSD4	pleckstrin domain protein_co	2	1.13E+08	1.13E+08	1	q14.1
ENSG00000159720	-0.8262	-1.7731	1.27E-08	6.29E-08	ATP6V0D1	ATPase, H <sup>+</sup> protein_co	16	67438014	67481237	-1	q22.1
ENSG00000234602	-0.8278	-1.775	0.0039	0.0099	MCIDAS	multiciliated protein_co	5	55219614	55227315	-1	q11.2
ENSG00000204351	-0.8281	-1.7753	8.11E-10	4.49E-09	SKIV2L	superkiller protein_co	6	31959080	31969755	1	p21.33
ENSG00000136044	-0.8281	-1.7754	0.001	0.0028	APPL2	adaptor protein protein_co	12	1.05E+08	1.05E+08	-1	q23.3
ENSG00000069399	-0.8283	-1.7756	5.04E-06	1.93E-05	BCL3	B-cell CLL/lymphoma protein_co	19	44747705	44760044	1	q13.32
ENSG00000125912	-0.829	-1.7764	5.07E-05	0.0002	NCLN	nicalin [Scl protein_co	19	3185563	3209575	1	p13.3
ENSG00000185730	-0.8293	-1.7769	5.64E-05	0.0002	ZNF696	zinc finger   protein_co	8	1.43E+08	1.43E+08	1	q24.3
ENSG00000124198	-0.8296	-1.7772	5.52E-26	1.22E-24	ARFGEF2	ADP-ribosylating protein_co	20	48921890	49036693	1	q13.13
ENSG00000141522	-0.8302	-1.7779	9.93E-09	4.98E-08	ARHGDI1A	Rho GDP dissociation protein_co	17	81867721	81871406	-1	q25.3
ENSG00000087460	-0.8304	-1.7781	3.92E-19	4.72E-18	GNAS	GNAS complex protein_co	20	58839718	58911192	1	q13.32
ENSG00000214717	-0.8305	-1.7783	1.87E-18	2.11E-17	ZBED1	zinc finger, protein_co X		2486414	2500967	-1	p22.33
ENSG00000175213	-0.8305	-1.7783	1.19E-05	4.35E-05	ZNF408	zinc finger   protein_co	11	46700818	46705912	1	p11.2
ENSG00000132570	-0.8312	-1.7791	3.61E-06	1.41E-05	PCBD2	pteridine-4 aldehyde protein_co	5	1.35E+08	1.35E+08	1	q31.1
ENSG00000104960	-0.8314	-1.7794	2.76E-15	2.41E-14	PTOV1	prostate tumor protein_co	19	49850735	49860744	1	q13.33
ENSG00000182087	-0.8315	-1.7795	1.46E-10	8.60E-10	TMEM259	transmembrane protein_co	19	1009648	1021179	-1	p13.3
ENSG00000170561	-0.8314	-1.7795	0.0005	0.0013	IRX2	iroquois homeobox protein_co	5	2745845	2751662	-1	p15.33
ENSG00000158636	-0.8319	-1.78	2.47E-09	1.31E-08	C11orf30	chromosome protein_co	11	76444923	76553025	1	q13.5
ENSG00000102225	-0.8325	-1.7808	2.40E-10	1.39E-09	CDK16	cyclin-dependent protein_co X		47217860	47229997	1	p11.3

ENSG00000159461	-0.8328	-1.7811	1.39E-11	8.96E-11	AMFR	autocrine nprotein_co	16	56361452	56425538	-1	q13
ENSG00000114999	-0.8328	-1.7811	1.40E-10	8.27E-10	TTL	tubulin tyrcprotein_co	2	1.12E+08	1.13E+08	1	q14.1
ENSG00000124067	-0.833	-1.7814	0.0007	0.0021	SLC12A4	solute carriprotein_co	16	67943474	67969601	-1	q22.1
ENSG00000007168	-0.8331	-1.7815	1.25E-26	2.95E-25	PAFAH1B1	platelet-actprotein_co	17	2593210	2685615	1	p13.3
ENSG00000187189	-0.8333	-1.7818	4.43E-08	2.10E-07	TSPYL4	TSPY-like 4 protein_co	6	1.16E+08	1.16E+08	-1	q22.1
ENSG00000136383	-0.8335	-1.782	0.0009	0.0026	ALPK3	alpha-kinasprotein_co	15	84816680	84873482	1	q25.3
ENSG00000089060	-0.8338	-1.7823	9.03E-09	4.54E-08	SLC8B1	solute carriprotein_co	12	1.13E+08	1.13E+08	-1	q24.13
ENSG00000167306	-0.834	-1.7826	9.35E-13	6.66E-12	MYO5B	myosin VB protein_co	18	49822813	50195093	-1	q21.1
ENSG00000108799	-0.8348	-1.7836	3.98E-11	2.47E-10	EZH1	enhancer oprotein_co	17	42700275	42745049	-1	q21.2
ENSG0000010818	-0.8351	-1.784	3.11E-11	1.94E-10	HIVEP2	human immnprotein_co	6	1.43E+08	1.43E+08	-1	q24.2
ENSG00000138032	-0.8353	-1.7842	5.06E-14	3.99E-13	PPM1B	protein phcprotein_co	2	44167969	44244384	1	p21
ENSG00000196781	-0.8358	-1.7848	1.23E-06	5.04E-06	TLE1	transducin-protein_co	9	81583683	81689305	-1	q21.32
ENSG00000257702	-0.8359	-1.785	0.0108	0.0253	LBX2-AS1	LBX2 antisense	2	74502595	74504678	1	p13.1
ENSG00000068383	-0.8361	-1.7852	1.86E-08	9.12E-08	INPP5A	inositol pol protein_co	10	1.33E+08	1.33E+08	1	q26.3
ENSG00000145103	-0.8365	-1.7857	1.94E-07	8.63E-07	ILDR1	immunoglcp protein_co	3	1.22E+08	1.22E+08	-1	q13.33
ENSG00000270194	-0.8367	-1.7859	0.0058	0.0144	RP11-259K5.2	antisense	3	37241789	37244177	-1	p22.1
ENSG00000102780	-0.837	-1.7863	1.14E-13	8.78E-13	DGKH	diacylglyce protein_co	13	42040036	42256578	1	q14.11
ENSG00000225138	-0.8375	-1.7869	0.0003	0.001	CTD-2228K2.7	processed_	5	473236	480884	1	p15.33
ENSG00000184009	-0.8384	-1.7881	5.34E-08	2.52E-07	ACTG1	actin, gamr protein_co	17	81509971	81523847	-1	q25.3
ENSG00000272398	-0.8385	-1.7882	1.59E-05	5.78E-05	CD24	CD24 mole protein_co	6	1.07E+08	1.07E+08	-1	q21
ENSG00000180787	-0.8385	-1.7882	0.0026	0.0068	ZFP3	ZFP3 zinc fi protein_co	17	5078248	5096374	1	p13.2
ENSG00000104866	-0.8386	-1.7883	5.74E-13	4.17E-12	PPP1R37	protein phcprotein_co	19	45091396	45148077	1	q13.32
ENSG00000275464	-0.8386	-1.7883	0.0018	0.0048	CH507-9B2.5	protein_co	21	5130871	5154734	-1	p12
ENSG00000186416	-0.8393	-1.7891	3.11E-08	1.49E-07	NKRF	NFKB repre protein_co X		1.2E+08	1.2E+08	-1	q24
ENSG00000158966	-0.8395	-1.7895	3.78E-06	1.47E-05	CACHD1	cache dom protein_co	1	64470792	64693058	1	p31.3
ENSG00000074356	-0.8397	-1.7896	2.41E-10	1.40E-09	C17orf85	chromoson protein_co	17	3811523	3846251	-1	p13.2
ENSG00000076716	-0.8397	-1.7897	0.0012	0.0033	GPC4	glypican 4 [protein_co X		1.33E+08	1.33E+08	-1	q26.2
ENSG00000124766	-0.8399	-1.7899	2.07E-09	1.10E-08	SOX4	SRY (sex de protein_co	6	21592769	21598619	1	p22.3
ENSG00000158352	-0.8404	-1.7906	2.98E-10	1.71E-09	SHROOM4	shroom far protein_co X		50591647	50814302	-1	p11.22
ENSG00000168528	-0.8406	-1.7908	0.0003	0.0008	SERINC2	serine inco protein_co	1	31409565	31434680	1	p35.2
ENSG00000173575	-0.8418	-1.7923	1.04E-18	1.20E-17	CHD2	chromodor protein_co	15	92900321	93028003	1	q26.1
ENSG00000140400	-0.842	-1.7925	2.40E-10	1.39E-09	MAN2C1	mannosida protein_co	15	75355207	75368630	-1	q24.2
ENSG00000258738	-0.8421	-1.7927	0.0013	0.0035	RP11-73E17.2	antisense	14	34874343	34876459	1	q13.2
ENSG00000162415	-0.8426	-1.7933	0.0075	0.0182	ZSWIM5	zinc finger, protein_co	1	45016399	45306209	-1	p34.1
ENSG00000141068	-0.8431	-1.7939	0.0002	0.0005	KSR1	kinase suppr protein_co	17	27456714	27626438	1	q11.2
ENSG00000185236	-0.8435	-1.7944	5.66E-12	3.77E-11	RAB11B	RAB11B, m protein_co	19	8389981	8404434	1	p13.2
ENSG00000101152	-0.8442	-1.7953	5.21E-16	4.84E-15	DNAJC5	DnaJ (Hsp4 protein_co	20	63895182	63936031	1	q13.33
ENSG00000198496	-0.8443	-1.7954	0.0005	0.0016	NBR2	neighbor o transcribed	17	43125610	43153671	1	q21.31
ENSG00000101337	-0.8444	-1.7955	7.01E-14	5.46E-13	TM9SF4	transmemt protein_co	20	32109506	32167258	1	q11.21
ENSG00000169184	-0.8449	-1.7961	0.0147	0.0335	MN1	meningiom protein_co	22	27748277	27801498	-1	q12.1
ENSG00000066117	-0.8462	-1.7977	2.95E-09	1.56E-08	SMARCD1	SWI/SNF re protein_co	12	50084972	50100712	1	q13.12

ENSG00000135953	-0.8467	-1.7984	1.35E-07	6.13E-07	MFSD9	major facili protein_co	2	1.03E+08	1.03E+08	-1	q12.1
ENSG00000070759	-0.8469	-1.7986	0.0005	0.0014	TESK2	testis-speci protein_co	1	45343883	45491166	-1	p34.1
ENSG00000105438	-0.8474	-1.7993	9.74E-12	6.35E-11	KDELR1	KDEL (Lys- <i>A</i> protein_co	19	48382570	48391553	-1	q13.33
ENSG00000154001	-0.8478	-1.7997	1.97E-16	1.90E-15	PPP2R5E	protein phc protein_co	14	63371357	63543374	-1	q23.2
ENSG00000204536	-0.848	-1.8	0.0088	0.0211	CCHCR1	coiled-coil ; protein_co	6	31142439	31158238	-1	p21.33
ENSG00000198689	-0.8481	-1.8001	3.51E-10	2.00E-09	SLC9A6	solute carri protein_co X		1.36E+08	1.36E+08	1	q26.3
ENSG00000160803	-0.8482	-1.8002	9.57E-14	7.37E-13	UBQLN4	ubiquilin 4 protein_co	1	1.56E+08	1.56E+08	-1	q22
ENSG00000181220	-0.8482	-1.8002	1.20E-09	6.56E-09	ZNF746	zinc finger protein_co	7	1.49E+08	1.49E+08	-1	q36.1
ENSG00000179222	-0.8482	-1.8003	2.62E-07	1.15E-06	MAGED1	melanoma protein_co X		51803007	51902357	1	p11.22
ENSG00000234072	-0.8482	-1.8003	0.0013	0.0036	AC074117.10	antisense	2	27356246	27367622	1	p23.3
ENSG00000278600	-0.8483	-1.8004	0.0021	0.0055	RP11-81A1.6	sense_intrc	15	79920195	79922455	-1	q25.1
ENSG00000168395	-0.8486	-1.8008	2.91E-08	1.40E-07	ING5	inhibitor of protein_co	2	2.42E+08	2.42E+08	1	q37.3
ENSG00000091009	-0.8487	-1.8009	4.72E-10	2.66E-09	RBM27	RNA bindin protein_co	5	1.46E+08	1.46E+08	1	q32
ENSG00000168675	-0.8487	-1.8009	0.0195	0.0431	LDLRAD4	low density protein_co	18	13217498	13652755	1	p11.21
ENSG00000168297	-0.8499	-1.8024	3.03E-07	1.32E-06	PXK	PX domain protein_co	3	58332880	58426126	1	p14.3
ENSG00000146834	-0.8505	-1.8032	5.96E-09	3.05E-08	MEPCE	methylpho: protein_co	7	1E+08	1E+08	1	q22.1
ENSG00000157404	-0.8508	-1.8035	0.01	0.0236	KIT	v-kit Hardy protein_co	4	54657918	54740715	1	q12
ENSG00000125434	-0.851	-1.8038	0.0002	0.0007	SLC25A35	solute carri protein_co	17	8287763	8295343	-1	p13.1
ENSG00000185085	-0.8513	-1.8041	7.90E-10	4.38E-09	INTS5	integrator (protein_co	11	62646848	62653302	-1	q12.3
ENSG00000171130	-0.8517	-1.8047	1.57E-05	5.69E-05	ATP6V0E2	ATPase, H+ protein_co	7	1.5E+08	1.5E+08	1	q36.1
ENSG00000125266	-0.8522	-1.8052	6.50E-05	0.0002	EFNB2	ephrin-B2 [ protein_co	13	1.06E+08	1.07E+08	-1	q33.3
ENSG00000140199	-0.8524	-1.8055	6.07E-12	4.03E-11	SLC12A6	solute carri protein_co	15	34229996	34338060	-1	q14
ENSG00000179406	-0.8526	-1.8058	0.0012	0.0034	LINC00174	long interg: lincRNA	7	66376044	66401338	-1	q11.21
ENSG00000180104	-0.854	-1.8075	8.40E-11	5.09E-10	EXOC3	exocyst cor protein_co	5	443158	471937	1	p15.33
ENSG00000083444	-0.854	-1.8075	0.0002	0.0006	PLOD1	procollager protein_co	1	11934205	11975538	1	p36.22
ENSG00000095951	-0.8546	-1.8082	5.96E-09	3.05E-08	HIVEP1	human immn protein_co	6	12008762	12164999	1	p24.1
ENSG00000126870	-0.8547	-1.8084	0.0042	0.0107	WDR60	WD repeat protein_co	7	1.59E+08	1.59E+08	1	q36.3
ENSG00000090530	-0.8547	-1.8084	0.013	0.0299	LEPREL1	leprecan-lil protein_co	3	1.9E+08	1.9E+08	-1	q28
ENSG00000159140	-0.8548	-1.8086	2.14E-20	2.86E-19	SON	SON DNA b protein_co	21	33542618	33577481	1	q22.11
ENSG00000120868	-0.8555	-1.8094	3.07E-19	3.72E-18	APAF1	apoptotic ꞑ protein_co	12	98645141	98735433	1	q23.1
ENSG00000163602	-0.8555	-1.8094	1.41E-13	1.07E-12	RYBP	RING1 and protein_co	3	72371825	72446918	-1	p13
ENSG00000165868	-0.8556	-1.8095	0.0041	0.0105	HSPA12A	heat shock protein_co	10	1.17E+08	1.17E+08	-1	q25.3
ENSG00000154310	-0.8556	-1.8096	0.0066	0.0161	TNIK	TRAF2 and protein_co	3	1.71E+08	1.71E+08	-1	q26.31
ENSG00000215105	-0.8557	-1.8097	1.69E-05	6.11E-05	TTC3P1	tetratricop: processed_X		75740831	75746911	-1	q13.3
ENSG00000126070	-0.8559	-1.8099	4.64E-11	2.86E-10	AGO3	argonaute l protein_co	1	35930718	36072500	1	p34.3
ENSG00000068323	-0.8563	-1.8103	1.48E-07	6.67E-07	TFE3	transcriptic protein_co X		49028726	49043486	-1	p11.23
ENSG00000205710	-0.8562	-1.8103	0.0021	0.0056	C17orf107	chromoson protein_co	17	4899418	4902932	1	p13.2
ENSG00000177873	-0.8568	-1.811	1.32E-05	4.84E-05	ZNF619	zinc finger ꞑ protein_co	3	40477113	40490236	1	p22.1
ENSG00000233426	-0.8569	-1.8112	4.36E-05	0.0002	EIF3FP3	eukaryotic processed_	2	58251440	58252525	1	p16.1
ENSG00000006712	-0.8571	-1.8114	5.00E-14	3.95E-13	PAF1	Paf1, RNA ꞑ protein_co	19	39385852	39391195	-1	q13.2
ENSG00000132535	-0.8572	-1.8115	5.02E-08	2.37E-07	DLG4	discs, large protein_co	17	7189890	7219702	-1	p13.1

ENSG00000115353	-0.8577	-1.8122	0.0196	0.0432	TACR1	tachykinin   protein_co	2	75046463	75199700	-1	p12
ENSG00000167110	-0.8583	-1.8128	1.11E-12	7.85E-12	GOLGA2	golgin A2 [t protein_co	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000011114	-0.8585	-1.8131	8.08E-33	3.33E-31	BTBD7	BTB (POZ) ( protein_co	14	93237550	93333092	-1	q32.12
ENSG00000110721	-0.8585	-1.8131	1.61E-11	1.03E-10	CHKA	choline kin; protein_co	11	68052859	68121444	-1	q13.2
ENSG00000129347	-0.8589	-1.8136	4.47E-11	2.76E-10	KRI1	KRI1 homo protein_co	19	10553078	10566037	-1	p13.2
ENSG00000072858	-0.8591	-1.8139	6.18E-08	2.90E-07	SIDT1	SID1 transr protein_co	3	1.14E+08	1.14E+08	1	q13.2
ENSG00000001461	-0.8598	-1.8147	9.17E-11	5.52E-10	NIPAL3	NIPA-like d protein_co	1	24415794	24472976	1	p36.11
ENSG00000025800	-0.8603	-1.8155	4.17E-21	5.95E-20	KPNA6	karyopherin protein_co	1	32108038	32176568	1	p35.2
ENSG00000101384	-0.8603	-1.8155	6.49E-05	0.0002	JAG1	jagged 1 [S; protein_co	20	10637684	10674107	-1	p12.2
ENSG00000095321	-0.8606	-1.8157	4.95E-10	2.78E-09	CRAT	carnitine O protein_co	9	1.29E+08	1.29E+08	-1	q34.11
ENSG00000016082	-0.8606	-1.8157	0.002	0.0054	ISL1	ISL LIM hor protein_co	5	51383391	51394738	1	q11.1
ENSG00000120256	-0.8607	-1.8159	0.0002	0.0007	LRP11	low density protein_co	6	1.5E+08	1.5E+08	-1	q25.1
ENSG00000171522	-0.861	-1.8163	0.0005	0.0015	PTGER4	prostaglandin protein_co	5	40679498	40693735	1	p13.1
ENSG00000159267	-0.861	-1.8164	4.36E-17	4.43E-16	HLCS	holocarbox protein_co	21	36750888	36990236	-1	q22.13
ENSG00000144645	-0.8612	-1.8165	1.86E-10	1.08E-09	OSBPL10	oxysterol b protein_co	3	31657890	32077580	-1	p22.3
ENSG00000134575	-0.8612	-1.8165	2.20E-08	1.07E-07	ACP2	acid phospholipid protein_co	11	47239302	47248906	-1	p11.2
ENSG00000067606	-0.8613	-1.8166	1.77E-10	1.03E-09	PRKCZ	protein kin. protein_co	1	2050470	2185395	1	p36.33
ENSG00000145284	-0.8613	-1.8167	3.45E-05	0.0001	SCD5	stearoyl-Co protein_co	4	82629539	82798857	-1	q21.22
ENSG00000196943	-0.8615	-1.8169	4.77E-15	4.08E-14	NOP9	NOP9 nucle protein_co	14	24299862	24309124	-1	q12
ENSG00000271122	-0.8616	-1.817	1.18E-09	6.42E-09	RP11-379H18.1	antisense	7	35695214	35699413	1	p14.2
ENSG00000110108	-0.8619	-1.8174	3.65E-13	2.68E-12	TMEM109	transmembr protein_co	11	60913874	60923443	1	q12.2
ENSG00000116990	-0.862	-1.8175	0.0004	0.0013	MYCL	v-myc aviar protein_co	1	39895426	39902256	-1	p34.2
ENSG00000180902	-0.8623	-1.8179	3.56E-07	1.55E-06	D2HGDH	D-2-hydrox protein_co	2	2.42E+08	2.42E+08	1	q37.3
ENSG00000139433	-0.8626	-1.8183	3.59E-11	2.23E-10	GLTP	glycolipid tr protein_co	12	1.1E+08	1.1E+08	-1	q24.11
ENSG00000175164	-0.8628	-1.8185	0.0128	0.0295	ABO	ABO blood protein_co	9	1.33E+08	1.33E+08	-1	q34.2
ENSG00000149016	-0.8632	-1.8191	2.32E-05	8.25E-05	TUT1	terminal ur protein_co	11	62575045	62592177	-1	q12.3
ENSG00000129116	-0.8643	-1.8204	1.09E-06	4.52E-06	PALLD	palladin, cy protein_co	4	1.68E+08	1.69E+08	1	q32.3
ENSG00000189114	-0.8644	-1.8205	3.55E-07	1.54E-06	BLOC1S3	biogenesis protein_co	19	45178745	45181801	1	q13.32
ENSG00000167962	-0.8646	-1.8208	2.67E-15	2.33E-14	ZNF598	zinc finger   protein_co	16	1997654	2009823	-1	p13.3
ENSG00000117625	-0.865	-1.8214	4.53E-19	5.42E-18	RCOR3	REST corep protein_co	1	2.11E+08	2.11E+08	1	q32.2
ENSG00000248383	-0.8652	-1.8216	0.0042	0.0106	PCDHAC1	protocadher protein_co	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000009335	-0.8655	-1.8219	2.01E-14	1.64E-13	UBE3C	ubiquitin p; protein_co	7	1.57E+08	1.57E+08	1	q36.3
ENSG00000178401	-0.8658	-1.8223	0.0006	0.0017	DNAJC22	DnaJ (Hsp4 protein_co	12	49346917	49357546	1	q13.12
ENSG00000255310	-0.866	-1.8226	1.90E-06	7.67E-06	AF131215.2	sense_intrc	8	11107788	11109726	-1	p23.1
ENSG00000110583	-0.8664	-1.8231	1.30E-07	5.91E-07	NAA40	N(alpha)-ac protein_co	11	63938959	63957328	1	q13.1
ENSG00000007541	-0.8665	-1.8233	4.59E-11	2.84E-10	PIGQ	phosphatid protein_co	16	566995	584136	1	p13.3
ENSG00000213064	-0.8667	-1.8234	9.05E-16	8.20E-15	SFT2D2	SFT2 doma protein_co	1	1.68E+08	1.68E+08	1	q24.2
ENSG00000105229	-0.8668	-1.8237	1.95E-12	1.35E-11	PIAS4	protein inh protein_co	19	4007646	4039386	1	p13.3
ENSG00000082074	-0.8669	-1.8237	0.0027	0.0072	FYB	FYN bindin; protein_co	5	39105236	39274528	-1	p13.1
ENSG00000108819	-0.8671	-1.8239	8.05E-17	8.05E-16	PPP1R9B	protein phc protein_co	17	50133735	50150630	-1	q21.33
ENSG00000185900	-0.8671	-1.8239	2.43E-05	8.61E-05	POMK	protein-O-r protein_co	8	43093506	43123434	1	p11.21



ENSG00000165572	-0.8671	-1.824	7.88E-11	4.78E-10	KBTBD6	kelch repeat protein_co	13	41127569	41132746	-1	q14.11
ENSG00000128923	-0.8671	-1.8241	8.46E-11	5.11E-10	FAM63B	family with protein_co	15	58771192	58861900	1	q21.3
ENSG00000185278	-0.8679	-1.8251	7.41E-09	3.76E-08	ZBTB37	zinc finger protein_co	1	1.74E+08	1.74E+08	1	q25.1
ENSG00000114859	-0.8682	-1.8254	0.0006	0.0017	CLCN2	chloride channel protein_co	3	1.84E+08	1.84E+08	-1	q27.1
ENSG00000173456	-0.8683	-1.8255	1.86E-13	1.40E-12	RNF26	ring finger protein_co	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000123684	-0.8688	-1.8261	1.43E-15	1.27E-14	LPGAT1	lysophosphoprotein_co	1	2.12E+08	2.12E+08	-1	q32.3
ENSG00000096717	-0.8688	-1.8262	7.65E-08	3.54E-07	SIRT1	sirtuin 1 [Sirtuin] protein_co	10	67884669	67918390	1	q21.3
ENSG00000164086	-0.8689	-1.8263	1.28E-05	4.68E-05	DUSP7	dual specific phosphatase protein_co	3	52048919	52056550	-1	p21.2
ENSG00000120875	-0.8691	-1.8265	1.48E-05	5.39E-05	DUSP4	dual specific phosphatase protein_co	8	29333064	29350668	-1	p12
ENSG00000112561	-0.8691	-1.8265	7.57E-05	0.0003	TFEB	transcription factor protein_co	6	41683978	41736259	-1	p21.1
ENSG00000100811	-0.8694	-1.8269	7.89E-23	1.30E-21	YY1	YY1 transcription factor protein_co	14	1E+08	1E+08	1	q32.2
ENSG00000075391	-0.8695	-1.827	1.33E-07	6.01E-07	RASAL2	RAS protein activator protein_co	1	1.78E+08	1.78E+08	1	q25.2
ENSG00000116688	-0.8701	-1.8278	6.04E-16	5.57E-15	MFN2	mitofusin 2 protein_co	1	11980181	12013514	1	p36.22
ENSG00000151748	-0.8701	-1.8278	6.64E-16	6.10E-15	SAV1	salvador family protein_co	14	50632058	50668331	-1	q22.1
ENSG00000184678	-0.8704	-1.8281	6.27E-08	2.93E-07	HIST2H2BE	histone cluster protein_co	1	1.5E+08	1.5E+08	-1	q21.2
ENSG00000134138	-0.8708	-1.8286	1.82E-08	8.93E-08	MEIS2	Meis homeobox protein_co	15	36889204	37101299	-1	q14
ENSG00000148468	-0.8708	-1.8287	0.0008	0.0022	FAM171A1	family with protein_co	10	15211643	15371062	-1	p13
ENSG00000143258	-0.8709	-1.8288	4.30E-06	1.66E-05	USP21	ubiquitin specific protease protein_co	1	1.61E+08	1.61E+08	1	q23.3
ENSG0000016786	-0.8713	-1.8293	3.15E-09	1.66E-08	PLEKHM2	pleckstrin homology domain protein_co	1	15684332	15734769	1	p36.21
ENSG00000070159	-0.8721	-1.8303	1.65E-11	1.05E-10	PTPN3	protein tyrosine phosphatase protein_co	9	1.09E+08	1.09E+08	-1	q31.3
ENSG00000007866	-0.8722	-1.8305	1.08E-15	9.68E-15	TEAD3	TEA domain protein_co	6	35473597	35497076	-1	p21.31
ENSG00000166908	-0.8723	-1.8305	1.13E-07	5.15E-07	PIP4K2C	phosphatidylinositol 4-kinase protein_co	12	57591174	57603418	1	q13.3
ENSG00000173926	-0.8723	-1.8305	0.0003	0.0009	MARCH3	membrane associated protein_co	5	1.27E+08	1.27E+08	-1	q23.2
ENSG00000107796	-0.8724	-1.8307	6.95E-06	2.62E-05	ACTA2	actin, alpha protein_co	10	88935074	88991390	-1	q23.31
ENSG00000108773	-0.8725	-1.8308	1.31E-10	7.78E-10	KAT2A	K(lysine) acetyltransferase protein_co	17	42113108	42121358	-1	q21.2
ENSG00000108021	-0.8726	-1.831	2.06E-20	2.75E-19	FAM208B	family with protein_co	10	5684838	5763740	1	p15.1
ENSG00000044446	-0.873	-1.8315	5.57E-11	3.42E-10	PHKA2	phosphorylase protein_co X		18892300	18984598	-1	p22.13
ENSG00000148429	-0.8732	-1.8317	1.43E-16	1.39E-15	USP6NL	USP6 N-terminal protein_co	10	11453946	11611754	-1	p14
ENSG00000110844	-0.8735	-1.832	1.84E-08	9.02E-08	PRPF40B	PRP40 pre-mRNA splicing factor protein_co	12	49568218	49644666	1	q13.12
ENSG00000259959	-0.8739	-1.8326	0.005	0.0125	RP11-121C2.2	lincRNA	4	47840122	47844339	-1	p12
ENSG00000105732	-0.874	-1.8328	1.88E-07	8.42E-07	ZNF574	zinc finger protein_co	19	42068477	42081565	1	q13.2
ENSG00000160360	-0.8748	-1.8338	0.0003	0.0008	GPSM1	G-protein signaling protein_co	9	1.36E+08	1.36E+08	1	q34.3
ENSG00000131941	-0.8755	-1.8347	0.0001	0.0004	RHPN2	rhophilin, F protein_co	19	32978593	33064888	-1	q13.11
ENSG00000135637	-0.8758	-1.8351	1.72E-05	6.21E-05	CCDC142	coiled-coil domain protein_co	2	74471986	74483408	-1	p13.1
ENSG00000100596	-0.8759	-1.8352	6.76E-28	1.76E-26	SPTLC2	serine palmitoyltransferase protein_co	14	77505997	77616773	-1	q24.3
ENSG00000196865	-0.8765	-1.8359	7.15E-24	1.30E-22	NHLRC2	NHL repeat protein_co	10	1.14E+08	1.14E+08	1	q25.3
ENSG00000166435	-0.8765	-1.8359	1.93E-13	1.45E-12	XRRA1	X-ray crystallography protein_co	11	74807739	74949200	-1	q13.4
ENSG00000134109	-0.8766	-1.8361	0.0003	0.001	EDEM1	ER degradation protein_co	3	5187646	5219957	1	p26.1
ENSG00000133243	-0.8767	-1.8362	2.09E-15	1.84E-14	BTBD2	BTB (POZ) domain protein_co	19	1985438	2034881	-1	p13.3
ENSG00000111331	-0.8771	-1.8367	0.0003	0.0009	OAS3	2'-5'-oligoadenylate synthetase protein_co	12	1.13E+08	1.13E+08	1	q24.13
ENSG00000174514	-0.8775	-1.8371	0.0007	0.002	MFSD4	major facilitator protein_co	1	2.06E+08	2.06E+08	1	q32.1



ENSG00000138092	-0.8777	-1.8374	6.51E-08	3.04E-07	CENPO	centromere protein_co	2	24793136	24822376	1	p23.3
ENSG00000197702	-0.8778	-1.8376	1.02E-14	8.56E-14	PARVA	parvin, alpl protein_co	11	12377185	12530801	1	p15.3
ENSG00000196167	-0.878	-1.8378	5.34E-06	2.04E-05	COLCA1	colorectal antisense	11	1.11E+08	1.11E+08	-1	q23.1
ENSG00000274425	-0.8782	-1.8381	0.0052	0.013	AC114271.2	antisense	19	10333436	10336248	1	p13.2
ENSG00000106609	-0.879	-1.8391	4.06E-15	3.49E-14	TMEM248	transmembrane protein_co	7	66921225	66958551	1	q11.21
ENSG00000019582	-0.8795	-1.8397	1.86E-06	7.50E-06	CD74	CD74 molecule protein_co	5	1.5E+08	1.5E+08	-1	q33.1
ENSG00000111859	-0.88	-1.8404	0.0037	0.0094	NEDD9	neural precursor protein_co	6	11183298	11382348	-1	p24.2
ENSG00000176986	-0.8802	-1.8407	2.08E-10	1.21E-09	SEC24C	SEC24 family protein_co	10	73744384	73772161	1	q22.2
ENSG00000086015	-0.8804	-1.8409	4.75E-08	2.24E-07	MAST2	microtubule protein_co	1	45786987	46036124	1	p34.1
ENSG00000130787	-0.8807	-1.8412	3.24E-17	3.32E-16	HIP1R	huntingtin protein_co	12	1.23E+08	1.23E+08	1	q24.31
ENSG00000119403	-0.8807	-1.8413	0.0032	0.0082	PHF19	PHD finger protein_co	9	1.21E+08	1.21E+08	-1	q33.2
ENSG00000173611	-0.8815	-1.8423	1.67E-07	7.49E-07	SCAI	suppressor protein_co	9	1.25E+08	1.25E+08	-1	q33.3
ENSG00000131873	-0.8817	-1.8426	1.13E-06	4.67E-06	CHSY1	chondroitin protein_co	15	1.01E+08	1.01E+08	-1	q26.3
ENSG00000259319	-0.8817	-1.8426	0.0068	0.0167	RP11-293M10.6	antisense	14	75423683	75427741	-1	q24.3
ENSG00000197323	-0.8819	-1.8428	1.42E-23	2.52E-22	TRIM33	tripartite repeat protein_co	1	1.14E+08	1.15E+08	-1	p13.2
ENSG00000167861	-0.8819	-1.8428	5.22E-05	0.0002	HID1	HID1 domain protein_co	17	74950743	74973166	-1	q25.1
ENSG00000058091	-0.882	-1.8429	0.0048	0.0121	CDK14	cyclin-dependent protein_co	7	90466424	91210590	1	q21.13
ENSG00000124608	-0.8823	-1.8433	2.55E-12	1.74E-11	AARS2	alanyl-tRNA synthetase protein_co	6	44299654	44313326	-1	p21.1
ENSG00000164068	-0.8828	-1.844	3.80E-14	3.03E-13	RNF123	ring finger protein_co	3	49689499	49721529	1	p21.31
ENSG00000178184	-0.8828	-1.844	4.70E-11	2.90E-10	PARD6G	par-6 family protein_co	18	80157232	80247546	-1	q23
ENSG00000136802	-0.8829	-1.8441	2.27E-07	1.00E-06	LRRC8A	leucine rich protein_co	9	1.29E+08	1.29E+08	1	q34.11
ENSG00000107282	-0.883	-1.8441	0.0028	0.0074	APBA1	amyloid beta protein_co	9	69427530	69672306	-1	q21.12
ENSG00000065308	-0.8833	-1.8446	2.50E-05	8.85E-05	TRAM2	translocation protein_co	6	52497402	52576915	-1	p12.2
ENSG00000271721	-0.8835	-1.8448	0.0031	0.008	RP11-337C18.9	antisense	1	1.47E+08	1.47E+08	1	q21.1
ENSG00000121671	-0.8836	-1.845	1.13E-11	7.31E-11	CRY2	cryptochrome protein_co	11	45847118	45883248	1	p11.2
ENSG00000061273	-0.8837	-1.845	8.06E-08	3.72E-07	HDAC7	histone deacetylase protein_co	12	47782722	47833132	-1	q13.11
ENSG00000141542	-0.8839	-1.8453	6.82E-09	3.47E-08	RAB40B	RAB40B, membrane protein_co	17	82654973	82698728	-1	q25.3
ENSG00000100324	-0.8844	-1.846	4.07E-10	2.31E-09	TAB1	TGF-beta activator protein_co	22	39399741	39437060	1	q13.1
ENSG00000155363	-0.8845	-1.8461	2.38E-09	1.27E-08	MOV10	Mov10 RING protein_co	1	1.13E+08	1.13E+08	1	p13.2
ENSG00000146373	-0.8846	-1.8462	2.48E-07	1.09E-06	RNF217	ring finger protein_co	6	1.25E+08	1.25E+08	1	q22.31
ENSG00000138135	-0.8846	-1.8462	0.0117	0.0273	CH25H	cholesterol protein_co	10	89205629	89207314	-1	q23.31
ENSG00000072958	-0.885	-1.8468	1.03E-06	4.30E-06	AP1M1	adaptor-related protein_co	19	16197578	16245907	1	p13.11
ENSG00000079999	-0.8851	-1.8469	1.95E-22	3.11E-21	KEAP1	kelch-like E protein_co	19	10486120	10503741	-1	p13.2
ENSG00000171943	-0.8852	-1.847	7.41E-05	0.0002	SRGAP2C	SLIT-ROBO protein_co	1	1.21E+08	1.21E+08	1	p11.2
ENSG00000100647	-0.8852	-1.8471	2.72E-05	9.56E-05	KIAA0247	KIAA0247 [ protein_co	14	69611596	69715142	1	q24.1
ENSG00000149480	-0.8853	-1.8472	4.61E-10	2.60E-09	MTA2	metastasis protein_co	11	62593214	62601840	-1	q12.3
ENSG00000165272	-0.8854	-1.8473	0.0083	0.0199	AQP3	aquaporin 3 protein_co	9	33441154	33447611	-1	p13.3
ENSG00000114331	-0.8857	-1.8477	6.40E-24	1.17E-22	ACAP2	ArfGAP with protein_co	3	1.95E+08	1.95E+08	-1	q29
ENSG00000100600	-0.8859	-1.848	5.05E-09	2.60E-08	LGMN	legumain [ protein_co	14	92703807	92748702	-1	q32.12
ENSG00000163840	-0.886	-1.8481	1.95E-12	1.35E-11	DTX3L	deltex 3 like protein_co	3	1.23E+08	1.23E+08	1	q21.1
ENSG00000174839	-0.8862	-1.8483	1.08E-12	7.67E-12	DENND6A	DENN/MAI protein_co	3	57625457	57693089	-1	p14.3

ENSG00000185896	-0.8866	-1.8488	6.63E-08	3.09E-07	LAMP1	lysosomal-;protein_co	13	1.13E+08	1.13E+08	1	q34
ENSG0000040531	-0.8867	-1.8489	3.85E-11	2.39E-10	CTNS	cystinosin, protein_co	17	3636468	3661542	1	p13.2
ENSG00000116138	-0.8869	-1.8492	5.91E-20	7.65E-19	DNAJC16	DnaJ (Hsp4 protein_co	1	15526813	15592379	1	p36.21
ENSG00000115183	-0.8872	-1.8496	2.33E-19	2.85E-18	TANC1	tetratricop;protein_co	2	1.59E+08	1.59E+08	1	q24.2
ENSG00000152818	-0.8876	-1.8501	6.95E-14	5.43E-13	UTRN	utrophin [S protein_co	6	1.44E+08	1.45E+08	1	q24.2
ENSG00000237037	-0.8889	-1.8518	0.0014	0.0038	NDUFA6-AS1	NDUFA6 ar processed_	22	42090931	42137742	1	q13.2
ENSG00000263956	-0.889	-1.8519	1.68E-10	9.84E-10	NBPF11	neuroblast;protein_co	1	1.48E+08	1.48E+08	-1	q21.2
ENSG0000040933	-0.8892	-1.8521	1.48E-08	7.28E-08	INPP4A	inositol pol protein_co	2	98444854	98594390	1	q11.2
ENSG00000105323	-0.8896	-1.8527	4.81E-15	4.11E-14	HNRNPUL1	heterogene;protein_co	19	41262496	41307598	1	q13.2
ENSG00000151150	-0.8898	-1.8529	3.47E-12	2.35E-11	ANK3	ankyrin 3, r protein_co	10	60026298	60733490	-1	q21.2
ENSG00000139641	-0.8898	-1.8529	4.89E-10	2.76E-09	ESYT1	extended s protein_co	12	56118250	56144671	1	q13.2
ENSG00000154945	-0.8901	-1.8533	2.26E-11	1.43E-10	ANKRD40	ankyrin rep protein_co	17	50693190	50707924	-1	q21.33
ENSG00000165097	-0.8902	-1.8534	0.0002	0.0008	KDM1B	lysine (K)-s;protein_co	6	18155329	18223853	1	p22.3
ENSG00000100605	-0.8903	-1.8536	3.74E-14	2.98E-13	ITPK1	inositol-tet protein_co	14	92936914	93116320	-1	q32.12
ENSG00000162419	-0.8904	-1.8537	3.43E-11	2.14E-10	GMEB1	glucocortic protein_co	1	28668732	28719353	1	p35.3
ENSG00000131711	-0.8904	-1.8537	3.53E-05	0.0001	MAP1B	microtubul protein_co	5	72107234	72209570	1	q13.2
ENSG00000068354	-0.8905	-1.8538	2.82E-12	1.93E-11	TBC1D25	TBC1 doma protein_co X		48539457	48562609	1	p11.23
ENSG00000164659	-0.8906	-1.8539	0.0067	0.0163	KIAA1324L	KIAA1324-l protein_co	7	86876906	87059699	-1	q21.12
ENSG00000077150	-0.8908	-1.8541	7.52E-05	0.0003	NFKB2	nuclear fac protein_co	10	1.02E+08	1.02E+08	1	q24.32
ENSG00000078114	-0.8908	-1.8542	2.42E-10	1.40E-09	NEBL	nebulette [ protein_co	10	20779973	21174187	-1	p12.31
ENSG00000265479	-0.8909	-1.8543	0.0126	0.0291	DTX2P1-UPK3BP1-PMS2P11	DTX2P1-UP processed_	7	76980949	77043775	1	q11.23
ENSG00000117984	-0.8913	-1.8548	5.39E-12	3.60E-11	CTSD	cathepsin [ protein_co	11	1752752	1763992	-1	p15.5
ENSG00000137486	-0.8916	-1.8552	0.0001	0.0003	ARRB1	arrestin, be protein_co	11	75264182	75351705	-1	q13.4
ENSG00000184428	-0.8916	-1.8553	6.10E-08	2.86E-07	TOP1MT	topoisome;protein_co	8	1.43E+08	1.43E+08	-1	q24.3
ENSG00000197111	-0.8925	-1.8564	1.28E-20	1.75E-19	PCBP2	poly(rC) bir protein_co	12	53452102	53481162	1	q13.13
ENSG00000112290	-0.8925	-1.8564	0.0001	0.0003	WASF1	WAS protei protein_co	6	1.1E+08	1.1E+08	-1	q21
ENSG00000227398	-0.8928	-1.8567	0.0122	0.0282	KIF9-AS1	KIF9 antisense	3	47164497	47246601	1	p21.31
ENSG00000163378	-0.8932	-1.8572	9.79E-11	5.88E-10	EOGT	EGF domai protein_co	3	68975214	69013961	-1	p14.1
ENSG00000135334	-0.8933	-1.8574	2.79E-09	1.47E-08	AKIRIN2	akirin 2 [So protein_co	6	87675072	87702209	-1	q15
ENSG00000259953	-0.8934	-1.8576	6.44E-05	0.0002	RP11-4O1.2	sense_over	9	1.12E+08	1.12E+08	-1	q31.3
ENSG00000132016	-0.8937	-1.8579	0.0184	0.0409	C19orf57	chromoson protein_co	19	13882348	13906452	-1	p13.12
ENSG00000068120	-0.8939	-1.8582	1.90E-10	1.11E-09	COASY	CoA syntha protein_co	17	42561467	42566277	1	q21.2
ENSG00000161921	-0.8945	-1.859	1.14E-07	5.20E-07	CXCL16	chemokine protein_co	17	4733526	4739922	-1	p13.2
ENSG00000204301	-0.8947	-1.8593	0.0016	0.0044	NOTCH4	notch 4 [So protein_co	6	32194843	32224067	-1	p21.32
ENSG00000261295	-0.8952	-1.8598	9.85E-05	0.0003	RP11-524D16__A.3	antisense X		1.01E+08	1.01E+08	1	q22.1
ENSG0000021645	-0.8953	-1.8599	0.0029	0.0075	NRXN3	neurexin 3 protein_co	14	78242391	79868290	1	q24.3
ENSG00000059145	-0.896	-1.8609	6.27E-08	2.93E-07	UNKL	unkempt f; protein_co	16	1363205	1414751	-1	p13.3
ENSG00000170385	-0.8963	-1.8613	4.15E-06	1.61E-05	SLC30A1	solute carri protein_co	1	2.12E+08	2.12E+08	-1	q32.3
ENSG00000243302	-0.8969	-1.862	0.0013	0.0036	RP11-274B21.2	processed_	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000184208	-0.8975	-1.8629	2.61E-14	2.11E-13	C22orf46	chromoson protein_co	22	41688939	41698136	1	q13.2
ENSG00000278133	-0.8976	-1.8629	3.16E-05	0.0001	RP11-196G11.5	sense_intrc	16	31122235	31124064	1	p11.2

ENSG00000101115	-0.8979	-1.8634	0.0212	0.0466 SALL4	spalt-like tr protein_co	20	51784042	51802520	-1	q13.2
ENSG00000179715	-0.8982	-1.8638	0.0114	0.0266 PCED1B	PC-esterase protein_co	12	47079603	47236662	1	q13.11
ENSG00000197122	-0.8984	-1.864	8.30E-08	3.83E-07 SRC	SRC proto-(r)protein_co	20	37344685	37406050	1	q11.23
ENSG00000132471	-0.8986	-1.8642	2.97E-10	1.71E-09 WBP2	WW domain protein_co	17	75845699	75856507	-1	q25.1
ENSG00000116350	-0.8988	-1.8646	1.66E-12	1.16E-11 SRSF4	serine/argin protein_co	1	29147743	29181987	-1	p35.3
ENSG00000175970	-0.899	-1.8648	0.0005	0.0014 UNC119B	unc-119 hom protein_co	12	1.21E+08	1.21E+08	1	q24.31
ENSG00000007384	-0.8992	-1.865	2.99E-07	1.31E-06 RHBDF1	rhomboid 5 protein_co	16	58059	76355	-1	p13.3
ENSG00000116871	-0.8994	-1.8653	1.08E-06	4.47E-06 MAP7D1	MAP7 domain protein_co	1	36155579	36180849	1	p34.3
ENSG00000127580	-0.8995	-1.8654	8.59E-08	3.96E-07 WDR24	WD repeat protein_co	16	684622	690444	-1	p13.3
ENSG00000127948	-0.9002	-1.8663	2.91E-13	2.16E-12 POR	P450 (cytochrome) protein_co	7	75899200	75986855	1	q11.23
ENSG00000121653	-0.9002	-1.8663	0.0012	0.0034 MAPK8IP1	mitogen-activated protein_co	11	45885651	45906465	1	p11.2
ENSG00000166311	-0.9004	-1.8666	0.0002	0.0006 SMPD1	sphingomyelinase protein_co	11	6390431	6394998	1	p15.4
ENSG00000137727	-0.9004	-1.8666	0.0173	0.0389 ARHGAP20	Rho GTPase protein_co	11	1.11E+08	1.11E+08	-1	q23.1
ENSG00000111602	-0.9006	-1.8668	4.01E-08	1.91E-07 TIMELESS	timeless circadian protein_co	12	56416373	56449403	-1	q13.3
ENSG00000198315	-0.901	-1.8674	1.99E-16	1.92E-15 ZKSCAN8	zinc finger protein_co	6	28141910	28159472	1	p22.1
ENSG00000121039	-0.901	-1.8674	3.57E-07	1.55E-06 RDH10	retinol dehydrogenase protein_co	8	73294612	73325281	1	q21.11
ENSG00000106683	-0.9011	-1.8675	2.77E-05	9.73E-05 LIMK1	LIM domain protein_co	7	74082933	74122525	1	q11.23
ENSG00000166016	-0.9014	-1.8679	0.0065	0.0159 ABTB2	ankyrin repeat protein_co	11	34150988	34358008	-1	p13
ENSG00000126821	-0.9016	-1.8682	0.005	0.0126 SGPP1	sphingosinase protein_co	14	63684214	63728039	-1	q23.2
ENSG00000196542	-0.9022	-1.8689	0.0001	0.0004 SPTSSB	serine palmitoyltransferase protein_co	3	1.61E+08	1.61E+08	-1	q26.1
ENSG00000143507	-0.9024	-1.8691	6.62E-09	3.38E-08 DUSP10	dual specificity phosphatase protein_co	1	2.22E+08	2.22E+08	-1	q41
ENSG00000230715	-0.9026	-1.8694	0.0076	0.0185 RP11-274B21.4	processed transmembrane protein_co	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000160323	-0.9027	-1.8695	0.0125	0.0289 ADAMTS13	ADAM metallopeptidase with thrombospondin type 1 motifs protein_co	9	1.33E+08	1.33E+08	1	q34.2
ENSG00000233622	-0.9026	-1.8695	0.0144	0.0329 CYP2T2P	cytochrome P450 unitary protein_co	19	40808525	40811390	-1	q13.2
ENSG00000115207	-0.9029	-1.8699	1.06E-16	1.04E-15 GTF3C2	general transcription factor protein_co	2	27325849	27357034	-1	p23.3
ENSG00000156011	-0.9033	-1.8703	1.67E-26	3.88E-25 PSD3	pleckstrin domain protein_co	8	18527301	19084730	-1	p22
ENSG00000156232	-0.9034	-1.8705	2.31E-13	1.72E-12 WHAMM	WAS protein-interacting protein_co	15	82809628	82836108	1	q25.2
ENSG00000267041	-0.9038	-1.8709	0.0102	0.024 ZNF850	zinc finger protein_co	19	36714383	36772825	-1	q13.12
ENSG00000038382	-0.9039	-1.8712	5.21E-05	0.0002 TRIO	trio Rho guanine nucleotide exchange factor protein_co	5	14143702	14532128	1	p15.2
ENSG00000073849	-0.904	-1.8713	6.30E-05	0.0002 ST6GAL1	ST6 beta-galactosyltransferase protein_co	3	1.87E+08	1.87E+08	1	q27.3
ENSG00000235217	-0.9042	-1.8715	3.77E-06	1.47E-05 TSPY26P	testis specific transcribed repeat protein_co	20	32186477	32190527	-1	q11.21
ENSG00000277161	-0.9043	-1.8716	2.53E-07	1.11E-06 PIGW	phosphatidylethanolamine transferase protein_co	17	36535020	36539310	1	q12
ENSG00000084652	-0.9047	-1.8722	3.79E-20	4.97E-19 TXLNA	taxilin alpha protein_co	1	32179686	32198285	1	p35.2
ENSG00000153944	-0.9048	-1.8722	1.49E-13	1.13E-12 MSI2	musashi RNA binding protein_co	17	57255851	57684685	1	q22
ENSG00000189067	-0.9051	-1.8727	6.78E-09	3.45E-08 LITAF	lipopolysaccharide binding protein_co	16	11547722	11636381	-1	p13.13
ENSG00000006704	-0.9053	-1.8729	5.20E-14	4.10E-13 GTF2IRD1	GTF2I repeat protein_co	7	74453790	74602604	1	q11.23
ENSG00000144191	-0.906	-1.8739	0.0128	0.0295 CNGA3	cyclic nucleotide-gated channel subunit protein_co	2	98346155	98398601	1	q11.2
ENSG00000272520	-0.9079	-1.8763	5.28E-08	2.49E-07 CTD-2044J15.2	lincRNA	5	6671106	6674386	1	p15.31
ENSG00000103043	-0.9081	-1.8766	6.16E-10	3.44E-09 VAC14	Vac14 homolog protein_co	16	70687439	70801161	-1	q22.2
ENSG00000140464	-0.9098	-1.8788	2.05E-08	1.00E-07 PML	promyelocytic leukemia protein_co	15	73994673	74047812	1	q24.1
ENSG00000006016	-0.91	-1.8791	0.0055	0.0138 CRLF1	cytokine receptor protein_co	19	18572220	18607741	-1	p13.11

ENSG00000105325	-0.9102	-1.8793	1.70E-11	1.09E-10	FZR1	fizzy/cell di protein_co	19	3506273	3538330	1	p13.3
ENSG00000150893	-0.9104	-1.8795	0.0004	0.0011	FREM2	FRAS1 relat protein_co	13	38687129	38887131	1	q13.3
ENSG00000008516	-0.9104	-1.8796	0.0134	0.0307	MMP25	matrix met protein_co	16	3046681	3060726	1	p13.3
ENSG00000111110	-0.9106	-1.8798	1.95E-14	1.59E-13	PPM1H	protein phc protein_co	12	62643982	62935037	-1	q14.2
ENSG00000119227	-0.9106	-1.8798	2.57E-05	9.06E-05	PIGZ	phosphatid protein_co	3	1.97E+08	1.97E+08	-1	q29
ENSG00000050820	-0.9109	-1.8802	1.08E-06	4.46E-06	BCAR1	breast canc protein_co	16	75228187	75268053	-1	q23.1
ENSG00000204843	-0.911	-1.8803	6.78E-20	8.75E-19	DCTN1	dynactin 1 protein_co	2	74361154	74392087	-1	p13.1
ENSG00000198743	-0.9113	-1.8808	1.02E-12	7.25E-12	SLC5A3	solute carri protein_co	21	34073570	34106260	1	q22.11
ENSG00000054598	-0.9115	-1.881	4.79E-11	2.96E-10	FOXC1	forkhead b protein_co	6	1609972	1613897	1	p25.3
ENSG00000149499	-0.9123	-1.882	5.47E-17	5.51E-16	EML3	echinodern protein_co	11	62602218	62612765	-1	q12.3
ENSG00000102119	-0.9123	-1.882	7.58E-13	5.44E-12	EMD	emerin [So protein_co X		1.54E+08	1.54E+08	1	q28
ENSG00000075420	-0.9126	-1.8824	0.0012	0.0034	FNDC3B	fibronectin protein_co	3	1.72E+08	1.72E+08	1	q26.31
ENSG00000186575	-0.9129	-1.8828	1.83E-09	9.83E-09	NF2	neurofibroi protein_co	22	29603556	29698598	1	q12.2
ENSG00000065883	-0.9135	-1.8836	1.71E-28	4.74E-27	CDK13	cyclin-depe protein_co	7	39950037	40097134	1	p14.1
ENSG00000105072	-0.9135	-1.8836	0.0033	0.0084	C19orf44	chromoson protein_co	19	16496311	16521352	1	p13.11
ENSG00000135631	-0.9135	-1.8837	5.26E-10	2.95E-09	RAB11FIP5	RAB11 fam protein_co	2	73073382	73156721	-1	p13.2
ENSG00000107021	-0.9148	-1.8853	9.30E-11	5.60E-10	TBC1D13	TBC1 doma protein_co	9	1.29E+08	1.29E+08	1	q34.11
ENSG00000158050	-0.9152	-1.8858	0.0211	0.0464	DUSP2	dual specifi protein_co	2	96143166	96145440	-1	q11.2
ENSG00000198053	-0.9153	-1.886	0.0007	0.002	SIRPA	signal-regu protein_co	20	1894167	1940592	1	p13
ENSG00000091073	-0.916	-1.8869	4.63E-13	3.38E-12	DTX2	deltex 2, E protein_co	7	76461676	76505995	1	q11.23
ENSG00000019144	-0.9165	-1.8875	0.0058	0.0143	PHLDB1	pleckstrin t protein_co	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000185340	-0.9166	-1.8877	2.43E-05	8.60E-05	GAS2L1	growth arr protein_co	22	29306582	29312785	1	q12.2
ENSG00000173681	-0.9169	-1.888	1.13E-13	8.70E-13	CXorf23	chromoson protein_co X		19912860	19970298	-1	p22.12
ENSG00000224914	-0.9169	-1.8881	8.60E-08	3.96E-07	LINC00863	long interg lincRNA	10	87342736	87357882	1	q23.2
ENSG00000175938	-0.9173	-1.8886	4.40E-11	2.72E-10	ORAI3	ORAI calciu protein_co	16	30949066	30956461	1	p11.2
ENSG00000198246	-0.9178	-1.8892	3.54E-05	0.0001	SLC29A3	solute carri protein_co	10	71319258	71363385	1	q22.1
ENSG00000139629	-0.918	-1.8895	0.0002	0.0006	GALNT6	polypeptid protein_co	12	51351247	51392867	-1	q13.13
ENSG00000212747	-0.9185	-1.8901	0.0004	0.0011	FAM127C	family with protein_co X		1.35E+08	1.35E+08	-1	q26.3
ENSG00000261578	-0.9188	-1.8905	0.0101	0.0239	RP11-21L23.2	sense_over	11	76800364	76804555	1	q13.5
ENSG00000133805	-0.9191	-1.891	2.30E-07	1.02E-06	AMPD3	adenosine protein_co	11	10308313	10507579	1	p15.4
ENSG00000061936	-0.9194	-1.8913	7.05E-13	5.08E-12	SFSWAP	splicing fac protein_co	12	1.32E+08	1.32E+08	1	q24.33
ENSG00000270362	-0.92	-1.8921	0.0017	0.0045	HMG3-AS1	HMG3 an antisense	6	79233718	79236797	1	q14.1
ENSG00000163697	-0.9202	-1.8924	1.70E-05	6.16E-05	APBB2	amyloid be protein_co	4	40810027	41216714	-1	p13
ENSG00000110107	-0.9206	-1.8929	6.00E-16	5.54E-15	PRPF19	pre-mRNA protein_co	11	60890730	60906588	-1	q12.2
ENSG00000226332	-0.9206	-1.893	0.0146	0.0332	RP11-157P1.4	antisense	20	62305432	62306325	-1	q13.33
ENSG00000254986	-0.9208	-1.8931	3.24E-09	1.71E-08	DPP3	dipeptidyl- protein_co	11	66480013	66509659	1	q13.2
ENSG00000268575	-0.9212	-1.8937	0.0038	0.0098	RP1-283E3.8	processed_	1	1702736	1737688	-1	p36.33
ENSG00000160712	-0.9212	-1.8937	0.0054	0.0135	IL6R	interleukin protein_co	1	1.54E+08	1.54E+08	1	q21.3
ENSG00000176953	-0.9214	-1.8939	2.89E-17	2.98E-16	NFATC2IP	nuclear fac protein_co	16	28950807	28967097	1	p11.2
ENSG00000213672	-0.9215	-1.8941	2.76E-09	1.46E-08	NCKIPSD	NCK intera protein_co	3	48673844	48686364	-1	p21.31
ENSG00000019186	-0.9218	-1.8944	0.0175	0.0392	CYP24A1	cytochrom protein_co	20	54153449	54173973	-1	q13.2

ENSG0000063601	-0.922	-1.8947	3.21E-20	4.24E-19	MTMR1	myotubular protein_co X	1.51E+08	1.51E+08	1	q28
ENSG0000085733	-0.9236	-1.8968	9.92E-16	8.96E-15	CTTN	cortactin [S protein_co	11 70398404	70436584	1	q13.3
ENSG00000174989	-0.9241	-1.8975	2.63E-12	1.80E-11	FBXW8	F-box and \ protein_co	12 1.17E+08	1.17E+08	1	q24.22
ENSG00000167625	-0.9244	-1.8978	1.35E-08	6.70E-08	ZNF526	zinc finger   protein_co	19 42220271	42228201	1	q13.2
ENSG00000196236	-0.9244	-1.8979	0.0016	0.0045	XPNPEP3	X-prolyl am protein_co	22 40857077	40932815	1	q13.2
ENSG00000101109	-0.9252	-1.8989	2.32E-20	3.09E-19	STK4	serine/thre protein_co	20 44966474	45079959	1	q13.12
ENSG00000184863	-0.9257	-1.8996	2.22E-13	1.66E-12	RBM33	RNA bindin protein_co	7 1.56E+08	1.56E+08	1	q36.3
ENSG00000253846	-0.9261	-1.9002	2.76E-05	9.71E-05	PCDHGA10	protocadhe protein_co	5 1.41E+08	1.42E+08	1	q31.3
ENSG00000072133	-0.9269	-1.9012	9.29E-07	3.88E-06	RPS6KA6	ribosomal   protein_co X	84058346	84187925	-1	q21.1
ENSG00000114378	-0.9274	-1.9018	0.0085	0.0203	HYAL1	hyaluronog protein_co	3 50299889	50312381	-1	p21.31
ENSG00000020256	-0.9277	-1.9023	1.15E-12	8.15E-12	ZFP64	ZFP64 zinc protein_co	20 52051663	52204308	-1	q13.2
ENSG00000151746	-0.9277	-1.9023	0.0003	0.0009	BICD1	bicaudal D protein_co	12 32106835	32383633	1	p11.21
ENSG00000163472	-0.9278	-1.9024	4.78E-05	0.0002	TMEM79	transmemt protein_co	1 1.56E+08	1.56E+08	1	q22
ENSG00000241399	-0.928	-1.9027	5.80E-06	2.21E-05	CD302	CD302 mol protein_co	2 1.6E+08	1.6E+08	-1	q24.2
ENSG00000132604	-0.9286	-1.9034	1.12E-10	6.67E-10	TERF2	telomeric r protein_co	16 69355561	69408571	-1	q22.1
ENSG00000272482	-0.929	-1.9039	0.001	0.0029	RP11-474O21.5	lincRNA	1 12618900	12619244	-1	p36.21
ENSG00000110651	-0.9292	-1.9042	6.38E-12	4.22E-11	CD81	CD81 mole protein_co	11 2376177	2397419	1	p15.5
ENSG00000108587	-0.9296	-1.9047	2.61E-15	2.28E-14	GOSR1	golgi SNAP protein_co	17 30477362	30527592	1	q11.2
ENSG00000107164	-0.93	-1.9053	1.53E-26	3.58E-25	FUBP3	far upstrea protein_co	9 1.31E+08	1.31E+08	1	q34.11
ENSG00000100307	-0.9302	-1.9055	1.33E-10	7.89E-10	CBX7	chromobox protein_co	22 39120167	39152674	-1	q13.1
ENSG00000263843	-0.9304	-1.9058	0.0215	0.0472	RP11-649A18.12	antisense	17 75271369	75273895	1	q25.1
ENSG00000181135	-0.9309	-1.9065	2.18E-09	1.17E-08	ZNF707	zinc finger   protein_co	8 1.44E+08	1.44E+08	1	q24.3
ENSG00000174197	-0.9314	-1.9071	1.89E-13	1.42E-12	MGA	MGA, MAX protein_co	15 41621224	41773081	1	q15.1
ENSG00000197226	-0.9319	-1.9077	1.07E-14	8.92E-14	TBC1D9B	TBC1 doma protein_co	5 1.8E+08	1.8E+08	-1	q35.3
ENSG00000244479	-0.9319	-1.9078	0.0015	0.0042	OR2A1-AS1	OR2A1 anti antisense	7 1.44E+08	1.44E+08	-1	q35
ENSG00000110931	-0.9328	-1.9089	1.23E-10	7.33E-10	CAMKK2	calcium/cal protein_co	12 1.21E+08	1.21E+08	-1	q24.31
ENSG00000234518	-0.9328	-1.909	0.0062	0.0154	PTGES3P1	prostaglan( processed_	1 89104285	89104767	-1	p22.2
ENSG00000171723	-0.933	-1.9093	3.20E-10	1.83E-09	GPHN	gephyrin [S protein_co	14 66507407	67181803	1	q23.3
ENSG00000197785	-0.9333	-1.9096	1.36E-11	8.75E-11	ATAD3A	ATPase fan protein_co	1 1512151	1534687	1	p36.33
ENSG00000118762	-0.9334	-1.9098	5.42E-07	2.32E-06	PKD2	polycystic k protein_co	4 88007668	88077777	1	q22.1
ENSG00000103194	-0.9337	-1.9102	0.001	0.0029	USP10	ubiquitin s  protein_co	16 84699978	84779922	1	q24.1
ENSG00000277053	-0.9338	-1.9103	4.05E-08	1.92E-07	GTF2IP1	general tra transcribed	7 75185385	75237696	-1	q11.23
ENSG00000152527	-0.9341	-1.9107	1.34E-08	6.63E-08	PLEKHH2	pleckstrin f protein_co	2 43637273	43767987	1	p21
ENSG00000090273	-0.9344	-1.9111	0.0026	0.0068	NUDC	nudC nucle protein_co	1 26900238	26946862	1	p36.11
ENSG00000160190	-0.9346	-1.9113	1.97E-13	1.48E-12	SLC37A1	solute carri protein_co	21 42496008	42581440	1	q22.3
ENSG00000110057	-0.9346	-1.9114	1.73E-06	7.00E-06	UNC93B1	unc-93 hon protein_co	11 67991104	68004982	-1	q13.2
ENSG00000224769	-0.9346	-1.9114	0.0015	0.0041	AC069213.1	unprocesse	3 1.96E+08	1.96E+08	1	q29
ENSG00000173334	-0.9348	-1.9116	2.48E-09	1.32E-08	TRIB1	tribbles pse protein_co	8 1.25E+08	1.25E+08	1	q24.13
ENSG00000120327	-0.9348	-1.9116	3.66E-05	0.0001	PCDHB14	protocadhe protein_co	5 1.41E+08	1.41E+08	1	q31.3
ENSG00000205726	-0.935	-1.9119	9.84E-13	7.00E-12	ITSN1	intersectin protein_co	21 33642400	33899861	1	q22.11
ENSG00000164828	-0.9355	-1.9125	6.60E-16	6.07E-15	SUN1	Sad1 and U protein_co	7 816615	896435	1	p22.3



ENSG00000181744	-0.9355	-1.9126	1.36E-08	6.70E-08	C3orf58	chromosom protein_co	3	1.44E+08	1.44E+08	1	q24
ENSG00000131462	-0.9359	-1.9131	4.79E-08	2.26E-07	TUBG1	tubulin, ga protein_co	17	42609676	42615234	1	q21.2
ENSG00000139687	-0.936	-1.9132	6.87E-25	1.36E-23	RB1	retinoblast protein_co	13	48303751	48481986	1	q14.2
ENSG00000151576	-0.936	-1.9132	1.19E-09	6.50E-09	QTRTD1	queuine tR protein_co	3	1.14E+08	1.14E+08	1	q13.31
ENSG00000270172	-0.9364	-1.9137	0.0216	0.0472	RP5-1024G6.8	lincRNA	1	53242364	53244540	-1	p32.3
ENSG00000062282	-0.9367	-1.9142	2.12E-07	9.43E-07	DGAT2	diacylglyce protein_co	11	75759512	75801535	1	q13.5
ENSG00000163257	-0.937	-1.9146	2.97E-15	2.58E-14	DCAF16	DDB1 and (protein_co	4	17800655	17810758	-1	p15.31
ENSG00000169118	-0.9372	-1.9148	1.30E-19	1.62E-18	CSNK1G1	casein kina protein_co	15	64165517	64356187	-1	q22.31
ENSG00000132153	-0.9374	-1.9151	7.90E-16	7.23E-15	DHX30	DEAH (Asp- protein_co	3	47802909	47850195	1	p21.31
ENSG00000153790	-0.9374	-1.9151	0.0015	0.0041	C7orf31	chromosom protein_co	7	25134697	25180356	-1	p15.3
ENSG00000215014	-0.9374	-1.9151	0.0181	0.0404	RP5-832C2.5	lincRNA	1	1574975	1577075	-1	p36.33
ENSG00000008300	-0.9375	-1.9152	0.0114	0.0266	CELSR3	cadherin, E protein_co	3	48636469	48662915	-1	p21.31
ENSG00000213588	-0.9379	-1.9157	2.17E-07	9.61E-07	ZBTB9	zinc finger (protein_co	6	33453970	33457548	-1	p21.32
ENSG00000176619	-0.9381	-1.9161	1.39E-17	1.47E-16	LMNB2	lamin B2 [S protein_co	19	2427638	2456996	-1	p13.3
ENSG00000179163	-0.9385	-1.9166	3.43E-10	1.96E-09	FUCA1	fucosidase, protein_co	1	23845077	23868294	-1	p36.11
ENSG00000275066	-0.9392	-1.9175	4.36E-14	3.45E-13	SYNRG	synergic, g; protein_co	17	37514797	37609496	-1	q12
ENSG00000012171	-0.9394	-1.9178	0.0079	0.019	SEMA3B	sema domæ protein_co	3	50267558	50277546	-1	p21.31
ENSG00000125430	-0.9398	-1.9182	7.28E-08	3.38E-07	HS3ST3B1	heparan su protein_co	17	14301083	14349404	1	p12
ENSG00000109062	-0.9399	-1.9184	6.02E-14	4.72E-13	SLC9A3R1	solute carri protein_co	17	74748652	74769353	1	q25.1
ENSG00000139437	-0.94	-1.9186	1.94E-07	8.64E-07	TCHP	trichoplein, protein_co	12	1.1E+08	1.1E+08	1	q24.11
ENSG00000122126	-0.9404	-1.9191	9.89E-19	1.15E-17	OCRL	oculocereb protein_co X		1.3E+08	1.3E+08	1	q26.1
ENSG00000197852	-0.9405	-1.9193	7.99E-06	2.99E-05	FAM212B	family with protein_co	1	1.12E+08	1.12E+08	-1	p13.2
ENSG00000231160	-0.9408	-1.9196	0.0094	0.0223	KLF3-AS1	KLF3 antise processed_	4	38612701	38664883	-1	p14
ENSG00000160271	-0.9414	-1.9203	3.36E-06	1.32E-05	RALGDS	ral guanine protein_co	9	1.33E+08	1.33E+08	-1	q34.2
ENSG00000131263	-0.9414	-1.9204	7.27E-30	2.28E-28	RLIM	ring finger (protein_co X		74585217	74614617	-1	q13.2
ENSG00000177508	-0.9415	-1.9205	2.49E-10	1.44E-09	IRX3	iroquois ho protein_co	16	54283304	54286763	-1	q12.2
ENSG00000219481	-0.9419	-1.9211	3.97E-15	3.41E-14	NBPF1	neuroblast protein_co	1	16562319	16613562	-1	p36.13
ENSG00000106714	-0.9421	-1.9214	4.20E-14	3.34E-13	CNTNAP3	contactin a protein_co	9	39072767	39288315	-1	p12
ENSG00000241945	-0.9421	-1.9214	3.34E-05	0.0001	PWP2	PWP2 peric protein_co	21	44107290	44131181	1	q22.3
ENSG00000102996	-0.9422	-1.9215	5.72E-05	0.0002	MMP15	matrix met protein_co	16	58025566	58046901	1	q21
ENSG00000135862	-0.9424	-1.9217	4.10E-07	1.77E-06	LAMC1	laminin, ga protein_co	1	1.83E+08	1.83E+08	1	q25.3
ENSG00000144233	-0.9427	-1.9221	5.50E-14	4.32E-13	AMMECR1L	AMMECR1- protein_co	2	1.28E+08	1.28E+08	-1	q14.3
ENSG00000119638	-0.9427	-1.9221	7.76E-13	5.57E-12	NEK9	NIMA-relat protein_co	14	75079353	75127344	-1	q24.3
ENSG00000198133	-0.9429	-1.9223	9.23E-06	3.43E-05	TMEM229B	transmemk protein_co	14	67447084	67533739	-1	q24.1
ENSG00000100099	-0.9431	-1.9227	6.32E-13	4.57E-12	HPS4	Hermansky protein_co	22	26443423	26483837	-1	q12.1
ENSG00000176393	-0.9437	-1.9235	1.80E-13	1.36E-12	RNPEP	arginyl ami protein_co	1	2.02E+08	2.02E+08	1	q32.1
ENSG00000115275	-0.9438	-1.9236	8.32E-11	5.04E-10	MOGS	mannosyl-c protein_co	2	74461057	74465410	-1	p13.1
ENSG00000173210	-0.9441	-1.924	3.57E-07	1.55E-06	ABLIM3	actin bindir protein_co	5	1.49E+08	1.49E+08	1	q32
ENSG00000177045	-0.9442	-1.9241	3.81E-09	1.99E-08	SIX5	SIX homeol protein_co	19	45764785	45769226	-1	q13.32
ENSG00000185101	-0.9442	-1.9241	5.75E-07	2.44E-06	ANO9	anoctamin protein_co	11	417933	442011	-1	p15.5
ENSG00000186635	-0.9445	-1.9245	1.09E-21	1.64E-20	ARAP1	ArfGAP wit protein_co	11	72685069	72793599	-1	q13.4



ENSG00000197879	-0.9445	-1.9245	1.40E-06	5.70E-06	MYO1C	myosin IC [ protein_co	17	1464098	1492812	-1	p13.3
ENSG00000144847	-0.9446	-1.9247	0.0105	0.0246	IGSF11	immunogl protein_co	3	1.19E+08	1.19E+08	-1	q13.32
ENSG00000162396	-0.9452	-1.9254	6.85E-06	2.59E-05	PARS2	prolyl-tRNA protein_co	1	54756898	54764514	-1	p32.3
ENSG00000005486	-0.9454	-1.9257	5.06E-13	3.68E-12	RHBDD2	rhomboid c protein_co	7	75842602	75888926	1	q11.23
ENSG00000164164	-0.9455	-1.9258	1.60E-13	1.21E-12	OTUD4	OTU deubiq protein_co	4	1.45E+08	1.45E+08	-1	q31.21
ENSG00000104880	-0.9467	-1.9275	1.49E-07	6.74E-07	ARHGEF18	Rho/Rac gu protein_co	19	7395113	7472477	1	p13.2
ENSG00000151623	-0.9469	-1.9277	4.50E-10	2.54E-09	NR3C2	nuclear rec protein_co	4	1.48E+08	1.48E+08	-1	q31.23
ENSG00000166170	-0.9472	-1.9281	3.86E-16	3.64E-15	BAG5	BCL2-assoc protein_co	14	1.04E+08	1.04E+08	-1	q32.33
ENSG00000124164	-0.9482	-1.9295	1.13E-16	1.11E-15	VAPB	VAMP (vesi protein_co	20	58389122	58451101	1	q13.32
ENSG00000124574	-0.9494	-1.9311	6.09E-12	4.04E-11	ABCC10	ATP-bindin protein_co	6	43427366	43450430	1	p21.1
ENSG00000126767	-0.9497	-1.9315	1.31E-13	9.98E-13	ELK1	ELK1, mem protein_co X		47635521	47650604	-1	p11.23
ENSG00000196365	-0.9505	-1.9325	3.23E-13	2.39E-12	LONP1	lon peptida protein_co	19	5691834	5720572	-1	p13.3
ENSG00000181523	-0.951	-1.9332	0.0002	0.0007	SGSH	N-sulfogluc protein_co	17	80206716	80220923	-1	q25.3
ENSG00000128849	-0.9514	-1.9337	0.0006	0.0017	CGNL1	cingulin-lik protein_co	15	57375967	57550727	1	q21.3
ENSG00000137414	-0.9517	-1.9342	3.05E-14	2.45E-13	FAM8A1	family with protein_co	6	17600355	17611719	1	p22.3
ENSG00000182704	-0.9527	-1.9355	6.13E-09	3.14E-08	TSKU	tsukushi, sr protein_co	11	76782251	76798154	1	q13.5
ENSG00000126822	-0.953	-1.9359	1.05E-06	4.37E-06	PLEKHG3	pleckstrin t protein_co	14	64704102	64750247	1	q23.3
ENSG00000076984	-0.9531	-1.9361	2.60E-13	1.93E-12	MAP2K7	mitogen-ac protein_co	19	7903843	7914478	1	p13.2
ENSG00000157693	-0.9532	-1.9362	5.08E-10	2.86E-09	C9orf91	chromoson protein_co	9	1.15E+08	1.15E+08	1	q32
ENSG00000132612	-0.9534	-1.9364	5.10E-08	2.41E-07	VPS4A	vacuolus pr protein_co	16	69311356	69326939	1	q22.1
ENSG00000172986	-0.9534	-1.9365	8.08E-06	3.03E-05	GXYLT2	glucoside x protein_co	3	72888073	72998138	1	p13
ENSG00000172530	-0.9538	-1.937	5.57E-09	2.86E-08	BANP	BTG3 assoc protein_co	16	87949244	88118422	1	q24.2
ENSG00000100304	-0.9541	-1.9373	4.96E-11	3.05E-10	TLL12	tubulin tyrc protein_co	22	43166622	43187133	-1	q13.2
ENSG00000184640	-0.9546	-1.938	1.74E-10	1.02E-09		09-Sep septin 9 [Sc protein_co	17	77280569	77500596	1	q25.3
ENSG00000233369	-0.9548	-1.9383	1.21E-09	6.61E-09	RP11-396K3.1	transcribed	7	73154938	73207283	1	q11.23
ENSG00000106211	-0.9553	-1.939	1.55E-07	6.96E-07	HSPB1	heat shock protein_co	7	76302544	76304295	1	q11.23
ENSG00000049540	-0.9555	-1.9392	0.0142	0.0323	ELN	elastin [So protein_co	7	74027789	74069907	1	q11.23
ENSG00000107104	-0.9562	-1.9402	4.82E-19	5.75E-18	KANK1	KN motif ar protein_co	9	470291	746106	1	p24.3
ENSG00000113615	-0.9569	-1.9411	7.03E-16	6.45E-15	SEC24A	SEC24 fami protein_co	5	1.35E+08	1.35E+08	1	q31.1
ENSG00000143368	-0.9569	-1.9411	9.01E-10	4.96E-09	SF3B4	splicing fac protein_co	1	1.5E+08	1.5E+08	-1	q21.2
ENSG00000084764	-0.9584	-1.9432	0.0006	0.0016	MAPRE3	microtubul protein_co	2	26970612	27027196	1	p23.3
ENSG00000125505	-0.9588	-1.9437	1.36E-07	6.17E-07	MBOAT7	membrane protein_co	19	54173412	54189882	-1	q13.42
ENSG00000113441	-0.9589	-1.9438	1.68E-31	6.14E-30	LNPEP	leucyl/cysti protein_co	5	96935394	97037515	1	q15
ENSG00000092871	-0.9589	-1.9438	4.21E-08	2.00E-07	RFFL	ring finger ; protein_co	17	35005990	35089319	-1	q12
ENSG00000161692	-0.9591	-1.944	0.0039	0.01	DBF4B	DBF4 zinc f protein_co	17	44708608	44752264	1	q21.31
ENSG00000185129	-0.9592	-1.9443	9.34E-18	1.00E-16	PURA	purine-rich protein_co	5	1.4E+08	1.4E+08	1	q31.3
ENSG00000139182	-0.9596	-1.9447	2.36E-06	9.40E-06	CLSTN3	calsyntenin protein_co	12	7129698	7158945	1	p13.31
ENSG00000135722	-0.9604	-1.9458	0.0003	0.0008	FBXL8	F-box and l protein_co	16	67159931	67164570	1	q22.1
ENSG00000113163	-0.9608	-1.9464	1.70E-25	3.58E-24	COL4A3BP	collagen, ty protein_co	5	75368486	75512138	-1	q13.3
ENSG00000169992	-0.961	-1.9466	4.32E-07	1.86E-06	NLGN2	neuroligin ; protein_co	17	7404874	7419860	1	p13.1
ENSG00000188505	-0.9613	-1.947	6.84E-05	0.0002	NCCRP1	non-specifi protein_co	19	39196961	39201884	1	q13.2

ENSG00000112308	-0.9616	-1.9475	3.40E-11	2.12E-10	C6orf62	chromosom protein_co	6	24704861	24720836	-1	p22.3
ENSG00000133612	-0.9619	-1.9479	2.49E-22	3.94E-21	AGAP3	ArfGAP wit protein_co	7	1.51E+08	1.51E+08	1	q36.1
ENSG00000167202	-0.962	-1.948	5.06E-10	2.85E-09	TBC1D2B	TBC1 doma protein_co	15	77984036	78077724	-1	q25.1
ENSG00000126803	-0.9622	-1.9483	0.0002	0.0007	HSPA2	heat shock protein_co	14	64535905	64546173	1	q23.3
ENSG00000182795	-0.9623	-1.9484	4.78E-15	4.09E-14	C1orf116	chromosom protein_co	1	2.07E+08	2.07E+08	-1	q32.1
ENSG00000180747	-0.9626	-1.9488	0.0082	0.0197	SMG1P3	SMG1 pseu transcribed	16	21446683	21520444	-1	p12.2
ENSG00000119574	-0.9627	-1.9489	1.16E-08	5.78E-08	ZBTB45	zinc finger protein_co	19	58513530	58538911	-1	q13.43
ENSG00000125107	-0.9628	-1.9492	3.85E-16	3.63E-15	CNOT1	CCR4-NOT protein_co	16	58519951	58629886	-1	q21
ENSG00000264522	-0.9635	-1.9501	5.29E-28	1.39E-26	OTUD7B	OTU deubiq protein_co	1	1.5E+08	1.5E+08	-1	q21.2
ENSG00000107954	-0.9637	-1.9503	0.0099	0.0234	NEURL1	neuralized protein_co	10	1.03E+08	1.04E+08	1	q24.33
ENSG00000167114	-0.9639	-1.9506	9.96E-09	4.99E-08	SLC27A4	solute carri protein_co	9	1.28E+08	1.28E+08	1	q34.11
ENSG00000103335	-0.9642	-1.951	0.0044	0.0113	PIEZO1	piezo-type protein_co	16	88715343	88785211	-1	q24.3
ENSG00000077454	-0.9644	-1.9513	5.74E-07	2.44E-06	LRCH4	leucine-ric protein_co	7	1.01E+08	1.01E+08	-1	q22.1
ENSG00000204310	-0.965	-1.952	9.96E-20	1.26E-18	AGPAT1	1-acylglyce protein_co	6	32168212	32178096	-1	p21.32
ENSG00000107185	-0.9657	-1.9531	5.01E-12	3.36E-11	RGP1	RGP1 retro protein_co	9	35749287	35758575	1	p13.3
ENSG00000112320	-0.9658	-1.9532	7.99E-05	0.0003	SOBP	sine oculis protein_co	6	1.07E+08	1.08E+08	1	q21
ENSG00000108219	-0.9659	-1.9533	7.09E-15	5.99E-14	TSPAN14	tetraspanin protein_co	10	80454166	80533123	1	q23.1
ENSG00000204282	-0.9662	-1.9537	0.0001	0.0004	TNRC6C-AS1	TNRC6C an processed_	17	78107398	78111799	-1	q25.3
ENSG00000181035	-0.967	-1.9548	2.65E-08	1.28E-07	SLC25A42	solute carri protein_co	19	19063999	19112888	1	p13.11
ENSG00000196937	-0.9672	-1.955	6.68E-08	3.11E-07	FAM3C	family with protein_co	7	1.21E+08	1.21E+08	-1	q31.31
ENSG00000130714	-0.9674	-1.9553	9.35E-14	7.21E-13	POMT1	protein-O-r protein_co	9	1.32E+08	1.32E+08	1	q34.13
ENSG00000167395	-0.9674	-1.9553	9.85E-11	5.91E-10	ZNF646	zinc finger protein_co	16	31074422	31084196	1	p11.2
ENSG00000151893	-0.9687	-1.9571	1.60E-15	1.41E-14	CACUL1	CDK2-assoc protein_co	10	1.19E+08	1.19E+08	-1	q26.11
ENSG00000104728	-0.9687	-1.9571	9.71E-07	4.05E-06	ARHGEF10	Rho guanin protein_co	8	1823976	1958641	1	p23.3
ENSG00000073578	-0.9696	-1.9583	7.92E-11	4.80E-10	SDHA	succinate d protein_co	5	218241	256700	1	p15.33
ENSG00000230724	-0.9696	-1.9583	0.004	0.0103	LINC01001	long interg lincRNA	11	127204	139612	-1	p15.5
ENSG00000159788	-0.9702	-1.9591	6.45E-16	5.95E-15	RGS12	regulator o protein_co	4	3293028	3439913	1	p16.3
ENSG00000130363	-0.9704	-1.9594	0.0003	0.0009	RSPH3	radial spok protein_co	6	1.59E+08	1.59E+08	-1	q25.3
ENSG00000103067	-0.9706	-1.9597	5.66E-16	5.24E-15	ESRP2	epithelial s protein_co	16	68229111	68238102	-1	q22.1
ENSG00000269570	-0.9714	-1.9608	0.0189	0.042	CMB9-55A18.1	antisense	11	58611119	58612642	-1	q12.1
ENSG00000167676	-0.9716	-1.961	0.0092	0.022	PLIN4	perilipin 4 protein_co	19	4502192	4517704	-1	p13.3
ENSG00000135723	-0.9724	-1.9621	1.80E-08	8.85E-08	FHOD1	formin hon protein_co	16	67229387	67247658	-1	q22.1
ENSG00000184702	-0.9726	-1.9624	0.0055	0.0137		05-Sep septin 5 [Sc protein_co	22	19714464	19724772	1	q11.21
ENSG00000128908	-0.9727	-1.9625	3.69E-13	2.72E-12	INO80	INO80 com protein_co	15	40978880	41116354	-1	q15.1
ENSG00000130449	-0.9727	-1.9625	4.18E-09	2.17E-08	ZSWIM6	zinc finger, protein_co	5	61332273	61546170	1	q12.1
ENSG00000196581	-0.9727	-1.9626	0.0002	0.0005	AJAP1	adherens ju protein_co	1	4654732	4792534	1	p36.32
ENSG00000167987	-0.9729	-1.9628	2.62E-12	1.79E-11	VPS37C	vacuolar pr protein_co	11	61130256	61161617	-1	q12.2
ENSG00000110171	-0.9729	-1.9628	7.03E-08	3.27E-07	TRIM3	tripartite r protein_co	11	6448613	6474459	-1	p15.4
ENSG00000144283	-0.9743	-1.9647	6.30E-22	9.66E-21	PKP4	plakophilin protein_co	2	1.58E+08	1.59E+08	1	q24.1
ENSG00000205664	-0.9748	-1.9654	0.0001	0.0004	RP11-706O15.1	lincRNA X		3817528	3843857	-1	p22.33
ENSG00000104824	-0.9749	-1.9655	1.86E-24	3.54E-23	HNRNPL	heterogene protein_co	19	38836388	38852347	-1	q13.2

ENSG00000137404	-0.9759	-1.9669	0.0002	0.0007	NRM	nurim (nuc protein_co	6	30688047	30691420	-1	p21.33
ENSG00000157214	-0.9762	-1.9672	1.42E-07	6.40E-07	STEAP2	STEAP fami protein_co	7	90167590	90238137	1	q21.13
ENSG00000189079	-0.9763	-1.9673	5.07E-18	5.54E-17	ARID2	AT rich inte protein_co	12	45729665	45908040	1	q12
ENSG00000162736	-0.9765	-1.9677	5.36E-15	4.57E-14	NCSTN	nicastrin [S protein_co	1	1.6E+08	1.6E+08	1	q23.2
ENSG00000030582	-0.9767	-1.9679	5.47E-07	2.33E-06	GRN	granulin [S protein_co	17	44345246	44353102	1	q21.31
ENSG00000118257	-0.9767	-1.968	4.32E-08	2.05E-07	NRP2	neuropilin  protein_co	2	2.06E+08	2.06E+08	1	q33.3
ENSG00000138081	-0.9774	-1.9689	3.76E-18	4.16E-17	FBXO11	F-box prote protein_co	2	47789316	47905793	-1	p16.3
ENSG00000156299	-0.9774	-1.9689	1.89E-05	6.78E-05	TIAM1	T-cell lymph protein_co	21	31118416	31559977	-1	q22.11
ENSG00000142039	-0.9777	-1.9693	2.19E-14	1.79E-13	CCDC97	coiled-coil  protein_co	19	41310189	41324883	1	q13.2
ENSG00000139289	-0.9777	-1.9693	0.0003	0.0008	PHLDA1	pleckstrin  protein_co	12	76025447	76033932	-1	q21.2
ENSG00000088256	-0.9778	-1.9695	2.04E-20	2.73E-19	GNA11	guanine nu protein_co	19	3094410	3124004	1	p13.3
ENSG00000051382	-0.9781	-1.9699	5.58E-16	5.18E-15	PIK3CB	phosphatid protein_co	3	1.39E+08	1.39E+08	-1	q22.3
ENSG00000204256	-0.9788	-1.9708	8.35E-22	1.27E-20	BRD2	bromodom protein_co	6	32968660	32981505	1	p21.32
ENSG00000141959	-0.979	-1.9711	3.41E-15	2.94E-14	PFKL	phosphofru protein_co	21	44300051	44327376	1	q22.3
ENSG00000159314	-0.9794	-1.9717	7.50E-14	5.84E-13	ARHGAP27	Rho GTPase protein_co	17	45393902	45434421	-1	q21.31
ENSG00000100376	-0.9796	-1.9719	3.49E-10	2.00E-09	FAM118A	family with protein_co	22	45308968	45341955	1	q13.31
ENSG00000105983	-0.98	-1.9725	6.16E-24	1.12E-22	LMBR1	limb develc protein_co	7	1.57E+08	1.57E+08	-1	q36.3
ENSG00000099797	-0.9803	-1.9729	4.26E-08	2.02E-07	TECR	trans-2,3-e protein_co	19	14517085	14565980	1	p13.12
ENSG00000188064	-0.9806	-1.9733	1.12E-14	9.32E-14	WNT7B	wingless-ty protein_co	22	45920362	45977129	-1	q13.31
ENSG00000143867	-0.9807	-1.9735	0.001	0.0027	OSR1	odd-skippe protein_co	2	19351485	19358653	-1	p24.1
ENSG00000267767	-0.9812	-1.974	0.0208	0.0458	CTC-523E23.4	lincRNA	19	34788582	34832869	-1	q13.11
ENSG00000011275	-0.9817	-1.9748	1.85E-20	2.48E-19	RNF216	ring finger  protein_co	7	5620047	5781739	-1	q22.1
ENSG00000160785	-0.9818	-1.9749	1.46E-13	1.11E-12	SLC25A44	solute carri protein_co	1	1.56E+08	1.56E+08	1	q22
ENSG00000185800	-0.9819	-1.9751	3.14E-09	1.66E-08	DMWD	dystrophia protein_co	19	45782947	45792802	-1	q13.32
ENSG00000165527	-0.9821	-1.9754	7.02E-29	2.02E-27	ARF6	ADP-ribosy protein_co	14	49893092	49897054	1	q21.3
ENSG00000186834	-0.9822	-1.9755	1.02E-18	1.18E-17	HEXIM1	hexamethy protein_co	17	45148502	45152101	1	q21.31
ENSG00000138767	-0.9823	-1.9756	4.04E-23	6.79E-22	CNOT6L	CCR4-NOT  protein_co	4	77713387	77819615	-1	q21.1
ENSG00000277443	-0.9831	-1.9767	2.59E-06	1.03E-05	MARCKS	myristoylat protein_co	6	1.14E+08	1.14E+08	1	q21
ENSG00000006453	-0.9831	-1.9768	1.79E-08	8.80E-08	BAIAP2L1	BAI1-associ protein_co	7	98291651	98401068	-1	q22.1
ENSG00000127526	-0.9842	-1.9783	3.58E-14	2.86E-13	SLC35E1	solute carri protein_co	19	16549831	16572382	-1	p13.11
ENSG00000014216	-0.9844	-1.9785	4.67E-16	4.36E-15	CAPN1	calpain 1, ( protein_co	11	65180566	65212006	1	q13.1
ENSG00000197381	-0.9846	-1.9788	0.0005	0.0014	ADARB1	adenosine  protein_co	21	45073853	45226560	1	q22.3
ENSG00000182318	-0.9856	-1.9801	1.77E-05	6.36E-05	ZSCAN22	zinc finger  protein_co	19	58327019	58342332	1	q13.43
ENSG00000096060	-0.9859	-1.9805	6.61E-13	4.78E-12	FKBP5	FK506 bind protein_co	6	35573585	35728583	-1	p21.31
ENSG00000103168	-0.9862	-1.981	8.17E-10	4.52E-09	TAF1C	TATA box b protein_co	16	84177847	84187070	-1	q24.1
ENSG00000081026	-0.9867	-1.9817	7.73E-11	4.69E-10	MAGI3	membrane  protein_co	1	1.13E+08	1.14E+08	1	p13.2
ENSG00000138061	-0.987	-1.9821	3.76E-05	0.0001	CYP1B1	cytochrom protein_co	2	38066973	38109902	-1	p22.2
ENSG00000165406	-0.9877	-1.983	1.96E-14	1.60E-13	MARCH8	membrane  protein_co	10	45454585	45594906	-1	q11.22
ENSG00000087338	-0.9879	-1.9833	3.18E-25	6.56E-24	GMCL1	germ cell-l protein_co	2	69829642	69881396	1	p13.3
ENSG00000135372	-0.9879	-1.9833	5.38E-14	4.24E-13	NAT10	N-acetyltra protein_co	11	34105602	34147670	1	p13
ENSG00000005884	-0.9883	-1.9839	2.89E-05	0.0001	ITGA3	integrin, al protein_co	17	50055968	50090481	1	q21.33

ENSG0000070882	-0.9888	-1.9845	1.17E-11	7.58E-11	OSBPL3	oxysterol b protein_co	7	24796539	24981634	-1	p15.3
ENSG00000196459	-0.989	-1.9848	1.33E-13	1.01E-12	TRAPPC2	trafficking i protein_co X		13712244	13734635	-1	p22.2
ENSG00000111962	-0.989	-1.9848	3.75E-08	1.79E-07	UST	uronyl-2-su protein_co	6	1.49E+08	1.49E+08	1	q25.1
ENSG00000135547	-0.9891	-1.9849	0.0002	0.0007	HEY2	hes-related protein_co	6	1.26E+08	1.26E+08	1	q22.31
ENSG00000122741	-0.9892	-1.9851	3.01E-32	1.17E-30	DCAF10	DDB1 and (protein_co	9	37800502	37867666	1	p13.2
ENSG00000260920	-0.9892	-1.9851	0.0024	0.0064	RP1-228H13.5	sense_over	1	40464319	40466767	1	p34.2
ENSG00000101224	-0.9899	-1.986	2.28E-06	9.12E-06	CDC25B	cell divisior protein_co	20	3786772	3806121	1	p13
ENSG00000197355	-0.9899	-1.9861	5.06E-05	0.0002	UAP1L1	UDP-N-ace protein_co	9	1.37E+08	1.37E+08	1	q34.3
ENSG00000204560	-0.99	-1.9862	1.78E-22	2.85E-21	DHX16	DEAH (Asp- protein_co	6	30653119	30673037	-1	p21.33
ENSG00000137872	-0.9901	-1.9863	0.0012	0.0033	SEMA6D	sema doma protein_co	15	47184101	47774223	1	q21.1
ENSG00000177000	-0.9903	-1.9867	8.68E-16	7.90E-15	MTHFR	methylene protein_co	1	11785723	11806920	-1	p36.22
ENSG00000260793	-0.9904	-1.9867	0.0051	0.0127	RP5-882C2.2	antisense	17	44221401	44223710	1	q21.31
ENSG00000215154	-0.9907	-1.9871	0.0002	0.0007	AC141586.5	transcribed	16	2603350	2630494	1	p13.3
ENSG00000158470	-0.991	-1.9875	6.73E-08	3.13E-07	B4GALT5	UDP-Gal:be protein_co	20	49632945	49713878	-1	q13.13
ENSG00000198142	-0.9911	-1.9878	1.25E-07	5.71E-07	SOWAHC	sosondowa protein_co	2	1.1E+08	1.1E+08	1	q13
ENSG00000101161	-0.9912	-1.9879	6.22E-13	4.51E-12	PRPF6	pre-mRNA protein_co	20	63981135	64033100	1	q13.33
ENSG00000135253	-0.9915	-1.9883	0.0005	0.0014	KCP	kielin/chori protein_co	7	1.29E+08	1.29E+08	-1	q32.1
ENSG00000213977	-0.9922	-1.9892	3.67E-07	1.59E-06	TAX1BP3	Tax1 (hum protein_co	17	3662896	3668682	-1	p13.2
ENSG00000164050	-0.9925	-1.9896	2.16E-18	2.43E-17	PLXNB1	plexin B1 [ protein_co	3	48403854	48430051	-1	p21.31
ENSG00000126391	-0.9929	-1.9902	9.04E-15	7.57E-14	FRMD8	FERM doma protein_co	11	65386599	65413525	1	q13.1
ENSG00000239521	-0.993	-1.9903	5.24E-08	2.47E-07	GATS	GATS, storr protein_co	7	1E+08	1E+08	-1	q22.1
ENSG00000063761	-0.9932	-1.9905	6.61E-06	2.50E-05	ADCK1	aarF doma protein_co	14	77800083	77935012	1	q24.3
ENSG00000172292	-0.9935	-1.991	4.62E-15	3.96E-14	CERS6	ceramide s protein_co	2	1.68E+08	1.69E+08	1	q24.3
ENSG00000188522	-0.9938	-1.9915	3.55E-05	0.0001	FAM83G	family with protein_co	17	18968789	19004804	-1	p11.2
ENSG00000123836	-0.9942	-1.992	5.65E-25	1.13E-23	PFKFB2	6-phosphoi protein_co	1	2.07E+08	2.07E+08	1	q32.1
ENSG00000221823	-0.9946	-1.9925	3.50E-11	2.18E-10	PPP3R1	protein ph protein_co	2	68178857	68256237	-1	p14
ENSG00000144642	-0.9949	-1.9929	1.37E-08	6.76E-08	RBMS3	RNA bindin protein_co	3	29280982	30010391	1	p24.1
ENSG00000033327	-0.995	-1.9931	3.49E-05	0.0001	GAB2	GRB2-assoc protein_co	11	78215297	78418348	-1	q14.1
ENSG00000091656	-0.9953	-1.9935	0.0141	0.0323	ZFHX4	zinc finger l protein_co	8	76681219	76867285	1	q21.13
ENSG00000167074	-0.9956	-1.9939	2.60E-10	1.50E-09	TEF	thyrotroph protein_co	22	41367333	41399326	1	q13.2
ENSG00000100784	-0.9961	-1.9947	3.81E-06	1.48E-05	RPS6KA5	ribosomal i protein_co	14	90847862	91060636	-1	q32.11
ENSG00000183044	-0.9963	-1.9949	3.56E-06	1.39E-05	ABAT	4-aminobu protein_co	16	8674565	8784575	1	p13.2
ENSG00000158457	-0.9965	-1.9952	0.0012	0.0033	TSPAN33	tetraspanir protein_co	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000259956	-0.997	-1.9958	1.36E-16	1.33E-15	RBM15B	RNA bindin protein_co	3	51391268	51397908	1	p21.2
ENSG00000270081	-0.9976	-1.9967	1.39E-07	6.28E-07	RP5-935K16.1	lincRNA	2	1.28E+08	1.28E+08	-1	q14.3
ENSG00000008323	-0.9977	-1.9968	1.85E-05	6.66E-05	PLEKHG6	pleckstrin f protein_co	12	6310436	6328506	1	p13.31
ENSG00000175390	-0.9988	-1.9983	7.34E-15	6.20E-14	EIF3F	eukaryotic protein_co	11	7970251	8001862	1	p15.4
ENSG00000089775	-0.9987	-1.9983	1.62E-10	9.55E-10	ZBTB25	zinc finger i protein_co	14	64449106	64505213	-1	q23.3
ENSG00000010017	-0.9989	-1.9985	3.79E-19	4.57E-18	RANBP9	RAN bindin protein_co	6	13621498	13711564	-1	p23
ENSG00000090924	-0.9993	-1.999	2.21E-05	7.87E-05	PLEKHG2	pleckstrin f protein_co	19	39412585	39428415	1	q13.2
ENSG00000101216	-1.0001	-2.0001	2.40E-10	1.39E-09	GMEB2	glucocortic protein_co	20	63587602	63627041	-1	q13.33

ENSG00000185924	-1.0001	-2.0001	0.005	0.0125	RTN4RL1	reticulon 4 protein_co	17	1934677	2025345	-1	p13.3
ENSG00000158856	-1.0003	-2.0004	6.72E-08	3.13E-07	DMTN	dematin ac protein_co	8	22048995	22082527	1	p21.3
ENSG00000086062	-1.0003	-2.0005	1.20E-07	5.48E-07	B4GALT1	UDP-Gal:βe protein_co	9	33104082	33167356	-1	p21.1
ENSG00000167258	-1.0006	-2.0009	1.26E-19	1.58E-18	CDK12	cyclin-depe protein_co	17	39461511	39564907	1	q12
ENSG00000037474	-1.0011	-2.0016	3.92E-20	5.12E-19	NSUN2	NOP2/Sun protein_co	5	6599239	6633291	-1	p15.31
ENSG00000185122	-1.0013	-2.0017	2.93E-11	1.84E-10	HSF1	heat shock protein_co	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000116903	-1.0017	-2.0024	1.29E-16	1.26E-15	EXOC8	exocyst cor protein_co	1	2.31E+08	2.31E+08	-1	q42.2
ENSG00000140548	-1.0019	-2.0026	7.29E-08	3.38E-07	ZNF710	zinc finger protein_co	15	90001392	90082206	1	q26.1
ENSG00000116260	-1.0022	-2.0031	3.83E-06	1.49E-05	QSOX1	quiescin Q4 protein_co	1	1.8E+08	1.8E+08	1	q25.2
ENSG00000172992	-1.0027	-2.0038	1.72E-13	1.30E-12	DCAKD	dephospho protein_co	17	45023340	45061109	-1	q21.31
ENSG00000141646	-1.0028	-2.0039	6.15E-24	1.12E-22	SMAD4	SMAD fami protein_co	18	51028394	51085045	1	q21.2
ENSG00000125650	-1.0029	-2.004	0.0003	0.0009	PSPN	persephin protein_co	19	6375148	6379058	-1	p13.3
ENSG00000165521	-1.0034	-2.0048	0.0002	0.0005	EML5	echinoderm protein_co	14	88612431	88792752	-1	q31.3
ENSG00000251615	-1.0035	-2.0049	7.27E-05	0.0002	RP11-774O3.3	lincRNA	4	8355090	8358338	-1	p16.1
ENSG00000184708	-1.0036	-2.005	1.50E-13	1.14E-12	EIF4ENIF1	eukaryotic protein_co	22	31436977	31496108	-1	q12.2
ENSG00000153707	-1.0037	-2.0051	0.0001	0.0003	PTPRD	protein tyri protein_co	9	8314246	10612723	-1	p23
ENSG00000158615	-1.0043	-2.006	3.07E-23	5.24E-22	PPP1R15B	protein phc protein_co	1	2.04E+08	2.04E+08	-1	q32.1
ENSG00000107341	-1.0047	-2.0065	3.73E-14	2.98E-13	UBE2R2	ubiquitin-c protein_co	9	33817567	33920404	1	p13.3
ENSG00000121413	-1.0048	-2.0067	1.66E-06	6.74E-06	ZSCAN18	zinc finger protein_co	19	58083838	58118427	-1	q13.43
ENSG00000129219	-1.0056	-2.0078	5.02E-18	5.49E-17	PLD2	phospholip protein_co	17	4807096	4823434	1	p13.2
ENSG00000178252	-1.006	-2.0083	3.61E-13	2.66E-12	WDR6	WD repeat protein_co	3	49007062	49015953	1	p21.31
ENSG00000147100	-1.0062	-2.0086	7.45E-07	3.14E-06	SLC16A2	solute carri protein_co X		74421461	74533917	1	q13.2
ENSG00000146830	-1.0063	-2.0087	1.20E-14	9.95E-14	GIGYF1	GRB10 inte protein_co	7	1.01E+08	1.01E+08	-1	q22.1
ENSG00000071553	-1.0062	-2.0087	3.39E-11	2.11E-10	ATP6AP1	ATPase, H+ protein_co X		1.54E+08	1.54E+08	1	q28
ENSG00000128191	-1.0066	-2.0092	1.76E-19	2.17E-18	DGCR8	DGCR8 mic protein_co	22	20080232	20111877	1	q11.21
ENSG00000166398	-1.0069	-2.0095	1.84E-13	1.39E-12	KIAA0355	KIAA0355 [ protein_co	19	34254537	34355586	1	q13.11
ENSG00000054219	-1.0071	-2.0098	4.29E-10	2.44E-09	LY75	lymphocyte protein_co	2	1.6E+08	1.6E+08	-1	q24.2
ENSG00000135392	-1.0073	-2.0101	1.84E-17	1.93E-16	DNAJC14	DnaJ (Hsp4 protein_co	12	55820960	55830824	-1	q13.2
ENSG00000110042	-1.0078	-2.0109	4.08E-09	2.12E-08	DTX4	deltex 4, E3 protein_co	11	59171430	59208587	1	q12.1
ENSG00000103507	-1.0084	-2.0117	6.26E-11	3.82E-10	BCKDK	branched c protein_co	16	31106107	31112791	1	p11.2
ENSG00000154930	-1.0084	-2.0117	2.05E-09	1.10E-08	ACSS1	acyl-CoA sy protein_co	20	25006230	25058980	-1	p11.21
ENSG00000185024	-1.0085	-2.0119	2.39E-13	1.78E-12	BRF1	BRF1, RNA protein_co	14	1.05E+08	1.05E+08	-1	q32.33
ENSG00000182261	-1.0086	-2.012	0.0144	0.0328	NLRP10	NLR family, protein_co	11	7959424	7965426	-1	p15.4
ENSG00000103495	-1.0089	-2.0123	3.22E-21	4.68E-20	MAZ	MYC-associ protein_co	16	29806106	29812328	1	p11.2
ENSG00000173905	-1.0088	-2.0123	4.68E-09	2.42E-08	GOLIM4	golgi integr protein_co	3	1.68E+08	1.68E+08	-1	q26.2
ENSG00000068078	-1.009	-2.0124	0.0002	0.0005	FGFR3	fibroblast g protein_co	4	1793307	1808872	1	p16.3
ENSG00000225302	-1.0093	-2.013	0.0001	0.0004	RP11-539I5.1	antisense	10	1.17E+08	1.17E+08	-1	q25.3
ENSG00000232160	-1.0095	-2.0133	0.0068	0.0166	RAP2C-AS1	RAP2C anti antisense X		1.32E+08	1.32E+08	1	q26.2
ENSG00000166925	-1.0097	-2.0135	1.50E-21	2.23E-20	TSC22D4	TSC22 dom protein_co	7	1E+08	1E+08	-1	q22.1
ENSG00000260577	-1.0098	-2.0136	0.015	0.0342	RP11-615I2.2	antisense	16	68644248	68646168	-1	q22.1
ENSG00000173473	-1.01	-2.0139	7.10E-18	7.67E-17	SMARCC1	SWI/SNF re protein_co	3	47585272	47782106	-1	p21.31



ENSG00000235423	-1.0101	-2.0141	2.65E-05	9.33E-05	RP11-282O18.3	antisense	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000162512	-1.0103	-2.0143	8.27E-05	0.0003	SDC3	syndecan 3 protein_co	1	30869467	30908761	-1	p35.2
ENSG00000196369	-1.0104	-2.0145	3.20E-09	1.69E-08	SRGAP2B	SLIT-ROBO protein_co	1	1.45E+08	1.45E+08	-1	q21.1
ENSG00000197965	-1.0107	-2.0149	1.69E-07	7.59E-07	MPZL1	myelin protprotein_co	1	1.68E+08	1.68E+08	1	q24.2
ENSG00000165458	-1.0108	-2.0151	1.99E-11	1.26E-10	INPPL1	inositol pol protein_co	11	72223701	72239105	1	q13.4
ENSG00000066739	-1.0111	-2.0155	1.15E-26	2.73E-25	ATG2B	autophagy protein_co	14	96281258	96363870	-1	q32.2
ENSG00000151474	-1.0115	-2.016	2.18E-06	8.74E-06	FRMD4A	FERM dom. protein_co	10	13643706	14462142	-1	p13
ENSG00000172059	-1.0117	-2.0163	2.11E-06	8.47E-06	KLF11	Kruppel-like protein_co	2	10042849	10054836	1	p25.1
ENSG00000196187	-1.0118	-2.0164	3.13E-10	1.79E-09	TMEM63A	transmemt protein_co	1	2.26E+08	2.26E+08	-1	q42.12
ENSG00000196323	-1.0119	-2.0166	7.74E-13	5.55E-12	ZBTB44	zinc finger protein_co	11	1.3E+08	1.3E+08	-1	q24.3
ENSG00000188191	-1.012	-2.0167	2.16E-05	7.69E-05	PRKAR1B	protein kin. protein_co	7	549197	727650	-1	p22.3
ENSG00000101695	-1.0122	-2.0169	2.11E-05	7.55E-05	RNF125	ring finger protein_co	18	32018372	32073213	1	q12.1
ENSG00000253731	-1.0122	-2.0169	0.0004	0.0012	PCDHGA6	protocadhe protein_co	5	1.41E+08	1.42E+08	1	q31.3
ENSG00000198598	-1.0123	-2.0171	0.0048	0.0122	MMP17	matrix met protein_co	12	1.32E+08	1.32E+08	1	q24.33
ENSG00000062485	-1.0126	-2.0176	7.60E-21	1.06E-19	CS	citrate synt protein_co	12	56271699	56300392	-1	q13.3
ENSG00000165661	-1.0128	-2.0178	2.50E-11	1.58E-10	QSOX2	quiescin Qf protein_co	9	1.36E+08	1.36E+08	-1	q34.3
ENSG00000152223	-1.0132	-2.0184	1.02E-16	1.01E-15	EPG5	ectopic P-g protein_co	18	45847609	45967274	-1	q21.1
ENSG00000188112	-1.0134	-2.0187	1.02E-08	5.08E-08	C6orf132	chromoson protein_co	6	42101118	42142619	-1	p21.1
ENSG00000163637	-1.0138	-2.0193	3.46E-10	1.98E-09	PRICKLE2	prickle hon protein_co	3	64093867	64445476	-1	p14.1
ENSG00000267904	-1.0139	-2.0194	0.0007	0.002	CTC-429P9.5	sense_intrc	19	16639967	16640668	-1	p13.11
ENSG00000132970	-1.0149	-2.0208	4.05E-08	1.93E-07	WASF3	WAS protei protein_co	13	26557703	26688948	1	q12.13
ENSG00000186591	-1.0156	-2.0217	4.45E-14	3.52E-13	UBE2H	ubiquitin-c protein_co	7	1.3E+08	1.3E+08	-1	q32.2
ENSG00000152520	-1.0157	-2.0218	3.30E-23	5.62E-22	PAN3	PAN3 poly( protein_co	13	28138506	28295335	1	q12.2
ENSG00000134463	-1.0156	-2.0218	0.0037	0.0094	ECHDC3	enoyl CoA I protein_co	10	11742366	11764070	1	p14
ENSG00000106004	-1.0159	-2.0222	0.0004	0.0012	HOXA5	homeobox protein_co	7	27141052	27143668	-1	p15.2
ENSG00000141574	-1.0163	-2.0227	7.90E-05	0.0003	SECTM1	secreted ar protein_co	17	82321024	82334074	-1	q25.3
ENSG00000142675	-1.0165	-2.023	1.91E-14	1.56E-13	CNKSR1	connector ( protein_co	1	26177403	26189886	1	p36.11
ENSG00000272345	-1.0165	-2.023	0.0087	0.0208	RP1-30M3.5	antisense	6	24700907	24701793	-1	p22.3
ENSG00000166965	-1.0169	-2.0236	1.57E-06	6.38E-06	RCCD1	RCC1 doma protein_co	15	90954870	90963125	1	q26.1
ENSG00000008853	-1.0173	-2.0241	6.53E-05	0.0002	RHOBTB2	Rho-relater protein_co	8	22987417	23020199	1	p21.3
ENSG00000253106	-1.0177	-2.0246	0.0066	0.0162	RP11-158K1.3	antisense	8	1.24E+08	1.24E+08	1	q24.13
ENSG00000142611	-1.0179	-2.025	0.0184	0.041	PRDM16	PR domain protein_co	1	3069168	3438621	1	p36.32
ENSG00000141858	-1.018	-2.0251	2.00E-08	9.76E-08	SAMD1	sterile alph protein_co	19	14087840	14091036	-1	p13.12
ENSG00000197818	-1.0184	-2.0256	3.93E-08	1.87E-07	SLC9A8	solute carri protein_co	20	49812713	49892242	1	q13.13
ENSG00000132740	-1.0184	-2.0257	7.84E-09	3.96E-08	IGHMBP2	immunogl protein_co	11	68903842	68940602	1	q13.3
ENSG00000171456	-1.0186	-2.0259	4.81E-25	9.71E-24	ASXL1	additional s protein_co	20	32358344	32439319	1	q11.21
ENSG00000104774	-1.0186	-2.026	3.39E-12	2.30E-11	MAN2B1	mannosida protein_co	19	12646511	12666742	-1	p13.13
ENSG00000135956	-1.0192	-2.0268	1.93E-20	2.58E-19	TMEM127	transmemt protein_co	2	96248516	96265994	-1	q11.2
ENSG00000133943	-1.0193	-2.0269	2.18E-13	1.63E-12	C14orf159	chromoson protein_co	14	91060333	91225632	1	q32.11
ENSG00000129657	-1.0199	-2.0278	2.72E-16	2.60E-15	SEC14L1	SEC14-like protein_co	17	77086716	77217101	1	q25.2
ENSG00000065054	-1.02	-2.0279	1.71E-12	1.19E-11	SLC9A3R2	solute carri protein_co	16	2025356	2039026	1	p13.3



ENSG00000129911	-1.0201	-2.028	7.56E-08	3.51E-07	KLF16	Kruppel-like protein_co	19	1852399	1863568	-1	p13.3
ENSG00000127863	-1.0203	-2.0284	0.0217	0.0475	TNFRSF19	tumor necr protein_co	13	23570370	23676104	1	q12.12
ENSG00000243244	-1.0205	-2.0286	0.0004	0.0013	STON1	stonin 1 [Sc protein_co	2	48529383	48598513	1	p16.3
ENSG00000119396	-1.0206	-2.0287	2.33E-20	3.11E-19	RAB14	RAB14, me protein_co	9	1.21E+08	1.21E+08	-1	q33.2
ENSG00000110274	-1.0207	-2.029	4.31E-14	3.42E-13	CEP164	centrosom; protein_co	11	1.17E+08	1.17E+08	1	q23.3
ENSG00000184922	-1.0216	-2.0302	0.0064	0.0159	FMNL1	formin-like protein_co	17	45221444	45247320	1	q21.31
ENSG00000205937	-1.0217	-2.0303	9.79E-19	1.14E-17	RNPS1	RNA bindin protein_co	16	2253116	2268412	-1	p13.3
ENSG00000142687	-1.0219	-2.0306	7.72E-12	5.07E-11	KIAA0319L	KIAA0319-l protein_co	1	35433490	35557950	-1	p34.3
ENSG00000149527	-1.0222	-2.031	1.11E-07	5.07E-07	PLCH2	phospholip protein_co	1	2425980	2505530	1	p36.32
ENSG00000166106	-1.0226	-2.0316	5.08E-05	0.0002	ADAMTS15	ADAM met protein_co	11	1.3E+08	1.3E+08	1	q24.3
ENSG00000143443	-1.0229	-2.032	0.0013	0.0036	C1orf56	chromoson protein_co	1	1.51E+08	1.51E+08	1	q21.3
ENSG00000158941	-1.023	-2.0321	1.05E-17	1.12E-16	CCAR2	cell cycle a; protein_co	8	22604632	22621514	1	p21.3
ENSG00000123427	-1.024	-2.0335	1.40E-09	7.58E-09	METTL21B	methyltran protein_co	12	57771492	57782541	1	q14.1
ENSG00000213024	-1.0241	-2.0337	3.13E-17	3.21E-16	NUP62	nucleoporin protein_co	19	49906825	49929763	-1	q13.33
ENSG00000021762	-1.0241	-2.0337	2.00E-11	1.27E-10	OSBPL5	oxysterol b protein_co	11	3087116	3166739	-1	p15.4
ENSG00000126216	-1.0249	-2.0348	5.00E-14	3.95E-13	TUBGCP3	tubulin, ga; protein_co	13	1.12E+08	1.13E+08	-1	q34
ENSG00000224051	-1.0249	-2.0348	1.49E-11	9.56E-11	CPTP	ceramide-1 protein_co	1	1324756	1328897	1	p36.33
ENSG00000198218	-1.025	-2.035	1.12E-25	2.40E-24	QRICH1	glutamine-i protein_co	3	49029707	49094363	-1	p21.31
ENSG00000102349	-1.0251	-2.035	1.61E-05	5.82E-05	KLF8	Kruppel-like protein_co X		56232421	56287889	1	p11.21
ENSG00000067208	-1.0256	-2.0358	5.39E-16	5.01E-15	EVI5	ecotropic v protein_co	1	92508696	92792404	-1	p22.1
ENSG00000130703	-1.0258	-2.036	2.89E-22	4.53E-21	OSBPL2	oxysterol b protein_co	20	62231922	62296213	1	q13.33
ENSG00000198925	-1.0259	-2.0362	8.59E-09	4.32E-08	ATG9A	autophagy protein_co	2	2.19E+08	2.19E+08	-1	q35
ENSG00000120885	-1.0265	-2.037	2.72E-05	9.56E-05	CLU	clusterin [S protein_co	8	27596917	27615031	-1	p21.1
ENSG00000165891	-1.0265	-2.0371	0.0156	0.0354	E2F7	E2F transcr protein_co	12	77021247	77065580	-1	q21.2
ENSG00000137449	-1.0281	-2.0393	8.59E-07	3.60E-06	CPEB2	cytoplasmic protein_co	4	15002674	15070153	1	p15.32
ENSG00000259976	-1.0281	-2.0394	0.0006	0.0018	RP11-553L6.5	lincRNA	3	1.14E+08	1.14E+08	-1	q13.31
ENSG00000117036	-1.0282	-2.0395	2.86E-29	8.51E-28	ETV3	ets variant protein_co	1	1.57E+08	1.57E+08	-1	q23.1
ENSG00000124486	-1.0288	-2.0404	4.52E-32	1.73E-30	USP9X	ubiquitin s; protein_co X		41085635	41236579	1	p11.4
ENSG00000102572	-1.0296	-2.0414	6.18E-26	1.36E-24	STK24	serine/thre protein_co	13	98445185	98577940	-1	q32.2
ENSG00000267534	-1.0296	-2.0414	0.0006	0.0019	S1PR2	sphingosin; protein_co	19	10223844	10231272	-1	p13.2
ENSG00000175592	-1.0297	-2.0416	0.0004	0.0011	FOSL1	FOS-like an protein_co	11	65892049	65900573	-1	q13.1
ENSG00000198286	-1.0298	-2.0417	8.66E-05	0.0003	CARD11	caspase rec protein_co	7	2906141	3043945	-1	p22.2
ENSG00000124613	-1.0299	-2.0419	4.51E-06	1.74E-05	ZNF391	zinc finger   protein_co	6	27374615	27403904	1	p22.1
ENSG00000249863	-1.03	-2.0421	0.0015	0.004	RP11-177C12.1	processed_	4	37868292	37869978	1	p14
ENSG00000112293	-1.03	-2.0421	0.0032	0.0082	GPLD1	glycosylphc protein_co	6	24424565	24495205	-1	p22.3
ENSG00000165905	-1.0302	-2.0423	4.26E-06	1.65E-05	GYLTL1B	glycosyltra; protein_co	11	45921621	45929096	1	p11.2
ENSG00000170037	-1.0303	-2.0424	1.40E-14	1.16E-13	CNTROB	centrobin,   protein_co	17	7932101	7949918	1	p13.1
ENSG00000047056	-1.0311	-2.0436	1.39E-11	8.95E-11	WDR37	WD repeat protein_co	10	1049538	1132297	1	p15.3
ENSG00000130856	-1.0312	-2.0438	8.45E-16	7.70E-15	ZNF236	zinc finger   protein_co	18	76822607	76970727	1	q23
ENSG00000085644	-1.0314	-2.044	1.06E-11	6.90E-11	ZNF213	zinc finger   protein_co	16	3129777	3142805	1	p13.3
ENSG00000005206	-1.0315	-2.0441	1.94E-09	1.04E-08	SPPL2B	signal pept protein_co	19	2328615	2354806	1	p13.3

ENSG00000107815	-1.032	-2.0448	1.19E-10	7.09E-10	C10orf2	chromoson protein_co	10	1.01E+08	1.01E+08	1	q24.31
ENSG00000179604	-1.032	-2.0449	3.59E-26	8.06E-25	CDC42EP4	CDC42 effe protein_co	17	73283624	73312175	-1	q25.1
ENSG00000171056	-1.0321	-2.045	8.81E-05	0.0003	SOX7	SRY (sex de protein_co	8	10723768	10730512	-1	p23.1
ENSG00000125534	-1.0325	-2.0456	1.40E-15	1.24E-14	PPDPF	pancreatic protein_co	20	63520724	63522206	1	q13.33
ENSG00000196363	-1.0339	-2.0476	1.17E-14	9.72E-14	WDR5	WD repeat protein_co	9	1.34E+08	1.34E+08	1	q34.2
ENSG00000134253	-1.0344	-2.0482	9.42E-06	3.50E-05	TRIM45	tripartite r protein_co	1	1.17E+08	1.17E+08	-1	p13.1
ENSG00000127483	-1.0346	-2.0485	1.73E-21	2.56E-20	HP1BP3	heterochro protein_co	1	20742661	20787323	-1	p36.12
ENSG00000164078	-1.0348	-2.0489	9.38E-11	5.64E-10	MST1R	macrophag protein_co	3	49887002	49903873	-1	p21.31
ENSG00000204991	-1.0364	-2.0511	0.0004	0.0011	SPIRE2	spire-type ; protein_co	16	89818179	89871319	1	q24.3
ENSG00000169047	-1.0365	-2.0513	2.39E-11	1.51E-10	IRS1	insulin rece protein_co	2	2.27E+08	2.27E+08	-1	q36.3
ENSG00000166197	-1.0372	-2.0522	1.96E-17	2.05E-16	NOLC1	nucleolar a protein_co	10	1.02E+08	1.02E+08	1	q24.32
ENSG00000198478	-1.0372	-2.0523	1.43E-20	1.95E-19	SH3BGRL2	SH3 domaii protein_co	6	79631283	79703659	1	q14.1
ENSG00000182858	-1.0373	-2.0524	1.11E-09	6.09E-09	ALG12	ALG12, alpl protein_co	22	49900229	49918458	-1	q13.33
ENSG00000153187	-1.0375	-2.0527	9.57E-25	1.87E-23	HNRNPU	heterogene protein_co	1	2.45E+08	2.45E+08	-1	q44
ENSG00000087087	-1.0381	-2.0535	4.61E-21	6.54E-20	SRRT	serrate, RN protein_co	7	1.01E+08	1.01E+08	1	q22.1
ENSG00000150593	-1.0388	-2.0545	9.33E-23	1.53E-21	PDCD4	programm protein_co	10	1.11E+08	1.11E+08	1	q25.2
ENSG00000119280	-1.0392	-2.0551	1.09E-15	9.79E-15	C1orf198	chromoson protein_co	1	2.31E+08	2.31E+08	-1	q42.2
ENSG00000166391	-1.0393	-2.0552	0.0016	0.0045	MOGAT2	monoacylg protein_co	11	75717819	75732958	1	q13.5
ENSG00000163521	-1.0393	-2.0552	0.0044	0.0111	GLB1L	galactosida protein_co	2	2.19E+08	2.19E+08	-1	q35
ENSG00000178996	-1.0395	-2.0555	2.13E-30	7.04E-29	SNX18	sorting nex protein_co	5	54517759	54546585	1	q11.2
ENSG00000125398	-1.0398	-2.056	0.0057	0.0142	SOX9	SRY (sex de protein_co	17	72121020	72126420	1	q24.3
ENSG00000063587	-1.04	-2.0563	2.12E-08	1.03E-07	ZNF275	zinc finger   protein_co X		1.53E+08	1.53E+08	1	q28
ENSG00000113916	-1.0404	-2.0567	8.13E-10	4.50E-09	BCL6	B-cell CLL/I protein_co	3	1.88E+08	1.88E+08	-1	q27.3
ENSG00000279267	-1.0407	-2.0573	0.0002	0.0007	RP11-395L14.18	TEC	2	1.14E+08	1.14E+08	-1	q14.1
ENSG00000079819	-1.0423	-2.0595	3.88E-08	1.85E-07	EPB41L2	erythrocyte protein_co	6	1.31E+08	1.31E+08	-1	q23.2
ENSG00000112640	-1.0424	-2.0596	7.29E-13	5.24E-12	PPP2R5D	protein phc protein_co	6	42984499	43012342	1	p21.1
ENSG00000133216	-1.0425	-2.0598	3.09E-06	1.22E-05	EPHB2	EPH recept protein_co	1	22710839	22915325	1	p36.12
ENSG00000177679	-1.0426	-2.0599	0.0075	0.0182	SRRM3	serine/argii protein_co	7	76201900	76287288	1	q11.23
ENSG00000005882	-1.0429	-2.0604	6.36E-15	5.38E-14	PDK2	pyruvate di protein_co	17	50094737	50112152	1	q21.33
ENSG00000197375	-1.0431	-2.0606	1.21E-14	1.01E-13	SLC22A5	solute carri protein_co	5	1.32E+08	1.32E+08	1	q31.1
ENSG00000135679	-1.0437	-2.0615	3.30E-21	4.79E-20	MDM2	MDM2 pro protein_co	12	68808172	68850686	1	q15
ENSG00000183723	-1.0446	-2.0629	4.65E-38	3.55E-36	CMTM4	CKLF-like IV protein_co	16	66614750	66696707	-1	q22.1
ENSG00000115020	-1.0456	-2.0642	1.21E-22	1.96E-21	PIKFYVE	phosphoinc protein_co	2	2.08E+08	2.08E+08	1	q34
ENSG00000068724	-1.0456	-2.0642	3.27E-17	3.35E-16	TTC7A	tetratricop protein_co	2	46916157	47076137	1	p21
ENSG00000243679	-1.0456	-2.0642	0.0003	0.0008	RP11-274B21.3	processed_	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000128159	-1.0463	-2.0652	1.55E-10	9.15E-10	TUBGCP6	tubulin, gar protein_co	22	50217689	50244992	-1	q13.33
ENSG00000163635	-1.0464	-2.0654	8.80E-17	8.77E-16	ATXN7	ataxin 7 [Sc protein_co	3	63864557	64003462	1	p14.1
ENSG00000272335	-1.0467	-2.0658	0.0001	0.0004	RP11-53O19.3	lincRNA	5	44826076	44828592	1	p12
ENSG00000102908	-1.0467	-2.0659	5.00E-11	3.08E-10	NFAT5	nuclear fac protein_co	16	69565094	69704666	1	q22.1
ENSG00000135423	-1.047	-2.0662	0.0039	0.0101	GLS2	glutaminas protein_co	12	56470944	56488414	-1	q13.3
ENSG00000143373	-1.0471	-2.0664	1.09E-13	8.40E-13	ZNF687	zinc finger   protein_co	1	1.51E+08	1.51E+08	1	q21.3

ENSG00000103326	-1.0474	-2.0668	5.12E-19	6.09E-18	CAPN15	calpain 15  protein_co	16	527717	554636	1	p13.3
ENSG00000136826	-1.0475	-2.0669	1.93E-08	9.43E-08	KLF4	Kruppel-like protein_co	9	1.07E+08	1.07E+08	-1	q31.2
ENSG00000162341	-1.0475	-2.0669	8.03E-08	3.71E-07	TPCN2	two pore s protein_co	11	69048897	69090604	1	q13.3
ENSG00000179241	-1.0475	-2.0669	1.63E-05	5.90E-05	LDLRAD3	low density protein_co	11	35943981	36232136	1	p13
ENSG00000075426	-1.0476	-2.067	6.16E-12	4.08E-11	FOSL2	FOS-like an protein_co	2	28392448	28417312	1	p23.2
ENSG00000127511	-1.0487	-2.0687	1.52E-13	1.16E-12	SIN3B	SIN3 transcr protein_co	19	16829400	16880353	1	p13.11
ENSG00000116396	-1.0487	-2.0687	7.34E-06	2.76E-05	KCNC4	potassium protein_co	1	1.1E+08	1.1E+08	1	p13.3
ENSG00000108469	-1.0488	-2.0688	4.10E-12	2.77E-11	RECQL5	RecQ prote protein_co	17	75626845	75667189	-1	q25.1
ENSG00000144535	-1.0491	-2.0692	3.33E-11	2.07E-10	DIS3L2	DIS3 like 3' protein_co	2	2.32E+08	2.32E+08	1	q37.1
ENSG00000159692	-1.0493	-2.0696	4.39E-21	6.24E-20	CTBP1	C-terminal protein_co	4	1211448	1249953	-1	p16.3
ENSG00000174749	-1.0493	-2.0696	4.85E-07	2.08E-06	C4orf32	chromoson protein_co	4	1.12E+08	1.12E+08	1	q25
ENSG00000141956	-1.0498	-2.0702	2.37E-06	9.43E-06	PRDM15	PR domain protein_co	21	41798225	41879482	-1	q22.3
ENSG00000247679	-1.0511	-2.0721	0.0061	0.0151	RP11-1277A3.1	antisense	5	1.78E+08	1.78E+08	1	q35.3
ENSG00000136111	-1.0512	-2.0723	8.20E-10	4.54E-09	TBC1D4	TBC1 doma protein_co	13	75284665	75482114	-1	q22.2
ENSG00000185133	-1.0512	-2.0723	0.0006	0.0017	INPP5J	inositol pol protein_co	22	31122731	31134696	1	q12.2
ENSG00000205189	-1.052	-2.0734	5.09E-15	4.35E-14	ZBTB10	zinc finger protein_co	8	80485619	80526265	1	q21.13
ENSG00000099875	-1.0524	-2.0739	2.21E-24	4.17E-23	MKNK2	MAP kinase protein_co	19	2037465	2051244	-1	p13.3
ENSG00000197324	-1.0524	-2.074	1.96E-12	1.36E-11	LRP10	low density protein_co	14	22871613	22881580	1	q11.2
ENSG00000105298	-1.0532	-2.0751	2.17E-15	1.90E-14	CACTIN	cactin, splic protein_co	19	3610641	3626815	-1	p13.3
ENSG00000170581	-1.0534	-2.0754	3.30E-09	1.73E-08	STAT2	signal trans protein_co	12	56341597	56360155	-1	q13.3
ENSG00000276547	-1.0539	-2.0761	0.0002	0.0007	PCDHGB5	protocadhe protein_co	5	1.41E+08	1.42E+08	1	q31.3
ENSG00000143437	-1.0544	-2.0768	3.66E-17	3.73E-16	ARNT	aryl hydroc protein_co	1	1.51E+08	1.51E+08	-1	q21.3
ENSG00000152580	-1.0546	-2.0771	5.07E-06	1.95E-05	IGSF10	immunogl protein_co	3	1.51E+08	1.51E+08	-1	q25.1
ENSG00000278882	-1.0546	-2.0772	0.007	0.017	AC253572.1	protein_co	1	1.21E+08	1.21E+08	1	p11.2
ENSG00000175344	-1.0551	-2.0778	0.0001	0.0004	CHRNA7	cholinergic protein_co	15	32030488	32172521	1	q13.3
ENSG00000156639	-1.0552	-2.078	2.38E-17	2.47E-16	ZFAND3	zinc finger, protein_co	6	37819499	38154624	1	p21.2
ENSG00000137413	-1.0554	-2.0782	1.33E-18	1.52E-17	TAF8	TAF8 RNA p protein_co	6	42050513	42087461	1	p21.1
ENSG00000113810	-1.0558	-2.0788	7.48E-08	3.47E-07	SMC4	structural r protein_co	3	1.6E+08	1.6E+08	1	q25.33
ENSG00000106780	-1.0569	-2.0804	2.24E-07	9.90E-07	MEGF9	multiple EC protein_co	9	1.21E+08	1.21E+08	-1	q33.2
ENSG00000139174	-1.057	-2.0806	0.0003	0.0009	PRICKLE1	prickle hon protein_co	12	42456754	42590355	-1	q12
ENSG00000185504	-1.0576	-2.0815	2.71E-09	1.43E-08	C17orf70	chromoson protein_co	17	81539885	81553961	-1	q25.3
ENSG00000161958	-1.058	-2.082	2.57E-05	9.06E-05	FGF11	fibroblast g protein_co	17	7438273	7444937	1	p13.1
ENSG00000068305	-1.0587	-2.083	2.36E-28	6.51E-27	MEF2A	myocyte er protein_co	15	99565417	99716466	1	q26.3
ENSG00000174282	-1.0597	-2.0845	3.29E-24	6.14E-23	ZBTB4	zinc finger protein_co	17	7459366	7484263	-1	p13.1
ENSG00000224470	-1.0597	-2.0845	5.82E-17	5.84E-16	ATXN1L	ataxin 1-like protein_co	16	71845991	71885268	1	q22.2
ENSG00000140521	-1.0599	-2.0848	8.19E-13	5.85E-12	POLG	polymerase protein_co	15	89316303	89334861	-1	q26.1
ENSG00000149187	-1.0602	-2.0852	3.51E-51	1.17E-48	CELF1	CUGBP, Ela protein_co	11	47465944	47565569	-1	p11.2
ENSG00000274712	-1.0605	-2.0857	0.0042	0.0106	RP11-147L13.15	lincRNA	17	68205489	68207493	1	q24.2
ENSG00000274272	-1.0608	-2.0861	0.0079	0.0191	RP11-44M6.7	processed_	7	1.01E+08	1.01E+08	-1	q22.1
ENSG00000174705	-1.0615	-2.087	5.08E-10	2.86E-09	SH3PXD2B	SH3 and PX protein_co	5	1.72E+08	1.72E+08	-1	q35.1
ENSG00000166889	-1.0615	-2.0871	4.60E-23	7.73E-22	PATL1	protein ass protein_co	11	59636716	59668980	-1	q12.1

ENSG00000163348	-1.0616	-2.0872	3.18E-18	3.54E-17	PYGO2	pygopus fa protein_co	1	1.55E+08	1.55E+08	-1	q21.3
ENSG00000136451	-1.0624	-2.0884	3.68E-20	4.84E-19	VEZF1	vascular en protein_co	17	57971547	57988259	-1	q22
ENSG00000147526	-1.0626	-2.0887	1.16E-12	8.23E-12	TACC1	transformir protein_co	8	38728186	38853028	1	p11.22
ENSG00000215447	-1.0627	-2.0888	0.0002	0.0006	BX322557.10	processed_	21	45288052	45291738	1	q22.3
ENSG00000260404	-1.0628	-2.0889	0.0001	0.0003	RP11-384K6.6	lincRNA	4	1.19E+08	1.19E+08	1	q26
ENSG00000126561	-1.0634	-2.0898	2.10E-14	1.71E-13	STAT5A	signal trans protein_co	17	42287547	42311943	1	q21.2
ENSG00000176903	-1.0636	-2.0901	2.77E-05	9.73E-05	PNMA1	paraneopla protein_co	14	73711783	73714372	-1	q24.3
ENSG00000170525	-1.0639	-2.0906	1.96E-10	1.14E-09	PFKFB3	6-phosphol protein_co	10	6144934	6235545	1	p15.1
ENSG00000144504	-1.0641	-2.0909	0.0073	0.0178	ANKMY1	ankyrin rep protein_co	2	2.4E+08	2.41E+08	-1	q37.3
ENSG00000141568	-1.0645	-2.0914	4.43E-22	6.87E-21	FOXK2	forkhead b protein_co	17	82519713	82644662	1	q25.3
ENSG00000176087	-1.0652	-2.0924	4.30E-15	3.70E-14	SLC35A4	solute carri protein_co	5	1.41E+08	1.41E+08	-1	q31.3
ENSG00000116584	-1.0653	-2.0926	6.55E-18	7.10E-17	ARHGEF2	Rho/Rac gu protein_co	1	1.56E+08	1.56E+08	-1	q22
ENSG00000170915	-1.0656	-2.093	3.57E-05	0.0001	PAQR8	progestin a protein_co	6	52361421	52407777	1	p12.2
ENSG00000093072	-1.0656	-2.0931	0.0088	0.0211	CECR1	cat eye syn protein_co	22	17178790	17221989	-1	q11.1
ENSG00000160211	-1.0657	-2.0932	2.03E-09	1.08E-08	G6PD	glucose-6- $\phi$ protein_co X		1.55E+08	1.55E+08	-1	q28
ENSG00000118922	-1.0657	-2.0932	8.40E-09	4.23E-08	KLF12	Kruppel-lik protein_co	13	73686089	74133905	-1	q22.1
ENSG00000079691	-1.0659	-2.0934	8.62E-17	8.60E-16	LRRC16A	leucine rich protein_co	6	25279078	25620530	1	p22.2
ENSG00000162923	-1.0661	-2.0937	1.18E-22	1.91E-21	WDR26	WD repeat protein_co	1	2.24E+08	2.24E+08	-1	q42.12
ENSG00000023330	-1.0675	-2.0958	1.30E-08	6.44E-08	ALAS1	aminolevul protein_co	3	52198086	52214327	1	p21.2
ENSG00000166265	-1.0677	-2.0961	0.0011	0.0031	CYYR1	cysteine/ty protein_co	21	26466209	26573284	-1	q21.3
ENSG00000137699	-1.0679	-2.0964	3.06E-06	1.20E-05	TRIM29	tripartite r protein_co	11	1.2E+08	1.2E+08	-1	q23.3
ENSG00000182107	-1.0685	-2.0972	2.34E-25	4.87E-24	TMEM30B	transmemt protein_co	14	61277370	61281840	-1	q23.1
ENSG00000169905	-1.0685	-2.0972	8.68E-18	9.33E-17	TOR1AIP2	torsin A int protein_co	1	1.8E+08	1.8E+08	-1	q25.2
ENSG00000213638	-1.0686	-2.0974	0.0002	0.0005	ADAT3	adenosine protein_co	19	1905378	1913447	1	p13.3
ENSG00000136807	-1.0691	-2.0981	2.61E-14	2.12E-13	CDK9	cyclin-depe protein_co	9	1.28E+08	1.28E+08	1	q34.11
ENSG00000072135	-1.0691	-2.0981	2.34E-13	1.74E-12	PTPN18	protein tyr protein_co	2	1.3E+08	1.3E+08	1	q21.1
ENSG00000124171	-1.0695	-2.0987	3.31E-09	1.73E-08	PARD6B	par-6 famil protein_co	20	50731544	50756795	1	q13.13
ENSG00000178695	-1.0704	-2.1	3.61E-07	1.57E-06	KCTD12	potassium protein_co	13	76880166	76886390	-1	q22.3
ENSG00000183530	-1.071	-2.1009	1.52E-20	2.07E-19	PRR14L	proline rich protein_co	22	31676256	31750140	-1	q12.2
ENSG00000146858	-1.0717	-2.1019	0.0004	0.0013	ZC3HAV1L	zinc finger l protein_co	7	1.39E+08	1.39E+08	-1	q34
ENSG00000277258	-1.0718	-2.1021	4.89E-09	2.52E-08	PCGF2	polycomb $\xi$ protein_co	17	38733897	38749817	-1	q12
ENSG00000104812	-1.0725	-2.103	1.24E-18	1.42E-17	GYS1	glycogen sy protein_co	19	48968125	48993310	-1	q13.33
ENSG00000012232	-1.0728	-2.1036	4.15E-09	2.16E-08	EXTL3	exostosin-li protein_co	8	28600469	28755599	1	p21.1
ENSG00000152939	-1.0731	-2.1039	6.65E-19	7.83E-18	MARVELD2	MARVEL dc protein_co	5	69415112	69444330	1	q13.2
ENSG00000166887	-1.0737	-2.1048	5.37E-32	2.04E-30	VPS39	vacuolar pr protein_co	15	42158701	42208316	-1	q15.1
ENSG00000137764	-1.0739	-2.1051	4.48E-13	3.28E-12	MAP2K5	mitogen-ac protein_co	15	67542709	67807123	1	q23
ENSG00000109436	-1.0742	-2.1055	3.72E-16	3.52E-15	TBC1D9	TBC1 doma protein_co	4	1.41E+08	1.41E+08	-1	q31.21
ENSG00000165801	-1.0742	-2.1056	3.84E-06	1.49E-05	ARHGEF40	Rho guanin protein_co	14	21070270	21090240	1	q11.2
ENSG00000103549	-1.0744	-2.1058	3.35E-22	5.22E-21	RNF40	ring finger l protein_co	16	30761745	30776307	1	p11.2
ENSG00000174951	-1.0752	-2.107	4.86E-06	1.87E-05	FUT1	fucosyltran protein_co	19	48748011	48755390	-1	q13.33
ENSG00000124160	-1.0755	-2.1074	3.29E-14	2.64E-13	NCOA5	nuclear rec protein_co	20	46060985	46089952	-1	q13.12

ENSG0000076924	-1.0756	-2.1075	4.83E-13	3.52E-12	XAB2	XPA binding protein_co	19	7619525	7629565	-1	p13.2	
ENSG00000105088	-1.0756	-2.1076	0.0016	0.0044	OLFM2	olfactomec protein_co	19	9853718	9936552	-1	p13.2	
ENSG00000177302	-1.0764	-2.1088	8.75E-14	6.77E-13	TOP3A	topoisomei protein_co	17	18271428	18315007	-1	p11.2	
ENSG00000139160	-1.0767	-2.1093	3.75E-06	1.46E-05	METTL20	methyltran protein_co	12	31647160	31673114	1	p11.21	
ENSG00000186395	-1.0774	-2.1102	1.37E-05	5.00E-05	KRT10	keratin 10  protein_co	17	40818117	40822595	-1	q21.2	
ENSG00000166912	-1.0775	-2.1104	1.79E-18	2.02E-17	MTMR10	myotubulai protein_co	15	30938941	30991607	-1	q13.3	
ENSG00000134815	-1.0775	-2.1104	5.60E-07	2.38E-06	DHX34	DEAH (Asp- protein_co	19	47349281	47382704	1	q13.32	
ENSG00000155592	-1.0777	-2.1107	6.64E-07	2.81E-06	ZKSCAN2	zinc finger  protein_co	16	25236001	25257931	-1	p12.1	
ENSG00000151090	-1.0783	-2.1115	3.19E-11	1.99E-10	THRB	thyroid hor protein_co	3	24117160	24495282	-1	p24.2	
ENSG00000159239	-1.0782	-2.1115	0.0184	0.041	C2orf81	chromoson protein_co	2	74414176	74421591	-1	p13.1	
ENSG00000235106	-1.0785	-2.1118	0.0005	0.0016	LINC00094	long interg antisense	9	1.34E+08	1.34E+08	1	q34.2	
ENSG00000205476	-1.0786	-2.112	1.61E-18	1.83E-17	CCDC85C	coiled-coil  protein_co	14	99500180	99604026	-1	q32.2	
ENSG00000150712	-1.0787	-2.1121	5.76E-12	3.83E-11	MTMR12	myotubulai protein_co	5	32226994	32313009	-1	p13.3	
ENSG00000131844	-1.0797	-2.1136	3.32E-21	4.81E-20	MCCC2	methylcrot protein_co	5	71587288	71658704	1	q13.2	
ENSG00000184992	-1.0798	-2.1137	7.22E-18	7.80E-17	BRI3BP	BRI3 bindin protein_co	12	1.25E+08	1.25E+08	1	q24.31	
ENSG00000188897	-1.0802	-2.1143	0.0157	0.0355	CTD-3088G3.8	Protein LO (protein_co	16	11359845	11523588	-1	p13.13	
ENSG00000132017	-1.0803	-2.1145	1.17E-12	8.24E-12	DCAF15	DDB1 and (protein_co	19	13952492	13961449	1	p13.12	
ENSG00000198786	-1.0804	-2.1146	1.05E-19	1.33E-18	MT-ND5	mitochondi protein_co MT		12337	14148		1	
ENSG00000117298	-1.0808	-2.1152	9.54E-07	3.98E-06	ECE1	endothelin protein_co	1	21217247	21345504	-1	p36.12	
ENSG00000114861	-1.081	-2.1154	2.16E-17	2.25E-16	FOXP1	forkhead b protein_co	3	70954693	71583989	-1	p13	
ENSG00000135299	-1.0812	-2.1158	8.65E-11	5.23E-10	ANKRD6	ankyrin rep protein_co	6	89433170	89633834	1	q15	
ENSG00000100023	-1.0813	-2.1159	2.89E-23	4.95E-22	PPIL2	peptidylprc protein_co	22	21652270	21700015	1	q11.21	
ENSG00000267080	-1.0814	-2.116	1.63E-06	6.63E-06	ASB16-AS1	ASB16 anti: antisense	17	44175973	44186717	-1	q21.31	
ENSG00000167566	-1.0815	-2.1163	1.21E-08	6.04E-08	NCKAP5L	NCK-associ protein_co	12	49791146	49828750	-1	q13.12	
ENSG00000110497	-1.0816	-2.1164	6.63E-14	5.18E-13	AMBRA1	autophagy protein_co	11	46396414	46594125	-1	p11.2	
ENSG00000167191	-1.0818	-2.1166	1.76E-07	7.90E-07	GPRC5B	G protein-c protein_co	16	19856691	19886167	-1	p12.3	
ENSG00000089486	-1.0829	-2.1184	1.85E-05	6.65E-05	CDIP1	cell death-i protein_co	16	4510675	4538828	-1	p13.3	
ENSG00000143882	-1.0833	-2.1189	0.0007	0.0021	ATP6V1C2	ATPase, H+ protein_co	2	10721649	10785110	1	p25.1	
ENSG00000242732	-1.0833	-2.1189	0.0072	0.0175	RGAG4	retrotransp protein_co X		72127110	72131901	-1	q13.1	
ENSG00000055332	-1.0834	-2.119	3.09E-24	5.80E-23	EIF2AK2	eukaryotic protein_co	2	37099210	37157065	-1	p22.2	
ENSG00000272079	-1.0836	-2.1194	0.0065	0.0159	LA16c-380H5.5	lincRNA	16	3006120	3007388	1	p13.3	
ENSG00000133059	-1.0839	-2.1197	1.57E-20	2.13E-19	DSTYK	dual serine protein_co	1	2.05E+08	2.05E+08	-1	q32.1	
ENSG00000124788	-1.0842	-2.1203	1.02E-22	1.67E-21	ATXN1	ataxin 1 [Sc protein_co	6	16299112	16761491	-1	p22.3	
ENSG00000270629	-1.0843	-2.1204	1.39E-09	7.53E-09	NBPF14	neuroblasti protein_co	1	1.49E+08	1.49E+08	-1	q21.2	
ENSG00000164099	-1.085	-2.1213	1.40E-27	3.57E-26	PRSS12	protease, s protein_co	4	1.18E+08	1.18E+08	-1	q26	
ENSG00000130827	-1.085	-2.1214	5.23E-06	2.00E-05	PLXNA3	plexin A3 [s protein_co X		1.54E+08	1.54E+08		1	q28
ENSG00000277534	-1.0854	-2.1219	2.68E-08	1.29E-07	RP11-9E17.1	sense_intrc	18	26542971	26545791	-1	q11.2	
ENSG00000120324	-1.0856	-2.1223	0.0003	0.0008	PCDHB10	protocadhe protein_co	5	1.41E+08	1.41E+08	1	q31.3	
ENSG00000089639	-1.086	-2.1228	4.39E-09	2.28E-08	GMIP	GEM intera protein_co	19	19629476	19643667	-1	p13.11	
ENSG00000004975	-1.0861	-2.1231	5.85E-22	8.98E-21	DVL2	dishevelled protein_co	17	7225341	7234545	-1	p13.1	
ENSG00000105085	-1.0869	-2.1242	3.65E-09	1.91E-08	MED26	mediator c protein_co	19	16574907	16629062	-1	p13.11	



ENSG00000156535	-1.087	-2.1243	2.77E-06	1.10E-05	CD109	CD109 mol protein_co	6	73695785	73828316	1	q13
ENSG00000175567	-1.0871	-2.1245	2.92E-05	0.0001	UCP2	uncoupling protein_co	11	73974667	73983307	-1	q13.4
ENSG00000162413	-1.0875	-2.125	8.76E-12	5.73E-11	KLHL21	kelch-like f; protein_co	1	6590724	6614607	-1	p36.31
ENSG00000143093	-1.0877	-2.1253	4.44E-26	9.89E-25	STRIP1	striatin inte protein_co	1	1.1E+08	1.1E+08	1	p13.3
ENSG00000038219	-1.0889	-2.1272	1.10E-26	2.60E-25	BOD1L1	bioorientati protein_co	4	13568738	13627723	-1	p15.33
ENSG00000100226	-1.089	-2.1273	6.40E-29	1.85E-27	GTPBP1	GTP binding protein_co	22	38705723	38738299	1	q13.1
ENSG00000167658	-1.089	-2.1273	2.77E-16	2.64E-15	EEF2	eukaryotic protein_co	19	3976056	3985469	-1	p13.3
ENSG00000124743	-1.0895	-2.128	0.0106	0.0248	KLHL31	kelch-like f; protein_co	6	53647901	53665708	-1	p12.1
ENSG00000204959	-1.0897	-2.1283	1.63E-05	5.88E-05	ARHGEF34P	Rho guanin unprocesse	7	1.44E+08	1.44E+08	-1	q35
ENSG00000143641	-1.0902	-2.1291	3.71E-06	1.45E-05	GALNT2	polypeptidi protein_co	1	2.3E+08	2.3E+08	1	q42.13
ENSG00000005483	-1.0911	-2.1304	5.44E-23	9.06E-22	KMT2E	lysine (K)-s; protein_co	7	1.05E+08	1.05E+08	1	q22.3
ENSG00000083307	-1.0912	-2.1305	5.13E-17	5.19E-16	GRHL2	grainyhead protein_co	8	1.01E+08	1.02E+08	1	q22.3
ENSG00000005100	-1.0922	-2.1319	3.64E-19	4.39E-18	DHX33	DEAH (Asp- protein_co	17	5440912	5469060	-1	p13.2
ENSG00000171385	-1.0923	-2.1321	0.0002	0.0006	KCND3	potassium protein_co	1	1.12E+08	1.12E+08	-1	p13.2
ENSG00000072364	-1.0923	-2.1322	1.06E-19	1.33E-18	AFF4	AF4/FMR2 protein_co	5	1.33E+08	1.33E+08	-1	q31.1
ENSG00000105371	-1.0926	-2.1326	0.0003	0.001	ICAM4	intercellula protein_co	19	10286967	10288522	1	p13.2
ENSG00000159259	-1.0929	-2.133	7.54E-05	0.0003	CHAF1B	chromatin protein_co	21	36385378	36419015	-1	q22.12
ENSG00000167323	-1.0934	-2.1337	9.54E-14	7.35E-13	STIM1	stromal int protein_co	11	3854527	4093210	1	p15.4
ENSG00000064195	-1.0938	-2.1344	0.0058	0.0144	DLX3	distal-less l protein_co	17	49990005	49995224	-1	q21.33
ENSG00000184368	-1.0945	-2.1354	0.0117	0.0272	MAP7D2	MAP7 dom protein_co X		20006713	20116917	-1	p22.12
ENSG00000065618	-1.0946	-2.1355	1.89E-05	6.79E-05	COL17A1	collagen, ty protein_co	10	1.04E+08	1.04E+08	-1	q25.1
ENSG00000185883	-1.0951	-2.1362	2.22E-09	1.18E-08	ATP6V0C	ATPase, H+ protein_co	16	2513726	2520223	1	p13.3
ENSG00000070778	-1.0956	-2.1369	7.66E-14	5.96E-13	PTPN21	protein tyri protein_co	14	88465778	88554733	-1	q31.3
ENSG00000104946	-1.0959	-2.1374	3.68E-10	2.10E-09	TBC1D17	TBC1 doma protein_co	19	49877425	49888749	1	q13.33
ENSG00000182979	-1.0961	-2.1378	1.76E-19	2.17E-18	MTA1	metastasis protein_co	14	1.05E+08	1.05E+08	1	q32.33
ENSG00000111344	-1.0962	-2.138	0.0002	0.0005	RASAL1	RAS proteir protein_co	12	1.13E+08	1.13E+08	-1	q24.13
ENSG00000160255	-1.0966	-2.1385	0.0004	0.0012	ITGB2	integrin, be protein_co	21	44885953	44931989	-1	q22.3
ENSG00000109089	-1.0966	-2.1386	9.27E-07	3.87E-06	CDR2L	cerebellar r protein_co	17	74987632	75005800	1	q25.1
ENSG00000009954	-1.0969	-2.1389	1.95E-29	5.95E-28	BAZ1B	bromodom protein_co	7	73440398	73522278	-1	q11.23
ENSG00000104853	-1.0969	-2.1389	1.78E-15	1.57E-14	CLPTM1	cleft lip anc protein_co	19	44954585	44993341	1	q13.32
ENSG00000152669	-1.0969	-2.1389	3.11E-05	0.0001	CCNO	cyclin O [Sc protein_co	5	55231152	55233680	-1	q11.2
ENSG00000125447	-1.0969	-2.139	1.41E-19	1.76E-18	GGA3	golgi-assoc protein_co	17	75236599	75262363	-1	q25.1
ENSG00000164040	-1.0973	-2.1395	1.29E-18	1.48E-17	PGRMC2	progestero protein_co	4	1.28E+08	1.28E+08	-1	q28.2
ENSG00000185989	-1.0973	-2.1395	0.0007	0.0021	RASA3	RAS p21 pr protein_co	13	1.14E+08	1.14E+08	-1	q34
ENSG00000167487	-1.0986	-2.1414	9.99E-09	5.00E-08	KLHL26	kelch-like f; protein_co	19	18636965	18671714	1	p13.11
ENSG00000080371	-1.0988	-2.1417	2.19E-12	1.50E-11	RAB21	RAB21, me protein_co	12	71754874	71800285	1	q21.1
ENSG00000177731	-1.0997	-2.1431	3.17E-15	2.75E-14	FLII	flightless l l protein_co	17	18244836	18258916	-1	p11.2
ENSG00000203485	-1.1002	-2.1438	2.74E-09	1.45E-08	INF2	inverted fo protein_co	14	1.05E+08	1.05E+08	1	q32.33
ENSG00000162390	-1.1003	-2.144	1.16E-08	5.76E-08	ACOT11	acyl-CoA th protein_co	1	54542257	54639192	1	p32.3
ENSG00000133703	-1.1004	-2.1441	2.31E-22	3.67E-21	KRAS	Kirsten rat protein_co	12	25204789	25250936	-1	p12.1
ENSG00000166340	-1.1004	-2.1442	7.78E-10	4.32E-09	TPP1	tripeptidyl protein_co	11	6612763	6619461	-1	p15.4

ENSG00000272452	-1.1012	-2.1453	0.0003	0.0009	RP11-391M1.4	lincRNA	3	40466466	40468587	1	p22.1
ENSG00000066135	-1.1013	-2.1455	2.05E-26	4.73E-25	KDM4A	lysine (K)-s1 protein_co	1	43650158	43705515	1	p34.2
ENSG00000169851	-1.1016	-2.146	4.36E-06	1.68E-05	PCDH7	protocadhe protein_co	4	30720415	31146805	1	p15.1
ENSG00000090905	-1.102	-2.1465	7.71E-25	1.52E-23	TNRC6A	trinucleotic protein_co	16	24729695	24827632	1	p12.1
ENSG00000174437	-1.102	-2.1465	2.37E-23	4.10E-22	ATP2A2	ATPase, Ca protein_co	12	1.1E+08	1.1E+08	1	q24.11
ENSG00000269958	-1.102	-2.1466	4.88E-06	1.87E-05	RP11-73M18.8	sense_intrc	14	1.04E+08	1.04E+08	1	q32.33
ENSG00000102606	-1.1029	-2.1478	1.98E-20	2.65E-19	ARHGEF7	Rho guanin protein_co	13	1.11E+08	1.11E+08	1	q34
ENSG00000271643	-1.1028	-2.1478	4.25E-07	1.83E-06	RP11-10C24.3	lincRNA	3	33795688	33796950	-1	p22.3
ENSG00000167257	-1.103	-2.148	3.44E-19	4.16E-18	RNF214	ring finger protein_co	11	1.17E+08	1.17E+08	1	q23.3
ENSG00000165684	-1.1031	-2.1482	2.67E-06	1.06E-05	SNAPC4	small nucle protein_co	9	1.36E+08	1.36E+08	-1	q34.3
ENSG00000181754	-1.1032	-2.1483	3.16E-06	1.24E-05	AMIGO1	adhesion r protein_co	1	1.1E+08	1.1E+08	-1	p13.3
ENSG00000174238	-1.1034	-2.1487	2.45E-16	2.35E-15	PITPNA	phosphatid protein_co	17	1517718	1562816	-1	p13.3
ENSG00000166326	-1.1036	-2.1489	4.09E-33	1.74E-31	TRIM44	tripartite r protein_co	11	35662805	35818007	1	p13
ENSG00000135365	-1.1041	-2.1496	1.43E-19	1.79E-18	PHF21A	PHD finger protein_co	11	45929323	46121178	-1	p11.2
ENSG00000111877	-1.1045	-2.1502	1.58E-07	7.10E-07	MCM9	minichrom protein_co	6	1.19E+08	1.19E+08	-1	q22.31
ENSG00000151148	-1.1049	-2.1508	3.59E-29	1.06E-27	UBE3B	ubiquitin pi protein_co	12	1.09E+08	1.1E+08	1	q24.11
ENSG00000162733	-1.1052	-2.1513	0.0073	0.0178	DDR2	discoidin di protein_co	1	1.63E+08	1.63E+08	1	q23.3
ENSG00000116991	-1.1061	-2.1527	3.77E-16	3.56E-15	SIPA1L2	signal-indu protein_co	1	2.32E+08	2.33E+08	-1	q42.2
ENSG00000087365	-1.1066	-2.1534	3.17E-11	1.98E-10	SF3B2	splicing fac protein_co	11	66050729	66069308	1	q13.1
ENSG00000115107	-1.1066	-2.1534	7.83E-07	3.30E-06	STEAP3	STEAP fami protein_co	2	1.19E+08	1.19E+08	1	q14.2
ENSG00000198205	-1.1069	-2.1538	1.25E-05	4.57E-05	ZXDA	zinc finger, protein_co X		57906708	57910820	-1	p11.21
ENSG00000165650	-1.1072	-2.1542	4.60E-28	1.22E-26	PDZD8	PDZ domai protein_co	10	1.17E+08	1.17E+08	-1	q26.11
ENSG00000144445	-1.1072	-2.1542	6.85E-08	3.19E-07	KANSL1L	KAT8 reguli protein_co	2	2.1E+08	2.1E+08	-1	q34
ENSG00000075151	-1.1076	-2.1549	6.24E-18	6.77E-17	EIF4G3	eukaryotic protein_co	1	20806292	21176888	-1	p36.12
ENSG00000107829	-1.1077	-2.1551	9.01E-16	8.17E-15	FBXW4	F-box and \ protein_co	10	1.02E+08	1.02E+08	-1	q24.32
ENSG00000136295	-1.1078	-2.1552	3.20E-07	1.39E-06	TTYH3	tweety fam protein_co	7	2631951	2664802	1	p22.3
ENSG00000227372	-1.1079	-2.1553	1.38E-11	8.87E-11	TP73-AS1	TP73 antise antisense	1	3735601	3747336	-1	p36.32
ENSG00000242498	-1.1082	-2.1558	1.02E-12	7.23E-12	ARPIN	actin-relate protein_co	15	89895006	89912956	-1	q26.1
ENSG00000122359	-1.1088	-2.1567	5.00E-20	6.51E-19	ANXA11	annexin A1 protein_co	10	80150889	80205572	-1	q22.3
ENSG00000262576	-1.1088	-2.1567	0.0015	0.0041	PCDHGA4	protocadhe protein_co	5	1.41E+08	1.42E+08	1	q31.3
ENSG00000145743	-1.1095	-2.1577	1.09E-15	9.80E-15	FBXL17	F-box and l protein_co	5	1.08E+08	1.08E+08	-1	q21.3
ENSG00000234432	-1.1098	-2.1582	0.0022	0.0059	RP11-1275H24.1	lincRNA	7	5426277	5428927	-1	p22.1
ENSG00000166349	-1.1099	-2.1583	5.47E-06	2.09E-05	RAG1	recombinat protein_co	11	36510709	36593156	1	p12
ENSG00000198826	-1.1099	-2.1583	0.0084	0.0201	ARHGAP11A	Rho GTPas1 protein_co	15	32615144	32639949	1	q13.3
ENSG00000119139	-1.1102	-2.1587	5.33E-28	1.40E-26	TJP2	tight juncti protein_co	9	69121264	69255208	1	q21.11
ENSG00000197959	-1.1103	-2.1589	0.0002	0.0007	DNM3	dynamini 3 protein_co	1	1.72E+08	1.72E+08	1	q24.3
ENSG00000135966	-1.1107	-2.1595	3.31E-13	2.44E-12	TGFBRAP1	transformir protein_co	2	1.05E+08	1.05E+08	-1	q12.2
ENSG00000204219	-1.1114	-2.1605	0.0011	0.0031	TCEA3	transcriptic protein_co	1	23381061	23424740	-1	p36.12
ENSG00000198176	-1.1114	-2.1606	9.85E-13	7.00E-12	TFDP1	transcriptic protein_co	13	1.14E+08	1.14E+08	1	q34
ENSG00000100335	-1.1119	-2.1613	5.50E-14	4.32E-13	MIEF1	mitochondi protein_co	22	39499432	39518132	1	q13.1
ENSG00000130589	-1.1128	-2.1626	1.21E-11	7.83E-11	HELZ2	helicase wi protein_co	20	63558086	63574239	-1	q13.33

ENSG00000082497	-1.1129	-2.1628	1.97E-08	9.62E-08	SERTAD4	SERTA domain protein_co	1	2.1E+08	2.1E+08	1	q32.2
ENSG00000107738	-1.1131	-2.1631	3.39E-14	2.71E-13	C10orf54	chromosome protein_co	10	71747559	71773498	-1	q22.1
ENSG00000117016	-1.1132	-2.1633	0.0106	0.0249	RIMS3	regulating protein_co	1	40620679	40665657	-1	p34.2
ENSG00000167608	-1.1133	-2.1634	1.61E-15	1.42E-14	TMC4	transmembrane protein_co	19	54160108	54173250	-1	q13.42
ENSG00000088881	-1.1136	-2.1638	8.69E-06	3.24E-05	EBF4	early B-cell protein_co	20	2692878	2760108	1	p13
ENSG00000125730	-1.1137	-2.1639	0.0004	0.0011	C3	complement protein_co	19	6677704	6730562	-1	p13.3
ENSG00000156463	-1.1138	-2.1641	6.47E-08	3.02E-07	SH3RF2	SH3 domain protein_co	5	1.46E+08	1.46E+08	1	q32
ENSG00000154122	-1.1141	-2.1646	4.27E-07	1.84E-06	ANKH	ANKH domain protein_co	5	14704804	14871778	-1	p15.2
ENSG00000071051	-1.1141	-2.1647	4.92E-22	7.62E-21	NCK2	NCK adaptor protein_co	2	1.06E+08	1.06E+08	1	q12.2
ENSG00000228903	-1.1149	-2.1659	0.0214	0.047	RASA4CP	RAS p21 promoter transcribed	7	44026951	44041892	-1	p13
ENSG00000130803	-1.115	-2.166	7.15E-21	9.97E-20	ZNF317	zinc finger protein_co	19	9140380	9163424	1	p13.2
ENSG00000269973	-1.1151	-2.166	1.59E-05	5.78E-05	RP11-95D17.1	lincRNA	2	9936360	9939590	1	p25.1
ENSG00000157637	-1.1155	-2.1667	7.71E-14	5.99E-13	SLC38A10	solute carrier protein_co	17	81245000	81295547	-1	q25.3
ENSG00000272750	-1.1158	-2.1672	0.0134	0.0307	RP11-378J18.8	antisense	1	2.23E+08	2.23E+08	-1	q41
ENSG00000074657	-1.1163	-2.1678	2.18E-10	1.26E-09	ZNF532	zinc finger protein_co	18	58862600	58986480	1	q21.32
ENSG00000261716	-1.1163	-2.1679	3.02E-05	0.0001	RP11-196G18.22	sense_intronic	1	1.5E+08	1.5E+08	-1	q21.2
ENSG00000187555	-1.1164	-2.168	1.08E-21	1.63E-20	USP7	ubiquitin specific protein_co	16	8892094	8964514	-1	p13.2
ENSG00000049759	-1.1164	-2.168	2.25E-19	2.75E-18	NEDD4L	neural precursor protein_co	18	58044367	58401540	1	q21.31
ENSG00000185163	-1.1166	-2.1684	9.77E-12	6.36E-11	DDX51	DEAD (Asp-) protein_co	12	1.32E+08	1.32E+08	-1	q24.33
ENSG00000264364	-1.117	-2.1689	6.74E-22	1.03E-20	DYNLL2	dynein light protein_co	17	58083415	58095536	1	q22
ENSG00000055163	-1.1171	-2.1692	1.12E-06	4.65E-06	CYFIP2	cytoplasmic protein_co	5	1.57E+08	1.57E+08	1	q33.3
ENSG00000129993	-1.1174	-2.1695	1.79E-05	6.44E-05	CBFA2T3	core-binding protein_co	16	88874858	88977204	-1	q24.3
ENSG00000118432	-1.1177	-2.17	0.0026	0.007	CNR1	cannabinoid receptor protein_co	6	88139864	88166359	-1	q15
ENSG00000164010	-1.118	-2.1704	1.39E-17	1.47E-16	ERMAP	erythroblast protein_co	1	42817124	42844989	1	p34.2
ENSG00000189241	-1.1184	-2.1711	1.55E-18	1.76E-17	TSPYL1	TSPY-like 1 protein_co	6	1.16E+08	1.16E+08	-1	q22.1
ENSG00000117643	-1.1193	-2.1724	4.80E-07	2.06E-06	MAN1C1	mannosidase protein_co	1	25617468	25786207	1	p36.11
ENSG00000008256	-1.12	-2.1735	9.31E-13	6.63E-12	CYTH3	cytohesin 3 protein_co	7	6161776	6272644	-1	p22.1
ENSG00000074054	-1.1203	-2.1739	7.72E-09	3.91E-08	CLASP1	cytoplasmic protein_co	2	1.21E+08	1.22E+08	-1	q14.3
ENSG00000052749	-1.1203	-2.174	3.76E-10	2.14E-09	RRP12	ribosomal protein_co	10	97356358	97426076	-1	q24.1
ENSG00000070476	-1.1208	-2.1747	5.62E-16	5.21E-15	ZXDC	ZXD family protein_co	3	1.26E+08	1.26E+08	-1	q21.3
ENSG00000007944	-1.1219	-2.1763	3.76E-06	1.46E-05	MYLIP	myosin regulator protein_co	6	16129125	16148248	1	p22.3
ENSG00000145949	-1.1225	-2.1773	4.88E-05	0.0002	MYLK4	myosin light chain protein_co	6	2663629	2750966	-1	p25.2
ENSG00000073060	-1.1227	-2.1775	0.0002	0.0006	SCARB1	scavenger receptor protein_co	12	1.25E+08	1.25E+08	-1	q24.31
ENSG00000170379	-1.1229	-2.1778	0.0005	0.0016	FAM115C	family with protein_co	7	1.44E+08	1.44E+08	1	q35
ENSG00000125746	-1.1232	-2.1783	1.46E-09	7.91E-09	EML2	echinoderm protein_co	19	45606994	45645629	-1	q13.32
ENSG00000124313	-1.1237	-2.1791	2.79E-10	1.60E-09	IQSEC2	IQ motif domain protein_co X		53232876	53321324	-1	p11.22
ENSG00000183840	-1.124	-2.1794	9.49E-10	5.22E-09	GPR39	G protein-coupled protein_co	2	1.32E+08	1.33E+08	1	q21.2
ENSG00000127527	-1.1242	-2.1797	1.23E-17	1.31E-16	EPS15L1	epidermal protein_co	19	16355239	16472085	-1	p13.11
ENSG00000163961	-1.1243	-2.18	3.61E-17	3.69E-16	RNF168	ring finger protein_co	3	1.96E+08	1.97E+08	-1	q29
ENSG00000187079	-1.1247	-2.1805	7.03E-18	7.60E-17	TEAD1	TEA domain protein_co	11	12674591	12944483	1	p15.3
ENSG00000213186	-1.1247	-2.1806	7.76E-07	3.27E-06	TRIM59	tripartite repeat protein_co	3	1.6E+08	1.6E+08	-1	q25.33

ENSG00000161202	-1.1251	-2.1812	1.61E-23	2.83E-22	DVL3	dishevelled protein_co	3	1.84E+08	1.84E+08	1	q27.1
ENSG00000179832	-1.1252	-2.1813	6.16E-15	5.23E-14	MROH1	maestro he protein_co	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000144406	-1.1256	-2.182	0.0028	0.0074	UNC80	unc-80 hon protein_co	2	2.1E+08	2.1E+08	1	q34
ENSG00000094631	-1.1257	-2.1821	5.08E-22	7.84E-21	HDAC6	histone de: protein_co X		48801377	48824982	1	p11.23
ENSG00000142453	-1.1261	-2.1826	1.19E-22	1.93E-21	CARM1	coactivator protein_co	19	10871513	10923070	1	p13.2
ENSG00000108375	-1.1263	-2.1829	2.43E-11	1.53E-10	RNF43	ring finger   protein_co	17	58352500	58417595	-1	q22
ENSG00000135749	-1.1264	-2.1831	1.22E-12	8.61E-12	PCNXL2	pecanex-lik protein_co	1	2.33E+08	2.33E+08	-1	q42.2
ENSG00000170153	-1.1268	-2.1837	0.0064	0.0158	RNF150	ring finger   protein_co	4	1.41E+08	1.41E+08	-1	q31.21
ENSG00000103404	-1.127	-2.1841	9.50E-12	6.20E-11	USP31	ubiquitin sp protein_co	16	23061406	23149270	-1	p12.2
ENSG00000105520	-1.1271	-2.1841	1.40E-05	5.10E-05	LPPR2	Lipid phosph protein_co	19	11355386	11365698	1	p13.2
ENSG00000112419	-1.1272	-2.1843	6.00E-21	8.42E-20	PHACTR2	phosphata: protein_co	6	1.44E+08	1.44E+08	1	q24.2
ENSG00000260401	-1.1277	-2.185	2.89E-12	1.97E-11	RP11-800A3.4	sense_over	11	73238975	73242335	1	q13.4
ENSG00000129353	-1.1276	-2.185	1.21E-10	7.17E-10	SLC44A2	solute carri protein_co	19	10602457	10644559	1	p13.2
ENSG00000182872	-1.128	-2.1855	1.44E-18	1.65E-17	RBM10	RNA bindin protein_co X		47144869	47186813	1	p11.3
ENSG00000130590	-1.1289	-2.1869	1.48E-07	6.66E-07	SAMD10	sterile alph protein_co	20	63974113	63980008	-1	q13.33
ENSG00000162894	-1.1291	-2.1872	0.0013	0.0036	FAIM3	Fas apopto protein_co	1	2.07E+08	2.07E+08	-1	q32.1
ENSG00000170209	-1.1296	-2.1879	0.0011	0.0032	ANKK1	ankyrin rep protein_co	11	1.13E+08	1.13E+08	1	q23.2
ENSG00000247735	-1.1297	-2.1881	0.0113	0.0264	CTD-2574D22.2	antisense	16	29926836	29928933	1	p11.2
ENSG00000163872	-1.13	-2.1886	1.52E-18	1.73E-17	YEATS2	YEATS dom protein_co	3	1.84E+08	1.84E+08	1	q27.1
ENSG00000104154	-1.1304	-2.1891	0.0011	0.003	SLC30A4	solute carri protein_co	15	45479611	45522807	-1	q21.1
ENSG00000007923	-1.1305	-2.1893	5.56E-21	7.84E-20	DNAJC11	Dnaj (Hsp4 protein_co	1	6634168	6701924	-1	p36.31
ENSG00000198835	-1.1312	-2.1905	0.0077	0.0187	GJC2	gap junctio protein_co	1	2.28E+08	2.28E+08	1	q42.13
ENSG00000161328	-1.1314	-2.1907	0.013	0.0299	LRRC56	leucine rich protein_co	11	537527	554916	1	p15.5
ENSG00000186318	-1.1315	-2.1908	9.68E-10	5.32E-09	BACE1	beta-site Al protein_co	11	1.17E+08	1.17E+08	-1	q23.3
ENSG00000134690	-1.1317	-2.1912	0.0111	0.0259	CDCA8	cell divisior protein_co	1	37692418	37709719	1	p34.3
ENSG00000196712	-1.1319	-2.1915	5.93E-21	8.33E-20	NF1	neurofibroi protein_co	17	31094927	31382116	1	q11.2
ENSG00000162636	-1.1321	-2.1918	3.87E-09	2.02E-08	FAM102B	family with protein_co	1	1.09E+08	1.09E+08	1	p13.3
ENSG00000173598	-1.1322	-2.1919	3.45E-16	3.27E-15	NUDT4	nudix (nucl protein_co	12	93377883	93408146	1	q22
ENSG00000204685	-1.1323	-2.1921	1.62E-05	5.88E-05	STARD7-AS1	STARD7 an: processed_	2	96208416	96242621	1	q11.2
ENSG00000160293	-1.1326	-2.1925	2.92E-06	1.15E-05	VAV2	vav 2 guani protein_co	9	1.34E+08	1.34E+08	-1	q34.2
ENSG00000101945	-1.1328	-2.1929	1.97E-07	8.75E-07	SUV39H1	suppressor protein_co X		48695554	48709012	1	p11.23
ENSG00000161914	-1.1331	-2.1933	3.54E-05	0.0001	ZNF653	zinc finger   protein_co	19	11483427	11505923	-1	p13.2
ENSG00000145476	-1.1332	-2.1934	1.60E-14	1.32E-13	CYP4V2	cytochrom: protein_co	4	1.86E+08	1.86E+08	1	q35.1
ENSG00000112139	-1.1332	-2.1935	0.0025	0.0067	MDGA1	MAM dom: protein_co	6	37630679	37699306	-1	p21.2
ENSG00000106771	-1.1334	-2.1937	1.51E-19	1.88E-18	TMEM245	transmemt protein_co	9	1.09E+08	1.09E+08	-1	q31.3
ENSG00000108389	-1.1334	-2.1937	3.74E-15	3.22E-14	MTMR4	myotubulai protein_co	17	58489529	58517905	-1	q22
ENSG00000169594	-1.1338	-2.1944	1.71E-14	1.40E-13	BNC1	basonuclin protein_co	15	83255903	83284716	-1	q25.2
ENSG00000156515	-1.1339	-2.1945	1.12E-21	1.68E-20	HK1	hexokinase protein_co	10	69269984	69401882	1	q22.1
ENSG00000146205	-1.1343	-2.1951	0.0114	0.0267	ANO7	anoctamin protein_co	2	2.41E+08	2.41E+08	1	q37.3
ENSG00000160179	-1.1347	-2.1957	0.0002	0.0006	ABCG1	ATP-bindin protein_co	21	42199689	42297244	1	q22.3
ENSG00000013810	-1.1354	-2.1968	0.0013	0.0037	TACC3	transformir protein_co	4	1721490	1745176	1	p16.3

ENSG00000091986	-1.1355	-2.197	0.0011	0.0031 CCDC80	coiled-coil (protein_co	3	1.13E+08	1.13E+08	-1 q13.2
ENSG00000165699	-1.1356	-2.1971	3.45E-31	1.21E-29 TSC1	tuberous scler protein_co	9	1.33E+08	1.33E+08	-1 q34.13
ENSG00000037637	-1.1356	-2.1971	8.03E-19	9.41E-18 FBXO42	F-box prote protein_co	1	16246839	16352454	-1 p36.13
ENSG00000151136	-1.1359	-2.1975	3.87E-07	1.67E-06 BTBD11	BTB (POZ) (protein_co	12	1.07E+08	1.08E+08	1 q23.3
ENSG00000197461	-1.1363	-2.1981	3.28E-05	0.0001 PDGFA	platelet-de protein_co	7	497258	520296	-1 p22.3
ENSG00000050327	-1.1364	-2.1984	1.18E-17	1.26E-16 ARHGEF5	Rho guanine protein_co	7	1.44E+08	1.44E+08	1 q35
ENSG00000138160	-1.1365	-2.1985	0.0059	0.0146 KIF11	kinesin fam protein_co	10	92593286	92655395	1 q23.33
ENSG00000100330	-1.1367	-2.1987	1.54E-38	1.23E-36 MTMR3	myotubular protein_co	22	29883155	30030866	1 q12.2
ENSG00000168772	-1.1374	-2.1998	0.0009	0.0025 CXXC4	CXXC finger protein_co	4	1.04E+08	1.04E+08	-1 q24
ENSG00000158863	-1.1375	-2.2	2.12E-12	1.46E-11 FAM160B2	family with protein_co	8	22089159	22104898	1 p21.3
ENSG00000149091	-1.1378	-2.2004	1.53E-13	1.16E-12 DGKZ	diacylglyce protein_co	11	46332905	46380554	1 p11.2
ENSG00000104369	-1.1379	-2.2005	1.84E-16	1.78E-15 JPH1	junctophilin protein_co	8	74234700	74321328	-1 q21.11
ENSG00000120075	-1.138	-2.2008	0.0016	0.0044 HOXB5	homeobox protein_co	17	48591257	48593961	-1 q21.32
ENSG00000011007	-1.1382	-2.201	1.84E-20	2.48E-19 TCEB3	transcriptic protein_co	1	23743155	23762059	1 p36.11
ENSG00000163960	-1.1385	-2.2015	8.95E-34	4.09E-32 UBXN7	UBX domai protein_co	3	1.96E+08	1.96E+08	-1 q29
ENSG00000268205	-1.1387	-2.2018	9.74E-07	4.05E-06 CTC-444N24.11	lincRNA	19	57304305	57308562	1 q13.43
ENSG00000163814	-1.1391	-2.2024	5.38E-20	7.00E-19 CDCP1	CUB domai protein_co	3	45082278	45146422	-1 p21.31
ENSG00000197024	-1.1391	-2.2024	2.02E-14	1.64E-13 ZNF398	zinc finger (protein_co	7	1.49E+08	1.49E+08	1 q36.1
ENSG00000169951	-1.1396	-2.2031	2.07E-08	1.01E-07 ZNF764	zinc finger (protein_co	16	30553764	30558498	-1 p11.2
ENSG00000153721	-1.1403	-2.2043	4.79E-11	2.95E-10 CNKSR3	CNKSR fam protein_co	6	1.54E+08	1.55E+08	-1 q25.2
ENSG00000204634	-1.1405	-2.2045	3.39E-06	1.32E-05 TBC1D8	TBC1 doma protein_co	2	1.01E+08	1.01E+08	-1 q11.2
ENSG00000180730	-1.1405	-2.2045	0.0009	0.0024 SHISA2	shisa family protein_co	13	26044597	26051031	-1 q12.13
ENSG00000133958	-1.1407	-2.2048	0.0068	0.0166 UNC79	unc-79 hon protein_co	14	93333219	93707876	1 q32.12
ENSG00000142677	-1.1408	-2.205	0.0038	0.0097 IL22RA1	interleukin protein_co	1	24119771	24143121	-1 p36.11
ENSG00000260805	-1.1408	-2.205	0.012	0.0278 RP11-61J19.5	lincRNA	1	2.13E+08	2.13E+08	-1 q32.3
ENSG00000243477	-1.1412	-2.2056	1.50E-05	5.44E-05 NAT6	N-acetyltra protein_co	3	50296402	50299421	-1 p21.31
ENSG00000232653	-1.1414	-2.206	2.50E-05	8.83E-05 GOLGA8N	golgin A8 fa protein_co	15	32593456	32607310	1 q13.3
ENSG00000119402	-1.142	-2.2069	5.25E-27	1.28E-25 FBXW2	F-box and \ protein_co	9	1.21E+08	1.21E+08	-1 q33.2
ENSG00000004399	-1.1423	-2.2074	0.0015	0.0041 PLXND1	plexin D1 ( protein_co	3	1.3E+08	1.3E+08	-1 q22.1
ENSG00000160447	-1.143	-2.2084	0.0057	0.0142 PKN3	protein kin. protein_co	9	1.29E+08	1.29E+08	1 q34.11
ENSG00000080503	-1.1433	-2.2089	1.77E-26	4.09E-25 SMARCA2	SWI/SNF re protein_co	9	2015219	2193624	1 p24.3
ENSG00000163362	-1.1434	-2.2091	2.86E-18	3.19E-17 C1orf106	chromoson protein_co	1	2.01E+08	2.01E+08	1 q32.1
ENSG00000155111	-1.1436	-2.2092	2.06E-21	3.03E-20 CDK19	cyclin-depe protein_co	6	1.11E+08	1.11E+08	-1 q21
ENSG00000111696	-1.1441	-2.2101	0.0003	0.001 NT5DC3	5'-nucleoti protein_co	12	1.04E+08	1.04E+08	-1 q23.3
ENSG00000184675	-1.1442	-2.2103	3.47E-06	1.36E-05 AMER1	APC memb protein_co X		64185117	64205744	-1 q11.2
ENSG00000155066	-1.1446	-2.2108	7.76E-13	5.57E-12 PROM2	prominin 2 protein_co	2	95274453	95291308	1 q11.1
ENSG00000065361	-1.1447	-2.211	1.39E-10	8.23E-10 ERBB3	v-erb-b2 av protein_co	12	56079857	56103505	1 q13.2
ENSG00000102096	-1.1449	-2.2112	0.001	0.0029 PIM2	Pim-2 prot protein_co X		48913182	48919024	-1 p11.23
ENSG00000141258	-1.1455	-2.2123	5.57E-17	5.61E-16 SGSM2	small G pro protein_co	17	2337498	2381058	1 p13.3
ENSG00000169955	-1.1456	-2.2123	4.58E-09	2.37E-08 ZNF747	zinc finger (protein_co	16	30530367	30535347	-1 p11.2
ENSG00000275198	-1.1463	-2.2135	0.0149	0.034 RP11-471B22.3	lincRNA	14	90383365	90387973	1 q32.11



ENSG00000116337	-1.1469	-2.2144	9.15E-11	5.51E-10	AMPD2	adenosine protein_co	1	1.1E+08	1.1E+08	1	p13.3
ENSG00000183196	-1.1471	-2.2147	0.0023	0.0062	CHST6	carbohydrate protein_co	16	75472052	75495384	-1	q23.1
ENSG00000197405	-1.1473	-2.215	0.0097	0.0229	C5AR1	complement protein_co	19	47290023	47322066	1	q13.32
ENSG00000087245	-1.1474	-2.2152	0.0032	0.0083	MMP2	matrix metalloproteinase protein_co	16	55389700	55506691	1	q12.2
ENSG00000071246	-1.1476	-2.2155	0.0001	0.0004	VASH1	vasohibin 1 protein_co	14	76762189	76783015	1	q24.3
ENSG00000163935	-1.1477	-2.2157	1.54E-07	6.92E-07	SFMBT1	Scm-like wiprotein_co	3	52903572	53046750	-1	p21.1
ENSG00000198807	-1.1479	-2.2159	5.36E-11	3.29E-10	PAX9	paired box protein_co	14	36657568	36679715	1	q13.3
ENSG00000169957	-1.1483	-2.2165	1.31E-23	2.32E-22	ZNF768	zinc finger protein_co	16	30524001	30526821	-1	p11.2
ENSG00000226479	-1.1493	-2.2181	3.31E-13	2.44E-12	TMEM185B	transmembrane protein_co	2	1.2E+08	1.2E+08	-1	q14.2
ENSG00000124151	-1.1497	-2.2187	6.20E-28	1.62E-26	NCOA3	nuclear receptor protein_co	20	47501902	47656877	1	q13.12
ENSG00000213015	-1.1499	-2.219	6.74E-11	4.11E-10	ZNF580	zinc finger protein_co	19	55635016	55643469	1	q13.42
ENSG00000267309	-1.1502	-2.2194	0.0011	0.003	CTD-2630F21.1	antisense	19	36489649	36491040	1	q13.12
ENSG00000273576	-1.1502	-2.2194	0.0016	0.0044	RP11-390P24.1	lincRNA	17	39566915	39567559	1	q12
ENSG00000181873	-1.1505	-2.22	9.74E-11	5.85E-10	IBA57	IBA57, iron protein_co	1	2.28E+08	2.28E+08	1	q42.13
ENSG00000259877	-1.1509	-2.2206	0.001	0.0027	RP11-46C24.7	antisense	16	89215211	89217653	-1	q24.3
ENSG00000174840	-1.1522	-2.2224	2.33E-26	5.33E-25	PDE12	phosphodiesterase protein_co	3	57556276	57566844	1	p14.3
ENSG00000167333	-1.1522	-2.2225	1.21E-12	8.55E-12	TRIM68	tripartite motif protein_co	11	4598672	4608259	-1	p15.4
ENSG00000143365	-1.1523	-2.2227	0.0004	0.0013	RORC	RAR-related protein_co	1	1.52E+08	1.52E+08	-1	q21.3
ENSG00000181827	-1.1525	-2.223	7.20E-16	6.60E-15	RFX7	regulatory protein_co	15	56087280	56243266	-1	q21.3
ENSG00000175898	-1.1533	-2.2242	6.69E-06	2.53E-05	CTD-2369P2.2	lincRNA	19	10221435	10223194	-1	p13.2
ENSG00000173546	-1.1535	-2.2245	0.0038	0.0098	CSPG4	chondroitin protein_co	15	75674322	75712848	-1	q24.2
ENSG00000214655	-1.1538	-2.225	1.11E-13	8.53E-13	ZSWIM8	zinc finger protein_co	10	73785582	73801797	1	q22.2
ENSG00000119772	-1.1538	-2.225	8.83E-13	6.30E-12	DNMT3A	DNA (cytosine) methyltransferase protein_co	2	25227855	25342590	-1	p23.3
ENSG00000133065	-1.1544	-2.2259	2.96E-13	2.19E-12	SLC41A1	solute carrier protein_co	1	2.06E+08	2.06E+08	-1	q32.1
ENSG00000168077	-1.1544	-2.2259	6.49E-07	2.75E-06	SCARA3	scavenger receptor protein_co	8	27633868	27676776	1	p21.1
ENSG00000174586	-1.1546	-2.2263	0.013	0.0299	ZNF497	zinc finger protein_co	19	58354357	58362848	-1	q13.43
ENSG00000170075	-1.1547	-2.2264	0.0191	0.0424	GPR37L1	G protein-coupled protein_co	1	2.02E+08	2.02E+08	1	q32.1
ENSG00000186187	-1.1548	-2.2265	2.54E-21	3.73E-20	ZNRF1	zinc and ring finger protein_co	16	74999030	75110994	1	q23.1
ENSG00000270647	-1.1549	-2.2267	3.26E-15	2.82E-14	TAF15	TAF15 RNA protein_co	17	35713791	35864615	1	q12
ENSG00000154447	-1.1555	-2.2277	1.10E-15	9.90E-15	SH3RF1	SH3 domain protein_co	4	1.69E+08	1.69E+08	-1	q33
ENSG00000198837	-1.1555	-2.2277	4.38E-12	2.94E-11	DENND4B	DENN/MAL protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000161013	-1.1556	-2.2278	4.92E-11	3.03E-10	MGAT4B	mannosyl (GlcNAc) 6-phosphotransferase protein_co	5	1.8E+08	1.8E+08	-1	q35.3
ENSG00000145414	-1.1557	-2.228	8.76E-07	3.67E-06	NAF1	nuclear factor protein_co	4	1.63E+08	1.63E+08	-1	q32.2
ENSG00000053918	-1.1563	-2.2289	3.84E-10	2.18E-09	KCNQ1	potassium channel protein_co	11	2444684	2849109	1	p15.5
ENSG00000175564	-1.1576	-2.2308	0.0211	0.0465	UCP3	uncoupling protein_co	11	74000281	74009435	-1	q13.4
ENSG00000262209	-1.1584	-2.2321	0.0147	0.0335	PCDHGB3	protocadherin protein_co	5	1.41E+08	1.42E+08	1	q31.3
ENSG00000226823	-1.1605	-2.2354	0.0094	0.0224	SUGT1P	unprocessed protein_co	9	33503655	33510711	-1	p13.3
ENSG00000173442	-1.161	-2.2361	9.65E-17	9.55E-16	EHBP1L1	EH domain protein_co	11	65576038	65592650	1	q13.1
ENSG00000168016	-1.1612	-2.2364	3.71E-19	4.47E-18	TRANK1	tetratricopeptide repeat protein_co	3	36826820	36945057	-1	p22.2
ENSG00000103657	-1.1616	-2.237	1.17E-19	1.47E-18	HERC1	HECT and E3 ubiquitin-protein ligase protein_co	15	63608618	63833942	-1	q22.31
ENSG00000163939	-1.1619	-2.2375	1.50E-25	3.18E-24	PBRM1	polybrominated protein_co	3	52545352	52685917	-1	p21.1

ENSG00000182511	-1.1621	-2.2379	0.0087	0.0209	FES	FES proto-c protein_co	15	90883695	90895776	1	q26.1
ENSG00000140943	-1.1622	-2.238	7.54E-26	1.64E-24	MBTPS1	membrane protein_co	16	84053761	84116906	-1	q24.1
ENSG00000260966	-1.1623	-2.2381	0.0004	0.0011	RP11-690D19.3	sense_over	11	1.03E+08	1.03E+08	-1	q22.3
ENSG00000064666	-1.1626	-2.2386	3.74E-11	2.33E-10	CNN2	calponin 2 protein_co	19	1026581	1039068	1	p13.3
ENSG00000092964	-1.1633	-2.2396	1.29E-05	4.72E-05	DPYSL2	dihydropyr protein_co	8	26514275	26658178	1	p21.2
ENSG00000100280	-1.1634	-2.2398	2.73E-16	2.60E-15	AP1B1	adaptor-rel protein_co	22	29327680	29423179	-1	q12.2
ENSG00000149328	-1.1636	-2.2402	0.0075	0.0181	GLB1L2	galactosida protein_co	11	1.34E+08	1.34E+08	1	q25
ENSG00000185019	-1.164	-2.2407	6.26E-10	3.49E-09	UBOX5	U-box dom protein_co	20	3107573	3160196	-1	p13
ENSG00000188033	-1.164	-2.2407	0.0005	0.0014	ZNF490	zinc finger protein_co	19	12577961	12640098	-1	p13.13
ENSG00000079313	-1.1642	-2.241	5.28E-17	5.34E-16	REXO1	REX1, RNA protein_co	19	1815246	1848463	-1	p13.3
ENSG00000113742	-1.1642	-2.2411	2.19E-28	6.04E-27	CPEB4	cytoplasmii protein_co	5	1.74E+08	1.74E+08	1	q35.2
ENSG00000139626	-1.1645	-2.2415	0.0001	0.0004	ITGB7	integrin, be protein_co	12	53191318	53207307	-1	q13.13
ENSG00000152291	-1.1645	-2.2416	4.62E-21	6.55E-20	TGOLN2	trans-golgi protein_co	2	85318020	85328425	-1	p11.2
ENSG00000143061	-1.1653	-2.2428	1.40E-18	1.60E-17	IGSF3	immunogl protein_co	1	1.17E+08	1.17E+08	-1	p13.1
ENSG00000033627	-1.1653	-2.2428	2.55E-13	1.90E-12	ATP6V0A1	ATPase, H+ protein_co	17	42458844	42522611	1	q21.2
ENSG00000161558	-1.1656	-2.2432	1.05E-06	4.37E-06	TMEM143	transmemt protein_co	19	48332356	48364237	-1	q13.33
ENSG00000057657	-1.1658	-2.2435	3.61E-07	1.57E-06	PRDM1	PR domain protein_co	6	1.06E+08	1.06E+08	1	q21
ENSG00000117139	-1.1659	-2.2437	1.19E-30	4.00E-29	KDM5B	lysine (K)-sp protein_co	1	2.03E+08	2.03E+08	-1	q32.1
ENSG00000164855	-1.1659	-2.2437	2.24E-17	2.33E-16	TMEM184A	transmemt protein_co	7	1542235	1560821	-1	p22.3
ENSG00000205356	-1.1669	-2.2453	2.21E-17	2.30E-16	TECPR1	tectonin be protein_co	7	98214624	98252251	-1	q21.3
ENSG00000272325	-1.167	-2.2455	4.87E-19	5.81E-18	NUDT3	nudin (nucl protein_co	6	34279679	34392674	-1	p21.31
ENSG00000196428	-1.1672	-2.2458	8.75E-11	5.28E-10	TSC22D2	TSC22 dom protein_co	3	1.5E+08	1.5E+08	1	q25.1
ENSG00000165417	-1.1678	-2.2467	5.58E-27	1.36E-25	GTF2A1	general tra protein_co	14	81175452	81221377	-1	q31.1
ENSG00000173175	-1.1683	-2.2475	0.005	0.0125	ADCY5	adenylate c protein_co	3	1.23E+08	1.23E+08	-1	q21.1
ENSG00000178719	-1.1685	-2.2477	2.65E-14	2.14E-13	GRINA	glutamate i protein_co	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000105556	-1.1686	-2.2479	3.32E-14	2.67E-13	MIER2	mesoderm protein_co	19	305573	344807	-1	p13.3
ENSG00000188786	-1.1692	-2.2489	8.38E-14	6.49E-13	MTF1	metal-regu protein_co	1	37809567	37859620	-1	p34.3
ENSG00000100150	-1.1692	-2.2489	2.09E-12	1.44E-11	DEPDC5	DEP domai protein_co	22	31753951	31907034	1	q12.2
ENSG00000131899	-1.1699	-2.25	1.11E-19	1.39E-18	LLGL1	lethal giant protein_co	17	18225587	18244875	1	p11.2
ENSG00000127418	-1.1701	-2.2503	1.15E-11	7.43E-11	FGFRL1	fibroblast g protein_co	4	1009936	1026897	1	p16.3
ENSG00000137221	-1.1702	-2.2505	5.96E-11	3.66E-10	TJAP1	tight juncti protein_co	6	43477523	43506556	1	p21.1
ENSG00000078081	-1.1705	-2.2509	0.0002	0.0006	LAMP3	lysosomal-i protein_co	3	1.83E+08	1.83E+08	-1	q27.1
ENSG00000108312	-1.1707	-2.2512	8.75E-25	1.71E-23	UBTF	upstream t protein_co	17	44205033	44221626	-1	q21.31
ENSG00000106123	-1.1712	-2.2519	1.25E-07	5.69E-07	EPHB6	EPH recept protein_co	7	1.43E+08	1.43E+08	1	q34
ENSG00000280206	-1.1713	-2.2522	6.93E-06	2.61E-05	CTB-193M12.5	TEC	16	15701237	15702118	1	p13.11
ENSG00000185950	-1.1717	-2.2527	6.63E-08	3.09E-07	IRS2	insulin rece protein_co	13	1.1E+08	1.1E+08	-1	q34
ENSG00000173548	-1.1717	-2.2528	6.49E-25	1.30E-23	SNX33	sorting nex protein_co	15	75647906	75662301	1	q24.2
ENSG00000114982	-1.1728	-2.2544	2.87E-23	4.93E-22	KANSL3	KAT8 reguli protein_co	2	96593170	96642787	-1	q11.2
ENSG00000103226	-1.1728	-2.2544	6.61E-10	3.68E-09	NOMO3	NODAL mo protein_co	16	16232495	16294814	1	p13.11
ENSG00000173762	-1.1728	-2.2545	0.0217	0.0476	CD7	CD7 moleci protein_co	17	82314868	82317602	-1	q25.3
ENSG00000121753	-1.1733	-2.2553	0.0005	0.0014	BAI2	brain-speci protein_co	1	31727117	31764893	-1	p35.2

ENSG00000179262	-1.1734	-2.2555	5.91E-16	5.47E-15	RAD23A	RAD23 homolog protein_co	19	12945855	12953642	1	p13.13
ENSG00000121057	-1.1736	-2.2558	1.15E-20	1.58E-19	AKAP1	A kinase (P) protein_co	17	57085092	57121349	1	q22
ENSG00000061938	-1.1736	-2.2558	3.08E-17	3.17E-16	TNK2	tyrosine kinase protein_co	3	1.96E+08	1.96E+08	-1	q29
ENSG00000157014	-1.1736	-2.2558	1.28E-15	1.14E-14	TATDN2	TatD DNase protein_co	3	10248023	10281218	1	p25.3
ENSG00000076554	-1.174	-2.2563	2.43E-13	1.81E-12	TPD52	tumor protein_co	8	80034868	80231232	-1	q21.13
ENSG00000279253	-1.1747	-2.2575	0.0046	0.0116	RP4-614O4.13	TEC	20	35262727	35264187	-1	q11.22
ENSG00000118402	-1.1748	-2.2576	0.0002	0.0005	ELOVL4	ELOVL fatty acid protein_co	6	79914812	79947580	-1	q14.1
ENSG00000139197	-1.1752	-2.2583	2.27E-17	2.36E-16	PEX5	peroxisomal protein_co	12	7188685	7218574	1	p13.31
ENSG00000164663	-1.1753	-2.2584	9.70E-10	5.33E-09	USP49	ubiquitin specific protein_co	6	41789896	41895361	-1	p21.1
ENSG00000040199	-1.1756	-2.2589	2.94E-08	1.41E-07	PHLPP2	PH domain protein_co	16	71637835	71724701	-1	q22.2
ENSG00000005156	-1.1757	-2.259	2.28E-07	1.01E-06	LIG3	ligase III, DNA protein_co	17	34980494	35009743	1	q12
ENSG00000136699	-1.1762	-2.2598	4.78E-19	5.70E-18	SMPD4	sphingomyelinase protein_co	2	1.3E+08	1.3E+08	-1	q21.1
ENSG00000178498	-1.1769	-2.261	8.71E-05	0.0003	DTX3	deltex 3, EGF protein_co	12	57604622	57609804	1	q13.3
ENSG00000124120	-1.1773	-2.2616	1.98E-29	6.00E-28	TTPAL	tocopherol protein_co	20	44475886	44494603	1	q13.12
ENSG00000156858	-1.1774	-2.2616	3.30E-10	1.89E-09	PRR14	proline rich protein_co	16	30650717	30656440	1	p11.2
ENSG00000166145	-1.1778	-2.2623	1.23E-09	6.73E-09	SPINT1	serine peptidase protein_co	15	40844018	40858207	1	q15.1
ENSG00000063245	-1.1792	-2.2645	6.35E-23	1.05E-21	EPN1	epsin 1 [So] protein_co	19	55675226	55709858	1	q13.42
ENSG00000114933	-1.1795	-2.265	4.10E-18	4.51E-17	INO80D	INO80 complex protein_co	2	2.06E+08	2.06E+08	-1	q33.3
ENSG00000142632	-1.1795	-2.265	1.67E-05	6.04E-05	ARHGEF19	Rho guanine nucleotide exchange protein_co	1	16197854	16212609	-1	p36.13
ENSG00000254122	-1.1802	-2.2662	9.27E-06	3.44E-05	PCDHGB7	protocadherin protein_co	5	1.41E+08	1.42E+08	1	q31.3
ENSG00000156650	-1.1804	-2.2664	5.49E-19	6.53E-18	KAT6B	K(lysine) acetyltransferase protein_co	10	74825582	75032622	1	q22.2
ENSG00000065357	-1.1806	-2.2668	2.56E-12	1.75E-11	DGKA	diacylglycerol kinase protein_co	12	55927319	55954027	1	q13.2
ENSG00000087510	-1.1808	-2.267	1.60E-11	1.03E-10	TFAP2C	transcription factor protein_co	20	56629302	56639283	1	q13.31
ENSG00000109066	-1.1813	-2.2678	2.36E-10	1.37E-09	TMEM104	transmembrane protein_co	17	74776483	74839779	1	q25.1
ENSG00000166224	-1.1831	-2.2707	1.38E-21	2.06E-20	SGPL1	sphingosinase protein_co	10	70815961	70881173	1	q22.1
ENSG00000150457	-1.1835	-2.2712	8.15E-09	4.11E-08	LATS2	large tumor suppressor protein_co	13	20973032	21061547	-1	q12.11
ENSG00000104687	-1.1838	-2.2718	2.70E-13	2.00E-12	GSR	glutathione S-transferase protein_co	8	30678061	30727926	-1	p12
ENSG00000138119	-1.1847	-2.2731	6.28E-15	5.32E-14	MYOF	myoferlin [unc] protein_co	10	93306429	93482317	-1	q23.33
ENSG00000172037	-1.1847	-2.2732	9.62E-12	6.27E-11	LAMB2	laminin, beta protein_co	3	49121114	49133118	-1	p21.31
ENSG00000234616	-1.1848	-2.2733	1.17E-17	1.24E-16	JRK	Jrk homolog protein_co	8	1.43E+08	1.43E+08	-1	q24.3
ENSG00000109501	-1.185	-2.2736	2.55E-14	2.06E-13	WFS1	Wolfram syndrome protein_co	4	6269849	6303265	1	p16.1
ENSG00000256628	-1.1851	-2.2737	2.96E-07	1.29E-06	ZBTB11-AS1	ZBTB11 antisense	3	1.02E+08	1.02E+08	1	q12.3
ENSG00000100982	-1.186	-2.2752	9.28E-17	9.20E-16	PCIF1	PDX1 C-terminal protein_co	20	45934628	45948023	1	q13.12
ENSG00000145990	-1.1861	-2.2754	8.44E-11	5.11E-10	GFOD1	glucose-fructose oxidoreductase protein_co	6	13357830	13487662	-1	p23
ENSG00000128016	-1.1865	-2.276	1.17E-26	2.76E-25	ZFP36	ZFP36 ring finger protein_co	19	39406813	39409412	1	q13.2
ENSG00000077157	-1.1868	-2.2764	1.05E-13	8.05E-13	PPP1R12B	protein phosphatase protein_co	1	2.02E+08	2.03E+08	1	q32.1
ENSG00000176095	-1.187	-2.2768	2.53E-17	2.62E-16	IP6K1	inositol hexakisphosphate protein_co	3	49724294	49786542	-1	p21.31
ENSG00000214940	-1.1871	-2.277	0.0156	0.0354	NPIPA8	nuclear pore protein_co	16	18317942	18336736	-1	p12.3
ENSG00000116273	-1.1872	-2.2771	5.93E-13	4.30E-12	PHF13	PHD finger protein_co	1	6613685	6624033	1	p36.31
ENSG00000153786	-1.1873	-2.2772	7.04E-24	1.28E-22	ZDHHC7	zinc finger, C-terminal domain protein_co	16	84974181	85011535	-1	q24.1
ENSG00000144724	-1.1874	-2.2774	6.86E-10	3.81E-09	PTPRG	protein tyrosine phosphatase protein_co	3	61561569	62297613	1	p14.2

ENSG00000213676	-1.1876	-2.2777	5.72E-32	2.16E-30	ATF6B	activating t protein_co	6	32098176	32128253	-1	p21.32
ENSG00000147912	-1.1878	-2.278	4.47E-05	0.0002	FBXO10	F-box prote protein_co	9	37510892	37576349	-1	p13.2
ENSG00000129173	-1.1878	-2.2781	0.0132	0.0303	E2F8	E2F transcr protein_co	11	19224063	19241620	-1	p15.1
ENSG00000176834	-1.1881	-2.2786	1.33E-11	8.56E-11	VSIG10	V-set and ir protein_co	12	1.18E+08	1.18E+08	-1	q24.23
ENSG00000165312	-1.1896	-2.2808	9.04E-08	4.16E-07	OTUD1	OTU deubir protein_co	10	23439458	23442390	1	p12.2
ENSG00000165804	-1.19	-2.2816	1.73E-13	1.31E-12	ZNF219	zinc finger   protein_co	14	21090046	21104722	-1	q11.2
ENSG00000213699	-1.1902	-2.2819	8.59E-12	5.62E-11	SLC35F6	solute carri protein_co	2	26764284	26781231	1	p23.3
ENSG00000138756	-1.1907	-2.2827	5.05E-27	1.23E-25	BMP2K	BMP2 indu protein_co	4	78776342	78916372	1	q21.21
ENSG00000122515	-1.1909	-2.283	1.46E-17	1.54E-16	ZMIZ2	zinc finger, protein_co	7	44748581	44769881	1	p13
ENSG00000099783	-1.1913	-2.2836	4.28E-20	5.59E-19	HNRNPM	heterogene protein_co	19	8444767	8489114	1	p13.2
ENSG00000247708	-1.1917	-2.2842	0.0006	0.0018	STX18-AS1	STX18 antis antisense	4	4542131	4710938	1	p16.2
ENSG00000272909	-1.1919	-2.2846	0.0197	0.0435	CTD-2555O16.4	antisense	14	64440369	64442238	-1	q23.3
ENSG00000100297	-1.1922	-2.285	2.69E-06	1.07E-05	MCM5	minichrom protein_co	22	35400063	35425430	1	q12.3
ENSG00000278730	-1.1923	-2.2852	6.93E-22	1.06E-20	LINC00674	long interg lincRNA	17	68126666	68129586	1	q24.2
ENSG00000004799	-1.1933	-2.2867	4.06E-05	0.0001	PKD4	pyruvate di protein_co	7	95583499	95596491	-1	q21.3
ENSG00000082701	-1.1934	-2.287	2.28E-35	1.25E-33	GSK3B	glycogen sy protein_co	3	1.2E+08	1.2E+08	-1	q13.33
ENSG00000173320	-1.1941	-2.288	1.01E-12	7.17E-12	STOX2	storkhead l protein_co	4	1.84E+08	1.84E+08	-1	q35.1
ENSG00000080839	-1.1941	-2.288	0.0002	0.0007	RBL1	retinoblast protein_co	20	36996349	37095995	-1	q11.23
ENSG00000115306	-1.1942	-2.2881	1.71E-12	1.19E-11	SPTBN1	spectrin, b protein_co	2	54456285	54671445	1	p16.2
ENSG00000197320	-1.1943	-2.2884	0.0127	0.0293	AC060834.2	processed_	7	9726241	9728272	1	p21.3
ENSG00000271858	-1.1948	-2.2891	0.0043	0.0109	CYB561D2	cytochrom antisense	3	50365334	50368197	1	p21.31
ENSG00000176771	-1.195	-2.2894	0.0018	0.0048	NCKAP5	NCK-associ protein_co	2	1.33E+08	1.34E+08	-1	q21.2
ENSG00000197978	-1.1952	-2.2897	3.04E-06	1.20E-05	GOLGA6L9	golgin A6 f protein_co	15	82430018	82439153	1	q25.2
ENSG00000204138	-1.1956	-2.2904	3.26E-16	3.10E-15	PHACTR4	phosphata protein_co	1	28369603	28500369	1	p35.3
ENSG00000101236	-1.1958	-2.2907	2.98E-12	2.03E-11	RNF24	ring finger   protein_co	20	3927309	4015582	-1	p13
ENSG00000174579	-1.1959	-2.2909	2.34E-20	3.12E-19	MSL2	male-speci protein_co	3	1.36E+08	1.36E+08	-1	q22.3
ENSG00000128591	-1.1961	-2.2912	0.0003	0.0008	FLNC	filamin C, g protein_co	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000251603	-1.1963	-2.2916	0.0012	0.0034	RP11-164P12.4	antisense	4	1.52E+08	1.52E+08	1	q31.3
ENSG00000214022	-1.1965	-2.2918	2.39E-14	1.94E-13	REPIN1	replication protein_co	7	1.5E+08	1.5E+08	1	q36.1
ENSG00000188818	-1.1966	-2.292	0.0205	0.0453	ZDHHC11	zinc finger, protein_co	5	795606	850986	-1	p15.33
ENSG00000134247	-1.197	-2.2926	5.42E-15	4.62E-14	PTGFRN	prostaglan protein_co	1	1.17E+08	1.17E+08	1	p13.1
ENSG00000197362	-1.1971	-2.2927	1.17E-08	5.84E-08	ZNF786	zinc finger   protein_co	7	1.49E+08	1.49E+08	-1	q36.1
ENSG00000198742	-1.1983	-2.2947	1.42E-18	1.63E-17	SMURF1	SMAD spec protein_co	7	99027438	99144100	-1	q22.1
ENSG00000104067	-1.1985	-2.2949	8.13E-28	2.09E-26	TJP1	tight juncti protein_co	15	29699367	29968865	-1	q13.1
ENSG00000114423	-1.1985	-2.295	5.23E-12	3.50E-11	CBLB	Cbl proto-o protein_co	3	1.06E+08	1.06E+08	-1	q13.11
ENSG00000103126	-1.1988	-2.2955	2.21E-14	1.80E-13	AXIN1	axin 1 [Sou protein_co	16	287440	352673	-1	p13.3
ENSG00000279207	-1.1989	-2.2956	2.03E-07	9.02E-07	RP11-159D12.8	TEC	17	58095672	58101479	1	q22
ENSG00000175215	-1.1993	-2.2962	3.12E-20	4.13E-19	CTDSP2	CTD (carbo protein_co	12	57819927	57846739	-1	q14.1
ENSG00000128833	-1.1995	-2.2966	1.95E-13	1.47E-12	MYO5C	myosin VC protein_co	15	52192322	52295798	-1	q21.2
ENSG00000105397	-1.1996	-2.2968	7.26E-20	9.31E-19	TYK2	tyrosine kir protein_co	19	10350529	10380676	-1	p13.2
ENSG00000185049	-1.1999	-2.2973	1.24E-12	8.71E-12	NELFA	negative el protein_co	4	1982714	2041903	-1	p16.3

ENSG00000197093	-1.1999	-2.2973	0.0009	0.0025	GAL3ST4	galactose-3protein_co	7	1E+08	1E+08	-1	q22.1
ENSG00000112852	-1.1999	-2.2973	0.001	0.0028	PCDHB2	protocadherin protein_co	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000184307	-1.2003	-2.2978	2.23E-12	1.53E-11	ZDHHC23	zinc finger, protein_co	3	1.14E+08	1.14E+08	1	q13.31
ENSG00000160216	-1.2005	-2.2982	7.16E-17	7.17E-16	AGPAT3	1-acylglycerol protein_co	21	43865186	43986536	1	q22.3
ENSG00000277559	-1.2005	-2.2982	0.0006	0.0017	RP11-434E6.4	lincRNA	16	54290965	54292422	1	q12.2
ENSG00000133026	-1.2009	-2.2988	2.37E-24	4.47E-23	MYH10	myosin, heavy chain protein_co	17	8474205	8630761	-1	p13.1
ENSG00000145945	-1.2013	-2.2994	1.93E-11	1.23E-10	FAM50B	family with protein_co	6	3849386	3851317	1	p25.2
ENSG00000144589	-1.2014	-2.2996	1.31E-10	7.75E-10	STK11IP	serine/threonine protein_co	2	2.2E+08	2.2E+08	1	q35
ENSG00000271425	-1.2016	-2.3	1.19E-06	4.92E-06	NBPF10	neuroblastoma protein_co	1	1.46E+08	1.46E+08	-1	q21.1
ENSG00000147133	-1.2017	-2.3002	2.06E-18	2.32E-17	TAF1	TAF1 RNA polymerase II protein_co X	7	71366239	71532374	1	q13.1
ENSG00000178665	-1.202	-2.3005	2.57E-05	9.09E-05	ZNF713	zinc finger protein_co	7	55887476	55942225	1	p11.2
ENSG00000169245	-1.202	-2.3005	0.0157	0.0355	CXCL10	chemokine protein_co	4	76021117	76023497	-1	q21.1
ENSG00000100395	-1.202	-2.3006	1.46E-16	1.43E-15	L3MBTL2	l(3)mbt-like protein_co	22	41205205	41231271	1	q13.2
ENSG00000166046	-1.202	-2.3006	7.38E-07	3.11E-06	TCP11L2	t-complex component protein_co	12	1.06E+08	1.06E+08	1	q23.3
ENSG00000138668	-1.202	-2.3007	6.67E-25	1.33E-23	HNRNPD	heterogeneous nuclear protein_co	4	82352498	82374503	-1	q21.22
ENSG00000141404	-1.2022	-2.3009	3.15E-05	0.0001	GNAL	guanine nucleotide binding protein_co	18	11688956	11885685	1	p11.21
ENSG00000105576	-1.2025	-2.3015	3.17E-23	5.40E-22	TNPO2	transport protein_co	19	12699194	12724011	-1	p13.13
ENSG00000196235	-1.2027	-2.3017	7.45E-24	1.35E-22	SUPT5H	suppressor protein_co	19	39436156	39476670	1	q13.2
ENSG00000088888	-1.2031	-2.3023	4.99E-25	1.01E-23	MAVS	mitochondrial antiviral signaling protein_co	20	3846799	3876123	1	p13
ENSG00000084070	-1.2032	-2.3024	3.86E-08	1.84E-07	SMAP2	small ArfGAP protein_co	1	40344850	40423326	1	p34.2
ENSG00000131370	-1.2038	-2.3034	3.95E-15	3.40E-14	SH3BP5	SH3-domain protein_co	3	15254853	15341368	-1	p25.1
ENSG00000131746	-1.2051	-2.3055	2.60E-06	1.03E-05	TNS4	tensin 4 [Scn] protein_co	17	40475828	40501597	-1	q21.2
ENSG00000130529	-1.2055	-2.3061	1.01E-14	8.48E-14	TRPM4	transient receptor potential protein_co	19	49157741	49211836	1	q13.33
ENSG00000100426	-1.2055	-2.3062	6.80E-16	6.24E-15	ZBED4	zinc finger protein_co	22	49853842	49890078	1	q13.33
ENSG00000142733	-1.2059	-2.3068	1.08E-21	1.63E-20	MAP3K6	mitogen-activated protein kinase protein_co	1	27355184	27366892	-1	p36.11
ENSG00000133477	-1.206	-2.307	8.96E-17	8.91E-16	FAM83F	family with protein_co	22	39994949	40043529	1	q13.1
ENSG00000174791	-1.206	-2.307	1.21E-12	8.55E-12	RIN1	Ras and Ral GTPase-activating protein_co	11	66330242	66336840	-1	q13.2
ENSG00000022840	-1.2064	-2.3076	1.60E-20	2.17E-19	RNF10	ring finger protein_co	12	1.21E+08	1.21E+08	1	q24.31
ENSG00000198932	-1.2067	-2.308	0.0009	0.0024	GPRASP1	G protein-coupled receptor protein_co X	1	1.03E+08	1.03E+08	1	q22.1
ENSG00000178229	-1.2068	-2.3083	2.15E-08	1.04E-07	ZNF543	zinc finger protein_co	19	57320509	57330776	1	q13.43
ENSG00000141551	-1.2069	-2.3084	3.87E-25	7.89E-24	CSNK1D	casein kinase I protein_co	17	82239023	82273731	-1	q25.3
ENSG00000131018	-1.2071	-2.3087	0.0029	0.0075	SYNE1	spectrin repeat protein_co	6	1.52E+08	1.53E+08	-1	q25.2
ENSG00000101126	-1.2074	-2.3092	4.05E-28	1.09E-26	ADNP	activity-dependent protein_co	20	50888919	50931240	-1	q13.13
ENSG00000172081	-1.2076	-2.3096	3.13E-14	2.52E-13	MOB3A	MOB kinase protein_co	19	2071038	2096673	-1	p13.3
ENSG00000084093	-1.2079	-2.31	5.82E-37	3.87E-35	REST	RE1-silencing transcription factor protein_co	4	56907876	56935844	1	q12
ENSG00000083844	-1.2087	-2.3112	2.20E-25	4.60E-24	ZNF264	zinc finger protein_co	19	57191500	57222846	1	q13.43
ENSG00000162599	-1.2087	-2.3113	7.25E-25	1.43E-23	NFIA	nuclear factor protein_co	1	60865259	61462793	1	p31.3
ENSG00000271254	-1.2088	-2.3115	2.32E-07	1.03E-06	AC240274.1	Neuroblastoma protein_co KI270711.1	1	4612	29626	-1	
ENSG00000136878	-1.2089	-2.3116	1.58E-23	2.78E-22	USP20	ubiquitin-specific protease protein_co	9	1.3E+08	1.3E+08	1	q34.11
ENSG00000187492	-1.209	-2.3117	0.0228	0.0497	CDHR4	cadherin-related protein_co	3	49790732	49799835	-1	p21.31
ENSG00000111252	-1.2094	-2.3124	3.70E-07	1.60E-06	SH2B3	SH2B adaptor protein_co	12	1.11E+08	1.11E+08	1	q24.12



ENSG00000090447	-1.2095	-2.3126	0.0011	0.003 TFAP4	transcriptic protein_co	16	4257186	4273075	-1 p13.3
ENSG00000178919	-1.2097	-2.3129	0.0013	0.0036 FOXE1	forkhead b protein_co	9	97853254	97856715	1 q22.33
ENSG00000169891	-1.21	-2.3133	2.01E-14	1.64E-13 REPS2	RALBP1 ass protein_co X		16946691	17153280	1 p22.2
ENSG00000174233	-1.2101	-2.3135	8.56E-24	1.54E-22 ADCY6	adenylate c protein_co	12	48766194	48789037	-1 q13.12
ENSG00000089199	-1.2106	-2.3143	0.0134	0.0308 CHGB	chromogra protein_co	20	5911430	5925361	1 p12.3
ENSG00000178951	-1.2107	-2.3145	1.50E-27	3.82E-26 ZBTB7A	zinc finger protein_co	19	4044364	4066945	-1 p13.3
ENSG00000253200	-1.2107	-2.3146	3.60E-05	0.0001 RP11-582J16.5	antisense	8	22613908	22616657	-1 p21.3
ENSG00000198026	-1.2109	-2.3148	1.72E-13	1.30E-12 ZNF335	zinc finger protein_co	20	45948653	45972172	-1 q13.12
ENSG00000105220	-1.2109	-2.3149	9.77E-16	8.83E-15 GPI	glucose-6-p protein_co	19	34359480	34402156	1 q13.11
ENSG00000178363	-1.2114	-2.3157	0.0024	0.0064 CALML3	calmodulin protein_co	10	5524009	5526771	1 p15.1
ENSG00000164442	-1.212	-2.3166	4.00E-18	4.41E-17 CITED2	Cbp/p300-i protein_co	6	1.39E+08	1.39E+08	-1 q24.1
ENSG00000135736	-1.2121	-2.3168	1.40E-06	5.72E-06 CCDC102A	coiled-coil protein_co	16	57512178	57536599	-1 q21
ENSG00000076067	-1.2123	-2.3171	9.11E-16	8.25E-15 RBMS2	RNA bindin protein_co	12	56521929	56596196	1 q13.3
ENSG00000088002	-1.2124	-2.3173	0.0012	0.0033 SULT2B1	sulfotransf protein_co	19	48552075	48599425	1 q13.33
ENSG00000105808	-1.2135	-2.319	0.0049	0.0124 RASA4	RAS p21 pr protein_co	7	1.03E+08	1.03E+08	-1 q22.1
ENSG00000105771	-1.2137	-2.3193	8.54E-17	8.52E-16 SMG9	SMG9 nons protein_co	19	43727992	43754990	-1 q13.31
ENSG00000089159	-1.2137	-2.3193	4.59E-14	3.63E-13 PXN	paxillin [So protein_co	12	1.2E+08	1.2E+08	-1 q24.23
ENSG00000260912	-1.2137	-2.3194	1.55E-10	9.12E-10 RP11-363E7.4	sense_over	9	19453209	19455173	1 p22.1
ENSG00000160949	-1.2138	-2.3195	1.02E-05	3.79E-05 TONSL	tonsoku-lik protein_co	8	1.44E+08	1.44E+08	-1 q24.3
ENSG00000141012	-1.214	-2.3198	6.42E-07	2.72E-06 GALNS	galactosam protein_co	16	88813734	88856970	-1 q24.3
ENSG00000058668	-1.2147	-2.321	4.52E-21	6.42E-20 ATP2B4	ATPase, Ca protein_co	1	2.04E+08	2.04E+08	1 q32.1
ENSG00000124587	-1.2152	-2.3218	1.17E-12	8.25E-12 PEX6	peroxisom protein_co	6	42963870	42979220	-1 p21.1
ENSG00000128594	-1.2158	-2.3227	5.19E-11	3.19E-10 LRRC4	leucine ric protein_co	7	1.28E+08	1.28E+08	-1 q32.1
ENSG00000162849	-1.216	-2.323	1.73E-05	6.23E-05 KIF26B	kinesin far protein_co	1	2.45E+08	2.46E+08	1 q44
ENSG00000181192	-1.2164	-2.3237	2.34E-17	2.43E-16 DHTKD1	dehydroge protein_co	10	12068972	12123225	1 p14
ENSG00000132003	-1.2169	-2.3245	1.83E-10	1.07E-09 ZSWIM4	zinc finger, protein_co	19	13795460	13832230	1 p13.13
ENSG00000213694	-1.2169	-2.3245	0.0025	0.0065 S1PR3	sphingosin protein_co	9	88991447	89005010	1 q22.1
ENSG00000173889	-1.2172	-2.325	5.67E-40	5.28E-38 PHC3	polyhomec protein_co	3	1.7E+08	1.7E+08	-1 q26.2
ENSG00000160710	-1.2174	-2.3252	8.83E-26	1.92E-24 ADAR	adenosine protein_co	1	1.55E+08	1.55E+08	-1 q21.3
ENSG00000111087	-1.2178	-2.326	0.0062	0.0153 GLI1	GLI family z protein_co	12	57460135	57472262	1 q13.3
ENSG00000215271	-1.2185	-2.327	6.24E-26	1.37E-24 HOMEZ	homeobox protein_co	14	23272422	23299447	-1 q11.2
ENSG00000185112	-1.2185	-2.3271	6.55E-06	2.48E-05 FAM43A	family with protein_co	3	1.95E+08	1.95E+08	1 q29
ENSG00000109320	-1.219	-2.3279	1.57E-25	3.32E-24 NFKB1	nuclear fac protein_co	4	1.03E+08	1.03E+08	1 q24
ENSG00000168264	-1.2196	-2.3288	1.29E-28	3.61E-27 IRF2BP2	interferon i protein_co	1	2.35E+08	2.35E+08	-1 q42.3
ENSG00000150347	-1.22	-2.3294	1.17E-12	8.24E-12 ARID5B	AT rich inte protein_co	10	61901300	62096944	1 q21.2
ENSG00000110841	-1.2202	-2.3299	2.00E-13	1.50E-12 PPFIBP1	PTPRF inter protein_co	12	27523431	27695564	1 p11.23
ENSG00000253598	-1.2203	-2.3299	1.62E-08	7.95E-08 SLC10A5	solute carri protein_co	8	81693607	81696174	-1 q21.13
ENSG00000179409	-1.2203	-2.33	4.85E-21	6.86E-20 GEMIN4	gem (nucle protein_co	17	744414	753999	-1 p13.3
ENSG00000064270	-1.2208	-2.3307	2.23E-16	2.14E-15 ATP2C2	ATPase, Ca protein_co	16	84368527	84464187	1 q24.1
ENSG00000151176	-1.2208	-2.3308	7.56E-09	3.83E-08 PLBD2	phospholip protein_co	12	1.13E+08	1.13E+08	1 q24.13
ENSG00000137266	-1.2209	-2.3309	3.53E-12	2.39E-11 SLC22A23	solute carri protein_co	6	3268962	3457022	-1 p25.2

ENSG00000169855	-1.2212	-2.3315	6.19E-11	3.79E-10	ROBO1	roundabou protein_co	3	78597240	79767815	-1	p12.3
ENSG00000268043	-1.2213	-2.3316	1.36E-15	1.21E-14	NBPF12	neuroblast protein_co	1	1.47E+08	1.47E+08	1	q21.1
ENSG00000168916	-1.2215	-2.3319	1.14E-10	6.79E-10	ZNF608	zinc finger protein_co	5	1.25E+08	1.25E+08	-1	q23.2
ENSG00000076770	-1.2224	-2.3333	3.14E-09	1.65E-08	MBNL3	muscleblind protein_co X		1.32E+08	1.32E+08	-1	q26.2
ENSG00000034152	-1.2224	-2.3334	2.47E-11	1.56E-10	MAP2K3	mitogen-act protein_co	17	21284672	21315240	1	p11.2
ENSG00000168067	-1.2224	-2.3334	3.82E-09	1.99E-08	MAP4K2	mitogen-act protein_co	11	64788818	64803241	-1	q13.1
ENSG00000177076	-1.2228	-2.334	2.75E-11	1.73E-10	ACER2	alkaline cer protein_co	9	19409059	19452020	1	p22.1
ENSG00000131473	-1.2232	-2.3346	4.07E-21	5.82E-20	ACLY	ATP citrate protein_co	17	41866908	41930542	-1	q21.2
ENSG00000275234	-1.2233	-2.3348	2.11E-11	1.34E-10	CTD-2396E7.11	antisense	19	6469465	6470152	1	p13.3
ENSG00000126746	-1.2237	-2.3354	1.83E-20	2.46E-19	ZNF384	zinc finger protein_co	12	6666477	6689572	-1	p13.31
ENSG00000134644	-1.2239	-2.3358	4.41E-37	2.97E-35	PUM1	pumilio RN protein_co	1	30931506	31065991	-1	p35.2
ENSG00000177733	-1.2248	-2.3372	4.54E-40	4.28E-38	HNRNPA0	heterogene protein_co	5	1.38E+08	1.38E+08	-1	q31.2
ENSG00000162241	-1.225	-2.3375	0.0086	0.0205	SLC25A45	solute carri protein_co	11	65375192	65383701	-1	q13.1
ENSG00000230797	-1.2258	-2.3388	0.0139	0.0317	YY2	YY2 transcr protein_co X		21855987	21858727	1	p22.12
ENSG00000166436	-1.2261	-2.3394	3.42E-14	2.74E-13	TRIM66	tripartite r protein_co	11	8612037	8671866	-1	p15.4
ENSG00000174370	-1.2263	-2.3397	9.87E-05	0.0003	C11orf45	chromoson protein_co	11	1.29E+08	1.29E+08	-1	q24.3
ENSG00000070770	-1.2266	-2.3401	7.21E-25	1.42E-23	CSNK2A2	casein kina protein_co	16	58157907	58197920	-1	q21
ENSG00000110987	-1.2269	-2.3406	1.99E-11	1.26E-10	BCL7A	B-cell CLL/l protein_co	12	1.22E+08	1.22E+08	1	q24.31
ENSG00000078246	-1.2272	-2.3411	0.0002	0.0007	TULP3	tubby like protein_co	12	2877223	2941140	1	p13.33
ENSG00000113368	-1.2273	-2.3412	0.0055	0.0136	LMNB1	lamin B1 [S protein_co	5	1.27E+08	1.27E+08	1	q23.2
ENSG00000205903	-1.2274	-2.3415	4.22E-26	9.42E-25	ZNF316	zinc finger protein_co	7	6637322	6656432	1	p22.1
ENSG00000228594	-1.228	-2.3424	1.18E-07	5.36E-07	C1orf233	chromoson protein_co	1	1598011	1600096	-1	p36.33
ENSG00000070413	-1.2287	-2.3435	6.03E-14	4.73E-13	DGCR2	DiGeorge s protein_co	22	19036282	19122454	-1	q11.21
ENSG00000010610	-1.2288	-2.3438	0.0051	0.0128	CD4	CD4 moleci protein_co	12	6786858	6820808	1	p13.31
ENSG00000088854	-1.229	-2.344	2.26E-22	3.59E-21	C20orf194	chromoson protein_co	20	3249305	3407625	-1	p13
ENSG00000198740	-1.229	-2.344	2.62E-18	2.92E-17	ZNF652	zinc finger protein_co	17	49289206	49362473	-1	q21.33
ENSG00000140320	-1.229	-2.3441	8.76E-20	1.12E-18	BAHD1	bromo adja protein_co	15	40439721	40468242	1	q15.1
ENSG00000198586	-1.2292	-2.3443	1.60E-24	3.06E-23	TLK1	tousled-like protein_co	2	1.71E+08	1.71E+08	-1	q31.1
ENSG00000157106	-1.2293	-2.3446	3.18E-28	8.63E-27	SMG1	SMG1 phos protein_co	16	18804853	18926454	-1	p12.3
ENSG00000137478	-1.2301	-2.3459	1.29E-22	2.09E-21	FCHSD2	FCH and dc protein_co	11	72836745	73142261	-1	q13.4
ENSG00000047849	-1.2301	-2.3459	4.06E-16	3.82E-15	MAP4	microtubul protein_co	3	47850690	48089272	-1	p21.31
ENSG00000105376	-1.2301	-2.3459	2.02E-08	9.86E-08	ICAM5	intercellula protein_co	19	10289981	10296778	1	p13.2
ENSG00000137693	-1.2305	-2.3465	3.13E-34	1.55E-32	YAP1	Yes-associa protein_co	11	1.02E+08	1.02E+08	1	q22.1
ENSG00000156966	-1.2314	-2.348	3.03E-20	4.01E-19	B3GNT7	UDP-GlcNA protein_co	2	2.31E+08	2.31E+08	1	q37.1
ENSG00000175874	-1.2316	-2.3483	0.0208	0.0458	CREG2	cellular rep protein_co	2	1.01E+08	1.01E+08	-1	q11.2
ENSG00000153162	-1.2319	-2.3487	0.0129	0.0298	BMP6	bone morp protein_co	6	7726797	7881422	1	p24.3
ENSG00000179364	-1.2321	-2.3491	2.14E-18	2.40E-17	PACS2	phosphofui protein_co	14	1.05E+08	1.05E+08	1	q32.33
ENSG00000277363	-1.2326	-2.3499	0.0082	0.0198	SRCIN1	SRC kinase protein_co	17	38530016	38605930	-1	q12
ENSG00000272734	-1.2327	-2.35	0.0124	0.0286	ADIRF-AS1	ADIRF antis processed_	10	86965345	86971311	-1	q23.2
ENSG00000127603	-1.2327	-2.3501	1.45E-30	4.84E-29	MACF1	microtubul protein_co	1	39081316	39487177	1	p34.3
ENSG00000143294	-1.2331	-2.3508	7.09E-25	1.41E-23	PRCC	papillary re protein_co	1	1.57E+08	1.57E+08	1	q23.1

ENSG00000149657	-1.2337	-2.3517	9.34E-25	1.83E-23	LSM14B	LSM14B, S protein_co	20	62122461	62135378	1	q13.33
ENSG00000148200	-1.2338	-2.3519	5.47E-07	2.33E-06	NR6A1	nuclear rec protein_co	9	1.25E+08	1.25E+08	-1	q33.3
ENSG00000124006	-1.2341	-2.3523	7.92E-13	5.67E-12	OBSL1	obscurin-like protein_co	2	2.2E+08	2.2E+08	-1	q35
ENSG00000168502	-1.2345	-2.3529	8.60E-05	0.0003	MTCL1	microtubul protein_co	18	8705661	8832778	1	p11.22
ENSG00000035862	-1.2346	-2.3531	1.94E-06	7.79E-06	TIMP2	TIMP meta protein_co	17	78852977	78925387	-1	q25.3
ENSG00000066248	-1.2348	-2.3534	0.017	0.0381	NGEF	neuronal g protein_co	2	2.33E+08	2.33E+08	-1	q37.1
ENSG00000070756	-1.235	-2.3539	5.94E-19	7.04E-18	PABPC1	poly(A) bin protein_co	8	1.01E+08	1.01E+08	-1	q22.3
ENSG00000167930	-1.2351	-2.3539	2.80E-10	1.61E-09	ITFG3	integrin alp protein_co	16	234546	268971	1	p13.3
ENSG00000158258	-1.235	-2.3539	0.0117	0.0272	CLSTN2	calsyntenin protein_co	3	1.4E+08	1.41E+08	1	q23
ENSG00000090863	-1.2354	-2.3545	1.90E-16	1.84E-15	GLG1	golgi glyco protein_co	16	74451958	74607114	-1	q23.1
ENSG00000178502	-1.2354	-2.3545	6.14E-10	3.43E-09	KLHL11	kelch-like fi protein_co	17	41853545	41865431	-1	q21.2
ENSG00000070614	-1.2356	-2.3549	4.20E-08	2.00E-07	NDST1	N-deacetyl protein_co	5	1.5E+08	1.51E+08	1	q33.1
ENSG00000198455	-1.2358	-2.3552	7.86E-11	4.77E-10	ZXDB	zinc finger, protein_co X		57591652	57597545	1	p11.21
ENSG00000106789	-1.2361	-2.3556	2.39E-24	4.49E-23	CORO2A	coronin, ac protein_co	9	98120975	98192640	-1	q22.33
ENSG00000169668	-1.2364	-2.3561	0.0057	0.0141	BCRP2	breakpoint transcribed	22	21103016	21122285	1	q11.21
ENSG00000280120	-1.2367	-2.3566	0.0012	0.0033	RP11-546D6.3	TEC	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000105287	-1.2368	-2.3568	5.43E-16	5.04E-15	PRKD2	protein kin protein_co	19	46674275	46717127	-1	q13.32
ENSG00000091542	-1.2372	-2.3573	1.16E-25	2.49E-24	ALKBH5	AlkB family protein_co	17	18183078	18209954	1	p11.2
ENSG00000185621	-1.2373	-2.3575	2.15E-06	8.63E-06	LMLN	leishmanol protein_co	3	1.98E+08	1.98E+08	1	q29
ENSG00000260032	-1.2382	-2.3591	1.85E-51	6.65E-49	LINC00657	long interg lincRNA	20	36045622	36050960	-1	q11.23
ENSG00000116198	-1.2382	-2.3591	3.30E-29	9.78E-28	CEP104	centrosom protein_co	1	3812081	3857214	-1	p36.32
ENSG00000206567	-1.2387	-2.3599	0.0026	0.0068	AC022007.5	lincRNA	3	10006418	10011209	-1	p25.3
ENSG00000167291	-1.2403	-2.3625	7.55E-20	9.66E-19	TBC1D16	TBC1 doma protein_co	17	79932343	80035848	-1	q25.3
ENSG00000110900	-1.2406	-2.3629	0.0049	0.0123	TSPAN11	tetraspanin protein_co	12	30926428	30996599	1	p11.21
ENSG00000104419	-1.2408	-2.3633	0.0003	0.0009	NDRG1	N-myc dow protein_co	8	1.33E+08	1.33E+08	-1	q24.22
ENSG00000144791	-1.2414	-2.3642	5.06E-22	7.83E-21	LIMD1	LIM domai protein_co	3	45555394	45686338	1	p21.31
ENSG00000142327	-1.2415	-2.3644	9.20E-14	7.10E-13	RNPEPL1	arginyl ami protein_co	2	2.41E+08	2.41E+08	1	q37.3
ENSG00000115904	-1.2415	-2.3645	3.56E-41	3.93E-39	SOS1	son of seve protein_co	2	38981396	39124345	-1	p22.1
ENSG00000003137	-1.2425	-2.3661	0.0043	0.011	CYP26B1	cytochrom protein_co	2	72129238	72148038	-1	p13.2
ENSG00000113231	-1.2426	-2.3663	0.0218	0.0478	PDE8B	phosphodie protein_co	5	77210449	77429807	1	q13.3
ENSG00000106290	-1.2427	-2.3664	7.08E-18	7.65E-17	TAF6	TAF6 RNA protein_co	7	1E+08	1E+08	-1	q22.1
ENSG00000266028	-1.2429	-2.3668	9.59E-17	9.50E-16	SRGAP2	SLIT-ROBO protein_co	1	2.06E+08	2.06E+08	1	q32.1
ENSG00000150281	-1.2434	-2.3675	3.12E-05	0.0001	CTF1	cardiotrop protein_co	16	30896607	30903560	1	p11.2
ENSG00000268543	-1.2435	-2.3677	0.0106	0.0248	CTD-2619J13.16	TEC	19	58418560	58419310	1	q13.43
ENSG00000278129	-1.2436	-2.3678	8.27E-14	6.42E-13	ZNF8	zinc finger protein_co	19	58278951	58302805	1	q13.43
ENSG00000140497	-1.2436	-2.3679	1.04E-22	1.69E-21	SCAMP2	secretory c protein_co	15	74843730	74873365	-1	q24.1
ENSG00000227252	-1.2439	-2.3683	0.0015	0.0041	AC105760.2	antisense	2	2.37E+08	2.37E+08	-1	q37.3
ENSG00000173218	-1.244	-2.3686	2.78E-18	3.10E-17	VANGL1	VANGL plar protein_co	1	1.16E+08	1.16E+08	1	p13.1
ENSG00000128881	-1.2442	-2.3689	1.21E-12	8.53E-12	TTBK2	tau tubulin protein_co	15	42738734	42920809	-1	q15.2
ENSG00000144810	-1.2442	-2.3689	1.86E-05	6.67E-05	COL8A1	collagen, ty protein_co	3	99638475	99799226	1	q12.1
ENSG00000164938	-1.2449	-2.3699	1.05E-23	1.87E-22	TP53INP1	tumor prot protein_co	8	94925972	94949411	-1	q22.1

ENSG00000139436	-1.245	-2.3702	6.65E-23	1.10E-21	GIT2	G protein-c protein_co	12	1.1E+08	1.1E+08	-1	q24.11
ENSG00000133424	-1.2461	-2.372	8.57E-16	7.80E-15	LARGE	like-glycosy protein_co	22	33162226	33922841	-1	q12.3
ENSG00000142002	-1.2462	-2.3722	1.38E-10	8.17E-10	DPP9	dipeptidyl-  protein_co	19	4675224	4724673	-1	p13.3
ENSG00000125484	-1.2465	-2.3727	3.16E-34	1.56E-32	GTF3C4	general tra protein_co	9	1.33E+08	1.33E+08	1	q34.13
ENSG00000100403	-1.2466	-2.3728	3.92E-13	2.88E-12	ZC3H7B	zinc finger   protein_co	22	41301522	41360147	1	q13.2
ENSG00000072786	-1.2468	-2.3732	5.89E-09	3.02E-08	STK10	serine/thre protein_co	5	1.72E+08	1.72E+08	-1	q35.1
ENSG00000133808	-1.2471	-2.3736	5.83E-08	2.74E-07	MICALCL	MICAL C-te protein_co	11	12276080	12359144	1	p15.3
ENSG00000211584	-1.2472	-2.3738	1.33E-11	8.55E-11	SLC48A1	solute carri protein_co	12	47753916	47782753	1	q13.11
ENSG00000197565	-1.2478	-2.3747	4.82E-05	0.0002	COL4A6	collagen, ty protein_co X		1.08E+08	1.08E+08	-1	q22.3
ENSG00000138622	-1.248	-2.3752	0.0166	0.0373	HCN4	hyperpolar protein_co	15	73319859	73369264	-1	q24.1
ENSG00000113300	-1.2482	-2.3754	2.95E-36	1.77E-34	CNOT6	CCR4-NOT   protein_co	5	1.8E+08	1.81E+08	1	q35.3
ENSG00000171206	-1.2483	-2.3757	3.19E-29	9.47E-28	TRIM8	tripartite r protein_co	10	1.03E+08	1.03E+08	1	q24.32
ENSG00000011677	-1.2484	-2.3757	0.0137	0.0314	GABRA3	gamma-am protein_co X		1.52E+08	1.52E+08	-1	q28
ENSG00000143772	-1.2484	-2.3758	1.99E-17	2.07E-16	ITPKB	inositol-tris protein_co	1	2.27E+08	2.27E+08	-1	q42.12
ENSG00000159658	-1.2489	-2.3766	3.81E-31	1.33E-29	EFCAB14	EF-hand ca protein_co	1	46675159	46719064	-1	p33
ENSG00000140022	-1.2493	-2.3773	2.28E-11	1.44E-10	STON2	stonin 2 [Sc protein_co	14	81260656	81436465	-1	q31.1
ENSG00000116731	-1.2494	-2.3774	6.27E-20	8.10E-19	PRDM2	PR domain protein_co	1	13700198	13825079	1	p36.21
ENSG00000170145	-1.2495	-2.3776	4.21E-14	3.35E-13	SIK2	salt-inducit protein_co	11	1.12E+08	1.12E+08	1	q23.1
ENSG00000166484	-1.2495	-2.3777	5.18E-11	3.19E-10	MAPK7	mitogen-ac protein_co	17	19377721	19383544	1	p11.2
ENSG00000169180	-1.2497	-2.3778	3.24E-27	8.00E-26	XPO6	exportin 6   protein_co	16	28097979	28211920	-1	p12.1
ENSG00000146955	-1.2497	-2.3779	9.20E-05	0.0003	RAB19	RAB19, me protein_co	7	1.4E+08	1.4E+08	1	q34
ENSG00000130518	-1.2498	-2.378	0.0027	0.0071	KIAA1683	KIAA1683 [ protein_co	19	18257097	18274509	-1	p13.11
ENSG00000177034	-1.2499	-2.3782	7.54E-37	4.87E-35	MTX3	metaxin 3 [ protein_co	5	79976731	79991262	-1	q14.1
ENSG00000006025	-1.2504	-2.3791	1.17E-14	9.75E-14	OSBPL7	oxysterol b protein_co	17	47807372	47821834	-1	q21.32
ENSG00000124181	-1.2505	-2.3793	2.75E-10	1.58E-09	PLCG1	phospholip protein_co	20	41136960	41196787	1	q12
ENSG00000128604	-1.2507	-2.3795	0.0001	0.0004	IRF5	interferon   protein_co	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000148735	-1.2508	-2.3797	9.79E-09	4.91E-08	PLEKHS1	pleckstrin   protein_co	10	1.14E+08	1.14E+08	1	q25.3
ENSG00000128567	-1.2508	-2.3797	2.02E-07	8.98E-07	PODXL	podocalyxii protein_co	7	1.32E+08	1.32E+08	-1	q32.3
ENSG00000168763	-1.2511	-2.3802	2.27E-23	3.92E-22	CNNM3	cyclin and ( protein_co	2	96816245	96833911	1	q11.2
ENSG00000272947	-1.2511	-2.3802	0.0092	0.0219	RP11-71H17.9	lincRNA	3	1.25E+08	1.25E+08	1	q21.2
ENSG00000168924	-1.2512	-2.3803	8.90E-16	8.09E-15	LETM1	leucine zip  protein_co	4	1811479	1856247	-1	p16.3
ENSG00000170471	-1.2512	-2.3805	1.29E-25	2.76E-24	RALGAPB	Ral GTPase protein_co	20	38472816	38578861	1	q11.23
ENSG00000261662	-1.2515	-2.3808	0.0033	0.0086	RP5-1042I8.7	sense_over	1	1.2E+08	1.2E+08	-1	p12
ENSG00000084463	-1.2516	-2.381	2.59E-25	5.38E-24	WBP11	WW domai protein_co	12	14784579	14803540	-1	p12.3
ENSG00000081377	-1.2516	-2.3811	2.11E-29	6.39E-28	CDC14B	cell divisior protein_co	9	96490241	96619830	-1	q22.33
ENSG00000104081	-1.2522	-2.382	1.13E-07	5.14E-07	BMF	Bcl2 modify protein_co	15	40087890	40108892	-1	q15.1
ENSG00000102081	-1.2523	-2.3822	1.00E-17	1.07E-16	FMR1	fragile X m  protein_co X		1.48E+08	1.48E+08	1	q27.3
ENSG00000100599	-1.2523	-2.3822	2.66E-14	2.15E-13	RIN3	Ras and Ral protein_co	14	92513774	92688994	1	q32.12
ENSG00000278540	-1.2525	-2.3826	1.84E-23	3.23E-22	ACACA	acetyl-CoA protein_co	17	37084988	37406818	-1	q12
ENSG00000119866	-1.2526	-2.3827	1.74E-08	8.56E-08	BCL11A	B-cell CLL/I protein_co	2	60451167	60553567	-1	p16.1
ENSG00000156983	-1.2526	-2.3828	2.71E-15	2.36E-14	BRPF1	bromodom protein_co	3	9731729	9748018	1	p25.3

ENSG00000270959	-1.2532	-2.3837	1.92E-07	8.56E-07	LPP-AS2	LPP antiser antisense	3	1.88E+08	1.88E+08	-1	q27.3
ENSG00000141664	-1.2536	-2.3844	8.57E-21	1.19E-19	ZCCHC2	zinc finger, protein_co	18	62523007	62587709	1	q21.33
ENSG00000146278	-1.2539	-2.3849	6.62E-25	1.32E-23	PNRC1	proline-rich protein_co	6	89080751	89085160	1	q15
ENSG00000108602	-1.2539	-2.3849	0.0165	0.0371	ALDH3A1	aldehyde d protein_co	17	19737984	19748943	-1	p11.2
ENSG00000251161	-1.2539	-2.3849	0.0172	0.0385	RP11-540O11.1	lincRNA	15	40906811	40910337	1	q15.1
ENSG00000173039	-1.2544	-2.3857	2.27E-19	2.78E-18	RELA	v-rel avian protein_co	11	65653596	65663094	-1	q13.1
ENSG00000204574	-1.2547	-2.3862	1.01E-19	1.28E-18	ABCF1	ATP-binding protein_co	6	30571376	30597179	1	p21.33
ENSG00000121774	-1.2548	-2.3864	2.41E-24	4.53E-23	KHDRBS1	KH domain protein_co	1	32013829	32060850	1	p35.2
ENSG00000234286	-1.2554	-2.3873	0.0111	0.026	AC006026.13	antisense	7	23680195	23680786	-1	p15.3
ENSG00000215041	-1.2559	-2.3882	8.71E-14	6.74E-13	NEURL4	neuralized protein_co	17	7315628	7329393	-1	p13.1
ENSG00000099812	-1.2562	-2.3887	1.70E-14	1.40E-13	MISP	mitotic spir protein_co	19	751126	764319	1	p13.3
ENSG00000101347	-1.2571	-2.3901	9.01E-05	0.0003	SAMHD1	SAM doma protein_co	20	36890229	36951843	-1	q11.23
ENSG00000055483	-1.2576	-2.391	5.56E-21	7.84E-20	USP36	ubiquitin s protein_co	17	78787381	78841441	-1	q25.3
ENSG00000105227	-1.2578	-2.3913	7.54E-06	2.83E-05	PRX	periaxin [Sc protein_co	19	40393768	40413366	-1	q13.2
ENSG00000272077	-1.2578	-2.3914	0.0013	0.0035	RP11-348P10.2	lincRNA	3	44667412	44669364	1	p21.31
ENSG00000198734	-1.2581	-2.3918	0.0047	0.0117	F5	coagulator protein_co	1	1.7E+08	1.7E+08	-1	q24.2
ENSG00000018408	-1.2585	-2.3924	3.83E-15	3.30E-14	WWTR1	WW domai protein_co	3	1.5E+08	1.5E+08	-1	q25.1
ENSG00000161905	-1.2585	-2.3925	0.0002	0.0006	ALOX15	arachidona protein_co	17	4630902	4642294	-1	p13.2
ENSG00000163625	-1.2589	-2.3931	1.49E-31	5.46E-30	WDFY3	WD repeat protein_co	4	84669610	84966391	-1	q21.23
ENSG00000141084	-1.259	-2.3933	3.59E-18	3.97E-17	RANBP10	RAN bindin protein_co	16	67723066	67806652	-1	q22.1
ENSG00000120451	-1.2591	-2.3935	1.05E-27	2.69E-26	SNX19	sorting nex protein_co	11	1.31E+08	1.31E+08	-1	q25
ENSG00000177051	-1.2591	-2.3935	1.33E-13	1.01E-12	FBXO46	F-box prote protein_co	19	45710629	45730904	-1	q13.32
ENSG00000131759	-1.2597	-2.3945	1.04E-16	1.02E-15	RARA	retinoic aci protein_co	17	40309192	40357643	1	q21.2
ENSG00000105613	-1.2606	-2.3959	0.0201	0.0443	MAST1	microtubul protein_co	19	12833951	12874951	1	p13.13
ENSG00000132825	-1.2611	-2.3969	3.71E-16	3.52E-15	PPP1R3D	protein phc protein_co	20	59936668	59940297	-1	q13.33
ENSG00000122642	-1.2612	-2.397	3.82E-16	3.61E-15	FKBP9	FK506 bind protein_co	7	32957404	33006931	1	p14.3
ENSG00000138814	-1.2615	-2.3974	7.72E-15	6.50E-14	PPP3CA	protein phc protein_co	4	1.01E+08	1.01E+08	-1	q24
ENSG00000139044	-1.2616	-2.3977	3.09E-13	2.29E-12	B4GALNT3	beta-1,4-N- protein_co	12	460364	563509	1	p13.33
ENSG00000162769	-1.2621	-2.3984	1.60E-17	1.69E-16	FLVCR1	feline leuke protein_co	1	2.13E+08	2.13E+08	1	q32.3
ENSG00000011523	-1.2624	-2.3989	3.03E-12	2.06E-11	CEP68	centrosom: protein_co	2	65056366	65087004	1	p14
ENSG00000111271	-1.2626	-2.3993	6.45E-16	5.95E-15	ACAD10	acyl-CoA de protein_co	12	1.12E+08	1.12E+08	1	q24.12
ENSG00000084676	-1.2627	-2.3994	2.86E-15	2.49E-14	NCOA1	nuclear rec protein_co	2	24491914	24770702	1	p23.3
ENSG00000196411	-1.2637	-2.4011	5.57E-17	5.61E-16	EPHB4	EPH recept protein_co	7	1.01E+08	1.01E+08	-1	q22.1
ENSG00000184349	-1.2642	-2.402	7.76E-13	5.57E-12	EFNA5	ephrin-A5 [ protein_co	5	1.07E+08	1.08E+08	-1	q21.3
ENSG00000113430	-1.2649	-2.4031	0.0044	0.0111	IRX4	iroquois ho protein_co	5	1877413	1887236	-1	p15.33
ENSG00000226137	-1.265	-2.4032	1.30E-18	1.49E-17	BAIAP2-AS1	BAIAP2 ant lincRNA	17	81029133	81034881	-1	q25.3
ENSG00000126562	-1.265	-2.4033	0.0072	0.0176	WNK4	WNK lysine protein_co	17	42780678	42796936	1	q21.2
ENSG00000111199	-1.2652	-2.4036	9.03E-20	1.15E-18	TRPV4	transient re protein_co	12	1.1E+08	1.1E+08	-1	q24.11
ENSG00000099917	-1.2654	-2.4039	5.89E-20	7.63E-19	MED15	mediator c protein_co	22	20495913	20587632	1	q11.21
ENSG00000183853	-1.2656	-2.4042	7.55E-05	0.0003	KIRREL	kin of IRRE protein_co	1	1.58E+08	1.58E+08	1	q23.1
ENSG00000160131	-1.2656	-2.4043	9.45E-24	1.69E-22	VMA21	VMA21 vac protein_co X		1.51E+08	1.51E+08	1	q28



ENSG00000196453	-1.2657	-2.4045	8.56E-09	4.31E-08	ZNF777	zinc finger   protein_co	7	1.49E+08	1.49E+08	-1	q36.1
ENSG00000170549	-1.2661	-2.4051	0.0001	0.0005	IRX1	iroquois ho protein_co	5	3596054	3601403	1	p15.33
ENSG00000144893	-1.2666	-2.4059	5.76E-06	2.20E-05	MED12L	mediator c  protein_co	3	1.51E+08	1.51E+08	1	q25.1
ENSG00000100985	-1.2669	-2.4064	0.0067	0.0164	MMP9	matrix met protein_co	20	46008908	46016561	1	q13.12
ENSG00000127586	-1.2671	-2.4067	1.53E-06	6.24E-06	CTHF18	CTF18, chr  protein_co	16	788622	800737	1	p13.3
ENSG00000227359	-1.2675	-2.4075	0.0143	0.0327	AC017074.2	lincRNA	2	1.14E+08	1.14E+08	-1	q14.1
ENSG00000090621	-1.2679	-2.4081	4.65E-29	1.36E-27	PABPC4	poly(A) bin  protein_co	1	39560816	39576790	-1	p34.3
ENSG00000129514	-1.2687	-2.4094	4.78E-24	8.84E-23	FOXA1	forkhead b  protein_co	14	37589984	37596059	-1	q21.1
ENSG00000235314	-1.2698	-2.4113	0.0071	0.0174	LINC00957	long interg  lincRNA	7	44039171	44042306	1	p13
ENSG00000110697	-1.27	-2.4116	9.07E-07	3.79E-06	PITPNM1	phosphatid protein_co	11	67491768	67506263	-1	q13.2
ENSG00000163050	-1.2701	-2.4118	8.18E-08	3.78E-07	ADCK3	aarF domai protein_co	1	2.27E+08	2.27E+08	1	q42.13
ENSG00000073464	-1.2706	-2.4126	4.35E-15	3.73E-14	CLCN4	chloride ch protein_co X		10156945	10237660	1	p22.2
ENSG00000124177	-1.2711	-2.4135	7.33E-29	2.10E-27	CHD6	chromodor protein_co	20	41402101	41618494	-1	q12
ENSG00000185361	-1.2713	-2.4138	0.0124	0.0287	TNFAIP8L1	tumor necr protein_co	19	4639518	4655568	1	p13.3
ENSG00000196814	-1.2714	-2.414	1.95E-08	9.55E-08	MVB12B	multivesicu protein_co	9	1.26E+08	1.27E+08	1	q33.3
ENSG00000120896	-1.2718	-2.4146	1.58E-13	1.19E-12	SORBS3	sorbin and protein_co	8	22544986	22575788	1	p21.3
ENSG00000103994	-1.272	-2.415	2.01E-24	3.80E-23	ZNF106	zinc finger   protein_co	15	42412823	42491123	-1	q15.1
ENSG00000272899	-1.2721	-2.4151	0.0014	0.0039	RP11-309L24.4	lincRNA	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000139946	-1.2721	-2.4152	1.89E-07	8.44E-07	PELI2	pellino E3   protein_co	14	56117814	56301526	1	q22.3
ENSG00000064687	-1.2722	-2.4154	1.13E-13	8.69E-13	ABCA7	ATP-bindin  protein_co	19	1040101	1065572	1	p13.3
ENSG00000103512	-1.2729	-2.4164	1.55E-09	8.39E-09	NOMO1	NODAL mo protein_co	16	14833681	14896160	1	p13.11
ENSG00000165185	-1.2732	-2.4169	1.17E-08	5.83E-08	KIAA1958	KIAA1958 [ protein_co	9	1.12E+08	1.13E+08	1	q32
ENSG00000179588	-1.2734	-2.4173	1.06E-07	4.83E-07	ZFPM1	zinc finger   protein_co	16	88453317	88537016	1	q24.2
ENSG00000141738	-1.2741	-2.4185	3.74E-14	2.98E-13	GRB7	growth fact protein_co	17	39737927	39747291	1	q12
ENSG00000230555	-1.2752	-2.4203	0.0062	0.0153	RP11-517P14.2	lincRNA	10	43420738	43422100	1	q11.21
ENSG00000054654	-1.2754	-2.4207	4.36E-09	2.26E-08	SYNE2	spectrin rej  protein_co	14	63852983	64226433	1	q23.2
ENSG00000112655	-1.276	-2.4217	9.24E-12	6.03E-11	PTK7	protein tyri  protein_co	6	43076268	43161719	1	p21.1
ENSG00000012779	-1.2766	-2.4226	1.70E-07	7.65E-07	ALOX5	arachidona protein_co	10	45374176	45446119	1	q11.21
ENSG00000276043	-1.2774	-2.4241	0.0001	0.0004	UHRF1	ubiquitin-lil  protein_co	19	4903080	4962154	1	p13.3
ENSG00000141556	-1.2777	-2.4245	1.48E-19	1.83E-18	TBCD	tubulin folc  protein_co	17	82752064	82942848	1	q25.3
ENSG00000182749	-1.2777	-2.4246	7.76E-12	5.09E-11	PAQR7	progestin a  protein_co	1	25861210	25871253	-1	p36.11
ENSG00000225135	-1.2778	-2.4247	0.0001	0.0004	RP11-361F15.2	lincRNA	6	1.47E+08	1.47E+08	1	q24.3
ENSG00000223768	-1.2779	-2.4249	0.0003	0.001	LINC00205	long interg  lincRNA	21	45293285	45297354	1	q22.3
ENSG00000101191	-1.2784	-2.4257	3.91E-38	3.00E-36	DIDO1	death indu  protein_co	20	62877738	62937952	-1	q13.33
ENSG00000183208	-1.2787	-2.4261	1.06E-10	6.32E-10	GDPGP1	GDP-D-gluc  protein_co	15	90233808	90245811	1	q26.1
ENSG00000168014	-1.2789	-2.4266	1.48E-08	7.30E-08	C2CD3	C2 calcium-  protein_co	11	74012714	74171210	-1	q13.4
ENSG00000172375	-1.279	-2.4268	1.72E-07	7.72E-07	C2CD2L	C2CD2-like  protein_co	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000110237	-1.2798	-2.4281	1.38E-17	1.46E-16	ARHGEF17	Rho guanin  protein_co	11	73308289	73369091	1	q13.4
ENSG00000204580	-1.2807	-2.4295	1.38E-30	4.61E-29	DDR1	discoidin d  protein_co	6	30876421	30900156	1	p21.33
ENSG00000125285	-1.2812	-2.4305	6.44E-09	3.29E-08	SOX21	SRY (sex de  protein_co	13	94709622	94712399	-1	q32.1
ENSG00000261353	-1.2819	-2.4317	0.0066	0.0162	CTA-14H9.5	lincRNA	6	26527063	26527404	1	p22.2

ENSG00000148158	-1.2827	-2.4329	9.63E-21	1.33E-19	SNX30	sorting nex protein_co	9	1.13E+08	1.13E+08	1	q32
ENSG00000169057	-1.2831	-2.4336	1.40E-29	4.30E-28	MECP2	methyl CpC protein_co X		1.54E+08	1.54E+08	-1	q28
ENSG00000171467	-1.2833	-2.4339	7.17E-20	9.21E-19	ZNF318	zinc finger protein_co	6	43307134	43369478	-1	p21.1
ENSG00000130396	-1.2835	-2.4344	3.42E-08	1.64E-07	MLLT4	myeloid/ly protein_co	6	1.68E+08	1.68E+08	1	q27
ENSG00000140396	-1.2836	-2.4345	1.73E-25	3.65E-24	NCOA2	nuclear rec protein_co	8	70109762	70403805	-1	q13.3
ENSG00000100139	-1.2843	-2.4356	9.14E-11	5.51E-10	MICALL1	MICAL-like protein_co	22	37905657	37942822	1	q13.1
ENSG00000270021	-1.2843	-2.4357	0.0215	0.0472	CTC-203F4.2	antisense	5	1.35E+08	1.35E+08	1	q31.1
ENSG00000257923	-1.2847	-2.4362	9.99E-49	2.36E-46	CUX1	cut-like hor protein_co	7	1.02E+08	1.02E+08	1	q22.1
ENSG00000097007	-1.2847	-2.4363	1.54E-20	2.10E-19	ABL1	ABL proto-(protein_co	9	1.31E+08	1.31E+08	-1	q34.12
ENSG00000168610	-1.2848	-2.4365	1.43E-26	3.36E-25	STAT3	signal trans protein_co	17	42313324	42388568	-1	q21.2
ENSG00000100207	-1.285	-2.4368	7.65E-24	1.38E-22	TCF20	transcriptic protein_co	22	42160013	42343616	-1	q13.2
ENSG00000276008	-1.2854	-2.4374	0.0011	0.0031	RP11-137H15.4	lincRNA	14	22897265	22898438	-1	q11.2
ENSG00000131653	-1.2859	-2.4383	8.55E-18	9.21E-17	TRAF7	TNF recept protein_co	16	2155698	2178129	-1	p13.3
ENSG00000120685	-1.2861	-2.4386	6.79E-20	8.76E-19	PROSER1	proline and protein_co	13	39009866	39038076	-1	q13.3
ENSG00000261643	-1.2865	-2.4394	0.0193	0.0428	RP11-529E10.6	sense_over	4	3503597	3504457	-1	p16.3
ENSG00000203722	-1.2866	-2.4396	9.79E-07	4.07E-06	RAET1G	retinoic aci protein_co	6	1.5E+08	1.5E+08	-1	q25.1
ENSG00000172046	-1.287	-2.4402	3.38E-21	4.90E-20	USP19	ubiquitin s protein_co	3	49108046	49120938	-1	p21.31
ENSG00000006432	-1.2875	-2.4411	6.74E-12	4.45E-11	MAP3K9	mitogen-ac protein_co	14	70722526	70809534	-1	q24.2
ENSG00000074706	-1.2878	-2.4415	0.0001	0.0004	IPCEF1	interaction protein_co	6	1.54E+08	1.54E+08	-1	q25.2
ENSG00000178950	-1.2879	-2.4417	9.04E-34	4.12E-32	GAK	cyclin G ass protein_co	4	849276	932373	-1	p16.3
ENSG00000110514	-1.2879	-2.4418	8.24E-22	1.25E-20	MADD	MAP-kinas protein_co	11	47269161	47330031	1	p11.2
ENSG00000174871	-1.2884	-2.4426	0.0211	0.0464	CNIH2	cornichon f protein_co	11	66278190	66285301	1	q13.2
ENSG00000237669	-1.2886	-2.4428	0.0212	0.0465	HCG4P3	HLA compl unprocesse	6	30006121	30007116	-1	p22.1
ENSG00000141298	-1.2901	-2.4454	2.20E-14	1.79E-13	SSH2	slingshot pi protein_co	17	29625938	29930276	-1	q11.2
ENSG00000276855	-1.2908	-2.4466	7.64E-08	3.54E-07	CTD-3157E16.2	lincRNA	17	15789016	15789705	1	p12
ENSG00000177663	-1.2915	-2.4479	2.50E-22	3.95E-21	IL17RA	interleukin protein_co	22	17084954	17115694	1	q11.1
ENSG00000147459	-1.2918	-2.4483	1.07E-10	6.39E-10	DOCK5	dedicator c protein_co	8	25184723	25418082	1	p21.2
ENSG00000143515	-1.292	-2.4487	4.15E-06	1.61E-05	ATP8B2	ATPase, arr protein_co	1	1.54E+08	1.54E+08	1	q21.3
ENSG00000111752	-1.2921	-2.4488	1.27E-09	6.92E-09	PHC1	polyhomec protein_co	12	8913896	8941467	1	p13.31
ENSG00000088387	-1.2922	-2.449	7.68E-21	1.07E-19	DOCK9	dedicator c protein_co	13	98793487	99086625	-1	q32.3
ENSG00000187951	-1.2923	-2.4492	0.0016	0.0043	ARHGAP11B	Rho GTPas protein_co	15	30624494	30772993	1	q13.2
ENSG00000149658	-1.2931	-2.4506	2.99E-27	7.42E-26	YTHDF1	YTH domai protein_co	20	63195429	63216234	-1	q13.33
ENSG00000155254	-1.2934	-2.4511	1.74E-05	6.27E-05	MARVELD1	MARVEL dc protein_co	10	97713173	97718152	1	q24.2
ENSG00000062822	-1.2947	-2.4533	1.16E-09	6.37E-09	POLD1	polymerase protein_co	19	50384204	50418018	1	q13.33
ENSG00000167363	-1.2954	-2.4545	5.90E-10	3.30E-09	FN3K	fructosami protein_co	17	82735575	82751197	1	q25.3
ENSG00000276851	-1.2956	-2.4549	0.0059	0.0146	RP5-875H18.9	lincRNA	17	50094065	50094647	1	q21.33
ENSG00000145147	-1.2961	-2.4557	0.0199	0.044	SLIT2	slit homolo protein_co	4	20253260	20620561	1	p15.31
ENSG00000065923	-1.2963	-2.456	6.83E-09	3.47E-08	SLC9A7	solute carri protein_co X		46599252	46759172	-1	p11.3
ENSG00000171475	-1.2964	-2.4561	4.74E-27	1.16E-25	WIPF2	WAS/WASL protein_co	17	40219304	40284136	1	q21.2
ENSG00000105321	-1.2968	-2.4568	5.58E-18	6.09E-17	CCDC9	coiled-coil protein_co	19	47255980	47271953	1	q13.32
ENSG00000126603	-1.2972	-2.4575	2.95E-09	1.56E-08	GLIS2	GLIS family protein_co	16	4314761	4339597	1	p13.3

ENSG00000157240	-1.2978	-2.4585	1.04E-20	1.44E-19	FZD1	frizzled clas protein_co	7	91264364	91271326	1	q21.13
ENSG00000065802	-1.2988	-2.4603	2.64E-17	2.72E-16	ASB1	ankyrin rep protein_co	2	2.38E+08	2.38E+08	1	q37.3
ENSG00000109111	-1.299	-2.4606	5.22E-22	8.06E-21	SUPT6H	suppressor protein_co	17	28662091	28702684	1	q11.2
ENSG00000142973	-1.2991	-2.4608	6.33E-06	2.40E-05	CYP4B1	cytochrome protein_co	1	46757838	46819413	1	p33
ENSG00000135677	-1.2992	-2.4609	7.53E-24	1.36E-22	GNS	glucosamin protein_co	12	64713445	64759447	-1	q14.3
ENSG00000140403	-1.2992	-2.4609	0.0006	0.0018	DNAJA4	DnaJ (Hsp4) protein_co	15	78264086	78282196	1	q25.1
ENSG00000184677	-1.2993	-2.4611	1.60E-21	2.37E-20	ZBTB40	zinc finger protein_co	1	22451851	22531157	1	p36.12
ENSG00000127507	-1.2994	-2.4613	3.12E-08	1.50E-07	EMR2	egf-like mo protein_co	19	14732393	14778541	-1	p13.12
ENSG00000100234	-1.2996	-2.4617	0.0012	0.0034	TIMP3	TIMP meta protein_co	22	32801701	32863043	1	q12.3
ENSG00000165244	-1.3005	-2.4632	0.0224	0.0489	ZNF367	zinc finger protein_co	9	96385941	96418329	-1	q22.32
ENSG00000268628	-1.301	-2.464	0.0081	0.0195	RP1-122P22.4	lincRNA	20	19756390	19758037	-1	p11.23
ENSG00000279081	-1.3017	-2.4653	0.0174	0.039	AL356585.2	processed_	13	18206570	18207469	-1	q11
ENSG00000132749	-1.3021	-2.4659	0.0014	0.0038	MTL5	metallothio protein_co	11	68707440	68751564	-1	q13.3
ENSG00000141232	-1.3023	-2.4663	1.10E-19	1.39E-18	TOB1	transducer protein_co	17	50862223	50867978	-1	q21.33
ENSG00000263013	-1.3028	-2.4671	1.29E-05	4.72E-05	RP11-876N24.5	sense_intrc	16	10938886	10940044	-1	p13.13
ENSG00000116984	-1.3031	-2.4676	7.29E-25	1.44E-23	MTR	5-methylte protein_co	1	2.37E+08	2.37E+08	1	q43
ENSG00000260006	-1.3035	-2.4682	1.34E-05	4.88E-05	RP11-469M7.1	lincRNA	2	2.01E+08	2.01E+08	1	q33.1
ENSG00000164741	-1.3039	-2.469	0.0028	0.0074	DLC1	DLC1 Rho G protein_co	8	13083361	13515658	-1	p22
ENSG00000142627	-1.3049	-2.4707	7.83E-26	1.70E-24	EPHA2	EPH recept protein_co	1	16124337	16156087	-1	p36.13
ENSG00000280202	-1.3052	-2.4711	4.56E-06	1.76E-05	RP5-1180D12.1	TEC	12	3610307	3612003	-1	p13.32
ENSG00000144712	-1.3059	-2.4723	0.0068	0.0165	CAND2	cullin-assoc protein_co	3	12796472	12871916	1	p25.2
ENSG00000145934	-1.3062	-2.4729	4.40E-08	2.08E-07	TENM2	teneurin tr protein_co	5	1.67E+08	1.68E+08	1	q34
ENSG00000158113	-1.3066	-2.4735	0.011	0.0257	LRRC43	leucine rich protein_co	12	1.22E+08	1.22E+08	1	q24.31
ENSG00000182747	-1.307	-2.4743	0.0212	0.0466	SLC35D3	solute carri protein_co	6	1.37E+08	1.37E+08	1	q23.3
ENSG00000119711	-1.3074	-2.475	2.68E-21	3.91E-20	ALDH6A1	aldehyde d protein_co	14	74056850	74084493	-1	q24.3
ENSG00000072121	-1.3075	-2.475	2.35E-16	2.26E-15	ZFYVE26	zinc finger protein_co	14	67727374	67816590	-1	q24.1
ENSG00000137075	-1.3075	-2.4751	2.49E-33	1.09E-31	RNF38	ring finger protein_co	9	36336396	36487548	-1	p13.2
ENSG00000172667	-1.3076	-2.4753	1.92E-13	1.44E-12	ZMAT3	zinc finger protein_co	3	1.79E+08	1.79E+08	-1	q26.32
ENSG00000280433	-1.308	-2.4759	0.0003	0.0009	TMEM1	TMEM1 prc protein_co	21	5155499	5165472	-1	p12
ENSG00000176531	-1.3082	-2.4762	2.82E-10	1.62E-09	PHLDB3	pleckstrin t protein_co	19	43474954	43504935	-1	q13.31
ENSG00000254860	-1.3082	-2.4763	0.0012	0.0032	TMEM9B-AS1	TMEM9B a antisense	11	8964675	8977527	1	p15.4
ENSG00000106991	-1.3083	-2.4765	0.0002	0.0005	ENG	endoglin [S protein_co	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000272674	-1.3086	-2.4771	0.002	0.0053	PCDHB16	protocadhe protein_co	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000163545	-1.3093	-2.4783	1.33E-13	1.01E-12	NUAK2	NUAK fami protein_co	1	2.05E+08	2.05E+08	-1	q32.1
ENSG00000172379	-1.3095	-2.4786	9.97E-06	3.69E-05	ARNT2	aryl-hydroc protein_co	15	80404350	80597937	1	q25.1
ENSG00000129933	-1.31	-2.4795	1.81E-28	5.01E-27	MAU2	MAU2 siste protein_co	19	19320681	19358755	1	p13.11
ENSG00000261609	-1.3104	-2.4801	1.78E-15	1.57E-14	GAN	gigaxonin [: protein_co	16	81314952	81390884	1	q23.2
ENSG00000167601	-1.3105	-2.4803	0.0001	0.0005	AXL	AXL recepti protein_co	19	41219203	41261766	1	q13.2
ENSG00000183688	-1.3112	-2.4815	0.002	0.0055	FAM101B	family with protein_co	17	439978	445939	-1	p13.3
ENSG00000131323	-1.3116	-2.4822	1.32E-21	1.97E-20	TRAF3	TNF recept protein_co	14	1.03E+08	1.03E+08	1	q32.32
ENSG00000065320	-1.3118	-2.4825	3.20E-11	2.00E-10	NTN1	netrin 1 [Sc protein_co	17	9021542	9244000	1	p13.1

ENSG00000178385	-1.312	-2.4828	1.33E-09	7.20E-09 PLEKHM3	pleckstrin h protein_co	2	2.08E+08	2.08E+08	-1	q33.3
ENSG00000135912	-1.3121	-2.4829	1.99E-11	1.27E-10 TTLL4	tubulin tyrc protein_co	2	2.19E+08	2.19E+08	1	q35
ENSG00000145911	-1.3129	-2.4845	3.59E-06	1.40E-05 N4BP3	NEDD4 bin protein_co	5	1.78E+08	1.78E+08	1	q35.3
ENSG00000184923	-1.3133	-2.485	0.0187	0.0415 NUTM2A	NUT family protein_co	10	87225448	87236908	1	q23.2
ENSG00000090565	-1.314	-2.4863	2.41E-20	3.20E-19 RAB11FIP3	RAB11 fam protein_co	16	425619	523011	1	p13.3
ENSG00000198911	-1.3146	-2.4874	4.28E-26	9.56E-25 SREBF2	sterol regul protein_co	22	41833079	41907308	1	q13.2
ENSG00000166689	-1.3148	-2.4878	1.65E-26	3.84E-25 PLEKHA7	pleckstrin h protein_co	11	16778295	17014443	-1	p15.1
ENSG00000085999	-1.3151	-2.4882	0.0202	0.0445 RAD54L	RAD54-like protein_co	1	46247688	46278473	1	p34.1
ENSG00000134762	-1.3152	-2.4883	1.81E-15	1.60E-14 DSC3	desmocollin protein_co	18	30990008	31042815	-1	q12.1
ENSG00000137841	-1.3157	-2.4892	0.0013	0.0037 PLCB2	phospholip protein_co	15	40278176	40307935	-1	q15.1
ENSG00000215458	-1.316	-2.4898	2.15E-05	7.67E-05 AP001053.11	antisense	21	43805758	43812567	-1	q22.3
ENSG00000232815	-1.317	-2.4915	0.0146	0.0333 RP11-764K9.2	unprocesse	9	63817748	63818462	-1	q13
ENSG00000178573	-1.3171	-2.4917	1.25E-09	6.83E-09 MAF	v-maf aviar protein_co	16	79585843	79600714	-1	q23.2
ENSG00000182197	-1.318	-2.4931	4.19E-16	3.93E-15 EXT1	exostosin g protein_co	8	1.18E+08	1.18E+08	-1	q24.11
ENSG00000123908	-1.3185	-2.4941	1.45E-13	1.11E-12 AGO2	argonaute protein_co	8	1.41E+08	1.41E+08	-1	q24.3
ENSG00000186566	-1.3186	-2.4942	6.53E-21	9.13E-20 GPATCH8	G patch do protein_co	17	44395284	44503430	-1	q21.31
ENSG00000274546	-1.3188	-2.4946	0.007	0.017 RP11-137H15.3	lincRNA	14	22893206	22894280	-1	q11.2
ENSG00000140326	-1.3198	-2.4963	8.73E-15	7.33E-14 CDAN1	codanin 1 [ protein_co	15	42723559	42737126	-1	q15.2
ENSG00000163013	-1.3199	-2.4965	7.00E-06	2.64E-05 FBXO41	F-box prote protein_co	2	73254682	73284431	-1	p13.2
ENSG00000090857	-1.32	-2.4966	2.53E-18	2.83E-17 PDPR	pyruvate di protein_co	16	70113626	70162537	1	q22.1
ENSG00000106785	-1.3202	-2.497	1.19E-20	1.62E-19 TRIM14	tripartite r protein_co	9	98069275	98119212	-1	q22.33
ENSG00000170776	-1.3203	-2.4972	3.02E-21	4.39E-20 AKAP13	A kinase (P protein_co	15	85380571	85749358	1	q25.3
ENSG00000118707	-1.3204	-2.4973	9.03E-17	8.97E-16 TGIF2	TGFB-induc protein_co	20	36573488	36593950	1	q11.23
ENSG00000145362	-1.3208	-2.4981	0.0203	0.0447 ANK2	ankyrin 2, r protein_co	4	1.13E+08	1.13E+08	1	q25
ENSG00000251867	-1.321	-2.4983	0.018	0.0401 RP11-48B3.5	antisense	8	80484561	80485619	-1	q21.13
ENSG00000173013	-1.3214	-2.4992	0.0031	0.008 CCDC96	coiled-coil protein_co	4	7040849	7042939	-1	p16.1
ENSG00000146021	-1.3217	-2.4997	2.45E-07	1.08E-06 KLHL3	kelch-like f: protein_co	5	1.38E+08	1.38E+08	-1	q31.2
ENSG00000230453	-1.3219	-2.5	3.28E-05	0.0001 ANKRD18B	ankyrin rep protein_co	9	33524394	33573009	1	p13.3
ENSG00000204352	-1.323	-2.5019	0.0211	0.0464 C9orf129	chromoson protein_co	9	93318199	93346414	-1	q22.31
ENSG00000280316	-1.3231	-2.502	0.0176	0.0394 AL365181.2	protein_co	1	1.57E+08	1.57E+08	1	q22
ENSG00000160957	-1.3234	-2.5025	0.0009	0.0024 RECQL4	RecQ prote protein_co	8	1.45E+08	1.45E+08	-1	q24.3
ENSG00000175643	-1.3238	-2.5033	1.01E-06	4.18E-06 RMI2	RecQ medi: protein_co	16	11249619	11351762	1	p13.13
ENSG00000076928	-1.3239	-2.5034	2.33E-29	6.99E-28 ARHGEF1	Rho guanin protein_co	19	41883161	41930150	1	q13.2
ENSG00000163520	-1.324	-2.5036	5.24E-11	3.22E-10 FBLN2	fibulin 2 [Sc protein_co	3	13549131	13638422	1	p25.1
ENSG00000139514	-1.3246	-2.5047	3.95E-21	5.66E-20 SLC7A1	solute carri protein_co	13	29509410	29595688	-1	q12.3
ENSG00000169604	-1.3246	-2.5047	3.15E-16	3.00E-15 ANTXR1	anthrax tox protein_co	2	69013178	69249327	1	p13.3
ENSG00000185219	-1.3247	-2.5048	7.25E-30	2.28E-28 ZNF445	zinc finger j protein_co	3	44439770	44477670	-1	p21.31
ENSG00000049283	-1.3248	-2.5049	1.03E-12	7.29E-12 EPN3	epsin 3 [So protein_co	17	50532543	50543750	1	q21.33
ENSG00000137203	-1.3251	-2.5054	1.67E-14	1.37E-13 TFAP2A	transcriptic protein_co	6	10393186	10419659	-1	p24.3
ENSG00000275318	-1.3253	-2.5059	0.0012	0.0034 RP11-526D8.11	unprocesse	9	92840955	92841688	-1	q22.31
ENSG00000254389	-1.3258	-2.5067	0.0011	0.003 RHPN1-AS1	RHPN1 anti antisense	8	1.43E+08	1.43E+08	-1	q24.3

ENSG00000140750	-1.3262	-2.5075	1.31E-14	1.08E-13 ARHGAP17	Rho GTPase protein_co	16	24919385	25015666	-1	p12.1
ENSG00000170921	-1.3265	-2.508	1.89E-16	1.83E-15 TANC2	tetratricop protein_co	17	63009556	63427699	1	q23.2
ENSG00000118816	-1.3268	-2.5085	3.49E-33	1.49E-31 CCNI	cyclin I [So] protein_co	4	77047158	77076005	-1	q21.1
ENSG00000134744	-1.327	-2.5088	1.74E-17	1.83E-16 ZCCHC11	zinc finger, protein_co	1	52408282	52553487	-1	p32.3
ENSG00000189319	-1.3275	-2.5096	7.09E-15	5.99E-14 FAM53B	family with protein_co	10	1.25E+08	1.25E+08	-1	q26.13
ENSG00000198719	-1.3277	-2.51	4.11E-12	2.77E-11 DLL1	delta-like 1 protein_co	6	1.7E+08	1.7E+08	-1	q27
ENSG00000101871	-1.3278	-2.5102	5.79E-27	1.40E-25 MID1	midline 1 [t protein_co X		10445310	10833654	-1	p22.2
ENSG00000204394	-1.3284	-2.5112	2.89E-14	2.33E-13 VARS	valyl-tRNA protein_co	6	31777518	31795953	-1	p21.33
ENSG00000163071	-1.3284	-2.5113	0.001	0.0028 SPATA18	spermatog protein_co	4	52051331	52097292	1	q12
ENSG00000136811	-1.3285	-2.5114	6.05E-05	0.0002 ODF2	outer dens protein_co	9	1.28E+08	1.29E+08	-1	q34.11
ENSG00000196588	-1.3292	-2.5126	2.19E-08	1.06E-07 MKL1	megakaryo protein_co	22	40410281	40636702	-1	q13.2
ENSG00000270127	-1.3292	-2.5126	0.0008	0.0022 PRKXP1	protein kin. lincRNA	15	1.01E+08	1.01E+08	-1	q26.3
ENSG00000159842	-1.3292	-2.5127	5.71E-27	1.39E-25 ABR	active BCR- protein_co	17	1003518	1229021	-1	p13.3
ENSG00000120278	-1.3293	-2.5128	1.51E-25	3.19E-24 PLEKHG1	pleckstrin f protein_co	6	1.51E+08	1.51E+08	1	q25.1
ENSG00000159212	-1.33	-2.514	1.43E-12	1.01E-11 CLIC6	chloride int protein_co	21	34669389	34718227	1	q22.12
ENSG00000273284	-1.3303	-2.5146	0.0164	0.0369 RP11-888D10.4	sense intrc	18	9259388	9260390	1	p11.22
ENSG00000280231	-1.3307	-2.5153	0.019	0.0422 LA16c-380F5.3	TEC	16	1553655	1554130	-1	p13.3
ENSG00000187446	-1.3308	-2.5154	6.46E-22	9.88E-21 CHP1	calcineurin protein_co	15	41230839	41281890	1	q15.1
ENSG00000165671	-1.3308	-2.5154	1.03E-18	1.19E-17 NSD1	nuclear rec protein_co	5	1.77E+08	1.77E+08	1	q35.3
ENSG00000102974	-1.3316	-2.5168	3.42E-20	4.49E-19 CTCF	CCCTC-binc protein_co	16	67562407	67639183	1	q22.1
ENSG00000228794	-1.3316	-2.5168	1.30E-10	7.69E-10 LINC01128	long interg processed_	1	825138	859446	1	p36.33
ENSG00000039523	-1.3317	-2.517	1.09E-11	7.07E-11 FAM65A	family with protein_co	16	67518418	67546788	1	q22.1
ENSG00000117266	-1.332	-2.5175	4.53E-15	3.89E-14 CDK18	cyclin-depe protein_co	1	2.06E+08	2.06E+08	1	q32.1
ENSG00000070182	-1.3324	-2.5182	0.0221	0.0484 SPTB	spectrin, b protein_co	14	64746283	64879883	-1	q23.3
ENSG00000087274	-1.3327	-2.5188	4.19E-23	7.05E-22 ADD1	adducin 1 ( protein_co	4	2843857	2930076	1	p16.3
ENSG00000280417	-1.3328	-2.5189	0.0185	0.0411 RP11-5O17.1	TEC	3	53046166	53048122	1	p21.1
ENSG00000137310	-1.3341	-2.5212	0.0032	0.0082 TCF19	transcriptic protein_co	6	31158542	31167159	1	p21.33
ENSG00000186815	-1.3344	-2.5218	4.43E-13	3.24E-12 TPCN1	two pore s protein_co	12	1.13E+08	1.13E+08	1	q24.13
ENSG00000179859	-1.3346	-2.522	2.03E-06	8.14E-06 AC025335.1	antisense	17	7913324	7915953	-1	p13.1
ENSG00000154767	-1.3346	-2.5221	6.93E-19	8.15E-18 XPC	xeroderma protein_co	3	14145147	14178783	-1	p25.1
ENSG00000214783	-1.3354	-2.5234	0.0083	0.02 POLR2J4	polymerase processed_	7	43940895	44019175	-1	p13
ENSG00000119771	-1.3364	-2.5253	3.67E-07	1.59E-06 KLHL29	kelch-like f protein_co	2	23385217	23708611	1	p24.1
ENSG00000147862	-1.3367	-2.5257	6.36E-16	5.86E-15 NFIB	nuclear fac protein_co	9	14081843	14398983	-1	p22.3
ENSG00000196547	-1.3369	-2.526	4.40E-16	4.12E-15 MAN2A2	mannosida protein_co	15	90902218	90922584	1	q26.1
ENSG00000101986	-1.337	-2.5262	9.00E-08	4.14E-07 ABCD1	ATP-bindin protein_co X		1.54E+08	1.54E+08	1	q28
ENSG00000149256	-1.3373	-2.5268	3.83E-14	3.05E-13 TENM4	teneurin tr protein_co	11	78652831	79440948	-1	q14.1
ENSG00000133422	-1.3374	-2.5269	4.01E-25	8.14E-24 MORC2	MORC fami protein_co	22	30925130	30968298	-1	q12.2
ENSG00000169926	-1.3382	-2.5283	7.27E-39	5.97E-37 KLF13	Kruppel-lik protein_co	15	31326855	31435665	1	q13.3
ENSG00000273014	-1.3385	-2.5289	0.0089	0.0211 LINC00997	long interg lincRNA	7	32758882	32759353	1	p14.3
ENSG00000130669	-1.3388	-2.5294	1.70E-18	1.92E-17 PAK4	p21 proteir protein_co	19	39125770	39182816	1	q13.2
ENSG00000099942	-1.3398	-2.5312	5.53E-28	1.45E-26 CRKL	v-crk avian protein_co	22	20917426	20953749	1	q11.21



ENSG00000142784	-1.34	-2.5315	2.69E-18	3.00E-17	WDC1	WD and tet protein_co	1	27234516	27308633	1	p36.11
ENSG00000274211	-1.3401	-2.5317	7.66E-21	1.06E-19	SOCS7	suppressor protein_co	17	38352228	38405593	1	q12
ENSG00000099204	-1.3412	-2.5336	1.06E-17	1.13E-16	ABLIM1	actin bindir protein_co	10	1.14E+08	1.15E+08	-1	q25.3
ENSG00000157540	-1.3416	-2.5344	6.09E-34	2.87E-32	DYRK1A	dual-specif protein_co	21	37365790	37517450	1	q22.13
ENSG0000008083	-1.3416	-2.5344	8.91E-26	1.93E-24	JARID2	jumonji, AT protein_co	6	15246296	15522040	1	p22.3
ENSG00000149043	-1.3419	-2.5348	6.54E-06	2.48E-05	SYT8	synaptotag protein_co	11	1828307	1837521	1	p15.5
ENSG00000170325	-1.3422	-2.5354	2.85E-21	4.16E-20	PRDM10	PR domain protein_co	11	1.3E+08	1.3E+08	-1	q24.3
ENSG00000133895	-1.3424	-2.5358	1.45E-32	5.81E-31	MEN1	multiple en protein_co	11	64803510	64811294	-1	q13.1
ENSG00000279117	-1.3431	-2.537	2.93E-06	1.16E-05	CTD-2562J17.6	TEC	11	75260129	75262466	-1	q13.4
ENSG00000179134	-1.3433	-2.5374	1.12E-33	5.02E-32	SAMD4B	sterile alph protein_co	19	39342396	39385710	1	q13.2
ENSG00000256364	-1.3436	-2.5378	0.009	0.0215	RP11-173P15.3	antisense	12	1.21E+08	1.21E+08	-1	q24.31
ENSG00000109906	-1.3439	-2.5384	0.0003	0.0009	ZBTB16	zinc finger ; protein_co	11	1.14E+08	1.14E+08	1	q23.2
ENSG00000020129	-1.344	-2.5386	5.51E-11	3.38E-10	NCDN	neurochon protein_co	1	35557473	35567274	1	p34.3
ENSG00000260948	-1.3444	-2.5392	0.0038	0.0098	RP11-552M11.8	sense_over	1	1.11E+08	1.11E+08	-1	p13.2
ENSG00000177666	-1.3445	-2.5394	7.28E-17	7.28E-16	PNPLA2	patatin-like protein_co	11	818902	825573	1	p15.5
ENSG00000277420	-1.3445	-2.5395	0.0206	0.0454	CH17-408M7.1	lincRNA	1	1.47E+08	1.47E+08	1	q21.1
ENSG00000173011	-1.3451	-2.5405	8.28E-15	6.96E-14	TADA2B	transcriptic protein_co	4	7041899	7057952	1	p16.1
ENSG00000231025	-1.3458	-2.5417	1.00E-09	5.50E-09	RP11-175O19.4	antisense	10	96992450	96995959	1	q24.1
ENSG00000239306	-1.3459	-2.5418	1.19E-18	1.37E-17	RBM14	RNA bindin protein_co	11	66616582	66627347	1	q13.2
ENSG0000008838	-1.3466	-2.5431	1.89E-20	2.54E-19	MED24	mediator c; protein_co	17	40019097	40061215	-1	q21.1
ENSG00000157978	-1.3474	-2.5446	1.54E-18	1.75E-17	LDLRAP1	low density protein_co	1	25543580	25568886	1	p36.11
ENSG00000148384	-1.3474	-2.5446	3.59E-10	2.05E-09	INPP5E	inositol pol protein_co	9	1.36E+08	1.36E+08	-1	q34.3
ENSG00000146938	-1.349	-2.5473	2.85E-05	9.98E-05	NLGN4X	neuroligin ; protein_co X		5840637	6228863	-1	p22.31
ENSG00000242861	-1.349	-2.5474	0.0003	0.0008	RP11-285F7.2	antisense	1	2.26E+08	2.26E+08	-1	q42.12
ENSG00000166188	-1.3491	-2.5475	2.68E-13	1.99E-12	ZNF319	zinc finger ; protein_co	16	57994668	58000453	-1	q21
ENSG00000147324	-1.3492	-2.5477	3.76E-14	3.00E-13	MFHAS1	malignant f; protein_co	8	8783354	8893645	-1	p23.1
ENSG00000071564	-1.3496	-2.5484	5.62E-25	1.13E-23	TCF3	transcriptic protein_co	19	1609290	1652605	-1	p13.3
ENSG00000279434	-1.3498	-2.5487	0.0215	0.0471	RP11-85K15.3	TEC	14	35086035	35088059	1	q13.2
ENSG00000137073	-1.3504	-2.5499	3.85E-29	1.13E-27	UBAP2	ubiquitin a; protein_co	9	33921693	34048949	-1	p13.3
ENSG00000198815	-1.3514	-2.5515	2.92E-27	7.26E-26	FOXJ3	forkhead b; protein_co	1	42176539	42335877	-1	p34.2
ENSG00000169221	-1.3517	-2.5521	1.09E-15	9.83E-15	TBC1D10B	TBC1 doma protein_co	16	30357102	30370264	-1	p11.2
ENSG00000251611	-1.3517	-2.5521	0.0107	0.0251	RP11-610P16.1	lincRNA	4	1.51E+08	1.51E+08	-1	q31.3
ENSG00000168137	-1.3522	-2.5531	3.03E-25	6.25E-24	SETD5	SET domair protein_co	3	9397615	9479240	1	p25.3
ENSG00000113504	-1.3523	-2.5531	1.46E-23	2.58E-22	SLC12A7	solute carri protein_co	5	1050376	1112035	-1	p15.33
ENSG00000110723	-1.3528	-2.5541	2.55E-09	1.35E-08	EXPH5	exophilin 5 protein_co	11	1.09E+08	1.09E+08	-1	q22.3
ENSG00000261613	-1.3528	-2.5541	1.54E-05	5.61E-05	FLJ42627	uncharacte antisense	16	2554060	2556060	-1	p13.3
ENSG00000160208	-1.353	-2.5544	7.79E-22	1.18E-20	RRP1B	ribosomal f; protein_co	21	43659548	43696079	1	q22.3
ENSG00000187164	-1.3535	-2.5553	1.41E-25	3.00E-24	KIAA1598	KIAA1598 [; protein_co	10	1.17E+08	1.17E+08	-1	q25.3
ENSG00000187017	-1.3539	-2.556	1.29E-05	4.73E-05	ESPN	espin [Sour protein_co	1	6424788	6461370	1	p36.31
ENSG00000203819	-1.3541	-2.5564	0.0203	0.0448	HIST2H2BC	histone clu; processed_	1	1.5E+08	1.5E+08	-1	q21.2
ENSG00000164300	-1.3543	-2.5567	5.58E-22	8.58E-21	SERINC5	serine inco protein_co	5	80111651	80256079	-1	q14.1

ENSG00000184384	-1.3548	-2.5576	9.47E-38	6.96E-36 MAML2	mastermin protein_co	11	95976598	96343180	-1 q21
ENSG00000257877	-1.3554	-2.5587	0.0007	0.002 RP3-462E2.3	lincRNA	12	1.12E+08	1.12E+08	1 q24.12
ENSG00000111424	-1.3566	-2.5608	1.70E-14	1.40E-13 VDR	vitamin D ( protein_co	12	47841537	47943048	-1 q13.11
ENSG00000184530	-1.3568	-2.5611	0.0221	0.0483 C6orf58	chromoson protein_co	6	1.28E+08	1.28E+08	1 q22.33
ENSG00000011028	-1.3572	-2.5619	0.0005	0.0014 MRC2	mannose r protein_co	17	62627401	62693597	1 q23.2
ENSG00000258366	-1.3573	-2.562	0.0026	0.0069 RTEL1	regulator o protein_co	20	63657810	63696253	1 q13.33
ENSG00000136367	-1.3575	-2.5624	0.0006	0.0017 ZFX2	zinc finger l protein_co	14	23520855	23556192	-1 q11.2
ENSG00000204103	-1.3578	-2.5629	2.35E-05	8.34E-05 MAFB	v-maf aviar protein_co	20	40685848	40689240	-1 q12
ENSG00000145794	-1.3584	-2.564	0.013	0.0299 MEGF10	multiple EC protein_co	5	1.27E+08	1.27E+08	1 q23.2
ENSG00000267165	-1.3587	-2.5645	0.0205	0.0453 RP11-78A19.3	antisense	18	11851414	11852751	-1 p11.21
ENSG00000165138	-1.3587	-2.5646	1.98E-23	3.45E-22 ANKS6	ankyrin rep protein_co	9	98731329	98796965	-1 q22.33
ENSG00000165271	-1.3591	-2.5652	4.63E-21	6.56E-20 NOL6	nucleolar p protein_co	9	33461441	33473930	-1 p13.3
ENSG00000081059	-1.3591	-2.5652	2.71E-05	9.55E-05 TCF7	transcriptic protein_co	5	1.34E+08	1.34E+08	1 q31.1
ENSG00000100084	-1.3594	-2.5657	1.08E-11	7.00E-11 HIRA	histone cell protein_co	22	19330698	19447450	-1 q11.21
ENSG00000261799	-1.3606	-2.568	1.48E-09	8.00E-09 RP11-283I3.6	sense_over	12	273954	277123	-1 p13.33
ENSG00000158480	-1.3607	-2.5682	7.03E-20	9.04E-19 SPATA2	spermatog protein_co	20	49903391	49915508	-1 q13.13
ENSG00000198720	-1.3612	-2.569	8.23E-07	3.45E-06 ANKRD13B	ankyrin rep protein_co	17	29589769	29614761	1 q11.2
ENSG00000084710	-1.3616	-2.5698	0.0095	0.0225 EFR3B	EFR3 homo protein_co	2	25042130	25159137	1 p23.3
ENSG00000196208	-1.3619	-2.5703	0.0216	0.0473 GREB1	growth reg protein_co	2	11534116	11642788	1 p25.1
ENSG00000101040	-1.362	-2.5704	2.92E-19	3.56E-18 ZMYND8	zinc finger, protein_co	20	47209214	47356889	-1 q13.12
ENSG00000171243	-1.362	-2.5704	0.0073	0.0177 SOSTDC1	sclerostin c protein_co	7	16461481	16530580	-1 p21.1
ENSG00000133030	-1.3621	-2.5707	3.81E-30	1.22E-28 MPRIIP	myosin phc protein_co	17	17042545	17217679	1 p11.2
ENSG00000256152	-1.363	-2.5722	0.0218	0.0478 RP11-463O12.3	lincRNA	12	1.23E+08	1.23E+08	1 q24.31
ENSG00000276180	-1.3631	-2.5723	0.0146	0.0333 HIST1H4I	histone clu. protein_co	6	27138588	27139881	1 p22.1
ENSG00000100604	-1.3634	-2.5729	0.0213	0.0468 CHGA	chromogra protein_co	14	92923080	92935293	1 q32.12
ENSG00000168243	-1.3637	-2.5734	0.0037	0.0095 GNG4	guanine nu protein_co	1	2.36E+08	2.36E+08	-1 q42.3
ENSG00000173599	-1.364	-2.574	8.75E-11	5.28E-10 PC	pyruvate c protein_co	11	66848233	66958376	-1 q13.2
ENSG00000275023	-1.3642	-2.5744	5.41E-23	9.02E-22 MLLT6	myeloid/ly protein_co	17	38705542	38729803	1 q12
ENSG00000178921	-1.3645	-2.5749	2.65E-14	2.14E-13 PFAS	phosphorit protein_co	17	8247618	8270491	1 p13.1
ENSG00000165632	-1.3646	-2.575	1.24E-13	9.50E-13 TAF3	TAF3 RNA p protein_co	10	7818504	8016627	1 p14
ENSG00000083168	-1.365	-2.5757	3.51E-21	5.07E-20 KAT6A	K(lysine) ac protein_co	8	41929479	42051990	-1 p11.21
ENSG00000005844	-1.3649	-2.5757	0.0186	0.0414 ITGAL	integrin, al protein_co	16	30472658	30523185	1 p11.2
ENSG00000083857	-1.3653	-2.5763	3.29E-09	1.73E-08 FAT1	FAT atypica protein_co	4	1.87E+08	1.87E+08	-1 q35.2
ENSG00000157741	-1.3653	-2.5764	5.23E-29	1.52E-27 UBN2	ubinuclin protein_co	7	1.39E+08	1.39E+08	1 q34
ENSG00000160094	-1.3657	-2.5769	2.77E-18	3.09E-17 ZNF362	zinc finger j protein_co	1	33256545	33300719	1 p35.1
ENSG00000130477	-1.3662	-2.5778	0.0148	0.0337 UNC13A	unc-13 hon protein_co	19	17601328	17688365	-1 p13.11
ENSG00000198753	-1.3669	-2.5792	1.16E-08	5.77E-08 PLXNB3	plexin B3 [ protein_co X		1.54E+08	1.54E+08	1 q28
ENSG00000167703	-1.3676	-2.5804	6.99E-12	4.60E-11 SLC43A2	solute carri protein_co	17	1569267	1628886	-1 p13.3
ENSG00000243896	-1.3678	-2.5808	0.0003	0.0009 OR2A7	olfactory re protein_co	7	1.44E+08	1.44E+08	-1 q35
ENSG00000072134	-1.3682	-2.5815	3.78E-15	3.26E-14 EPN2	epsin 2 [So protein_co	17	19215615	19336715	1 p11.2
ENSG00000188636	-1.3685	-2.5819	1.63E-25	3.44E-24 LDOC1L	leucine zip protein_co	22	44492572	44498298	-1 q13.31

ENSG00000186081	-1.3686	-2.5822	6.37E-13	4.61E-12	KRT5	keratin 5 [Sprotein_co	12	52514575	52520687	-1	q13.13
ENSG00000054523	-1.3693	-2.5834	1.75E-33	7.71E-32	KIF1B	kinesin fam protein_co	1	10210805	10381603	1	p36.22
ENSG00000096433	-1.3693	-2.5835	4.78E-18	5.24E-17	ITPR3	inositol 1,4 protein_co	6	33620365	33696574	1	p21.31
ENSG00000115616	-1.3698	-2.5844	8.65E-05	0.0003	SLC9A2	solute carri protein_co	2	1.03E+08	1.03E+08	1	q12.1
ENSG00000278530	-1.37	-2.5847	0.0185	0.0411	CHMP1B2P	charged mu unitary_pseX		80228489	80335364	-1	q21.1
ENSG00000179361	-1.3702	-2.585	7.58E-07	3.19E-06	ARID3B	AT rich inte protein_co	15	74541177	74598131	1	q24.1
ENSG00000136379	-1.3706	-2.5857	5.04E-16	4.69E-15	ABHD17C	abhydrolas protein_co	15	80679684	80755621	1	q25.1
ENSG00000132694	-1.3707	-2.586	4.56E-34	2.19E-32	ARHGEF11	Rho guanin protein_co	1	1.57E+08	1.57E+08	-1	q23.1
ENSG00000129351	-1.3711	-2.5866	2.55E-34	1.27E-32	ILF3	interleukin protein_co	19	10654261	10692417	1	p13.2
ENSG00000173273	-1.3712	-2.5868	5.54E-43	6.97E-41	TNKS	tankyrase, protein_co	8	9555914	9782346	1	p23.1
ENSG00000215012	-1.3713	-2.5871	2.79E-26	6.32E-25	C22orf29	chromoson protein_co	22	19846138	19854896	-1	q11.21
ENSG00000185164	-1.3713	-2.5871	3.26E-13	2.41E-12	NOMO2	NODAL mo protein_co	16	18417325	18562211	-1	p12.3
ENSG00000258768	-1.3718	-2.5879	0.0054	0.0134	CTD-2292M16.8	lincRNA	14	20260480	20264308	-1	q11.2
ENSG00000185670	-1.3718	-2.588	4.61E-12	3.09E-11	ZBTB3	zinc finger i protein_co	11	62748319	62754188	-1	q12.3
ENSG00000148356	-1.3721	-2.5884	7.32E-13	5.26E-12	LRSAM1	leucine rich protein_co	9	1.27E+08	1.28E+08	1	q33.3
ENSG00000127463	-1.3721	-2.5885	1.23E-12	8.64E-12	EMC1	ER membr protein_co	1	19215664	19251552	-1	p36.13
ENSG00000148730	-1.3722	-2.5886	2.90E-32	1.14E-30	EIF4EBP2	eukaryotic protein_co	10	70404379	70428618	1	q22.1
ENSG00000032444	-1.3726	-2.5894	9.21E-17	9.15E-16	PNPLA6	patatin-like protein_co	19	7534004	7561764	1	p13.2
ENSG00000139352	-1.3736	-2.5911	0.0204	0.0449	ASCL1	achaete-sci protein_co	12	1.03E+08	1.03E+08	1	q23.2
ENSG00000170074	-1.3736	-2.5912	0.0044	0.0112	FAM153A	family with protein_co	5	1.78E+08	1.78E+08	-1	q35.3
ENSG00000058056	-1.3738	-2.5916	4.03E-05	0.0001	USP13	ubiquitin s protein_co	3	1.8E+08	1.8E+08	1	q26.33
ENSG00000196526	-1.3744	-2.5925	1.41E-09	7.66E-09	AFAP1	actin filame protein_co	4	7758714	7939926	-1	p16.1
ENSG00000163501	-1.3752	-2.594	0.0209	0.046	IHH	indian hed protein_co	2	2.19E+08	2.19E+08	-1	q35
ENSG00000149532	-1.3763	-2.5961	8.06E-21	1.12E-19	CPSF7	cleavage ar protein_co	11	61402641	61430031	-1	q12.2
ENSG00000178821	-1.3764	-2.5962	0.0194	0.0428	TMEM52	transmemt protein_co	1	1917590	1919273	-1	p36.33
ENSG00000013297	-1.3772	-2.5976	0.0065	0.0159	CLDN11	claudin 11 protein_co	3	1.7E+08	1.71E+08	1	q26.2
ENSG00000103021	-1.3774	-2.5981	0.0068	0.0167	CCDC113	coiled-coil protein_co	16	58231157	58283836	1	q21
ENSG00000121297	-1.378	-2.5991	8.00E-10	4.43E-09	TSHZ3	teashirt zin protein_co	19	31274945	31349547	-1	q12
ENSG00000120899	-1.3787	-2.6003	1.21E-19	1.52E-18	PTK2B	protein tyri protein_co	8	27311482	27459391	1	p21.2
ENSG00000113360	-1.3789	-2.6007	2.98E-26	6.75E-25	DROSHA	drosha, ribi protein_co	5	31400497	31532196	-1	p13.3
ENSG00000196700	-1.379	-2.6008	8.27E-17	8.26E-16	ZNF512B	zinc finger i protein_co	20	63956702	64048758	-1	q13.33
ENSG00000110693	-1.379	-2.6008	5.18E-07	2.22E-06	SOX6	SRY (sex de protein_co	11	15966449	16739591	-1	p15.2
ENSG00000272112	-1.3792	-2.6013	0.0174	0.039	CTB-113P19.5	lincRNA	5	1.52E+08	1.52E+08	-1	q33.1
ENSG00000185499	-1.3798	-2.6023	2.61E-19	3.19E-18	MUC1	mucin 1, ce protein_co	1	1.55E+08	1.55E+08	-1	q22
ENSG00000145012	-1.3799	-2.6024	9.04E-33	3.72E-31	LPP	LIM domai protein_co	3	1.88E+08	1.89E+08	1	q27.3
ENSG00000106665	-1.3809	-2.6043	9.42E-12	6.14E-11	CLIP2	CAP-GLY dc protein_co	7	74289475	74405943	1	q11.23
ENSG00000204569	-1.3811	-2.6047	2.16E-25	4.51E-24	PPP1R10	protein phc protein_co	6	30600400	30618612	-1	p21.33
ENSG00000163945	-1.3811	-2.6047	3.77E-14	3.01E-13	UVSSA	UV-stimula protein_co	4	1347266	1388049	1	p16.3
ENSG00000067955	-1.3812	-2.6048	4.33E-27	1.06E-25	CBFB	core-bindir protein_co	16	67029116	67101058	1	q22.1
ENSG00000198863	-1.3813	-2.605	9.65E-15	8.08E-14	RUNDC1	RUN domai protein_co	17	42980565	42993690	1	q21.31
ENSG00000099904	-1.3819	-2.606	1.26E-12	8.87E-12	ZDHC8	zinc finger, protein_co	22	20129456	20148007	1	q11.21

ENSG00000131788	-1.3819	-2.6061	2.57E-29	7.68E-28	PIAS3	protein inh protein_co	1	1.46E+08	1.46E+08	-1 q21.1
ENSG00000153904	-1.3821	-2.6065	1.94E-22	3.10E-21	DDAH1	dimethylar;protein_co	1	85318481	85578363	-1 p22.3
ENSG00000126012	-1.3822	-2.6066	2.55E-28	6.99E-27	KDM5C	lysine (K)-s;protein_co X		53191321	53225422	-1 p11.22
ENSG00000175866	-1.3822	-2.6066	2.89E-11	1.81E-10	BAIAP2	BAI1-associ protein_co	17	81035122	81117432	1 q25.3
ENSG00000183580	-1.3822	-2.6066	3.79E-11	2.36E-10	FBXL7	F-box and l protein_co	5	15500196	15939795	1 p15.1
ENSG00000160767	-1.3838	-2.6095	3.12E-15	2.71E-14	FAM189B	family with protein_co	1	1.55E+08	1.55E+08	-1 q22
ENSG00000131650	-1.3842	-2.6103	0.0138	0.0316	KREMEN2	kringle con protein_co	16	2963944	2968383	1 p13.3
ENSG0000007047	-1.385	-2.6117	1.98E-19	2.43E-18	MARK4	MAP/micrc protein_co	19	45079288	45305283	1 q13.32
ENSG00000095637	-1.3853	-2.6123	6.37E-06	2.41E-05	SORBS1	sorbin and protein_co	10	95311771	95561414	-1 q24.1
ENSG00000279522	-1.3853	-2.6123	0.0074	0.0179	CTC-487M23.6	TEC	5	1.13E+08	1.13E+08	1 q22.2
ENSG00000171298	-1.3856	-2.6127	9.50E-10	5.23E-09	GAA	glucosidase protein_co	17	80101556	80119879	1 q25.3
ENSG00000196914	-1.3857	-2.6131	2.51E-31	9.00E-30	ARHGEF12	Rho guanin protein_co	11	1.2E+08	1.2E+08	1 q23.3
ENSG00000072864	-1.3862	-2.6139	6.46E-23	1.07E-21	NDE1	nudE neurc protein_co	16	15643267	15726353	1 p13.11
ENSG00000107957	-1.3862	-2.6139	1.59E-18	1.81E-17	SH3PXD2A	SH3 and PX protein_co	10	1.04E+08	1.04E+08	-1 q24.33
ENSG00000107099	-1.3863	-2.6141	1.81E-12	1.25E-11	DOCK8	dedicator c protein_co	9	214854	465259	1 p24.3
ENSG00000107249	-1.3864	-2.6142	2.09E-16	2.01E-15	GLIS3	GLIS family protein_co	9	3824127	4348392	-1 p24.2
ENSG00000228672	-1.3868	-2.6149	2.21E-05	7.85E-05	PROB1	proline-rich protein_co	5	1.39E+08	1.39E+08	-1 q31.2
ENSG00000155640	-1.3869	-2.6152	1.41E-15	1.25E-14	C10orf12	chromoson protein_co	10	96981284	96986212	1 q24.1
ENSG00000256248	-1.387	-2.6153	0.0179	0.0399	RP11-123O10.4	lincRNA	12	66891876	67069162	-1 q14.3
ENSG00000143776	-1.3874	-2.616	3.06E-27	7.59E-26	CDC42BPA	CDC42 binc protein_co	1	2.27E+08	2.27E+08	-1 q42.13
ENSG00000142235	-1.3875	-2.6162	8.21E-11	4.97E-10	LMTK3	lemur tyros protein_co	19	48485271	48513189	-1 q13.33
ENSG00000049239	-1.3875	-2.6163	2.95E-21	4.29E-20	H6PD	hexose-6-p protein_co	1	9234775	9271337	1 p36.22
ENSG00000165626	-1.3878	-2.6168	8.43E-16	7.69E-15	BEND7	BEN domai protein_co	10	13438484	13528974	-1 p13
ENSG00000169635	-1.3879	-2.617	6.08E-11	3.72E-10	HIC2	hypermeth protein_co	22	21417404	21451463	1 q11.21
ENSG00000150594	-1.388	-2.6171	0.0189	0.042	ADRA2A	adrenocept protein_co	10	1.11E+08	1.11E+08	1 q25.2
ENSG00000249115	-1.3884	-2.6178	1.29E-10	7.64E-10	HAUS5	HAUS augn protein_co	19	35612744	35625349	1 q13.12
ENSG00000151929	-1.3885	-2.618	2.01E-22	3.21E-21	BAG3	BCL2-assoc protein_co	10	1.2E+08	1.2E+08	1 q26.11
ENSG00000159363	-1.389	-2.6189	2.93E-14	2.36E-13	ATP13A2	ATPase typ protein_co	1	16985958	17011928	-1 p36.13
ENSG00000149177	-1.3889	-2.6189	7.46E-10	4.14E-09	PTPRJ	protein tyri protein_co	11	47980558	48170841	1 p11.2
ENSG00000105877	-1.3891	-2.6191	0.0061	0.015	DNAH11	dynein, axc protein_co	7	21543215	21901839	1 p15.3
ENSG00000181097	-1.3895	-2.6199	0.0109	0.0256	BREA2	breast canc antisense	8	1.44E+08	1.44E+08	1 q24.3
ENSG00000121207	-1.3897	-2.6203	7.22E-06	2.72E-05	LRAT	lecithin reti protein_co	4	1.55E+08	1.55E+08	1 q32.1
ENSG00000071242	-1.39	-2.6208	4.44E-30	1.42E-28	RPS6KA2	ribosomal ; protein_co	6	1.66E+08	1.67E+08	-1 q27
ENSG00000157765	-1.3901	-2.621	9.87E-08	4.53E-07	SLC34A2	solute carri protein_co	4	25655301	25678748	1 p15.2
ENSG00000135870	-1.3904	-2.6215	4.67E-37	3.13E-35	RC3H1	ring finger ; protein_co	1	1.74E+08	1.74E+08	-1 q25.1
ENSG00000178607	-1.3907	-2.622	2.16E-24	4.07E-23	ERN1	endoplasm protein_co	17	64039142	64130819	-1 q23.3
ENSG00000106415	-1.3907	-2.6221	5.66E-24	1.04E-22	GLCCI1	glucocortic protein_co	7	7968794	8094272	1 p21.3
ENSG00000112297	-1.3917	-2.6238	2.78E-27	6.92E-26	AIM1	absent in nr protein_co	6	1.07E+08	1.07E+08	1 q21
ENSG00000187720	-1.3923	-2.6249	8.60E-06	3.21E-05	THSD4	thrombosp protein_co	15	71096952	71783383	1 q23
ENSG00000143442	-1.3929	-2.6261	1.39E-27	3.56E-26	POGZ	pogo trans; protein_co	1	1.51E+08	1.51E+08	-1 q21.3
ENSG00000184908	-1.3932	-2.6265	0.0095	0.0226	CLCNKB	chloride ch protein_co	1	16043736	16057308	1 p36.13

ENSG00000164850	-1.3936	-2.6273	0.0108	0.0252	GPER1	G protein-c protein_co	7	1082208	1093815	1	p22.3
ENSG00000131620	-1.3937	-2.6275	9.79E-07	4.07E-06	ANO1	anoctamin protein_co	11	70078302	70189528	1	q13.3
ENSG00000103710	-1.3944	-2.6289	0.0032	0.0083	RASL12	RAS-like, fa protein_co	15	65053337	65076690	-1	q22.31
ENSG00000278727	-1.395	-2.6299	0.0016	0.0043	AC000403.4	lincRNA	13	76887551	76891135	1	q22.3
ENSG00000223573	-1.3953	-2.6304	9.47E-05	0.0003	TINCR	tissue diffe lincRNA	19	5558167	5568034	-1	p13.3
ENSG00000139083	-1.3954	-2.6307	1.49E-28	4.16E-27	ETV6	ets variant protein_co	12	11649854	11895402	1	p13.2
ENSG00000116525	-1.3964	-2.6324	4.92E-13	3.59E-12	TRIM62	tripartite r protein_co	1	33145402	33182059	-1	p35.1
ENSG00000092470	-1.3964	-2.6324	0.0058	0.0144	WDR76	WD repeat protein_co	15	43826963	43868419	1	q15.3
ENSG00000139154	-1.3968	-2.6332	7.46E-29	2.14E-27	AEBP2	AE binding protein_co	12	19404045	19720801	1	p12.3
ENSG00000160111	-1.3969	-2.6333	4.57E-13	3.34E-12	CPAMD8	C3 and PZP protein_co	19	16892947	17026815	-1	p13.11
ENSG00000227959	-1.3982	-2.6358	0.002	0.0053	RP11-276H7.2	antisense	1	16155211	16157329	1	p36.13
ENSG00000103653	-1.3986	-2.6364	3.44E-26	7.73E-25	CSK	c-src tyrosii protein_co	15	74782057	74803198	1	q24.1
ENSG00000177103	-1.3987	-2.6367	0.0082	0.0198	DSCAML1	Down synd protein_co	11	1.17E+08	1.18E+08	-1	q23.3
ENSG00000149115	-1.3988	-2.6368	3.76E-20	4.93E-19	TNKS1BP1	tankyrase 1 protein_co	11	57299638	57324952	-1	q12.1
ENSG00000141027	-1.3989	-2.6369	1.96E-29	5.98E-28	NCOR1	nuclear rec protein_co	17	16029157	16218185	-1	p11.2
ENSG00000189337	-1.399	-2.6371	2.42E-11	1.53E-10	KAZN	kazrin, peri protein_co	1	14598704	15118043	1	p36.21
ENSG00000183020	-1.399	-2.6372	4.81E-26	1.07E-24	AP2A2	adaptor-rel protein_co	11	924894	1012245	1	p15.5
ENSG00000188021	-1.3991	-2.6373	2.20E-32	8.70E-31	UBQLN2	ubiquilin 2 protein_co X		56563639	56567868	1	p11.21
ENSG00000078018	-1.3992	-2.6376	9.12E-06	3.39E-05	MAP2	microtubul protein_co	2	2.09E+08	2.1E+08	1	q34
ENSG00000116141	-1.3997	-2.6385	4.45E-21	6.33E-20	MARK1	MAP/micrc protein_co	1	2.21E+08	2.21E+08	1	q41
ENSG00000260798	-1.3998	-2.6386	0.0171	0.0385	RP11-354M1.2	antisense	16	68814330	68823526	-1	q22.1
ENSG00000142619	-1.4003	-2.6396	0.0005	0.0015	PADI3	peptidyl ar protein_co	1	17249098	17284233	1	p36.13
ENSG00000105784	-1.4015	-2.6417	0.0149	0.0339	RUNDC3B	RUN domai protein_co	7	87627548	87832296	1	q21.12
ENSG00000141441	-1.4017	-2.6421	1.06E-31	3.95E-30	GAREM	GRB2 assoc protein_co	18	32124877	32470484	-1	q12.1
ENSG00000237649	-1.4017	-2.6421	0.0122	0.0282	KIFC1	kinesin far protein_co	6	33391536	33409924	1	p21.32
ENSG00000188523	-1.4024	-2.6434	0.0098	0.0231	C9orf171	chromoson protein_co	9	1.32E+08	1.33E+08	1	q34.13
ENSG00000108091	-1.4027	-2.644	3.16E-36	1.88E-34	CCDC6	coiled-coil protein_co	10	59788763	59906656	-1	q21.2
ENSG00000140254	-1.4029	-2.6443	2.11E-12	1.45E-11	DUOXA1	dual oxidas protein_co	15	45117367	45129938	-1	q21.1
ENSG00000188566	-1.4037	-2.6458	6.33E-11	3.87E-10	NDOR1	NADPH def protein_co	9	1.37E+08	1.37E+08	1	q34.3
ENSG00000143569	-1.404	-2.6464	5.91E-30	1.87E-28	UBAP2L	ubiquitin a: protein_co	1	1.54E+08	1.54E+08	1	q21.3
ENSG00000158486	-1.4042	-2.6467	0.0064	0.0157	DNAH3	dynein, axc protein_co	16	20933111	21159441	-1	p12.3
ENSG00000101213	-1.405	-2.6482	1.04E-10	6.25E-10	PTK6	protein tyri protein_co	20	63528001	63537370	-1	q13.33
ENSG00000116539	-1.4051	-2.6483	1.46E-21	2.17E-20	ASH1L	ash1 (absei protein_co	1	1.55E+08	1.56E+08	-1	q22
ENSG00000166949	-1.4053	-2.6487	3.74E-23	6.32E-22	SMAD3	SMAD fami protein_co	15	67063763	67195195	1	q22.33
ENSG00000166860	-1.4053	-2.6488	6.94E-13	5.01E-12	ZBTB39	zinc finger : protein_co	12	56998834	57006446	-1	q13.3
ENSG00000006062	-1.4066	-2.6512	1.49E-11	9.58E-11	MAP3K14	mitogen-ac protein_co	17	45263121	45317040	-1	q21.31
ENSG00000103249	-1.4068	-2.6515	6.61E-14	5.17E-13	CLCN7	chloride ch protein_co	16	1444934	1475580	-1	p13.3
ENSG00000167971	-1.4069	-2.6517	0.0121	0.028	CASKIN1	CASK inter: protein_co	16	2177180	2196525	-1	p13.3
ENSG00000274180	-1.4071	-2.652	8.47E-29	2.41E-27	NATD1	N-acetyltra protein_co	17	21238870	21253410	-1	p11.2
ENSG00000102302	-1.4073	-2.6525	2.44E-07	1.08E-06	FGD1	FYVE, RhoC protein_co X		54445454	54496166	-1	p11.22
ENSG00000004777	-1.4079	-2.6535	0.0069	0.0168	ARHGAP33	Rho GTPas: protein_co	19	35774532	35788822	1	q13.12



ENSG00000129250	-1.4082	-2.654	1.01E-29	3.12E-28	KIF1C	kinesin fam protein_co	17	4997948	5028401	1	p13.2
ENSG00000227617	-1.4082	-2.654	0.0137	0.0314	CERS6-AS1	CERS6 anti:processed_	2	1.69E+08	1.69E+08	-1	q24.3
ENSG00000174136	-1.4085	-2.6546	7.18E-25	1.42E-23	RGMB	repulsive g protein_co	5	98768650	98798643	1	q15
ENSG00000179846	-1.4087	-2.6549	0.016	0.0362	NKPD1	NTPase, KA protein_co	19	45149750	45160150	-1	q13.32
ENSG00000070366	-1.4088	-2.6552	2.04E-25	4.27E-24	SMG6	SMG6 nons protein_co	17	2059839	2303771	-1	p13.3
ENSG00000177575	-1.41	-2.6574	0.0145	0.0331	CD163	CD163 mol protein_co	12	7470813	7503893	-1	p13.31
ENSG00000177542	-1.4105	-2.6583	2.76E-12	1.89E-11	SLC25A22	solute carri protein_co	11	790475	798316	-1	p15.5
ENSG00000168476	-1.4106	-2.6585	2.45E-22	3.88E-21	REEP4	receptor ac protein_co	8	22138020	22141951	-1	p21.3
ENSG00000273136	-1.4109	-2.6591	8.58E-11	5.19E-10	CH17-3B23.1	Uncharacte protein_co	1	1.21E+08	1.21E+08	1	p11.2
ENSG00000176723	-1.4117	-2.6606	0.0131	0.0302	ZNF843	zinc finger protein_co	16	31432593	31443160	-1	p11.2
ENSG00000138617	-1.412	-2.6611	3.94E-12	2.66E-11	PARP16	poly (ADP-r protein_co	15	65234460	65300618	-1	q22.31
ENSG00000197555	-1.4129	-2.6626	5.56E-29	1.61E-27	SIPA1L1	signal-indu protein_co	14	71320449	71741229	1	q24.2
ENSG00000204217	-1.4137	-2.6642	3.42E-30	1.11E-28	BMPR2	bone morp protein_co	2	2.02E+08	2.03E+08	1	q33.1
ENSG00000248015	-1.4149	-2.6663	0.0161	0.0363	AC005329.7	antisense	19	1392170	1396467	-1	p13.3
ENSG00000011304	-1.4152	-2.667	6.04E-34	2.85E-32	PTBP1	polypyrimi protein_co	19	797075	812327	1	p13.3
ENSG00000108924	-1.4154	-2.6673	0.0123	0.0285	HLF	hepatic leu protein_co	17	55265012	55325065	1	q22
ENSG00000254142	-1.4155	-2.6676	0.0112	0.0262	RP11-53M11.3	lincRNA	8	54554361	54561927	1	q11.23
ENSG00000004660	-1.4159	-2.6683	0.0002	0.0005	CAMKK1	calcium/cal protein_co	17	3860315	3894891	-1	p13.2
ENSG00000165219	-1.4163	-2.6689	1.46E-21	2.17E-20	GAPVD1	GTPase act protein_co	9	1.25E+08	1.25E+08	1	q33.3
ENSG00000061455	-1.4163	-2.669	0.0156	0.0353	PRDM6	PR domain protein_co	5	1.23E+08	1.23E+08	1	q23.2
ENSG00000254489	-1.4165	-2.6694	0.0141	0.0323	RP5-1024C24.1	antisense	11	30584130	30630508	1	p14.1
ENSG00000163251	-1.4167	-2.6698	5.59E-15	4.76E-14	FZD5	frizzled clas protein_co	2	2.08E+08	2.08E+08	-1	q33.3
ENSG00000197084	-1.4171	-2.6705	0.0115	0.0269	LCE1C	late cornifi protein_co	1	1.53E+08	1.53E+08	-1	q21.3
ENSG00000261534	-1.4176	-2.6714	9.92E-06	3.68E-05	RP11-244O19.1	sense_over	9	1.22E+08	1.22E+08	-1	q33.2
ENSG00000148411	-1.4178	-2.6717	6.04E-18	6.57E-17	NACC2	NACC famil protein_co	9	1.36E+08	1.36E+08	-1	q34.3
ENSG00000079335	-1.4177	-2.6717	2.60E-06	1.03E-05	CDC14A	cell divisior protein_co	1	1E+08	1.01E+08	1	p21.2
ENSG00000077044	-1.4183	-2.6726	3.60E-08	1.72E-07	DGKD	diacylglyce protein_co	2	2.33E+08	2.33E+08	1	q37.1
ENSG00000102034	-1.42	-2.6758	5.50E-19	6.53E-18	ELF4	E74-like fac protein_co X		1.3E+08	1.3E+08	-1	q26.1
ENSG00000137261	-1.4207	-2.6771	0.0091	0.0216	KIAA0319	KIAA0319 [ protein_co	6	24544104	24646155	-1	p22.3
ENSG00000130584	-1.4208	-2.6773	5.92E-12	3.93E-11	ZBTB46	zinc finger : protein_co	20	63743666	63831244	-1	q13.33
ENSG00000102935	-1.4208	-2.6774	0.0176	0.0395	ZNF423	zinc finger protein_co	16	49487524	49857919	-1	q12.1
ENSG00000197496	-1.4209	-2.6775	2.49E-22	3.94E-21	SLC2A10	solute carri protein_co	20	46709487	46736347	1	q13.12
ENSG00000246731	-1.4221	-2.6797	0.0154	0.035	MGC16275	uncharacte antisense	17	74209980	74213342	-1	q25.1
ENSG00000205730	-1.4221	-2.6798	3.97E-32	1.53E-30	ITPRIPL2	inositol 1,4 protein_co	16	19113932	19121629	1	p12.3
ENSG00000066084	-1.4225	-2.6805	2.01E-17	2.10E-16	DIP2B	DIP2 disco- protein_co	12	50504985	50748667	1	q13.12
ENSG00000089094	-1.4232	-2.6818	2.68E-17	2.76E-16	KDM2B	lysine (K)-s protein_co	12	1.21E+08	1.22E+08	-1	q24.31
ENSG00000180871	-1.4234	-2.6821	0.0109	0.0254	CXCR2	chemokine protein_co	2	2.18E+08	2.18E+08	1	q35
ENSG00000099864	-1.4239	-2.6831	1.86E-11	1.19E-10	PALM	paralemmii protein_co	19	709093	748330	1	p13.3
ENSG00000109118	-1.424	-2.6832	1.16E-28	3.25E-27	PHF12	PHD finger protein_co	17	28905250	28951771	-1	q11.2
ENSG00000180370	-1.4243	-2.6838	7.74E-39	6.31E-37	PAK2	p21 proteir protein_co	3	1.97E+08	1.97E+08	1	q29
ENSG00000102098	-1.4248	-2.6848	0.0144	0.0329	SCML2	sex comb o protein_co X		18239314	18354727	-1	p22.13

ENSG00000163932	-1.425	-2.6851	6.49E-36	3.69E-34 PRKCD	protein kin. protein_co	3	53156009	53192717	1	p21.1
ENSG00000099960	-1.425	-2.6852	1.60E-08	7.87E-08 SLC7A4	solute carri protein_co	22	21028718	21032840	-1	q11.21
ENSG00000204371	-1.4259	-2.6868	2.10E-22	3.35E-21 EHMT2	euchromat protein_co	6	31879759	31897687	-1	p21.33
ENSG00000063660	-1.426	-2.6871	5.30E-14	4.17E-13 GPC1	glypican 1   protein_co	2	2.4E+08	2.4E+08	1	q37.3
ENSG00000152767	-1.4268	-2.6885	1.63E-38	1.29E-36 FARP1	FERM, Rho protein_co	13	98142562	98455176	1	q32.2
ENSG00000133250	-1.4285	-2.6916	1.83E-09	9.86E-09 ZNF414	zinc finger   protein_co	19	8509678	8514164	-1	p13.2
ENSG00000148337	-1.4288	-2.6921	3.88E-33	1.65E-31 CIZ1	CDKN1A ini protein_co	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000167716	-1.4289	-2.6924	3.24E-17	3.32E-16 WDR81	WD repeat protein_co	17	1716523	1738599	1	p13.3
ENSG00000122574	-1.429	-2.6925	0.0127	0.0294 WIPF3	WAS/WASl protein_co	7	29806486	29917066	1	p14.3
ENSG00000103647	-1.4292	-2.6929	2.66E-05	9.36E-05 CORO2B	coronin, ac protein_co	15	68578969	68727806	1	q23
ENSG00000117115	-1.4293	-2.6931	7.47E-05	0.0002 PADI2	peptidyl ar protein_co	1	17066761	17119435	-1	p36.13
ENSG00000196810	-1.4305	-2.6954	4.68E-19	5.59E-18 CTBP1-AS2	CTBP1 anti: antisense	4	1249300	1288291	1	p16.3
ENSG00000072310	-1.4306	-2.6956	8.76E-24	1.57E-22 SREBF1	sterol regul protein_co	17	17810399	17837002	-1	p11.2
ENSG00000280153	-1.431	-2.6963	0.0002	0.0005 RP11-876N24.3	TEC	16	10933903	10936280	1	p13.13
ENSG00000143624	-1.4312	-2.6967	8.86E-41	9.04E-39 INTS3	integrator (protein_co	1	1.54E+08	1.54E+08	1	q21.3
ENSG00000260841	-1.4312	-2.6967	0.0003	0.0009 CTC-205M6.5	sense_over	5	1.81E+08	1.81E+08	-1	q35.3
ENSG00000107882	-1.4323	-2.6989	3.44E-19	4.16E-18 SUFU	suppressor protein_co	10	1.03E+08	1.03E+08	1	q24.32
ENSG00000134245	-1.4324	-2.699	1.05E-06	4.35E-06 WNT2B	wingless-ty protein_co	1	1.12E+08	1.13E+08	1	p13.2
ENSG00000149346	-1.433	-2.7001	5.38E-15	4.59E-14 SLX4IP	SLX4 intera protein_co	20	10435303	10636829	1	p12.2
ENSG00000120071	-1.4331	-2.7003	2.56E-20	3.39E-19 KANSL1	KAT8 regul: protein_co	17	46029916	46225374	-1	q21.31
ENSG00000262160	-1.4331	-2.7003	4.67E-17	4.73E-16 RP11-96D1.11	antisense	16	68225969	68229145	-1	q22.1
ENSG00000118900	-1.4336	-2.7012	3.72E-31	1.30E-29 UBN1	ubinuclen protein_co	16	4846665	4882360	1	p13.3
ENSG00000275367	-1.4338	-2.7015	0.0105	0.0248 RP11-266K4.14	lincRNA	12	8217758	8221115	1	p13.31
ENSG00000129566	-1.434	-2.7019	1.93E-31	6.97E-30 TEP1	telomerase protein_co	14	20365667	20413429	-1	q11.2
ENSG00000261221	-1.4341	-2.7021	2.64E-16	2.53E-15 ZNF865	zinc finger   protein_co	19	55605405	55618539	1	q13.42
ENSG00000183826	-1.4341	-2.7022	1.40E-14	1.16E-13 BTBD9	BTB (POZ) (protein_co	6	38168451	38640148	-1	p21.2
ENSG00000054965	-1.4344	-2.7026	4.66E-23	7.83E-22 FAM168A	family with protein_co	11	73400487	73598189	-1	q13.4
ENSG00000275854	-1.4343	-2.7026	0.0161	0.0364 RP11-278C7.5	sense_intrc	12	32736930	32737660	-1	p11.21
ENSG00000141655	-1.4344	-2.7027	5.49E-12	3.66E-11 TNFRSF11A	tumor necr protein_co	18	62325287	62391292	1	q21.33
ENSG00000223496	-1.4352	-2.7041	5.99E-19	7.09E-18 EXOSC6	exosome c protein_co	16	70246778	70251930	-1	q22.1
ENSG00000178764	-1.4353	-2.7043	1.77E-14	1.45E-13 ZHX2	zinc fingers protein_co	8	1.23E+08	1.23E+08	1	q24.13
ENSG00000205593	-1.4358	-2.7054	0.0019	0.0051 DENND6B	DENN/MAI protein_co	22	50309030	50327060	-1	q13.33
ENSG00000150760	-1.4366	-2.7068	4.58E-59	3.65E-56 DOCK1	dedicator c protein_co	10	1.27E+08	1.27E+08	1	q26.2
ENSG00000188089	-1.4369	-2.7073	0.0162	0.0366 PLA2G4E	phospholip protein_co	15	41981582	42051190	-1	q15.1
ENSG00000218336	-1.4371	-2.7078	1.02E-08	5.11E-08 TENM3	teneurin tr: protein_co	4	1.82E+08	1.83E+08	1	q34.3
ENSG00000004139	-1.4379	-2.7092	5.60E-16	5.20E-15 SARM1	sterile alph protein_co	17	28364356	28404049	1	q11.2
ENSG00000184058	-1.4379	-2.7093	2.17E-12	1.49E-11 TBX1	T-box 1 [So protein_co	22	19756703	19783593	1	q11.21
ENSG00000277182	-1.438	-2.7095	0.0085	0.0203 CTB-58E17.5	antisense	17	38749360	38751457	1	q12
ENSG00000006607	-1.4393	-2.7118	7.02E-37	4.56E-35 FARP2	FERM, Rho protein_co	2	2.41E+08	2.41E+08	1	q37.3
ENSG00000167106	-1.4395	-2.7122	2.17E-18	2.43E-17 FAM102A	family with protein_co	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000197483	-1.4397	-2.7127	3.51E-07	1.52E-06 ZNF628	zinc finger   protein_co	19	55476332	55484487	1	q13.42

ENSG00000109265	-1.4405	-2.7142	0.0153	0.0347 KIAA1211	KIAA1211 [ protein_co	4	56170195	56328625	1	q12
ENSG00000124126	-1.4414	-2.7159	0.004	0.0103 PREX1	phosphatidprotein_co	20	48624252	48827883	-1	q13.13
ENSG00000135686	-1.4416	-2.7162	4.08E-42	4.77E-40 KLHL36	kelch-like f;protein_co	16	84648525	84667686	1	q24.1
ENSG00000107929	-1.4416	-2.7163	7.86E-34	3.64E-32 LARP4B	La ribonucl protein_co	10	806914	931705	-1	p15.3
ENSG00000177169	-1.442	-2.7169	4.66E-12	3.13E-11 ULK1	unc-51 like protein_co	12	1.32E+08	1.32E+08	1	q24.33
ENSG00000135063	-1.4423	-2.7175	8.50E-06	3.17E-05 FAM189A2	family with protein_co	9	69324572	69392455	1	q21.12
ENSG00000261760	-1.4428	-2.7184	0.0155	0.0351 RP11-1223D19.1	lincRNA	2	1.1E+08	1.1E+08	1	q13
ENSG00000100918	-1.4434	-2.7195	1.53E-11	9.79E-11 REC8	REC8 meiot protein_co	14	24171853	24180257	1	q12
ENSG00000176182	-1.4441	-2.7209	2.27E-09	1.21E-08 MYPOP	Myb-relate protein_co	19	45890020	45902604	-1	q13.32
ENSG00000140577	-1.4442	-2.721	3.92E-20	5.12E-19 CRT3	CREB regul. protein_co	15	90529925	90645345	1	q26.1
ENSG00000039139	-1.4444	-2.7215	0.0006	0.0018 DNAH5	dynein, axc protein_co	5	13690331	13944543	-1	p15.2
ENSG00000214595	-1.4448	-2.7222	0.0004	0.0011 EML6	echinodern protein_co	2	54723499	54972025	1	p16.1
ENSG00000065060	-1.4455	-2.7236	1.28E-37	9.12E-36 UHRF1BP1	UHRF1 bin( protein_co	6	34792015	34883138	1	p21.31
ENSG00000189339	-1.4456	-2.7238	6.32E-39	5.25E-37 SLC35E2B	solute carri protein_co	1	1659529	1692728	-1	p36.33
ENSG00000103932	-1.4463	-2.7252	3.29E-19	3.98E-18 RPAP1	RNA polym protein_co	15	41517176	41544269	-1	q15.1
ENSG00000156113	-1.4465	-2.7255	0.0005	0.0016 KCNMA1	potassium   protein_co	10	76869601	77638595	-1	q22.3
ENSG00000127663	-1.4466	-2.7256	8.41E-25	1.65E-23 KDM4B	lysine (K)-s; protein_co	19	4969113	5153595	-1	p13.3
ENSG00000275342	-1.4468	-2.726	4.43E-09	2.30E-08 SGK223;	Tyrosine-pr protein_co	8	8317736	8386498	-1	p23.1
ENSG00000279138	-1.4473	-2.7271	0.0157	0.0356 KB-1742H10.3	TEC	8	1.04E+08	1.04E+08	-1	q22.3
ENSG00000184441	-1.448	-2.7284	0.0004	0.0011 AP001062.7	antisense	21	44331234	44335851	1	q22.3
ENSG00000115468	-1.4482	-2.7287	0.0004	0.0012 EFHD1	EF-hand do protein_co	2	2.33E+08	2.33E+08	1	q37.1
ENSG00000112159	-1.4484	-2.7291	4.74E-26	1.05E-24 MDN1	MDN1, mic protein_co	6	89642499	89819723	-1	q15
ENSG00000156453	-1.4486	-2.7295	1.74E-20	2.35E-19 PCDH1	protocadhe protein_co	5	1.42E+08	1.42E+08	-1	q31.3
ENSG00000075218	-1.4489	-2.73	0.0147	0.0335 GTSE1	G-2 and S- $\gamma$ protein_co	22	46296741	46330810	1	q13.31
ENSG00000172915	-1.45	-2.7321	1.75E-14	1.43E-13 NBEA	neurobeacl protein_co	13	34942287	35673022	1	q13.3
ENSG00000168918	-1.45	-2.7321	2.85E-11	1.79E-10 INPP5D	inositol pol protein_co	2	2.33E+08	2.33E+08	1	q37.1
ENSG00000131242	-1.4505	-2.7331	5.39E-12	3.60E-11 RAB11FIP4	RAB11 fam protein_co	17	31391624	31538217	1	q11.2
ENSG00000172819	-1.4506	-2.7332	1.68E-12	1.17E-11 RARG	retinoic aci protein_co	12	53210567	53232980	-1	q13.13
ENSG00000154556	-1.4511	-2.7342	4.89E-18	5.36E-17 SORBS2	sorbin and protein_co	4	1.86E+08	1.86E+08	-1	q35.1
ENSG00000149679	-1.4511	-2.7342	7.69E-11	4.67E-10 CABLES2	Cdk5 and A protein_co	20	62388632	62407285	-1	q13.33
ENSG00000115507	-1.4512	-2.7343	1.27E-12	8.92E-12 OTX1	orthodonti protein_co	2	63050057	63057836	1	p15
ENSG00000226321	-1.4512	-2.7344	0.0065	0.016 AC104809.3	Protein LO( protein_co	2	2.41E+08	2.41E+08	1	q37.3
ENSG00000084112	-1.4513	-2.7345	6.75E-15	5.71E-14 SSH1	slingshot p; protein_co	12	1.09E+08	1.09E+08	-1	q24.11
ENSG00000007545	-1.4513	-2.7346	3.47E-21	5.01E-20 CRAMP1L	Crm, cram $\gamma$ protein_co	16	1612325	1677908	1	p13.3
ENSG00000069424	-1.4514	-2.7348	1.27E-06	5.21E-06 KCNAB2	potassium   protein_co	1	5991466	6101193	1	p36.31
ENSG00000102226	-1.4515	-2.735	1.11E-19	1.39E-18 USP11	ubiquitin s; protein_co X		47232690	47248328	1	p11.3
ENSG00000108306	-1.4516	-2.7351	4.97E-39	4.19E-37 FBXL20	F-box and l protein_co	17	39252644	39402523	-1	q12
ENSG00000150938	-1.4518	-2.7354	6.19E-10	3.46E-09 CRIM1	cysteine ric protein_co	2	36355926	36551135	1	p22.2
ENSG00000152102	-1.4519	-2.7357	1.27E-35	7.07E-34 FAM168B	family with protein_co	2	1.31E+08	1.31E+08	-1	q21.1
ENSG00000105953	-1.4526	-2.7369	5.80E-18	6.32E-17 OGDH	oxoglutaral protein_co	7	44606572	44709066	1	p13
ENSG00000135476	-1.4526	-2.7369	0.0083	0.0199 ESPL1	extra spind protein_co	12	53268299	53293643	1	q13.13

ENSG00000269290	-1.4525	-2.7369	0.0121	0.028 RP11-869B15.1	lincRNA	11	64784914	64785620	-1	q13.1
ENSG00000280088	-1.4527	-2.7373	5.83E-06	2.22E-05 RP11-135F9.3	TEC	12	1E+08	1E+08	-1	q23.1
ENSG00000162426	-1.4535	-2.7386	0.0044	0.0112 SLC45A1	solute carrier protein_co	1	8317826	8344167	1	p36.23
ENSG00000174145	-1.4535	-2.7387	0.0149	0.034 NWD2	NACHT and protein_co	4	37244220	37449465	1	p14
ENSG00000253910	-1.4536	-2.739	2.23E-06	8.90E-06 PCDHGB2	protocadherin protein_co	5	1.41E+08	1.42E+08	1	q31.3
ENSG00000108813	-1.4538	-2.7392	0.0081	0.0195 DLX4	distal-less like protein_co	17	49968970	49974959	1	q21.33
ENSG00000125648	-1.4541	-2.7399	3.76E-28	1.01E-26 SLC25A23	solute carrier protein_co	19	6436079	6465203	-1	p13.3
ENSG00000278627	-1.4546	-2.7409	0.0127	0.0294 RP11-506H21.5	antisense	17	58202352	58203003	-1	q22
ENSG00000196663	-1.4554	-2.7423	1.05E-23	1.87E-22 TECPR2	tectonin binding protein_co	14	1.02E+08	1.03E+08	1	q32.31
ENSG00000158545	-1.4558	-2.7431	2.36E-23	4.08E-22 ZC3H18	zinc finger protein_co	16	88570381	88631966	1	q24.2
ENSG00000122547	-1.4562	-2.7438	7.35E-08	3.41E-07 EEPD1	endonuclease protein_co	7	36153149	36301543	1	p14.2
ENSG00000095397	-1.4562	-2.7438	4.99E-05	0.0002 DFNB31	deafness, a protein_co	9	1.14E+08	1.15E+08	-1	q32
ENSG00000104237	-1.4562	-2.7438	0.0068	0.0167 RP1	retinitis pigmentosa protein_co	8	54616067	54630834	1	q12.1
ENSG00000115257	-1.4572	-2.7458	0.0002	0.0006 PCSK4	proprotein protein_co	19	1481428	1490752	-1	p13.3
ENSG00000100767	-1.4573	-2.7459	4.40E-10	2.49E-09 PAPLN	papilin, precursor protein_co	14	73237497	73274640	1	q24.2
ENSG00000066044	-1.4575	-2.7464	2.12E-27	5.32E-26 ELAVL1	ELAV like R protein_co	19	7958579	8445041	-1	p13.2
ENSG00000237424	-1.4578	-2.7469	0.0004	0.0012 FOXD2-AS1	FOXD2 antisense	1	47432133	47434641	-1	p33
ENSG00000243156	-1.4581	-2.7475	4.23E-18	4.65E-17 MICAL3	microtubule protein_co	22	17787649	18024559	-1	q11.21
ENSG00000254681	-1.4585	-2.7482	0.0048	0.012 PKD1P5	polycystic kidney transcribed	16	18374521	18401940	-1	p12.3
ENSG00000010404	-1.4586	-2.7485	1.85E-23	3.23E-22 IDS	iduronate 2-sulfate protein_co X		1.49E+08	1.5E+08	-1	q28
ENSG00000272796	-1.4589	-2.7489	1.90E-07	8.49E-07 RP1-74M1.3	lincRNA	1	22916682	22921500	1	p36.12
ENSG00000196422	-1.4597	-2.7505	2.67E-23	4.59E-22 PPP1R26	protein phosphatase protein_co	9	1.35E+08	1.35E+08	1	q34.3
ENSG00000198793	-1.4601	-2.7513	3.41E-31	1.20E-29 MTOR	mechanistic target of rapamycin protein_co	1	11106535	11262507	-1	p36.22
ENSG00000157657	-1.4608	-2.7526	1.45E-08	7.16E-08 ZNF618	zinc finger protein_co	9	1.14E+08	1.14E+08	1	q32
ENSG00000182492	-1.4608	-2.7526	0.0125	0.0289 BGN	biglycan [S] protein_co X		1.53E+08	1.54E+08	1	q28
ENSG00000137103	-1.4613	-2.7535	1.21E-20	1.66E-19 TMEM8B	transmembrane protein_co	9	35814451	35854847	1	p13.3
ENSG00000260917	-1.4615	-2.7539	2.84E-12	1.94E-11 RP11-57H14.4	sense_intronic	10	1.13E+08	1.13E+08	1	q25.2
ENSG00000198265	-1.4623	-2.7555	4.85E-36	2.84E-34 HELZ	helicase with forkhead domain protein_co	17	67070438	67245989	-1	q24.2
ENSG00000188493	-1.4626	-2.7561	3.85E-09	2.01E-08 C19orf54	chromosome protein_co	19	40740856	40751553	-1	q13.2
ENSG00000170653	-1.4629	-2.7566	5.07E-24	9.35E-23 ATF7	activating transcription factor protein_co	12	53507856	53626410	-1	q13.13
ENSG00000185739	-1.4632	-2.7573	0.0123	0.0284 SRL	sarcoplasmic reticulum protein_co	16	4189374	4242080	-1	p13.3
ENSG00000071894	-1.4636	-2.7579	6.98E-41	7.22E-39 CPSF1	cleavage factor protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000119522	-1.4638	-2.7583	2.48E-12	1.70E-11 DENND1A	DENN/MAL protein_co	9	1.23E+08	1.24E+08	-1	q33.3
ENSG00000150990	-1.4638	-2.7584	2.34E-27	5.86E-26 DHX37	DEAH (Asp-) protein_co	12	1.25E+08	1.25E+08	-1	q24.31
ENSG00000186716	-1.4648	-2.7603	5.70E-22	8.76E-21 BCR	breakpoint cluster region protein_co	22	23179704	23318037	1	q11.23
ENSG00000187068	-1.4651	-2.7609	0.0145	0.0331 C3orf70	chromosome protein_co	3	1.85E+08	1.85E+08	-1	q27.2
ENSG00000038532	-1.4655	-2.7616	4.46E-27	1.09E-25 CLEC16A	C-type lectin protein_co	16	10944488	11182189	1	p13.13
ENSG00000262758	-1.4666	-2.7637	9.56E-12	6.23E-11 CTD-3195I5.1	lincRNA	17	3806748	3808854	-1	p13.2
ENSG00000019485	-1.467	-2.7644	2.79E-14	2.25E-13 PRDM11	PR domain protein_co	11	45095806	45235124	1	p11.2
ENSG00000160445	-1.4671	-2.7646	3.19E-34	1.57E-32 ZER1	zyg-11 related protein_co	9	1.29E+08	1.29E+08	-1	q34.11
ENSG00000103460	-1.4675	-2.7654	4.13E-11	2.56E-10 TOX3	TOX high mobility group protein_co	16	52438005	52547802	-1	q12.1

ENSG00000137709	-1.4683	-2.7669	0.0007	0.0021	POU2F3	POU class 2 protein_co	11	1.2E+08	1.2E+08	1	q23.3
ENSG00000169918	-1.4685	-2.7673	0.0042	0.0106	OTUD7A	OTU deubiquitin protein_co	15	31475398	31870789	-1	q13.3
ENSG00000070047	-1.4692	-2.7687	6.32E-32	2.38E-30	PHRF1	PHD and ring protein_co	11	576486	612222	1	p15.5
ENSG00000157837	-1.4693	-2.7688	1.39E-31	5.10E-30	SPPL3	signal peptide protein_co	12	1.21E+08	1.21E+08	-1	q24.31
ENSG00000185630	-1.4695	-2.7692	1.66E-20	2.24E-19	PBX1	pre-B-cell lymphoma protein_co	1	1.65E+08	1.65E+08	1	q23.3
ENSG00000204104	-1.4696	-2.7695	1.69E-05	6.12E-05	TRAF3IP1	TNF receptor protein_co	2	2.38E+08	2.38E+08	1	q37.3
ENSG00000120693	-1.4699	-2.77	0.0002	0.0006	SMAD9	SMAD family protein_co	13	36844831	36920765	-1	q13.3
ENSG00000174306	-1.4705	-2.7713	7.97E-21	1.10E-19	ZHX3	zinc finger protein_co	20	41178448	41317672	-1	q12
ENSG00000079482	-1.4706	-2.7713	2.63E-10	1.51E-09	OPHN1	oligophrenin protein_co X		68042344	68433913	-1	q12
ENSG00000106261	-1.4709	-2.772	4.85E-34	2.32E-32	ZKSCAN1	zinc finger protein_co	7	1E+08	1E+08	1	q22.1
ENSG00000131389	-1.471	-2.7721	2.70E-27	6.72E-26	SLC6A6	solute carrier protein_co	3	14402576	14489349	1	p25.1
ENSG00000066629	-1.4713	-2.7728	6.97E-05	0.0002	EML1	echinoderm protein_co	14	99737693	99942060	1	q32.2
ENSG00000108262	-1.4717	-2.7736	3.90E-24	7.24E-23	GIT1	G protein-coupled protein_co	17	29573469	29594054	-1	q11.2
ENSG00000236901	-1.4731	-2.7761	5.69E-07	2.42E-06	MIR600HG	MIR600 host sense intronic lincRNA	9	1.23E+08	1.23E+08	-1	q33.3
ENSG00000272264	-1.4735	-2.7769	0.0136	0.0312	RP11-92K15.3		8	80032724	80033300	-1	q21.13
ENSG00000197081	-1.4743	-2.7784	3.40E-15	2.94E-14	IGF2R	insulin-like protein_co	6	1.6E+08	1.6E+08	1	q25.3
ENSG00000273381	-1.4743	-2.7784	0.01	0.0236	RP11-305L7.7	lincRNA	9	91206175	91210299	-1	q22.31
ENSG00000136828	-1.4745	-2.7789	9.23E-12	6.02E-11	RALGAP5	Ral GEF with protein_co	9	1.27E+08	1.27E+08	1	q33.3
ENSG00000128268	-1.4753	-2.7803	1.56E-17	1.65E-16	MGAT3	mannosyl transferase protein_co	22	39457344	39492194	1	q13.1
ENSG00000198792	-1.4753	-2.7804	9.03E-09	4.54E-08	TMEM184B	transmembrane protein_co	22	38219291	38273034	-1	q13.1
ENSG00000080845	-1.4755	-2.7807	3.78E-26	8.46E-25	DLGAP4	discs, large protein_co	20	36306336	36528637	1	q11.23
ENSG00000261115	-1.4774	-2.7846	1.22E-06	5.03E-06	TMEM178B	transmembrane protein_co	7	1.41E+08	1.41E+08	1	q34
ENSG00000213937	-1.4778	-2.7853	0.0011	0.0031	CLDN9	claudin 9 [S] protein_co	16	3012456	3014505	1	p13.3
ENSG00000249428	-1.4786	-2.7869	0.008	0.0193	CFAP99	cilia and flagellum protein_co	4	2418974	2462963	1	p16.3
ENSG00000123643	-1.479	-2.7875	1.85E-11	1.18E-10	SLC36A1	solute carrier protein_co	5	1.51E+08	1.51E+08	1	q33.1
ENSG00000158158	-1.4791	-2.7877	4.56E-26	1.01E-24	CNNM4	cyclin and cyclin dependent kinase protein_co	2	96760902	96811891	1	q11.2
ENSG00000266930	-1.48	-2.7895	9.97E-05	0.0003	CTD-2085J24.4	lincRNA	19	32875925	32878421	-1	q13.11
ENSG00000204544	-1.4808	-2.791	0.0075	0.0182	MUC21	mucin 21, core protein_co	6	30983718	30989903	1	p21.33
ENSG00000105063	-1.4813	-2.7921	3.02E-18	3.36E-17	PPP6R1	protein phosphatase protein_co	19	55229780	55258995	-1	q13.42
ENSG00000099139	-1.4819	-2.7933	6.37E-12	4.21E-11	PCSK5	proprotein convertase protein_co	9	75890644	76362339	1	q21.13
ENSG00000167670	-1.4821	-2.7936	1.89E-11	1.21E-10	CHAF1A	chromatin associated protein_co	19	4402662	4445018	1	p13.3
ENSG00000240184	-1.4824	-2.7942	2.95E-10	1.70E-09	PCDHGC3	protocadherin protein_co	5	1.41E+08	1.42E+08	1	q31.3
ENSG00000172264	-1.483	-2.7954	1.63E-11	1.04E-10	MACROD2	MACRO domain protein_co	20	13995369	16053197	1	p12.1
ENSG00000140992	-1.4835	-2.7963	2.57E-29	7.67E-28	PDPK1	3-phosphoinositide dependent kinase protein_co	16	2537964	2603188	1	p13.3
ENSG00000168175	-1.4838	-2.7969	9.49E-37	6.06E-35	MAPK1IP1L	mitogen-activated protein kinase protein_co	14	55051631	55070192	1	q22.3
ENSG00000225190	-1.484	-2.7973	2.37E-18	2.66E-17	PLEKHM1	pleckstrin homology domain protein_co	17	45435900	45490749	-1	q21.31
ENSG00000275880	-1.4842	-2.7976	0.0002	0.0007	RP11-90L1.8	antisense	13	1.11E+08	1.11E+08	-1	q34
ENSG00000213853	-1.485	-2.7991	2.81E-08	1.35E-07	EMP2	epithelial membrane protein_co	16	10528422	10580698	-1	p13.13
ENSG00000171992	-1.4851	-2.7993	6.29E-17	6.31E-16	SYNPO	synaptotagmin protein_co	5	1.51E+08	1.51E+08	1	q33.1
ENSG00000178409	-1.4855	-2.8001	3.87E-11	2.40E-10	BEND3	BEN domain protein_co	6	1.07E+08	1.07E+08	-1	q21
ENSG00000159450	-1.4858	-2.8007	0.0027	0.0071	TCHH	trichohyalin protein_co	1	1.52E+08	1.52E+08	-1	q21.3



ENSG00000230487	-1.4858	-2.8008	3.04E-12	2.07E-11	PSMG3-AS1	PSMG3 ant lincRNA	7	1570073	1589626	1	p22.3
ENSG00000064655	-1.4864	-2.8018	1.50E-17	1.59E-16	EYA2	EYA transcr protein_co	20	46894624	47188844	1	q13.12
ENSG00000168658	-1.4898	-2.8084	0.0045	0.0114	VWA3B	von Willebr protein_co	2	98087116	98313299	1	q11.2
ENSG00000177463	-1.4902	-2.8093	3.19E-39	2.74E-37	NR2C2	nuclear rec protein_co	3	14947584	15053600	1	p25.1
ENSG00000167978	-1.4905	-2.8098	4.97E-35	2.59E-33	SRRM2	serine/argi protein_co	16	2752329	2772538	1	p13.3
ENSG00000121281	-1.4911	-2.811	3.58E-12	2.42E-11	ADCY7	adenylate c protein_co	16	50246137	50318135	1	q12.1
ENSG00000128011	-1.4913	-2.8113	0.0114	0.0265	LRFN1	leucine rich protein_co	19	39306568	39315336	-1	q13.2
ENSG00000156218	-1.4913	-2.8115	3.35E-12	2.27E-11	ADAMTSL3	ADAMTS-lil protein_co	15	83654086	84039842	1	q25.2
ENSG00000176542	-1.4917	-2.8121	8.90E-23	1.46E-21	KIAA2018	KIAA2018 [ protein_co	3	1.14E+08	1.14E+08	-1	q13.2
ENSG00000179593	-1.4918	-2.8125	2.61E-10	1.51E-09	ALOX15B	arachidona protein_co	17	8039017	8049134	1	p13.1
ENSG00000182158	-1.492	-2.8127	8.27E-21	1.14E-19	CREB3L2	cAMP resp protein_co	7	1.38E+08	1.38E+08	-1	q33
ENSG00000105204	-1.4924	-2.8135	4.32E-18	4.75E-17	DYRK1B	dual-specif protein_co	19	39825350	39834201	-1	q13.2
ENSG00000105879	-1.4926	-2.8139	2.21E-35	1.21E-33	CBLL1	Cbl proto-c protein_co	7	1.08E+08	1.08E+08	1	q22.3
ENSG00000162571	-1.4936	-2.8158	0.0037	0.0095	TTL10	tubulin tyrc protein_co	1	1173884	1197935	1	p36.33
ENSG00000112941	-1.4936	-2.8159	1.78E-24	3.40E-23	PAPD7	PAP associ protein_co	5	6714605	6757048	1	p15.31
ENSG00000196924	-1.4938	-2.8163	1.92E-08	9.40E-08	FLNA	filamin A, a protein_co X		1.54E+08	1.54E+08	-1	q28
ENSG00000198944	-1.4941	-2.8169	0.0006	0.0016	SOWAHA	sosondowa protein_co	5	1.33E+08	1.33E+08	1	q31.1
ENSG00000100354	-1.4942	-2.8172	4.96E-47	9.61E-45	TNRC6B	trinucleotic protein_co	22	40044817	40335808	1	q13.1
ENSG00000089902	-1.4945	-2.8177	6.27E-45	9.56E-43	RCOR1	REST corep protein_co	14	1.03E+08	1.03E+08	1	q32.31
ENSG00000109686	-1.4951	-2.8189	5.21E-38	3.96E-36	SH3D19	SH3 domai protein_co	4	1.51E+08	1.51E+08	-1	q31.3
ENSG00000110048	-1.4953	-2.8193	3.39E-36	2.00E-34	OSBP	oxysterol b protein_co	11	59574398	59616144	-1	q12.1
ENSG00000180720	-1.4959	-2.8203	0.0119	0.0276	CHRM4	cholinergic protein_co	11	46385098	46386608	-1	p11.2
ENSG00000125449	-1.4961	-2.8208	5.02E-16	4.68E-15	ARMC7	armadillo r protein_co	17	75109952	75130265	1	q25.1
ENSG00000183454	-1.4962	-2.8209	0.0097	0.0231	GRIN2A	glutamate i protein_co	16	9753409	10182754	-1	p13.2
ENSG00000143190	-1.4966	-2.8218	3.72E-25	7.61E-24	POU2F1	POU class 2 protein_co	1	1.67E+08	1.67E+08	1	q24.2
ENSG00000066382	-1.4966	-2.8218	1.87E-19	2.30E-18	MPPED2	metallophc protein_co	11	30384493	30586872	-1	p14.1
ENSG00000196517	-1.4972	-2.823	5.75E-15	4.89E-14	SLC6A9	solute carri protein_co	1	43991500	44031467	-1	p34.1
ENSG00000069020	-1.4975	-2.8234	2.13E-16	2.04E-15	MAST4	microtubul protein_co	5	66596361	67169595	1	q12.3
ENSG00000007237	-1.4975	-2.8236	0.0008	0.0022	GAS7	growth arr protein_co	17	9910609	10198551	-1	p13.1
ENSG00000103111	-1.4982	-2.8249	4.97E-26	1.10E-24	MON1B	MON1 secr protein_co	16	77190835	77202405	1	q23.1
ENSG00000181638	-1.4986	-2.8257	7.61E-12	5.00E-11	ZFP41	ZFP41 zinc protein_co	8	1.43E+08	1.43E+08	1	q24.3
ENSG00000174502	-1.4999	-2.8283	0.0024	0.0063	SLC26A9	solute carri protein_co	1	2.06E+08	2.06E+08	-1	q32.1
ENSG00000168488	-1.5002	-2.8289	1.82E-22	2.92E-21	ATXN2L	ataxin 2-lik protein_co	16	28823035	28837237	1	p11.2
ENSG00000123358	-1.5008	-2.8299	1.26E-07	5.74E-07	NR4A1	nuclear rec protein_co	12	52022832	52059507	1	q13.13
ENSG00000073111	-1.5011	-2.8307	5.48E-07	2.34E-06	MCM2	minichrom protein_co	3	1.28E+08	1.28E+08	1	q21.3
ENSG00000105664	-1.5022	-2.8327	0.0018	0.0048	COMP	cartilage ol protein_co	19	18782773	18791314	-1	p13.11
ENSG00000105486	-1.5033	-2.8349	3.63E-13	2.67E-12	LIG1	ligase I, DN protein_co	19	48115445	48170603	-1	q13.33
ENSG00000176387	-1.5041	-2.8364	0.0024	0.0064	HSD11B2	hydroxyste protein_co	16	67430652	67437553	1	q22.1
ENSG00000258334	-1.5042	-2.8367	0.0038	0.0097	RP11-161H23.9	antisense	12	49292631	49324576	-1	q13.12
ENSG00000157617	-1.5043	-2.8368	1.09E-22	1.77E-21	C2CD2	C2 calcium protein_co	21	41885112	41953890	-1	q22.3
ENSG00000007968	-1.5045	-2.8372	0.0094	0.0224	E2F2	E2F transcr protein_co	1	23506430	23531220	-1	p36.12

ENSG00000263142	-1.5049	-2.838	0.001	0.0027 LRRC37A17P	leucine rich transcribed	17	46978481	47054569	1	q21.32
ENSG00000183421	-1.5054	-2.839	7.02E-17	7.03E-16 RIPK4	receptor-in protein_co	21	41739369	41767106	-1	q22.3
ENSG00000072062	-1.5057	-2.8396	2.38E-19	2.91E-18 PRKACA	protein kin. protein_co	19	14091688	14118084	-1	p13.12
ENSG00000133069	-1.5064	-2.841	2.69E-08	1.29E-07 TMCC2	transmemt protein_co	1	2.05E+08	2.05E+08	1	q32.1
ENSG00000160007	-1.507	-2.8421	3.44E-28	9.32E-27 ARHGAP35	Rho GTPase protein_co	19	46918676	47005077	1	q13.32
ENSG00000023171	-1.5077	-2.8435	1.27E-06	5.23E-06 GRAMD1B	GRAM domr protein_co	11	1.24E+08	1.24E+08	1	q24.1
ENSG00000279747	-1.508	-2.8441	7.89E-06	2.96E-05 CTA-363E6.8	TEC	16	19503861	19504625	1	p12.3
ENSG00000091157	-1.508	-2.8442	6.36E-29	1.84E-27 WDR7	WD repeat protein_co	18	56651343	57036606	1	q21.31
ENSG00000072501	-1.5082	-2.8445	1.14E-26	2.70E-25 SMC1A	structural r protein_co X		53374149	53422728	-1	p11.22
ENSG00000078269	-1.5084	-2.8449	8.77E-19	1.03E-17 SYNJ2	synaptojan protein_co	6	1.58E+08	1.58E+08	1	q25.3
ENSG00000254608	-1.5084	-2.845	0.0047	0.012 RP11-56A10.1	unprocesse	8	54648993	54869903	1	q12.1
ENSG00000181555	-1.5089	-2.8459	1.12E-29	3.48E-28 SETD2	SET domair protein_co	3	47016429	47163967	-1	p21.31
ENSG00000278035	-1.5091	-2.8464	0.0069	0.0169 RP11-234K24.6	lincRNA	20	36233851	36234297	1	q11.23
ENSG00000276975	-1.5098	-2.8477	0.0033	0.0085 HYDIN2	HYDIN2, ax transcribed	1	1.47E+08	1.47E+08	1	q21.1
ENSG00000171681	-1.5105	-2.849	5.73E-44	7.90E-42 ATF7IP	activating t protein_co	12	14365632	14502935	1	p13.1
ENSG00000138606	-1.5117	-2.8514	0.0003	0.0009 SHF	Src homolo protein_co	15	45167214	45201175	-1	q21.1
ENSG00000179979	-1.5121	-2.8523	2.16E-11	1.37E-10 CRIPAK	cysteine-ric protein_co	4	1391552	1395989	1	p16.3
ENSG00000260526	-1.5126	-2.8533	0.0002	0.0006 RP11-73K9.2	antisense	4	1.12E+08	1.12E+08	-1	q25
ENSG00000218891	-1.5127	-2.8534	7.54E-14	5.87E-13 ZNF579	zinc finger   protein_co	19	55576770	55580845	-1	q13.42
ENSG00000175221	-1.5127	-2.8535	6.47E-19	7.62E-18 MED16	mediator c protein_co	19	867630	893218	-1	p13.3
ENSG00000160460	-1.513	-2.8541	0.0106	0.0249 SPTBN4	spectrin, b protein_co	19	40466241	40576464	1	q13.2
ENSG00000273466	-1.5134	-2.8549	0.004	0.0103 RP11-548H3.1	antisense	2	2.19E+08	2.19E+08	-1	q35
ENSG00000248399	-1.5137	-2.8554	0.007	0.0171 RP11-503N18.4	sense_intrc	4	2463797	2464124	1	p16.3
ENSG00000078699	-1.5146	-2.8571	1.02E-30	3.44E-29 CBFA2T2	core-bindir protein_co	20	33490075	33650036	1	q11.21
ENSG00000182568	-1.5162	-2.8604	1.97E-16	1.90E-15 SATB1	SATB home protein_co	3	18345387	18445588	-1	p24.3
ENSG00000077942	-1.5163	-2.8606	1.05E-07	4.81E-07 FBLN1	fibulin 1 [Sc protein_co	22	45502238	45601135	1	q13.31
ENSG00000259768	-1.5165	-2.861	7.64E-05	0.0003 RP5-991G20.1	antisense	16	72665170	72791624	1	q22.2
ENSG00000131374	-1.5171	-2.8621	4.48E-29	1.31E-27 TBC1D5	TBC1 doma protein_co	3	17157162	18444817	-1	p24.3
ENSG00000242687	-1.5174	-2.8627	6.18E-05	0.0002 AC004893.11	antisense	7	99013165	99048240	1	q22.1
ENSG00000132122	-1.5174	-2.8628	0.0004	0.0013 SPATA6	spermatog protein_co	1	48295372	48472208	-1	p33
ENSG00000180438	-1.5184	-2.8648	0.0063	0.0155 TPRXL	tetra-pepti protein_co	3	13937256	14082811	1	p25.1
ENSG00000001617	-1.5188	-2.8656	3.59E-18	3.97E-17 SEMA3F	sema doma protein_co	3	50155045	50189075	1	p21.31
ENSG00000196961	-1.5196	-2.8671	2.21E-40	2.16E-38 AP2A1	adaptor-rel protein_co	19	49766968	49807113	1	q13.33
ENSG00000197121	-1.5198	-2.8675	1.41E-32	5.65E-31 PGAP1	post-GPI at protein_co	2	1.97E+08	1.97E+08	-1	q33.1
ENSG00000114812	-1.5199	-2.8678	9.35E-11	5.62E-10 VIPR1	vasoactive protein_co	3	42489299	42537573	1	p22.1
ENSG00000105514	-1.5201	-2.868	1.28E-15	1.14E-14 RAB3D	RAB3D, me protein_co	19	11322046	11346270	-1	p13.2
ENSG00000162298	-1.5206	-2.869	1.31E-12	9.22E-12 SYVN1	synovial ap protein_co	11	65121780	65134533	-1	q13.1
ENSG00000137216	-1.5206	-2.8692	5.35E-17	5.40E-16 TMEM63B	transmemt protein_co	6	44126914	44155519	1	p21.1
ENSG00000121060	-1.521	-2.8699	2.03E-37	1.42E-35 TRIM25	tripartite rr protein_co	17	56887909	56914038	-1	q22
ENSG00000103888	-1.521	-2.8699	0.0009	0.0025 CEMIP	cell migrati protein_co	15	80779343	80951776	1	q25.1
ENSG00000214562	-1.5213	-2.8705	0.0002	0.0006 NUTM2D	NUT family protein_co	10	87357668	87370695	1	q23.2

ENSG00000223459	-1.5214	-2.8707	4.41E-05	0.0002	FAM115B	family with unprocesse	7	1.44E+08	1.44E+08	1	q35
ENSG00000166833	-1.5215	-2.8709	6.04E-19	7.14E-18	NAV2	neuron nav protein_co	11	19350724	20121598	1	p15.1
ENSG00000149577	-1.5221	-2.8721	1.26E-24	2.45E-23	SIDT2	SID1 transr protein_co	11	1.17E+08	1.17E+08	1	q23.3
ENSG00000169291	-1.5221	-2.8721	0.0001	0.0003	SHE	Src homolo protein_co	1	1.54E+08	1.55E+08	-1	q21.3
ENSG00000126461	-1.5235	-2.8749	1.86E-20	2.50E-19	SCAF1	SR-related protein_co	19	49642125	49658642	1	q13.33
ENSG00000102870	-1.5257	-2.8793	6.39E-25	1.28E-23	ZNF629	zinc finger   protein_co	16	30778449	30787202	-1	p11.2
ENSG00000169507	-1.5259	-2.8796	0.0105	0.0247	SLC38A11	solute carri protein_co	2	1.65E+08	1.65E+08	-1	q24.3
ENSG00000162825	-1.5261	-2.8801	6.02E-07	2.56E-06	NBPF8	neuroblast protein_co	1	1.45E+08	1.45E+08	-1	q21.1
ENSG00000197283	-1.5262	-2.8803	1.96E-05	7.02E-05	SYNGAP1	synaptic Ra protein_co	6	33420070	33453689	1	p21.32
ENSG00000149260	-1.5262	-2.8804	4.30E-13	3.15E-12	CAPN5	calpain 5 [S protein_co	11	77066932	77126155	1	q13.5
ENSG00000105726	-1.5265	-2.8808	2.79E-19	3.40E-18	ATP13A1	ATPase typ protein_co	19	19645198	19663693	-1	p13.11
ENSG00000054179	-1.5267	-2.8812	2.48E-05	8.79E-05	ENTPD2	ectonucleo protein_co	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000165959	-1.5273	-2.8825	1.88E-05	6.74E-05	CLMN	calmin (cal) protein_co	14	95181940	95319906	-1	q32.13
ENSG00000095319	-1.5276	-2.8831	5.38E-28	1.41E-26	NUP188	nucleoporin protein_co	9	1.29E+08	1.29E+08	1	q34.11
ENSG00000064309	-1.5281	-2.884	2.74E-19	3.34E-18	CDON	cell adhesio protein_co	11	1.26E+08	1.26E+08	-1	q24.2
ENSG00000145555	-1.5281	-2.8841	5.32E-36	3.08E-34	MYO10	myosin X [S protein_co	5	16661914	16936276	-1	p15.1
ENSG00000279010	-1.5295	-2.8869	6.39E-08	2.99E-07	MIR6820	microRNA (sense_over	22	37948352	38002889	1	q13.1
ENSG00000166025	-1.5297	-2.8872	5.77E-20	7.49E-19	AMOTL1	angiomotin protein_co	11	94706431	94876753	1	q21
ENSG00000167470	-1.5299	-2.8876	3.85E-23	6.49E-22	MIDN	midnolin [S protein_co	19	1248553	1259140	1	p13.3
ENSG00000185551	-1.5299	-2.8876	2.08E-17	2.17E-16	NR2F2	nuclear rec protein_co	15	96325938	96340263	1	q26.2
ENSG00000010322	-1.53	-2.8878	4.15E-16	3.90E-15	NISCH	nischarin [S protein_co	3	52455118	52493071	1	p21.1
ENSG00000119669	-1.5301	-2.8881	4.32E-35	2.27E-33	IRF2BPL	interferon   protein_co	14	77024543	77028699	-1	q24.3
ENSG00000100345	-1.5301	-2.8881	3.56E-12	2.41E-11	MYH9	myosin, he protein_co	22	36281281	36388018	-1	q12.3
ENSG00000147144	-1.5311	-2.89	2.67E-26	6.07E-25	CCDC120	coiled-coil (protein_co X		49053572	49069857	1	p11.23
ENSG00000170260	-1.5313	-2.8904	4.85E-16	4.53E-15	ZNF212	zinc finger   protein_co	7	1.49E+08	1.49E+08	1	q36.1
ENSG00000100241	-1.5319	-2.8916	2.48E-31	8.93E-30	SBF1	SET binding protein_co	22	50445000	50475025	-1	q13.33
ENSG00000197724	-1.5323	-2.8925	3.30E-29	9.78E-28	PHF2	PHD finger protein_co	9	93576407	93679587	1	q22.31
ENSG00000186918	-1.5325	-2.8928	1.42E-15	1.27E-14	ZNF395	zinc finger   protein_co	8	28345585	28402701	-1	p21.1
ENSG00000089847	-1.5328	-2.8934	0.0007	0.0021	ANKRD24	ankyrin rep protein_co	19	4183354	4224814	1	p13.3
ENSG00000173801	-1.533	-2.8939	3.79E-25	7.74E-24	JUP	junction pl; protein_co	17	41754604	41786931	-1	q21.2
ENSG00000224389	-1.5339	-2.8956	2.22E-06	8.88E-06	C4B	complemer protein_co	6	32014762	32035418	1	p21.33
ENSG00000272223	-1.5344	-2.8967	0.0085	0.0204	RP1-20C7.6	antisense	6	43033897	43034405	-1	p21.1
ENSG00000250790	-1.5349	-2.8977	0.0029	0.0075	RP11-46H11.3	lincRNA	12	1.33E+08	1.33E+08	1	q24.33
ENSG00000104881	-1.5351	-2.8981	1.00E-16	9.87E-16	PPP1R13L	protein ph; protein_co	19	45379634	45406349	-1	q13.32
ENSG00000248905	-1.5353	-2.8985	5.39E-10	3.02E-09	FMN1	formin 1 [S protein_co	15	32765545	33194733	-1	q13.3
ENSG00000105655	-1.5354	-2.8987	1.37E-22	2.22E-21	ISYNA1	inositol-3-ç protein_co	19	18434388	18438301	-1	p13.11
ENSG00000173065	-1.536	-2.8998	1.64E-19	2.02E-18	FAM222B	family with protein_co	17	28755978	28855232	-1	q11.2
ENSG00000102858	-1.5362	-2.9003	2.62E-26	5.96E-25	MGRN1	mahogunin protein_co	16	4616493	4690974	1	p13.3
ENSG00000114650	-1.5363	-2.9006	7.88E-29	2.25E-27	SCAP	SREBF chaç protein_co	3	47413694	47477126	-1	p21.31
ENSG00000239335	-1.5365	-2.9008	0.0097	0.023	LLPH-AS1	LLPH antise antisense	12	66130751	66134449	1	q14.3
ENSG00000154229	-1.537	-2.902	1.04E-16	1.02E-15	PRKCA	protein kin. protein_co	17	66302636	66810743	1	q24.2

ENSG00000163531	-1.5378	-2.9036	0.0003	0.0009 NFASC	neurofascir protein_co	1	2.05E+08	2.05E+08	1	q32.1
ENSG00000254343	-1.5383	-2.9045	8.41E-05	0.0003 RP11-760H22.2	lincRNA	8	1.2E+08	1.2E+08	1	q24.12
ENSG00000253341	-1.5389	-2.9058	0.0002	0.0006 RP11-730G20.2	processed_	8	74603244	74604244	-1	q21.12
ENSG00000015133	-1.5392	-2.9063	1.84E-16	1.79E-15 CCDC88C	coiled-coil protein_co	14	91271323	91417844	-1	q32.12
ENSG00000126243	-1.5393	-2.9065	3.64E-20	4.78E-19 LRFN3	leucine rich protein_co	19	35935358	35945767	1	q13.12
ENSG00000147394	-1.5393	-2.9065	2.27E-16	2.18E-15 ZNF185	zinc finger protein_co X		1.53E+08	1.53E+08	1	q28
ENSG00000244486	-1.5399	-2.9078	0.0007	0.002 SCARF2	scavenger protein_co	22	20424585	20437859	-1	q11.21
ENSG00000116032	-1.54	-2.908	0.0048	0.0121 GRIN3B	glutamate protein_co	19	1000419	1009732	1	p13.3
ENSG00000118557	-1.5406	-2.9091	0.0028	0.0074 PMFBP1	polyamine protein_co	16	72112157	72176878	-1	q22.2
ENSG00000089154	-1.541	-2.9099	2.79E-33	1.21E-31 GCN1L1	GCN1 gene protein_co	12	1.2E+08	1.2E+08	-1	q24.23
ENSG00000162591	-1.5422	-2.9125	1.34E-06	5.50E-06 MEGF6	multiple EC protein_co	1	3489920	3611495	-1	p36.32
ENSG00000204624	-1.5429	-2.9138	0.0023	0.0061 PTCHD2	patched do protein_co	1	11479166	11537584	1	p36.22
ENSG00000154856	-1.543	-2.914	0.0054	0.0135 APCDD1	adenomatc protein_co	18	10454628	10489948	-1	p11.22
ENSG00000279806	-1.5437	-2.9154	6.84E-08	3.18E-07 RP11-5809.2	TEC	17	40473554	40475289	-1	q21.2
ENSG00000168646	-1.5449	-2.9178	1.30E-11	8.39E-11 AXIN2	axin 2 [Sou protein_co	17	65528563	65561647	-1	q24.1
ENSG00000101493	-1.545	-2.9181	3.57E-35	1.91E-33 ZNF516	zinc finger protein_co	18	76358190	76495190	-1	q23
ENSG00000260822	-1.5452	-2.9185	1.88E-09	1.01E-08 GS1-358P8.4	sense_over X		24545516	24550466	1	p22.11
ENSG00000117013	-1.546	-2.9202	0.0094	0.0223 KCNQ4	potassium protein_co	1	40784012	40840452	1	p34.2
ENSG00000126001	-1.547	-2.9222	5.32E-12	3.56E-11 CEP250	centrosom protein_co	20	35455164	35519280	1	q11.22
ENSG00000096696	-1.5472	-2.9225	1.54E-23	2.72E-22 DSP	desmoplak protein_co	6	7541575	7586717	1	p24.3
ENSG00000164142	-1.5476	-2.9234	1.29E-26	3.04E-25 FAM160A1	family with protein_co	4	1.51E+08	1.52E+08	1	q31.3
ENSG00000124813	-1.5484	-2.9249	2.73E-18	3.05E-17 RUNX2	runt-relate protein_co	6	45328157	45664349	1	p21.1
ENSG00000088038	-1.5485	-2.9252	1.77E-21	2.62E-20 CNOT3	CCR4-NOT protein_co	19	54137728	54155681	1	q13.42
ENSG00000261104	-1.5489	-2.9259	0.0016	0.0043 RP11-734K21.5	lincRNA	2	9106593	9109865	1	p25.1
ENSG00000078804	-1.5493	-2.9267	7.35E-38	5.45E-36 TP53INP2	tumor prot protein_co	20	34704290	34713439	1	q11.22
ENSG00000157933	-1.5493	-2.9267	4.09E-17	4.16E-16 SKI	SKI proto-o protein_co	1	2228695	2310119	1	p36.33
ENSG00000185722	-1.5496	-2.9274	1.24E-31	4.60E-30 ANKFY1	ankyrin rep protein_co	17	4163907	4263977	-1	p13.2
ENSG00000124493	-1.552	-2.9322	0.0024	0.0063 GRM4	glutamate protein_co	6	34018645	34155622	-1	p21.31
ENSG00000106299	-1.5522	-2.9326	1.04E-36	6.61E-35 WASL	Wiskott-Alk protein_co	7	1.24E+08	1.24E+08	-1	q31.32
ENSG00000021826	-1.5528	-2.9339	0.0013	0.0036 CPS1	carbamoyl- protein_co	2	2.1E+08	2.11E+08	1	q34
ENSG00000137076	-1.5533	-2.9349	1.22E-17	1.30E-16 TLN1	talin 1 [Sou protein_co	9	35696948	35732395	-1	p13.3
ENSG00000186951	-1.5537	-2.9357	9.89E-20	1.26E-18 PPARA	peroxisom protein_co	22	46150521	46243756	1	q13.31
ENSG00000136457	-1.5542	-2.9366	0.0074	0.0179 CHAD	chondroadl protein_co	17	50464496	50468966	-1	q21.33
ENSG00000126003	-1.5542	-2.9368	2.46E-28	6.75E-27 PLAGL2	pleiomorph protein_co	20	32192503	32207791	-1	q11.21
ENSG00000130254	-1.5552	-2.9388	1.22E-35	6.79E-34 SAFB2	scaffold att protein_co	19	5586999	5624046	-1	p13.3
ENSG00000277196	-1.5555	-2.9394	0.0002	0.0005 PRODH	proline deh protein_co KI270734.1	138082	161852		-1	
ENSG00000151240	-1.5558	-2.9399	6.59E-10	3.67E-09 DIP2C	DIP2 disco- protein_co	10	274190	689743	-1	p15.3
ENSG00000183864	-1.5562	-2.9408	3.87E-28	1.04E-26 TOB2	transducer protein_co	22	41433492	41447023	-1	q13.2
ENSG00000163704	-1.5564	-2.9412	6.26E-08	2.93E-07 PRRT3	proline-rich protein_co	3	9945542	9952394	-1	p25.3
ENSG00000250091	-1.5564	-2.9412	0.0002	0.0007 DNAH100S	dynein, axc protein_co	12	1.24E+08	1.24E+08	-1	q24.31
ENSG00000151693	-1.5566	-2.9416	2.49E-14	2.02E-13 ASAP2	ArfGAP wit protein_co	2	9206765	9405683	1	p25.1

ENSG00000164818	-1.5573	-2.9431	2.67E-09	1.41E-08	HEATR2	HEAT repeat protein_co	7	726701	786475	1	p22.3
ENSG00000171608	-1.5574	-2.9432	4.44E-10	2.52E-09	PIK3CD	phosphatidylinositol 3-kinase protein_co	1	9651732	9729114	1	p36.22
ENSG00000173269	-1.5585	-2.9454	0.0011	0.0032	MMRN2	multimerin protein_co	10	86935540	86969481	-1	q23.2
ENSG00000141519	-1.5586	-2.9458	0.0025	0.0067	CCDC40	coiled-coil domain containing protein_co	17	80036632	80100613	1	q25.3
ENSG0000013619	-1.559	-2.9466	6.62E-07	2.80E-06	MAMLD1	mastermind-like protein protein_co X		1.5E+08	1.51E+08	1	q28
ENSG00000159840	-1.5592	-2.947	9.61E-27	2.30E-25	ZYX	zyxin [Source: UniProt] protein_co	7	1.43E+08	1.43E+08	1	q34
ENSG00000128596	-1.5595	-2.9476	0.0001	0.0004	CCDC136	coiled-coil domain containing protein_co	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000197714	-1.5596	-2.9477	1.28E-09	6.94E-09	ZNF460	zinc finger protein protein_co	19	57280051	57293569	1	q13.43
ENSG00000076826	-1.5596	-2.9478	3.13E-31	1.11E-29	CAMSAP3	calmodulin-binding protein protein_co	19	7595902	7618308	1	p13.2
ENSG00000198420	-1.5599	-2.9484	1.25E-30	4.20E-29	FAM115A	family with sequence similarity 115 protein_co	7	1.44E+08	1.44E+08	-1	q35
ENSG00000184730	-1.56	-2.9486	0.0006	0.0018	APOBR	apolipoprotein B protein_co	16	28494649	28498970	1	p12.1
ENSG00000188559	-1.5601	-2.9487	1.45E-18	1.66E-17	RALGAPA2	Ral GTPase activator protein 2 protein_co	20	20389552	20712488	-1	p11.23
ENSG00000158055	-1.5636	-2.956	2.37E-06	9.43E-06	GRHL3	grainyhead protein protein_co	1	24319322	24364482	1	p36.11
ENSG00000188158	-1.5638	-2.9563	2.74E-26	6.22E-25	NHS	Nance-Horsburgh protein protein_co X		17375420	17735994	1	p22.2
ENSG00000168807	-1.5642	-2.9571	5.16E-41	5.61E-39	SNTB2	syntrophin, protein protein_co	16	69187129	69309052	1	q22.1
ENSG00000197256	-1.5655	-2.9597	3.87E-25	7.89E-24	KANK2	KN motif associated protein protein_co	19	11164267	11197791	-1	p13.2
ENSG00000132182	-1.5656	-2.96	5.26E-06	2.01E-05	NUP210	nucleoporin protein_co	3	13316235	13420309	-1	p25.1
ENSG00000272068	-1.5661	-2.9611	0.0067	0.0164	RP11-284F21.9	lincRNA	1	1.57E+08	1.57E+08	-1	q23.1
ENSG00000144028	-1.567	-2.9628	4.82E-23	8.09E-22	SNRNP200	small nuclear ribonucleoprotein protein_co	2	96274336	96305515	-1	q11.2
ENSG00000038358	-1.5671	-2.963	4.02E-28	1.08E-26	EDC4	enhancer of polycomb target protein_co	16	67873023	67884503	1	q22.1
ENSG00000105939	-1.5675	-2.9639	2.45E-34	1.23E-32	ZC3HAV1	zinc finger protein protein_co	7	1.39E+08	1.39E+08	-1	q34
ENSG00000135709	-1.5678	-2.9646	1.10E-32	4.49E-31	KIAA0513	KIAA0513 [Source: UniProt] protein_co	16	85027751	85094230	1	q24.1
ENSG00000108349	-1.5683	-2.9656	1.12E-22	1.82E-21	CASC3	cancer susceptibility protein protein_co	17	40140318	40172183	1	q21.1
ENSG00000188185	-1.5684	-2.9657	3.56E-06	1.39E-05	LINC00265	long intergenic non-coding RNA	7	39733632	39793092	1	p14.1
ENSG00000197408	-1.5684	-2.9657	0.0021	0.0055	CYP2B6	cytochrome P2B6 protein_co	19	40991299	41018398	1	q13.2
ENSG00000204389	-1.5684	-2.9658	6.35E-14	4.97E-13	HSPA1A	heat shock protein protein_co	6	31815464	31817946	1	p21.33
ENSG00000100842	-1.5689	-2.9668	0.0005	0.0014	EFS	embryonal fibroblast protein_co	14	23356402	23365752	-1	q11.2
ENSG00000169884	-1.5693	-2.9676	0.0026	0.0069	WNT10B	wingless-type protein protein_co	12	48965340	48971763	-1	q13.12
ENSG00000170801	-1.5693	-2.9677	0.0083	0.02	HTRA3	HtrA serine protease protein_co	4	8269765	8307111	1	p16.1
ENSG00000134369	-1.5697	-2.9684	1.37E-25	2.92E-24	NAV1	neuron navigation protein protein_co	1	2.02E+08	2.02E+08	1	q32.1
ENSG00000227500	-1.5697	-2.9685	1.94E-19	2.38E-18	SCAMP4	secretory carrier membrane protein protein_co	19	1905214	1926013	1	p13.3
ENSG00000160305	-1.5699	-2.9689	5.95E-39	4.98E-37	DIP2A	DIP2 dishevelled-associated protein protein_co	21	46458899	46569852	1	q22.3
ENSG00000135503	-1.5704	-2.9699	6.75E-33	2.80E-31	ACVR1B	activin A receptor protein protein_co	12	51951667	51997078	1	q13.13
ENSG00000147130	-1.5704	-2.9699	3.80E-31	1.32E-29	ZMYM3	zinc finger protein protein_co X		71239624	71255146	-1	q13.1
ENSG00000163349	-1.5711	-2.9714	1.56E-12	1.09E-11	HIPK1	homeodomain protein protein_co	1	1.14E+08	1.14E+08	1	p13.2
ENSG00000235499	-1.5723	-2.9739	0.0042	0.0107	AC073046.25	lincRNA	2	73985132	73986343	1	p13.1
ENSG00000125755	-1.5725	-2.9743	1.04E-26	2.48E-25	SYMPK	symplekin [Source: UniProt] protein_co	19	45815410	45863290	-1	q13.32
ENSG00000197312	-1.5727	-2.9746	2.17E-29	6.54E-28	DDI2	DNA-damage-inducible protein protein_co	1	15617500	15669044	1	p36.21
ENSG00000060749	-1.5728	-2.9747	1.99E-39	1.76E-37	QSER1	glutamine synthetase protein_co	11	32893178	32993316	1	p13
ENSG00000130653	-1.5728	-2.9749	2.18E-08	1.06E-07	PNPLA7	patatin-like protein protein_co	9	1.37E+08	1.38E+08	-1	q34.3
ENSG00000173542	-1.5742	-2.9778	1.91E-31	6.93E-30	MOB1B	MOB kinase protein_co	4	70902326	71022449	1	q13.3



ENSG00000171316	-1.5755	-2.9803	2.53E-36	1.53E-34	CHD7	chromodor protein_co	8	60678778	60868028	1	q12.2
ENSG00000269693	-1.5762	-2.9818	0.0019	0.0052	CTD-2192J16.20	protein_co	19	12525720	12580975	-1	p13.2
ENSG00000054690	-1.5769	-2.9832	6.26E-19	7.39E-18	PLEKHH1	pleckstrin h protein_co	14	67533301	67589612	1	q24.1
ENSG00000240445	-1.5777	-2.9835	0.0003	0.001	FOXO3B	forkhead b processed_	17	18670946	18672873	-1	p11.2
ENSG00000143816	-1.5771	-2.9836	1.94E-07	8.63E-07	WNT9A	wingless-ty protein_co	1	2.28E+08	2.28E+08	-1	q42.13
ENSG00000166813	-1.5777	-2.9849	9.75E-08	4.47E-07	KIF7	kinesin fam protein_co	15	89608789	89655451	-1	q26.1
ENSG00000171811	-1.5778	-2.9852	0.0034	0.0087	CFAP46	cilia and fla protein_co	10	1.33E+08	1.33E+08	-1	q26.3
ENSG00000158711	-1.5785	-2.9866	2.62E-33	1.14E-31	ELK4	ELK4, ETS-c protein_co	1	2.06E+08	2.06E+08	-1	q32.1
ENSG00000234857	-1.5793	-2.9883	9.44E-05	0.0003	HNRNPUL2-BSCCL2	HNRNPUL2 protein_co	11	62690275	62727384	-1	q12.3
ENSG00000263064	-1.5796	-2.9889	0.0074	0.018	RP11-291L22.7	processed_	10	38448689	38448949	1	p11.1
ENSG00000119042	-1.5799	-2.9894	2.19E-06	8.76E-06	SATB2	SATB home protein_co	2	1.99E+08	1.99E+08	-1	q33.1
ENSG00000048991	-1.5803	-2.9903	5.67E-27	1.38E-25	R3HDM1	R3H domai protein_co	2	1.36E+08	1.36E+08	1	q21.3
ENSG00000144583	-1.5806	-2.991	0.0065	0.016	MARCH4	membrane protein_co	2	2.16E+08	2.16E+08	-1	q35
ENSG00000162337	-1.5807	-2.9912	3.45E-25	7.07E-24	LRP5	low density protein_co	11	68312609	68449275	1	q13.2
ENSG00000258199	-1.581	-2.9918	2.59E-07	1.14E-06	RP11-977G19.5	sense_over	12	56162359	56190284	-1	q13.2
ENSG00000258634	-1.5813	-2.9924	6.61E-14	5.17E-13	RP4-773N10.4	antisense	1	1.1E+08	1.1E+08	1	p13.3
ENSG00000068650	-1.5817	-2.9933	6.68E-31	2.29E-29	ATP11A	ATPase, cla protein_co	13	1.13E+08	1.13E+08	1	q34
ENSG00000151690	-1.5818	-2.9934	1.12E-20	1.54E-19	MFSD6	major facili protein_co	2	1.9E+08	1.91E+08	1	q32.2
ENSG00000175467	-1.5819	-2.9937	1.73E-23	3.03E-22	SART1	squamous p protein_co	11	65961689	65979828	1	q13.1
ENSG00000111077	-1.5825	-2.9949	7.32E-16	6.71E-15	TENC1	tensin like p protein_co	12	53046969	53064372	1	q13.13
ENSG00000013288	-1.5826	-2.9951	4.19E-14	3.33E-13	MAN2B2	mannosida protein_co	4	6575175	6623362	1	p16.1
ENSG00000198824	-1.5839	-2.9977	1.54E-14	1.27E-13	CHAMP1	chromoson protein_co	13	1.14E+08	1.14E+08	1	q34
ENSG00000145016	-1.584	-2.9979	5.48E-14	4.31E-13	KIAA0226	KIAA0226 [ protein_co	3	1.98E+08	1.98E+08	-1	q29
ENSG00000054793	-1.5841	-2.9983	5.64E-41	6.07E-39	ATP9A	ATPase, cla protein_co	20	51596514	51768634	-1	q13.2
ENSG00000187792	-1.5848	-2.9996	9.35E-09	4.69E-08	ZNF70	zinc finger p protein_co	22	23741582	23751092	-1	q11.23
ENSG00000105329	-1.5849	-2.9999	3.15E-14	2.53E-13	TGFB1	transformir protein_co	19	41301587	41353911	-1	q13.2
ENSG00000181826	-1.586	-3.0022	2.03E-12	1.40E-11	RELL1	RELT-like 1 protein_co	4	37590800	37686376	-1	p14
ENSG00000011451	-1.5862	-3.0026	4.28E-28	1.14E-26	WIZ	widely inte protein_co	19	15419980	15449951	-1	p13.12
ENSG00000090615	-1.5898	-3.0101	4.65E-30	1.48E-28	GOLGA3	golgin A3 [s protein_co	12	1.33E+08	1.33E+08	-1	q24.33
ENSG00000072840	-1.5903	-3.0111	4.03E-14	3.21E-13	EVC	Ellis van Cr protein_co	4	5711197	5814305	1	p16.2
ENSG00000075240	-1.5905	-3.0115	6.76E-23	1.12E-21	GRAMD4	GRAM dor protein_co	22	46576012	46679790	1	q13.31
ENSG00000271020	-1.5906	-3.0117	1.59E-05	5.78E-05	RP11-10C24.1	lincRNA	3	33797149	33797681	-1	p22.3
ENSG00000185518	-1.5907	-3.012	0.0002	0.0006	SV2B	synaptic ve protein_co	15	91099950	91301309	1	q26.1
ENSG00000151612	-1.5909	-3.0123	3.35E-24	6.25E-23	ZNF827	zinc finger p protein_co	4	1.46E+08	1.46E+08	-1	q31.22
ENSG00000006555	-1.5919	-3.0144	3.44E-23	5.84E-22	TTC22	tetratricop protein_co	1	54779712	54801267	-1	p32.3
ENSG00000181090	-1.5925	-3.0158	1.40E-32	5.64E-31	EHMT1	euchromat protein_co	9	1.38E+08	1.38E+08	1	q34.3
ENSG00000141503	-1.593	-3.0167	2.01E-27	5.06E-26	MINK1	misshapen- protein_co	17	4833388	4898061	1	p13.2
ENSG00000117602	-1.593	-3.0167	6.14E-15	5.21E-14	RCAN3	RCAN famil protein_co	1	24502351	24541040	1	p36.11
ENSG00000161996	-1.593	-3.0168	6.89E-06	2.60E-05	WDR90	WD repeat protein_co	16	649311	667833	1	p13.3
ENSG00000185567	-1.5934	-3.0175	6.03E-19	7.14E-18	AHNAK2	AHNAK nuc protein_co	14	1.05E+08	1.05E+08	-1	q32.33
ENSG00000173120	-1.594	-3.0188	6.89E-55	3.45E-52	KDM2A	lysine (K)-s protein_co	11	67119269	67258087	1	q13.2

ENSG00000153234	-1.5963	-3.0236	1.30E-05	4.76E-05 NR4A2	nuclear rec protein_co	2	1.56E+08	1.56E+08	-1 q24.1
ENSG00000141736	-1.5964	-3.0239	1.94E-32	7.72E-31 ERBB2	v-erb-b2 av protein_co	17	39687914	39730426	1 q12
ENSG00000099822	-1.5969	-3.0249	0.0037	0.0095 HCN2	hyperpolar protein_co	19	589893	617159	1 p13.3
ENSG00000174938	-1.5972	-3.0255	5.74E-10	3.21E-09 SEZ6L2	seizure rel protein_co	16	29871159	29899547	-1 p11.2
ENSG00000244731	-1.5972	-3.0256	1.14E-06	4.70E-06 C4A	complemer protein_co	6	31982024	32002681	1 p21.33
ENSG00000099331	-1.5976	-3.0264	1.23E-32	4.99E-31 MYO9B	myosin IXB protein_co	19	17075781	17214537	1 p13.11
ENSG00000197136	-1.5981	-3.0275	4.70E-34	2.25E-32 PCNXL3	pecanex-lik protein_co	11	65615773	65637439	1 q13.1
ENSG00000173567	-1.5982	-3.0276	0.0065	0.0159 GPR113	G protein-c protein_co	2	26308173	26346817	-1 p23.3
ENSG00000118971	-1.5985	-3.0284	5.37E-07	2.30E-06 CCND2	cyclin D2 [S] protein_co	12	4273772	4305350	1 p13.32
ENSG00000117707	-1.6	-3.0314	0.0003	0.0011 PROX1	prospero h protein_co	1	2.14E+08	2.14E+08	1 q32.3
ENSG00000213965	-1.6004	-3.0324	1.27E-36	7.96E-35 NUDT19	nudix (nucl protein_co	19	32691961	32713796	1 q13.11
ENSG00000226180	-1.6012	-3.034	0.0063	0.0155 RP11-278A23.1	lincRNA	16	87693537	87696147	-1 q24.2
ENSG00000103489	-1.6013	-3.0342	0.003	0.0077 XYLT1	xylosyltran: protein_co	16	17101769	17470881	-1 p12.3
ENSG00000166783	-1.6015	-3.0346	1.00E-25	2.16E-24 KIAA0430	KIAA0430 [ protein_co	16	15594386	15643166	-1 p13.11
ENSG00000137802	-1.6019	-3.0354	4.26E-31	1.48E-29 MAPKBP1	mitogen-ac protein_co	15	41774434	41827855	1 q15.1
ENSG00000104897	-1.602	-3.0356	4.80E-18	5.27E-17 SF3A2	splicing fac protein_co	19	2236504	2248679	1 p13.3
ENSG00000130304	-1.6024	-3.0364	1.37E-16	1.34E-15 SLC27A1	solute carri protein_co	19	17468769	17506168	1 p13.11
ENSG00000108852	-1.6027	-3.0371	3.95E-05	0.0001 MPP2	membrane protein_co	17	43875357	43909711	-1 q21.31
ENSG00000133226	-1.6034	-3.0387	4.74E-31	1.64E-29 SRRM1	serine/argii protein_co	1	24631716	24673267	1 p36.11
ENSG00000111799	-1.6039	-3.0396	3.22E-11	2.01E-10 COL12A1	collagen, ty protein_co	6	75084326	75206051	-1 q14.1
ENSG00000081277	-1.6051	-3.0421	5.68E-14	4.46E-13 PKP1	plakophilin protein_co	1	2.01E+08	2.01E+08	1 q32.1
ENSG00000151276	-1.6055	-3.043	5.12E-29	1.49E-27 MAGI1	membrane protein_co	3	65353525	66038834	-1 p14.1
ENSG00000186767	-1.6059	-3.0438	1.02E-28	2.89E-27 SPIN4	spindlin far protein_co X		63347228	63351344	-1 q11.1
ENSG00000074621	-1.6059	-3.0439	5.97E-20	7.73E-19 SLC24A1	solute carri protein_co	15	65611366	65660995	1 q22.31
ENSG00000146950	-1.6063	-3.0447	1.14E-23	2.03E-22 SHROOM2	shroom far protein_co X		9786456	9949443	1 p22.2
ENSG00000251359	-1.6067	-3.0455	0.0073	0.0178 WWC2-AS2	WWC2 anti lincRNA	4	1.83E+08	1.83E+08	-1 q35.1
ENSG00000105810	-1.6072	-3.0466	8.63E-18	9.29E-17 CDK6	cyclin-depe protein_co	7	92604921	92836594	-1 q21.2
ENSG00000114739	-1.6073	-3.0467	1.47E-12	1.03E-11 ACVR2B	activin A re protein_co	3	38453851	38493142	1 p22.2
ENSG00000188167	-1.608	-3.0483	2.74E-11	1.72E-10 TMPPE	transmemt protein_co	3	33090421	33096801	-1 p22.3
ENSG00000103184	-1.6082	-3.0486	0.0011	0.0032 SEC14L5	SEC14-like protein_co	16	4958317	5019158	1 p13.3
ENSG00000140829	-1.6083	-3.049	1.71E-32	6.79E-31 DHX38	DEAH (Asp- protein_co	16	72093562	72112912	1 q22.2
ENSG00000106144	-1.6085	-3.0493	2.25E-30	7.37E-29 CASP2	caspase 2, ; protein_co	7	1.43E+08	1.43E+08	1 q34
ENSG00000198373	-1.6087	-3.0497	1.17E-30	3.92E-29 WWP2	WW domai protein_co	16	69762306	69941741	1 q22.1
ENSG00000270018	-1.6088	-3.05	0.0053	0.0132 RP3-462E2.5	lincRNA	12	1.12E+08	1.12E+08	1 q24.12
ENSG00000065717	-1.6089	-3.0501	4.50E-12	3.03E-11 TLE2	transducin- protein_co	19	2997638	3047635	-1 p13.3
ENSG00000157985	-1.6105	-3.0535	6.93E-28	1.80E-26 AGAP1	ArfGAP wit protein_co	2	2.35E+08	2.36E+08	1 q37.2
ENSG00000279487	-1.6116	-3.0559	0.0059	0.0147 AC234582.1	protein_co	1	1.55E+08	1.55E+08	1 q22
ENSG00000142207	-1.6126	-3.0579	4.63E-36	2.72E-34 URB1	URB1 ribos protein_co	21	32311018	32393026	-1 q22.11
ENSG00000275793	-1.613	-3.0588	0.0069	0.0169 RIMBP3	RIMS bindii protein_co	22	18605815	18611919	-1 q11.21
ENSG00000090006	-1.6131	-3.0591	2.79E-16	2.66E-15 LTBP4	latent trans protein_co	19	40592883	40629818	1 q13.2
ENSG00000130382	-1.6137	-3.0604	1.87E-28	5.18E-27 MLLT1	myeloid/lyi protein_co	19	6210379	6279948	-1 p13.3

ENSG00000142609	-1.6139	-3.0608	0.0018	0.0048 CFAP74	cilia and fla protein_co	1	1921951	2003837	-1 p36.33
ENSG00000187624	-1.614	-3.0611	5.08E-05	0.0002 C17orf97	chromoson protein_co	17	410327	423719	1 p13.3
ENSG00000170190	-1.6148	-3.0628	1.27E-07	5.79E-07 SLC16A5	solute carri protein_co	17	75087727	75106162	1 q25.1
ENSG00000007174	-1.616	-3.0653	0.0024	0.0063 DNAH9	dynein, axc protein_co	17	11598431	11969748	1 p12
ENSG00000179912	-1.6161	-3.0655	2.24E-29	6.73E-28 R3HDM2	R3H domai protein_co	12	57253762	57431005	-1 q13.3
ENSG00000160633	-1.6161	-3.0655	1.61E-24	3.09E-23 SAFB	scaffold att protein_co	19	5623035	5668478	1 p13.3
ENSG00000173227	-1.6167	-3.0668	2.64E-06	1.05E-05 SYT12	synaptotag protein_co	11	67006778	67050863	1 q13.2
ENSG00000007216	-1.6182	-3.0699	0.0002	0.0005 SLC13A2	solute carri protein_co	17	28473293	28497781	1 q11.2
ENSG00000123066	-1.6183	-3.0701	1.99E-46	3.54E-44 MED13L	mediator c protein_co	12	1.16E+08	1.16E+08	-1 q24.21
ENSG00000138193	-1.6188	-3.0712	4.93E-07	2.11E-06 PLCE1	phospholip protein_co	10	93993989	94332823	1 q23.33
ENSG00000141579	-1.619	-3.0717	4.48E-07	1.92E-06 ZNF750	zinc finger protein_co	17	82829435	82840578	-1 q25.3
ENSG00000074047	-1.6194	-3.0724	8.12E-07	3.41E-06 GLI2	GLI family z protein_co	2	1.21E+08	1.21E+08	1 q14.2
ENSG00000100888	-1.6199	-3.0735	5.03E-32	1.91E-30 CHD8	chromodor protein_co	14	21385194	21456126	-1 q11.2
ENSG00000176533	-1.6199	-3.0736	0.0008	0.0023 GNG7	guanine nu protein_co	19	2511219	2702709	-1 p13.3
ENSG00000186111	-1.6201	-3.0739	2.15E-17	2.24E-16 PIP5K1C	phosphatid protein_co	19	3630183	3700479	-1 p13.3
ENSG00000276101	-1.6208	-3.0754	0.0067	0.0165 RP11-455O6.8	antisense	17	81251194	81251803	1 q25.3
ENSG00000171462	-1.6208	-3.0755	4.10E-08	1.95E-07 DLK2	delta-like 2 protein_co	6	43450352	43456632	-1 p21.1
ENSG00000155034	-1.6211	-3.076	1.21E-19	1.52E-18 FBXL18	F-box and l protein_co	7	5431335	5513798	-1 p22.1
ENSG00000184083	-1.6211	-3.0762	4.52E-30	1.45E-28 FAM120C	family with protein_co X		54068324	54183281	-1 p11.22
ENSG00000253636	-1.6212	-3.0764	0.006	0.0148 RP11-531A24.5	antisense	8	73052178	73063061	1 q21.11
ENSG00000079435	-1.6214	-3.0767	2.42E-09	1.29E-08 LIPE	lipase, horr protein_co	19	42401507	42427426	-1 q13.2
ENSG00000162065	-1.6219	-3.0777	2.70E-14	2.18E-13 TBC1D24	TBC1 doma protein_co	16	2475146	2505734	1 p13.3
ENSG00000186765	-1.622	-3.078	0.0062	0.0152 FSCN2	fascin actin protein_co	17	81528396	81537130	1 q25.3
ENSG00000075461	-1.6223	-3.0787	1.39E-05	5.08E-05 CACNG4	calcium ch protein_co	17	66964910	67033398	1 q24.2
ENSG00000204842	-1.6228	-3.0797	2.20E-23	3.81E-22 ATXN2	ataxin 2 [Sc protein_co	12	1.11E+08	1.12E+08	-1 q24.12
ENSG00000117394	-1.623	-3.0801	3.64E-31	1.28E-29 SLC2A1	solute carri protein_co	1	42925381	42958859	-1 p34.2
ENSG00000099814	-1.6236	-3.0814	2.03E-39	1.78E-37 CEP170B	centrosom protein_co	14	1.05E+08	1.05E+08	1 q32.33
ENSG00000176994	-1.6241	-3.0825	4.25E-22	6.60E-21 SMCR8	Smith-Mag protein_co	17	18315310	18323203	1 p11.2
ENSG00000261934	-1.6241	-3.0825	6.34E-09	3.24E-08 PCDHGA9	protocadhe protein_co	5	1.41E+08	1.42E+08	1 q31.3
ENSG00000111676	-1.6245	-3.0834	7.02E-27	1.69E-25 ATN1	atrophin 1 protein_co	12	6924463	6942321	1 p13.31
ENSG00000105516	-1.6246	-3.0836	4.47E-09	2.31E-08 DBP	D site of all protein_co	19	48630030	48637438	-1 q13.33
ENSG00000138443	-1.6251	-3.0846	2.26E-23	3.92E-22 ABI2	abl-interact protein_co	2	2.03E+08	2.03E+08	1 q33.2
ENSG00000143341	-1.6262	-3.087	1.09E-08	5.46E-08 HMCN1	hemicentin protein_co	1	1.86E+08	1.86E+08	1 q25.3
ENSG00000103196	-1.6264	-3.0874	1.24E-05	4.55E-05 CRISPLD2	cysteine-ric protein_co	16	84819984	84920768	1 q24.1
ENSG00000112659	-1.6272	-3.0892	1.25E-23	2.22E-22 CUL9	cullin 9 [So protein_co	6	43182175	43224587	1 p21.1
ENSG00000149782	-1.6278	-3.0905	7.14E-22	1.09E-20 PLCB3	phospholip protein_co	11	64251523	64269150	1 q13.1
ENSG00000275410	-1.6298	-3.0948	0.0056	0.014 HNF1B	HNF1 hom protein_co	17	37686432	37745247	-1 q12
ENSG00000131023	-1.6311	-3.0975	6.11E-44	8.31E-42 LATS1	large tumo protein_co	6	1.5E+08	1.5E+08	-1 q25.1
ENSG00000130726	-1.6314	-3.0981	1.03E-32	4.22E-31 TRIM28	tripartite nr protein_co	19	58544091	58550722	1 q13.43
ENSG00000066468	-1.6316	-3.0985	3.98E-14	3.17E-13 FGFR2	fibroblast g protein_co	10	1.21E+08	1.22E+08	-1 q26.13
ENSG00000277763	-1.6318	-3.0989	0.0055	0.0137 CTD-2588E21.1	lincRNA	14	56117316	56117990	-1 q22.3

ENSG00000171914	-1.6322	-3.0998	2.05E-12	1.41E-11 TLN2	talin 2 [Sou protein_co	15	62390526	62844631	1	q22.2
ENSG00000099991	-1.6326	-3.1008	1.21E-30	4.08E-29 CABIN1	calcineurin protein_co	22	24011192	24178628	1	q11.23
ENSG00000224424	-1.633	-3.1016	2.23E-05	7.93E-05 PRKAR2A-AS1	PRKAR2A a antisense	3	48847572	48851981	1	p21.31
ENSG00000132024	-1.6334	-3.1025	2.36E-37	1.64E-35 CC2D1A	coiled-coil ; protein_co	19	13906201	13930879	1	p13.12
ENSG00000160294	-1.6338	-3.1033	1.05E-36	6.66E-35 MCM3AP	minichrom; protein_co	21	46235126	46286297	-1	q22.3
ENSG00000178814	-1.6345	-3.1048	3.06E-23	5.22E-22 OPLAH	5-oxoprolin protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000271601	-1.635	-3.1058	2.82E-17	2.90E-16 LIX1L	Lix1 homol protein_co	1	1.46E+08	1.46E+08	-1	q21.1
ENSG00000130559	-1.6362	-3.1085	4.70E-18	5.15E-17 CAMSAP1	calmodulin protein_co	9	1.36E+08	1.36E+08	-1	q34.3
ENSG00000078399	-1.6364	-3.1089	0.0004	0.0011 HOXA9	homeobox protein_co	7	27162435	27175180	-1	p15.2
ENSG00000112787	-1.6373	-3.1108	1.59E-18	1.80E-17 FBRSL1	fibrosin-like protein_co	12	1.32E+08	1.33E+08	1	q24.33
ENSG00000072518	-1.6373	-3.1109	1.29E-26	3.04E-25 MARK2	MAP/micrc protein_co	11	63838928	63911019	1	q13.1
ENSG00000109787	-1.638	-3.1123	1.57E-40	1.56E-38 KLF3	Kruppel-like protein_co	4	38664196	38701042	1	p14
ENSG00000150907	-1.638	-3.1123	6.84E-37	4.46E-35 FOXO1	forkhead b protein_co	13	40555667	40666597	-1	q14.11
ENSG00000169375	-1.6389	-3.1143	7.86E-31	2.68E-29 SIN3A	SIN3 transc protein_co	15	75369379	75455842	-1	q24.2
ENSG00000134909	-1.639	-3.1145	1.50E-25	3.18E-24 ARHGAP32	Rho GTPase protein_co	11	1.29E+08	1.29E+08	-1	q24.3
ENSG00000250685	-1.6392	-3.1149	0.0027	0.007 RP11-486L19.2	antisense	16	84192558	84197053	-1	q24.1
ENSG00000132470	-1.6406	-3.1179	2.89E-13	2.15E-12 ITGB4	integrin, beta protein_co	17	75721328	75757818	1	q25.1
ENSG00000180251	-1.6408	-3.1184	0.001	0.0028 SLC9A4	solute carri protein_co	2	1.02E+08	1.03E+08	1	q12.1
ENSG00000166987	-1.6409	-3.1185	3.41E-23	5.79E-22 MBD6	methyl-CpG protein_co	12	57520710	57530148	1	q13.3
ENSG00000182871	-1.6412	-3.1191	2.48E-10	1.43E-09 COL18A1	collagen, ty protein_co	21	45405137	45513720	1	q22.3
ENSG00000274653	-1.6412	-3.1192	0.0059	0.0147 RP11-347C12.11	antisense	16	30359825	30360336	1	p11.2
ENSG00000172349	-1.6421	-3.1212	1.95E-06	7.85E-06 IL16	interleukin protein_co	15	81159575	81314058	1	q25.1
ENSG00000184271	-1.6423	-3.1216	4.51E-06	1.74E-05 POU6F1	POU class E protein_co	12	51186936	51217693	-1	q13.13
ENSG00000227268	-1.6423	-3.1217	1.27E-05	4.67E-05 KLLN	killin, p53-r protein_co	10	87859161	87863437	-1	q23.31
ENSG00000178031	-1.6424	-3.1217	0.0049	0.0123 ADAMTSL1	ADAMTS-like protein_co	9	18473894	18910950	1	p22.2
ENSG00000105270	-1.6427	-3.1226	0.0003	0.001 CLIP3	CAP-GLY d; protein_co	19	36014660	36033343	-1	q13.12
ENSG00000053254	-1.643	-3.1232	2.10E-23	3.66E-22 FOXN3	forkhead b protein_co	14	89124871	89619149	-1	q32.11
ENSG00000110395	-1.6436	-3.1244	6.67E-24	1.21E-22 CBL	Cbl proto-c protein_co	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000143850	-1.6445	-3.1263	1.22E-14	1.01E-13 PLEKHA6	pleckstrin t protein_co	1	2.04E+08	2.04E+08	-1	q32.1
ENSG00000154358	-1.645	-3.1276	1.91E-20	2.57E-19 OBSCN	obscurin, c; protein_co	1	2.28E+08	2.28E+08	1	q42.13
ENSG00000154175	-1.6452	-3.128	7.55E-06	2.84E-05 ABI3BP	ABI family, protein_co	3	1.01E+08	1.01E+08	-1	q12.2
ENSG00000076351	-1.6453	-3.1282	2.66E-22	4.18E-21 SLC46A1	solute carri protein_co	17	28394756	28407197	-1	q11.2
ENSG00000168066	-1.6465	-3.1307	1.12E-35	6.26E-34 SF1	splicing fac protein_co	11	64764606	64778786	-1	q13.1
ENSG00000179051	-1.6472	-3.1323	2.45E-31	8.84E-30 RCC2	regulator o protein_co	1	17406760	17439724	-1	p36.13
ENSG00000214753	-1.6473	-3.1325	2.01E-27	5.06E-26 HNRNPUL2	heterogene protein_co	11	62712630	62727349	-1	q12.3
ENSG00000148840	-1.6478	-3.1335	1.02E-24	1.99E-23 PPRC1	peroxisome protein_co	10	1.02E+08	1.02E+08	1	q24.32
ENSG00000169248	-1.6482	-3.1344	0.0008	0.0023 CXCL11	chemokine protein_co	4	76033682	76041415	-1	q21.1
ENSG00000146083	-1.6483	-3.1347	2.18E-30	7.18E-29 RNF44	ring finger j protein_co	5	1.77E+08	1.77E+08	-1	q35.2
ENSG00000185519	-1.6483	-3.1347	0.0033	0.0085 FAM131C	family with protein_co	1	16057769	16073632	-1	p36.13
ENSG00000197183	-1.6488	-3.1357	4.91E-28	1.30E-26 NOL4L	nucleolar p protein_co	20	32443059	32585074	-1	q11.21
ENSG00000116117	-1.6497	-3.1376	2.60E-21	3.81E-20 PARD3B	par-3 famil protein_co	2	2.05E+08	2.06E+08	1	q33.3

ENSG00000107485	-1.6499	-3.1382	1.89E-06	7.63E-06	GATA3	GATA bindi protein_co	10	8053604	8075198	1	p14
ENSG00000268568	-1.6531	-3.1451	0.0038	0.0098	AC007228.9	lincRNA	19	56672574	56673901	-1	q13.43
ENSG00000260628	-1.6539	-3.1468	0.0037	0.0095	RP11-1166P10.1	transcribed	16	31975803	32003728	1	p11.2
ENSG00000109685	-1.6542	-3.1474	6.46E-16	5.95E-15	WHSC1	Wolf-Hirschl protein_co	4	1871424	1982207	1	p16.3
ENSG00000255455	-1.6542	-3.1476	9.68E-17	9.56E-16	RP11-890B15.3	lincRNA	11	1.31E+08	1.31E+08	-1	q24.3
ENSG00000114790	-1.6543	-3.1477	2.34E-10	1.36E-09	ARHGEF26	Rho guanin protein_co	3	1.54E+08	1.54E+08	1	q25.2
ENSG00000047578	-1.6543	-3.1478	2.86E-11	1.80E-10	KIAA0556	KIAA0556 [ protein_co	16	27550133	27780369	1	p12.1
ENSG00000234998	-1.6544	-3.1479	0.0037	0.0095	RP11-439A17.10	antisense	1	1.21E+08	1.21E+08	-1	p11.2
ENSG00000111642	-1.6548	-3.1488	2.01E-36	1.22E-34	CHD4	chromodor protein_co	12	6570083	6607476	-1	p13.31
ENSG00000039068	-1.6551	-3.1495	1.61E-36	9.95E-35	CDH1	cadherin 1, protein_co	16	68737225	68835548	1	q22.1
ENSG00000118193	-1.6551	-3.1495	0.0025	0.0067	KIF14	kinesin fam protein_co	1	2.01E+08	2.01E+08	-1	q32.1
ENSG00000278879	-1.6556	-3.1505	0.0031	0.0081	AP000560.3	TEC	11	74830574	74832510	-1	q13.4
ENSG00000197921	-1.656	-3.1515	0.0019	0.0051	HES5	hes family I protein_co	1	2528745	2530245	-1	p36.32
ENSG00000228223	-1.6563	-3.1521	2.90E-22	4.54E-21	HCG11	HLA compl lincRNA	6	26523450	26526579	1	p22.2
ENSG00000125834	-1.6581	-3.1559	3.31E-33	1.43E-31	STK35	serine/thre protein_co	20	2101611	2177038	1	p13
ENSG00000166897	-1.6591	-3.1581	1.40E-05	5.12E-05	ELFN2	extracellulæ protein_co	22	37367960	37427470	-1	q13.1
ENSG00000106829	-1.6598	-3.1598	5.00E-30	1.60E-28	TLE4	transducin- protein_co	9	79571773	79726882	1	q21.31
ENSG00000108509	-1.6604	-3.161	3.19E-32	1.24E-30	CAMTA2	calmodulin protein_co	17	4967992	4987652	-1	p13.2
ENSG00000259758	-1.6611	-3.1626	1.73E-31	6.28E-30	CASC7	cancer susc lincRNA	8	1.41E+08	1.41E+08	-1	q24.3
ENSG00000116604	-1.6617	-3.1639	2.19E-23	3.80E-22	MEF2D	myocyte er protein_co	1	1.56E+08	1.57E+08	-1	q22
ENSG00000158195	-1.6625	-3.1656	4.38E-42	5.07E-40	WASF2	WAS protei protein_co	1	27404226	27490158	-1	p36.11
ENSG00000075856	-1.6627	-3.1662	5.50E-31	1.90E-29	SART3	squamous i protein_co	12	1.09E+08	1.09E+08	-1	q23.3
ENSG00000171444	-1.6629	-3.1665	5.84E-21	8.22E-20	MCC	mutated in protein_co	5	1.13E+08	1.13E+08	-1	q22.2
ENSG00000125844	-1.664	-3.1689	3.56E-28	9.63E-27	RRBP1	ribosome b protein_co	20	17613678	17682295	-1	p12.1
ENSG00000244165	-1.6647	-3.1705	4.47E-07	1.92E-06	P2RY11	purinergic i protein_co	19	10111538	10115372	1	p13.2
ENSG00000172943	-1.6649	-3.1709	3.54E-21	5.09E-20	PHF8	PHD finger protein_co X		53936676	54048958	-1	p11.22
ENSG00000095585	-1.6654	-3.172	1.06E-25	2.29E-24	BLNK	B-cell linkei protein_co	10	96191702	96271587	-1	q24.1
ENSG00000136002	-1.6659	-3.1731	2.90E-16	2.76E-15	ARHGEF4	Rho guanin protein_co	2	1.31E+08	1.31E+08	1	q21.1
ENSG00000186174	-1.6661	-3.1735	3.55E-21	5.10E-20	BCL9L	B-cell CLL/I protein_co	11	1.19E+08	1.19E+08	-1	q23.3
ENSG00000005379	-1.6661	-3.1736	0.0003	0.0009	BZRAP1	benzodiaze protein_co	17	58301228	58328760	-1	q22
ENSG00000264885	-1.6678	-3.1773	1.54E-05	5.60E-05	RP11-815I9.4	sense_intrc	17	18667629	18669461	-1	p11.2
ENSG00000145819	-1.6716	-3.1856	3.35E-19	4.06E-18	ARHGAP26	Rho GTPasæ protein_co	5	1.43E+08	1.43E+08	1	q31.3
ENSG00000136068	-1.672	-3.1866	2.42E-49	6.06E-47	FLNB	filamin B, b protein_co	3	58008400	58172251	1	p14.3
ENSG00000114554	-1.6735	-3.19	1.77E-18	2.00E-17	PLXNA1	plexin A1 [æ protein_co	3	1.27E+08	1.27E+08	1	q21.3
ENSG00000141622	-1.6737	-3.1903	2.43E-08	1.17E-07	RNF165	ring finger j protein_co	18	46326809	46463140	1	q21.1
ENSG00000117245	-1.6752	-3.1935	0.0041	0.0105	KIF17	kinesin fam protein_co	1	20664014	20718017	-1	p36.12
ENSG00000273142	-1.6756	-3.1944	1.73E-07	7.77E-07	RP11-458F8.4	lincRNA	7	66902857	66906297	1	q11.21
ENSG00000130479	-1.6756	-3.1946	1.78E-14	1.46E-13	MAP1S	microtubul protein_co	19	17719242	17734516	1	p13.11
ENSG00000184985	-1.6765	-3.1964	2.27E-08	1.10E-07	SORCS2	sortilin-relæ protein_co	4	7192538	7742836	1	p16.1
ENSG00000244699	-1.6765	-3.1964	0.0009	0.0026	RP11-803B1.2	unprocesse	3	75384059	75391810	-1	p12.3
ENSG00000112294	-1.6769	-3.1974	1.52E-36	9.43E-35	ALDH5A1	aldehyde d protein_co	6	24494852	24537207	1	p22.3



ENSG00000126368	-1.6782	-3.2002	2.07E-09	1.10E-08 NR1D1	nuclear rec protein_co	17	40092787	40100725	-1	q21.1
ENSG00000167378	-1.6787	-3.2015	3.05E-22	4.77E-21 IRGQ	immunity-r protein_co	19	43584369	43596135	-1	q13.31
ENSG00000146676	-1.6795	-3.2032	5.99E-71	1.84E-67 PURB	purine-rich protein_co	7	44876293	44885361	-1	p13
ENSG00000205336	-1.6803	-3.205	2.63E-25	5.46E-24 GPR56	G protein-c protein_co	16	57610652	57665580	1	q21
ENSG00000106948	-1.6806	-3.2056	1.29E-05	4.71E-05 AKNA	AT-hook tr; protein_co	9	1.14E+08	1.14E+08	-1	q32
ENSG00000094916	-1.6812	-3.2069	5.56E-38	4.21E-36 CBX5	chromobox protein_co	12	54230940	54280133	-1	q13.13
ENSG00000160299	-1.6812	-3.207	5.07E-36	2.96E-34 PCNT	pericentrin protein_co	21	46324122	46445769	1	q22.3
ENSG00000165655	-1.6816	-3.2077	7.23E-12	4.76E-11 ZNF503	zinc finger protein_co	10	75397830	75401906	-1	q22.2
ENSG00000142949	-1.6822	-3.2091	2.19E-60	2.35E-57 PTPRF	protein tyri protein_co	1	43525187	43623666	1	p34.2
ENSG00000139645	-1.6823	-3.2094	5.41E-26	1.19E-24 ANKRD52	ankyrin rep protein_co	12	56237807	56258391	-1	q13.3
ENSG00000267350	-1.6842	-3.2136	4.13E-28	1.10E-26 RP1-178F10.3	processed_	17	18324222	18328055	1	p11.2
ENSG00000141577	-1.6849	-3.2152	1.24E-10	7.37E-10 CEP131	centrosom; protein_co	17	81189593	81222999	-1	q25.3
ENSG00000179583	-1.6853	-3.216	3.59E-23	6.08E-22 CIITA	class II, maj protein_co	16	10877198	10932281	1	p13.13
ENSG00000141252	-1.6856	-3.2168	1.19E-31	4.41E-30 VPS53	vacuolar pr protein_co	17	508668	721717	-1	p13.3
ENSG00000130175	-1.6862	-3.2181	1.66E-33	7.33E-32 PRKCSH	protein kin. protein_co	19	11435288	11450968	1	p13.2
ENSG00000165695	-1.6862	-3.2181	0.0006	0.0018 AK8	adenylate t protein_co	9	1.33E+08	1.33E+08	-1	q34.13
ENSG00000204463	-1.6863	-3.2183	3.45E-34	1.69E-32 BAG6	BCL2-assoc protein_co	6	31639028	31652705	-1	p21.33
ENSG00000139445	-1.6863	-3.2183	0.0039	0.01 FOXN4	forkhead b protein_co	12	1.09E+08	1.09E+08	-1	q24.11
ENSG00000270949	-1.6865	-3.2188	8.18E-08	3.78E-07 RP11-288H12.4	lincRNA	6	1.6E+08	1.6E+08	1	q25.3
ENSG00000170004	-1.6867	-3.2191	4.06E-24	7.54E-23 CHD3	chromodor protein_co	17	7884806	7912760	1	p13.1
ENSG00000175115	-1.6876	-3.2212	1.13E-26	2.69E-25 PACS1	phosphofui protein_co	11	66070363	66244747	1	q13.1
ENSG00000175727	-1.688	-3.2222	2.83E-34	1.40E-32 MLXIP	MLX intera protein_co	12	1.22E+08	1.22E+08	1	q24.31
ENSG00000171798	-1.6886	-3.2235	0.0012	0.0033 KND1	kinase non- protein_co	10	1.33E+08	1.33E+08	1	q26.3
ENSG00000163125	-1.6897	-3.2259	3.20E-22	5.00E-21 RPRD2	regulation protein_co	1	1.5E+08	1.5E+08	1	q21.2
ENSG00000167595	-1.6899	-3.2263	3.48E-07	1.51E-06 PROSER3	proline and protein_co	19	35758143	35771028	1	q13.12
ENSG00000073282	-1.6909	-3.2285	1.65E-26	3.85E-25 TP63	tumor prot protein_co	3	1.9E+08	1.9E+08	1	q28
ENSG00000088247	-1.6911	-3.229	3.39E-46	5.93E-44 KHSRP	KH-type spl protein_co	19	6413348	6424794	-1	p13.3
ENSG00000188322	-1.6916	-3.2303	3.44E-08	1.65E-07 SBK1	SH3 domai protein_co	16	28292519	28323849	1	p12.1
ENSG00000260874	-1.6921	-3.2314	0.0044	0.0112 RP11-715J22.4	lincRNA	16	2456252	2459979	-1	p13.3
ENSG00000138771	-1.6922	-3.2316	2.46E-37	1.71E-35 SHROOM3	shroom fan protein_co	4	76435100	76783253	1	q21.1
ENSG00000183943	-1.6924	-3.2319	4.38E-18	4.82E-17 PRKX	protein kin. protein_co X		3604370	3713608	-1	p22.33
ENSG00000273033	-1.6937	-3.2348	2.11E-13	1.58E-12 RP11-67L2.2	lincRNA	3	1.23E+08	1.23E+08	1	q21.1
ENSG00000255571	-1.6944	-3.2364	0.0036	0.0092 LINC00925	long interg; lincRNA	15	89361579	89398487	1	q26.1
ENSG00000168778	-1.6945	-3.2366	1.25E-05	4.57E-05 TCTN2	tectonic far protein_co	12	1.24E+08	1.24E+08	1	q24.31
ENSG00000168743	-1.696	-3.2399	1.38E-07	6.22E-07 NPNT	nephroneci protein_co	4	1.06E+08	1.06E+08	1	q24
ENSG00000136205	-1.696	-3.2401	8.53E-10	4.70E-09 TNS3	tensin 3 [Sc protein_co	7	47275154	47582558	-1	p12.3
ENSG00000106012	-1.6962	-3.2405	8.78E-10	4.84E-09 IQCE	IQ motif co protein_co	7	2558972	2614734	1	p22.3
ENSG00000137497	-1.6966	-3.2414	4.62E-32	1.77E-30 NUMA1	nuclear mit protein_co	11	72002864	72080693	-1	q13.4
ENSG00000264343	-1.6969	-3.242	2.17E-14	1.77E-13 NOTCH2NL	notch 2 N-t protein_co	1	1.46E+08	1.46E+08	-1	q21.1
ENSG00000116698	-1.6973	-3.2429	1.12E-40	1.13E-38 SMG7	SMG7 nons protein_co	1	1.83E+08	1.84E+08	1	q25.3
ENSG00000188827	-1.6974	-3.2432	1.67E-18	1.89E-17 SLX4	SLX4 struct protein_co	16	3581181	3611598	-1	p13.3

ENSG00000148773	-1.698	-3.2444	0.0039	0.01 MKI67	marker of $\zeta$ protein_co	10	1.28E+08	1.28E+08	-1 q26.2
ENSG00000144749	-1.6982	-3.2449	4.49E-21	6.38E-20 LRIG1	leucine-rich protein_co	3	66378797	66501263	-1 p14.1
ENSG00000278768	-1.6982	-3.245	1.25E-06	5.15E-06 BACE1-AS	BACE1 anti antisense	11	1.17E+08	1.17E+08	1 q23.3
ENSG00000167600	-1.6988	-3.2464	8.13E-10	4.50E-09 CYP2S1	cytochrome protein_co	19	41193049	41207539	1 q13.2
ENSG00000130702	-1.699	-3.2468	3.06E-20	4.05E-19 LAMA5	laminin, $\alpha$ protein_co	20	62307955	62367312	-1 q13.33
ENSG00000096070	-1.6998	-3.2487	1.72E-27	4.34E-26 BRPF3	bromodom protein_co	6	36196744	36232790	1 p21.31
ENSG00000176658	-1.7003	-3.2496	3.60E-45	5.62E-43 MYO1D	myosin ID [ protein_co	17	32492522	32877177	-1 q11.2
ENSG00000063169	-1.7003	-3.2497	5.19E-13	3.77E-12 GLTSCR1	glioma tum protein_co	19	47608196	47703277	1 q13.33
ENSG00000170873	-1.7009	-3.2509	2.32E-21	3.41E-20 MTSS1	metastasis protein_co	8	1.25E+08	1.25E+08	-1 q24.13
ENSG00000140534	-1.701	-3.2513	0.0035	0.009 TICRR	TOPBP1-int protein_co	15	89575482	89631056	1 q26.1
ENSG00000146197	-1.7017	-3.2528	7.42E-05	0.0002 SCUBE3	signal pept protein_co	6	35214419	35253079	1 p21.31
ENSG00000198369	-1.7022	-3.254	1.71E-20	2.31E-19 SPRED2	sprouty-rel protein_co	2	65310851	65432637	-1 p14
ENSG00000170322	-1.7024	-3.2543	6.61E-31	2.27E-29 NFRKB	nuclear fac protein_co	11	1.3E+08	1.3E+08	-1 q24.3
ENSG00000145113	-1.7026	-3.2548	1.65E-21	2.45E-20 MUC4	mucin 4, ce protein_co	3	1.96E+08	1.96E+08	-1 q29
ENSG00000075702	-1.7026	-3.2549	0.0007	0.002 WDR62	WD repeat protein_co	19	36054881	36105106	1 q13.12
ENSG00000141510	-1.7032	-3.2563	3.22E-20	4.25E-19 TP53	tumor prot protein_co	17	7661779	7687550	-1 p13.1
ENSG00000250251	-1.7038	-3.2576	5.72E-08	2.69E-07 PKD1P6	polycystic k transcribed	16	15125242	15154564	-1 p13.11
ENSG00000120318	-1.7044	-3.259	7.19E-21	1.00E-19 ARAP3	ArfGAP wit protein_co	5	1.42E+08	1.42E+08	-1 q31.3
ENSG00000115568	-1.705	-3.2603	1.53E-13	1.16E-12 ZNF142	zinc finger protein_co	2	2.19E+08	2.19E+08	-1 q35
ENSG00000089057	-1.7052	-3.2607	1.15E-18	1.33E-17 SLC23A2	solute carri protein_co	20	4852356	5010293	-1 p13
ENSG00000065000	-1.7079	-3.2668	2.63E-31	9.40E-30 AP3D1	adaptor-rel protein_co	19	2100988	2164465	-1 p13.3
ENSG00000280213	-1.7089	-3.2691	0.0011	0.003 RP4-591C20.10	TEC	20	63953384	63956985	1 q13.33
ENSG00000246777	-1.7094	-3.2703	0.0018	0.0049 RP11-61A14.4	lincRNA	16	66751752	66754740	1 q22.1
ENSG00000107862	-1.7103	-3.2722	4.05E-34	1.96E-32 GBF1	golgi brefel protein_co	10	1.02E+08	1.02E+08	1 q24.32
ENSG00000196169	-1.7107	-3.2733	0.0018	0.0048 KIF19	kinesin fam protein_co	17	74326210	74355820	1 q25.1
ENSG00000197479	-1.7109	-3.2735	0.0003	0.001 PCDHB11	protocadhe protein_co	5	1.41E+08	1.41E+08	1 q31.3
ENSG00000132563	-1.711	-3.2738	7.31E-05	0.0002 REEP2	receptor ac protein_co	5	1.38E+08	1.38E+08	1 q31.2
ENSG00000260766	-1.7115	-3.275	9.87E-09	4.95E-08 RP11-226L15.5	sense_over	1	1.6E+08	1.6E+08	-1 q23.2
ENSG00000159625	-1.713	-3.2784	0.0022	0.0058 DRC7	dynein regi protein_co	16	57694793	57731805	1 q21
ENSG00000184574	-1.713	-3.2785	3.05E-06	1.20E-05 LPAR5	lysosphosph protein_co	12	6618835	6636447	-1 p13.31
ENSG00000162981	-1.7131	-3.2787	3.85E-11	2.39E-10 FAM84A	family with protein_co	2	14632686	14650814	1 p24.3
ENSG00000112406	-1.7146	-3.2821	3.80E-39	3.24E-37 HECA	headcase h protein_co	6	1.39E+08	1.39E+08	1 q24.1
ENSG00000273230	-1.7146	-3.2821	1.70E-06	6.90E-06 RP11-1246C19.1	lincRNA	7	1464497	1467522	-1 p22.3
ENSG00000141867	-1.7152	-3.2834	1.92E-53	8.80E-51 BRD4	bromodom protein_co	19	15235519	15332545	-1 p13.12
ENSG00000116016	-1.7153	-3.2836	1.06E-23	1.89E-22 EPAS1	endothelial protein_co	2	46293667	46386703	1 p21
ENSG00000196189	-1.7165	-3.2863	2.91E-14	2.35E-13 SEMA4A	sema dom $\alpha$ protein_co	1	1.56E+08	1.56E+08	1 q22
ENSG00000068024	-1.7179	-3.2896	1.00E-19	1.27E-18 HDAC4	histone de $\alpha$ protein_co	2	2.39E+08	2.39E+08	-1 q37.3
ENSG00000153253	-1.7194	-3.293	0.0032	0.0083 SCN3A	sodium cha protein_co	2	1.65E+08	1.65E+08	-1 q24.3
ENSG00000142798	-1.7194	-3.2931	2.39E-06	9.53E-06 HSPG2	heparan su protein_co	1	21822245	21937297	-1 p36.12
ENSG00000183856	-1.7201	-3.2946	0.0034	0.0089 IQGAP3	IQ motif co protein_co	1	1.57E+08	1.57E+08	-1 q22
ENSG00000077235	-1.7205	-3.2956	1.24E-37	8.87E-36 GTF3C1	general tra protein_co	16	27459555	27549913	-1 p12.1

ENSG00000143375	-1.721	-3.2966	1.93E-21	2.85E-20	CGN	cingulin [Sc protein_co	1	1.52E+08	1.52E+08	1	q21.3
ENSG00000162738	-1.7211	-3.2969	3.24E-19	3.93E-18	VANGL2	VANGL plar protein_co	1	1.6E+08	1.6E+08	1	q23.2
ENSG00000167972	-1.7226	-3.3002	8.91E-07	3.73E-06	ABCA3	ATP-bindin protein_co	16	2275881	2340746	-1	p13.3
ENSG00000165025	-1.7231	-3.3014	2.52E-14	2.04E-13	SYK	spleen tyro protein_co	9	90801787	90898549	1	q22.2
ENSG00000244733	-1.7235	-3.3024	5.21E-05	0.0002	RP11-506M13.3	lincRNA	10	79660891	79677996	1	q22.3
ENSG00000163093	-1.7239	-3.3033	2.26E-07	9.99E-07	BBS5	Bardet-Bieç protein_co	2	1.69E+08	1.7E+08	1	q31.1
ENSG00000088808	-1.7267	-3.3096	1.20E-21	1.80E-20	PPP1R13B	protein phç protein_co	14	1.04E+08	1.04E+08	-1	q32.33
ENSG00000137166	-1.7271	-3.3106	3.78E-28	1.02E-26	FOXP4	forkhead b protein_co	6	41546426	41602384	1	p21.1
ENSG00000220205	-1.7279	-3.3124	3.54E-21	5.09E-20	VAMP2	vesicle-assç protein_co	17	8159149	8163546	-1	p13.1
ENSG00000141540	-1.7279	-3.3125	1.81E-05	6.51E-05	TTYH2	tweety fam protein_co	17	74213514	74262020	1	q25.1
ENSG00000196155	-1.7293	-3.3157	0.0002	0.0006	PLEKHG4	pleckstrin f protein_co	16	67277510	67289499	1	q22.1
ENSG00000175931	-1.7301	-3.3174	1.99E-42	2.39E-40	UBE2O	ubiquitin-ç protein_co	17	76389451	76453206	-1	q25.1
ENSG00000173821	-1.7302	-3.3177	9.90E-19	1.15E-17	RNF213	ring finger   protein_co	17	80260866	80398786	1	q25.3
ENSG00000177303	-1.7308	-3.319	1.26E-15	1.12E-14	CASKIN2	CASK interç protein_co	17	75500261	75515583	-1	q25.1
ENSG00000177602	-1.7312	-3.3199	0.0033	0.0086	GSG2	germ cell a protein_co	17	3723903	3726699	1	p13.2
ENSG00000278948	-1.7323	-3.3225	4.00E-18	4.41E-17	RP5-1039K5.12	TEC	22	37943050	37944898	1	q13.1
ENSG00000230882	-1.733	-3.3241	4.21E-06	1.63E-05	AC005077.14	processed_	7	76071469	76074963	-1	q11.23
ENSG00000215853	-1.7336	-3.3257	0.0004	0.0013	RPTN	repetin [So protein_co	1	1.52E+08	1.52E+08	-1	q21.3
ENSG00000141564	-1.7337	-3.3259	5.10E-36	2.98E-34	RPTOR	regulatory protein_co	17	80544819	80966371	1	q25.3
ENSG00000159082	-1.7338	-3.326	4.32E-33	1.83E-31	SYNJ1	synaptojan protein_co	21	32628759	32728048	-1	q22.11
ENSG00000133401	-1.734	-3.3265	5.83E-20	7.55E-19	PDZD2	PDZ domai protein_co	5	31639410	32110931	1	p13.3
ENSG00000196730	-1.7346	-3.3279	7.95E-16	7.26E-15	DAPK1	death-asso protein_co	9	87497228	87708633	1	q21.33
ENSG00000198752	-1.7349	-3.3285	5.95E-38	4.48E-36	CDC42BPB	CDC42 binc protein_co	14	1.03E+08	1.03E+08	-1	q32.32
ENSG00000152127	-1.7353	-3.3295	3.49E-23	5.92E-22	MGAT5	mannosyl ( protein_co	2	1.34E+08	1.34E+08	1	q21.2
ENSG00000132510	-1.736	-3.331	1.02E-19	1.29E-18	KDM6B	lysine (K)-s protein_co	17	7839904	7854796	1	p13.1
ENSG00000087903	-1.7359	-3.331	0.0002	0.0007	RFX2	regulatory protein_co	19	5993164	6199572	-1	p13.3
ENSG00000273145	-1.7366	-3.3324	0.0015	0.0041	CITF22-92A6.1	lincRNA	22	46013606	46015498	1	q13.31
ENSG00000107742	-1.7366	-3.3325	0.0007	0.0021	SPOCK2	sparç/oster protein_co	10	72059035	72089032	-1	q22.1
ENSG00000107263	-1.7373	-3.3342	9.85E-24	1.76E-22	RAPGEF1	Rap guanin protein_co	9	1.32E+08	1.32E+08	-1	q34.13
ENSG00000108557	-1.7379	-3.3355	2.51E-35	1.37E-33	RAI1	retinoic aci protein_co	17	17681473	17811453	1	p11.2
ENSG00000114867	-1.7384	-3.3366	2.59E-28	7.09E-27	EIF4G1	eukaryotic protein_co	3	1.84E+08	1.84E+08	1	q27.1
ENSG00000272405	-1.7391	-3.3383	0.0001	0.0004	RP11-284F21.10	antisense	1	1.57E+08	1.57E+08	-1	q23.1
ENSG00000156504	-1.7395	-3.3393	1.57E-41	1.77E-39	FAM122B	family with protein_co X		1.35E+08	1.35E+08	-1	q26.3
ENSG00000167173	-1.7406	-3.3417	6.28E-30	1.98E-28	C15orf39	chromoson protein_co	15	75195643	75212169	1	q24.2
ENSG00000153815	-1.7421	-3.3452	7.60E-36	4.30E-34	CMIP	c-Maf induç protein_co	16	81445170	81711762	1	q23.2
ENSG00000104973	-1.7433	-3.3479	9.05E-09	4.55E-08	MED25	mediator ç protein_co	19	49818279	49838816	1	q13.33
ENSG00000167522	-1.7442	-3.35	2.91E-32	1.14E-30	ANKRD11	ankyrin rep protein_co	16	89267627	89490561	-1	q24.3
ENSG00000260781	-1.7449	-3.3518	0.0003	0.001	ARHGAP23P1	Rho GTPasç transcribed	16	33907419	33937167	-1	p11.2
ENSG00000157216	-1.745	-3.352	2.10E-37	1.47E-35	SSBP3	single stran protein_co	1	54225432	54413479	-1	p32.3
ENSG00000259623	-1.7463	-3.355	2.73E-16	2.60E-15	RP11-156E6.1	sense_over	17	41848518	41851447	-1	q21.2
ENSG00000010292	-1.7491	-3.3614	1.10E-20	1.51E-19	NCAPD2	non-SMC ç protein_co	12	6493356	6531955	1	p13.31

ENSG00000164080	-1.7493	-3.3619	1.19E-26	2.81E-25	RAD54L2	RAD54-like protein_co	3	51541144	51668667	1	p21.2
ENSG00000269896	-1.7493	-3.362	0.0002	0.0007	RP4-740C4.5	transcribed	1	2350414	2352820	-1	p36.32
ENSG00000188157	-1.7498	-3.363	1.44E-10	8.50E-10	AGRN	agrin [Sour protein_co	1	1020123	1056118	1	p36.33
ENSG00000263001	-1.7501	-3.3637	2.11E-36	1.28E-34	GTF2I	general tra protein_co	7	74657667	74760692	1	q11.23
ENSG00000123095	-1.751	-3.3658	1.35E-07	6.10E-07	BHLHE41	basic helix- protein_co	12	26120026	26125127	-1	p12.1
ENSG00000136848	-1.7513	-3.3666	1.08E-25	2.33E-24	DAB2IP	DAB2 inter. protein_co	9	1.22E+08	1.22E+08	1	q33.2
ENSG00000153317	-1.7515	-3.3671	3.80E-12	2.57E-11	ASAP1	ArfGAP wit protein_co	8	1.3E+08	1.3E+08	-1	q24.22
ENSG00000167992	-1.7551	-3.3754	3.36E-06	1.31E-05	VWCE	von Willebr protein_co	11	61258286	61295424	-1	q12.2
ENSG00000266094	-1.7552	-3.3758	1.51E-13	1.15E-12	RASSF5	Ras associa protein_co	1	2.07E+08	2.07E+08	1	q32.1
ENSG00000090020	-1.7556	-3.3767	3.95E-25	8.06E-24	SLC9A1	solute carri protein_co	1	27098815	27166981	-1	p36.11
ENSG00000183458	-1.7558	-3.3771	1.64E-06	6.68E-06	RP11-958N24.1	transcribed	16	14911551	14935708	1	p13.11
ENSG00000159640	-1.756	-3.3776	1.58E-08	7.77E-08	ACE	angiotensin protein_co	17	63477061	63498380	1	q23.3
ENSG00000180921	-1.7563	-3.3784	2.07E-29	6.27E-28	FAM83H	family with protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000231925	-1.7564	-3.3785	2.58E-18	2.89E-17	TAPBP	TAP binding protein_co	6	33299694	33314387	-1	p21.32
ENSG00000110881	-1.7564	-3.3787	1.67E-06	6.79E-06	ASIC1	acid-sensin protein_co	12	50057548	50083611	1	q13.12
ENSG00000213079	-1.7568	-3.3795	6.16E-34	2.89E-32	SCAF8	SR-related protein_co	6	1.55E+08	1.55E+08	1	q25.2
ENSG00000159784	-1.7575	-3.381	5.23E-06	2.00E-05	FAM131B	family with protein_co	7	1.43E+08	1.43E+08	-1	q34
ENSG00000162804	-1.7579	-3.3819	3.50E-11	2.18E-10	SNED1	sushi, nido protein_co	2	2.41E+08	2.41E+08	1	q37.3
ENSG00000173402	-1.7582	-3.3827	1.14E-33	5.10E-32	DAG1	dystroglyca protein_co	3	49468703	49535618	1	p21.31
ENSG00000105662	-1.7583	-3.383	1.03E-16	1.02E-15	CRTC1	CREB regul. protein_co	19	18683677	18782333	1	p13.11
ENSG00000205978	-1.7601	-3.3873	3.70E-23	6.25E-22	NYNRIN	NYN domai protein_co	14	24398786	24419288	1	q12
ENSG00000196782	-1.7602	-3.3874	7.88E-18	8.49E-17	MAML3	mastermin protein_co	4	1.4E+08	1.4E+08	-1	q31.1
ENSG00000140332	-1.7616	-3.3908	1.36E-36	8.49E-35	TLE3	transducin- protein_co	15	70047790	70098176	-1	q23
ENSG00000186472	-1.7618	-3.3913	1.29E-32	5.21E-31	PCLO	piccolo pre protein_co	7	82754013	83162930	-1	q21.11
ENSG00000132382	-1.7637	-3.3956	5.45E-33	2.27E-31	MYBBP1A	MYB bindir protein_co	17	4538897	4555631	-1	p13.2
ENSG00000159216	-1.7645	-3.3974	5.95E-55	3.05E-52	RUNX1	runt-relate protein_co	21	34787801	36004667	-1	q22.12
ENSG00000180066	-1.7666	-3.4025	0.0026	0.0069	C10orf91	chromoson protein_co	10	1.32E+08	1.32E+08	1	q26.3
ENSG00000149575	-1.768	-3.4059	0.0002	0.0006	SCN2B	sodium cha protein_co	11	1.18E+08	1.18E+08	-1	q23.3
ENSG00000185453	-1.7687	-3.4075	1.33E-19	1.66E-18	C19orf68	chromoson protein_co	19	48170692	48197620	1	q13.33
ENSG00000280173	-1.7688	-3.4076	1.02E-05	3.76E-05	RP11-447D11.3	TEC	3	47346950	47349073	1	p21.31
ENSG00000162522	-1.7698	-3.4102	1.02E-30	3.45E-29	KIAA1522	KIAA1522 [ protein_co	1	32741885	32774970	1	p35.1
ENSG00000179094	-1.7707	-3.4123	3.53E-21	5.09E-20	PER1	period circ. protein_co	17	8140472	8156506	-1	p13.1
ENSG00000139613	-1.7713	-3.4136	9.93E-34	4.50E-32	SMARCC2	SWI/SNF re protein_co	12	56162983	56189567	-1	q13.2
ENSG00000162408	-1.7718	-3.4148	1.49E-27	3.79E-26	NOL9	nucleolar p protein_co	1	6521347	6554535	-1	p36.31
ENSG00000274561	-1.7722	-3.4157	4.19E-05	0.0001	RP11-147L13.12	lincRNA	17	68131462	68131907	1	q24.2
ENSG00000106346	-1.7728	-3.4173	2.90E-26	6.57E-25	USP42	ubiquitin s protein_co	7	6104884	6161564	1	p22.1
ENSG00000231419	-1.7733	-3.4185	5.19E-05	0.0002	LINC00689	long interg. processed_	7	1.59E+08	1.59E+08	1	q36.3
ENSG00000167491	-1.7742	-3.4205	5.41E-29	1.57E-27	GATAD2A	GATA zinc f protein_co	19	19385826	19508931	1	p13.11
ENSG00000176945	-1.7761	-3.4251	1.54E-24	2.97E-23	MUC20	mucin 20, c protein_co	3	1.96E+08	1.96E+08	1	q29
ENSG00000143842	-1.7763	-3.4254	1.67E-24	3.19E-23	SOX13	SRY (sex de protein_co	1	2.04E+08	2.04E+08	1	q32.1
ENSG00000181378	-1.7765	-3.4258	0.0008	0.0024	CCDC108	coiled-coil protein_co	2	2.19E+08	2.19E+08	-1	q35

ENSG00000148842	-1.7778	-3.4291	1.39E-21	2.07E-20	CNNM2	cyclin and (protein_co	10	1.03E+08	1.03E+08	1	q24.32
ENSG00000198198	-1.7789	-3.4317	4.23E-27	1.04E-25	SZT2	seizure thre protein_co	1	43389882	43452650	1	p34.2
ENSG00000117523	-1.7799	-3.4341	1.66E-39	1.48E-37	PRRC2C	proline-rich protein_co	1	1.71E+08	1.72E+08	1	q24.3
ENSG00000187605	-1.7803	-3.435	2.62E-23	4.51E-22	TET3	tet methylc protein_co	2	73986404	74108176	1	p13.1
ENSG00000236833	-1.7804	-3.4352	0.0015	0.0041	ACO24560.2	lincRNA	3	1.98E+08	1.98E+08	-1	q29
ENSG00000161642	-1.7807	-3.4359	6.03E-19	7.14E-18	ZNF385A	zinc finger   protein_co	12	54369133	54391298	-1	q13.13
ENSG00000100154	-1.7816	-3.438	1.05E-07	4.81E-07	TTC28	tetratricop protein_co	22	27978014	28679865	-1	q12.1
ENSG00000168056	-1.7816	-3.4381	1.34E-11	8.64E-11	LTBP3	latent trans protein_co	11	65538560	65558930	-1	q13.1
ENSG00000166825	-1.7836	-3.4428	0.0002	0.0005	ANPEP	alanyl (mer protein_co	15	89784889	89815401	-1	q26.1
ENSG00000156860	-1.7839	-3.4436	3.23E-38	2.50E-36	FBRS	fibrosin [So protein_co	16	30658431	30670814	1	p11.2
ENSG00000182463	-1.7845	-3.445	5.30E-12	3.55E-11	TSHZ2	teashirt zin protein_co	20	52972407	53495330	1	q13.2
ENSG00000065970	-1.7847	-3.4454	5.22E-32	1.98E-30	FOXJ2	forkhead b protein_co	12	8032703	8055503	1	p13.31
ENSG00000180900	-1.7856	-3.4476	5.46E-24	1.00E-22	SCRIB	scribbled p protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000100979	-1.7866	-3.4499	0.0002	0.0007	PLTP	phospholip protein_co	20	45898621	45912155	-1	q13.12
ENSG00000130816	-1.7873	-3.4516	3.23E-35	1.74E-33	DNMT1	DNA (cytos protein_co	19	10133345	10231286	-1	p13.2
ENSG00000272333	-1.788	-3.4534	1.22E-23	2.16E-22	KMT2B	lysine (K)-s protein_co	19	35718019	35738878	1	q13.12
ENSG00000092421	-1.7891	-3.456	2.68E-09	1.42E-08	SEMA6A	sema domc protein_co	5	1.16E+08	1.17E+08	-1	q23.1
ENSG00000076864	-1.7896	-3.4573	3.43E-10	1.96E-09	RAP1GAP	RAP1 GTPa protein_co	1	21596215	21669363	-1	p36.12
ENSG00000105997	-1.7917	-3.4623	2.44E-09	1.30E-08	HOXA3	homeobox protein_co	7	27106184	27152581	-1	p15.2
ENSG00000135540	-1.7922	-3.4635	3.19E-21	4.63E-20	NHSL1	NHS-like 1   protein_co	6	1.38E+08	1.39E+08	-1	q24.1
ENSG00000008710	-1.7924	-3.4638	5.62E-38	4.24E-36	PKD1	polycystic k protein_co	16	2088710	2135898	-1	p13.3
ENSG00000012211	-1.7931	-3.4656	6.76E-16	6.21E-15	PRICKLE3	prickle hom protein_co X		49175264	49186528	-1	p11.23
ENSG00000126883	-1.7936	-3.4668	9.36E-38	6.90E-36	NUP214	nucleoporin protein_co	9	1.31E+08	1.31E+08	1	q34.13
ENSG00000130592	-1.7941	-3.468	0.0009	0.0026	LSP1	lymphocyte protein_co	11	1852970	1892267	1	p15.5
ENSG00000165323	-1.7963	-3.4733	0.0006	0.0019	FAT3	FAT atypica protein_co	11	92352096	92896470	1	q14.3
ENSG00000116128	-1.7967	-3.4743	6.64E-25	1.32E-23	BCL9	B-cell CLL/l protein_co	1	1.48E+08	1.48E+08	1	q21.2
ENSG00000043039	-1.7989	-3.4795	4.24E-07	1.83E-06	BARX2	BARX home protein_co	11	1.29E+08	1.29E+08	1	q24.3
ENSG00000081913	-1.8008	-3.4842	5.39E-32	2.04E-30	PHLPP1	PH domain protein_co	18	62715450	62980433	1	q21.33
ENSG00000047644	-1.8008	-3.4842	4.93E-19	5.88E-18	WWC3	WWC famil protein_co X		10015562	10144478	1	p22.2
ENSG00000082805	-1.8012	-3.485	3.71E-35	1.97E-33	ERC1	ELKS/RAB6 protein_co	12	990509	1495933	1	p13.33
ENSG00000143970	-1.8013	-3.4854	1.72E-50	5.00E-48	ASXL2	additional s protein_co	2	25733753	25878516	-1	p23.3
ENSG00000185761	-1.8019	-3.4867	6.93E-09	3.52E-08	ADAMTSL5	ADAMTS-lil protein_co	19	1505018	1513604	-1	p13.3
ENSG00000171219	-1.8023	-3.4877	6.54E-41	6.87E-39	CDC42BPG	CDC42 binc protein_co	11	64823387	64844569	-1	q13.1
ENSG00000168398	-1.8029	-3.4892	3.66E-31	1.28E-29	BDKRB2	bradykinin protein_co	14	96204679	96244166	1	q32.2
ENSG00000130600	-1.804	-3.4918	1.25E-06	5.14E-06	H19	H19, imprir processed_	11	1995163	2001470	-1	p15.5
ENSG00000122966	-1.8041	-3.4922	4.08E-06	1.58E-05	CIT	citron rho-i protein_co	12	1.2E+08	1.2E+08	-1	q24.23
ENSG00000070444	-1.8042	-3.4924	9.80E-29	2.77E-27	MNT	MAX netwc protein_co	17	2384060	2401118	-1	p13.3
ENSG00000143376	-1.805	-3.4943	7.00E-38	5.23E-36	SNX27	sorting nex protein_co	1	1.52E+08	1.52E+08	1	q21.3
ENSG00000204052	-1.8056	-3.4956	0.0002	0.0007	LRRC73	leucine rich protein_co	6	43506969	43510686	-1	p21.1
ENSG00000196313	-1.8056	-3.4957	5.67E-28	1.49E-26	POM121	POM121 tr protein_co	7	72879365	72951440	1	q11.23
ENSG00000123191	-1.8064	-3.4976	5.52E-19	6.56E-18	ATP7B	ATPase, Cu protein_co	13	51932673	52011494	-1	q14.3



ENSG00000144063	-1.8066	-3.4983	4.33E-12	2.91E-11	MALL	mal, T-cell (protein_co	2	1.1E+08	1.1E+08	-1	q13
ENSG00000241973	-1.8071	-3.4994	7.64E-39	6.25E-37	PI4KA	phosphatid protein_co	22	20707691	20859417	-1	q11.21
ENSG00000274070	-1.8072	-3.4997	1.15E-08	5.75E-08	GATSL2	GATS prote protein_co	7	74964818	75024798	1	q11.23
ENSG00000175662	-1.8079	-3.5013	8.57E-29	2.44E-27	TOM1L2	target of m protein_co	17	17843511	17972422	-1	p11.2
ENSG00000152409	-1.8085	-3.5029	3.85E-37	2.62E-35	JMY	junction m protein_co	5	79236189	79327215	1	q14.1
ENSG00000185697	-1.8086	-3.5029	0.0024	0.0063	MYBL1	v-myb avia protein_co	8	66562175	66614247	-1	q13.1
ENSG00000197892	-1.8103	-3.5073	4.49E-31	1.56E-29	KIF13B	kinesin fam protein_co	8	29067279	29263124	-1	p12
ENSG00000130821	-1.8105	-3.5077	2.61E-25	5.43E-24	SLC6A8	solute carri protein_co X		1.54E+08	1.54E+08	1	q28
ENSG00000090061	-1.8129	-3.5135	6.99E-33	2.90E-31	CCNK	cyclin K [So protein_co	14	99481169	99535044	1	q32.2
ENSG00000196576	-1.8139	-3.5159	6.10E-41	6.50E-39	PLXNB2	plexin B2 [S protein_co	22	50274979	50307627	-1	q13.33
ENSG00000104885	-1.8154	-3.5196	5.40E-20	7.02E-19	DOT1L	DOT1-like l protein_co	19	2164149	2232578	1	p13.3
ENSG00000130158	-1.8157	-3.5203	7.00E-23	1.16E-21	DOCK6	dedicator c protein_co	19	11199295	11262481	-1	p13.2
ENSG00000203499	-1.816	-3.521	4.25E-11	2.63E-10	FAM83H-AS1	FAM83H ar lincRNA	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000128510	-1.8164	-3.5219	3.25E-11	2.03E-10	CPA4	carboxypep protein_co	7	1.3E+08	1.3E+08	1	q32.2
ENSG00000183914	-1.8166	-3.5225	0.0005	0.0014	DNAH2	dynein, axc protein_co	17	7717354	7833744	1	p13.1
ENSG00000169925	-1.817	-3.5236	3.03E-36	1.81E-34	BRD3	bromodom protein_co	9	1.34E+08	1.34E+08	-1	q34.2
ENSG00000100092	-1.8184	-3.5268	3.25E-27	8.00E-26	SH3BP1	SH3-domai protein_co	22	37634654	37666932	1	q13.1
ENSG00000124422	-1.8185	-3.5271	1.12E-29	3.45E-28	USP22	ubiquitin s protein_co	17	20999593	21043760	-1	p11.2
ENSG00000141314	-1.8189	-3.5282	4.26E-06	1.65E-05	RHBDL3	rhomboid, protein_co	17	32266176	32324661	1	q11.2
ENSG00000125386	-1.819	-3.5283	5.06E-30	1.61E-28	FAM193A	family with protein_co	4	2625261	2732565	1	p16.3
ENSG00000074211	-1.8199	-3.5304	0.0007	0.0021	PPP2R2C	protein ph protein_co	4	6320578	6563600	-1	p16.1
ENSG00000115461	-1.8207	-3.5326	0.0006	0.0017	IGFBP5	insulin-like protein_co	2	2.17E+08	2.17E+08	-1	q35
ENSG00000024422	-1.821	-3.5334	4.84E-23	8.11E-22	EHD2	EH-domain protein_co	19	47713343	47743134	1	q13.33
ENSG00000074181	-1.8231	-3.5383	2.64E-25	5.48E-24	NOTCH3	notch 3 [So protein_co	19	15159038	15200981	-1	p13.12
ENSG00000075275	-1.8245	-3.5418	3.09E-77	1.66E-73	CELSR1	cadherin, E protein_co	22	46360834	46537170	-1	q13.31
ENSG00000171435	-1.8256	-3.5445	0.0002	0.0007	KSR2	kinase sup protein_co	12	1.17E+08	1.18E+08	-1	q24.23
ENSG00000135925	-1.8259	-3.5452	3.78E-21	5.42E-20	WNT10A	wingless-ty protein_co	2	2.19E+08	2.19E+08	1	q35
ENSG00000172403	-1.8272	-3.5485	1.42E-18	1.63E-17	SYNPO2	synaptopo protein_co	4	1.19E+08	1.19E+08	1	q26
ENSG00000161021	-1.8286	-3.552	7.20E-39	5.93E-37	MAML1	mastermin protein_co	5	1.8E+08	1.8E+08	1	q35.3
ENSG00000155760	-1.829	-3.5528	2.76E-05	9.71E-05	FZD7	frizzled clas protein_co	2	2.02E+08	2.02E+08	1	q33.1
ENSG00000186260	-1.8301	-3.5556	6.79E-34	3.16E-32	MKL2	MKL/myoc protein_co	16	14071321	14266773	1	p13.12
ENSG00000171848	-1.8305	-3.5567	0.0018	0.0048	RRM2	ribonucleo protein_co	2	10122328	10131419	1	p25.1
ENSG00000198929	-1.8318	-3.5599	2.49E-11	1.57E-10	NOS1AP	nitric oxide protein_co	1	1.62E+08	1.62E+08	1	q23.3
ENSG00000074755	-1.832	-3.5604	1.69E-31	6.14E-30	ZZEF1	zinc finger, protein_co	17	4004445	4143020	-1	p13.2
ENSG00000136485	-1.8325	-3.5616	5.35E-36	3.09E-34	DCAF7	DDB1 and ( protein_co	17	63550461	63594266	1	q23.3
ENSG00000124942	-1.8332	-3.5633	1.67E-33	7.36E-32	AHNAK	AHNAK nuc protein_co	11	62433542	62556235	-1	q12.3
ENSG00000100425	-1.8334	-3.5638	1.07E-35	6.00E-34	BRD1	bromodom protein_co	22	49773283	49827512	-1	q13.33
ENSG00000134250	-1.8335	-3.564	6.73E-27	1.62E-25	NOTCH2	notch 2 [So protein_co	1	1.2E+08	1.2E+08	-1	p12
ENSG00000184709	-1.8337	-3.5645	0.0003	0.0008	LRRC26	leucine rich protein_co	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000110777	-1.8338	-3.5649	7.39E-15	6.24E-14	POU2AF1	POU class 2 protein_co	11	1.11E+08	1.11E+08	-1	q23.1
ENSG00000102554	-1.8354	-3.5686	7.28E-20	9.33E-19	KLF5	Kruppel-like protein_co	13	73054976	73077542	1	q22.1

ENSG00000076108	-1.8368	-3.5723	1.07E-35	6.00E-34 BAZ2A	bromodom protein_co	12	56595596	56636816	-1	q13.3
ENSG00000198934	-1.8377	-3.5743	2.10E-08	1.02E-07 MAGEE1	melanoma protein_co X		76427724	76431353	1	q13.3
ENSG00000079308	-1.8395	-3.5787	1.34E-17	1.42E-16 TNS1	tensin 1 [Sc protein_co	2	2.18E+08	2.18E+08	-1	q35
ENSG00000171634	-1.84	-3.5801	8.13E-36	4.59E-34 BPTF	bromodom protein_co	17	67825524	67984378	1	q24.2
ENSG00000048471	-1.84	-3.5802	2.62E-17	2.70E-16 SNX29	sorting nex protein_co	16	11976737	12574289	1	p13.13
ENSG00000170085	-1.8413	-3.5832	2.49E-14	2.02E-13 SIMC1	SUMO-inte protein_co	5	1.76E+08	1.76E+08	1	q35.2
ENSG00000154678	-1.8415	-3.5839	0.0005	0.0015 PDE1C	phosphodi protein_co	7	31751179	32299329	-1	p14.3
ENSG00000118058	-1.8425	-3.5864	1.98E-44	2.88E-42 KMT2A	lysine (K)-s protein_co	11	1.18E+08	1.19E+08	1	q23.3
ENSG00000251322	-1.8433	-3.5883	4.13E-14	3.28E-13 SHANK3	SH3 and m processed_	22	50674415	50733298	1	q13.33
ENSG00000197386	-1.8445	-3.5912	1.20E-37	8.62E-36 HTT	huntingtin protein_co	4	3074681	3243959	-1	p16.3
ENSG00000107554	-1.8453	-3.5933	1.06E-28	2.99E-27 DNMBP	dynamini bi protein_co	10	99875577	1E+08	-1	q24.2
ENSG00000179833	-1.8457	-3.5943	3.20E-14	2.57E-13 SERTAD2	SERTA dom protein_co	2	64631621	64751005	-1	p14
ENSG00000186564	-1.8467	-3.5968	4.29E-06	1.66E-05 FOXD2	forkhead b protein_co	1	47436017	47440691	1	p33
ENSG00000175220	-1.8469	-3.5972	7.59E-28	1.96E-26 ARHGAP1	Rho GTPase protein_co	11	46677080	46700615	-1	p11.2
ENSG00000022567	-1.8486	-3.6015	1.65E-41	1.85E-39 SLC45A4	solute carri protein_co	8	1.41E+08	1.41E+08	-1	q24.3
ENSG00000279978	-1.8486	-3.6015	1.05E-06	4.34E-06 chr22-38_28785274-29006793.1	lincRNA	22	28930201	29197572	1	q12.1
ENSG00000235568	-1.8488	-3.602	1.24E-08	6.15E-08 NFAM1	NFAT activ protein_co	22	42380410	42432395	-1	q13.2
ENSG00000136715	-1.8489	-3.6023	2.66E-25	5.50E-24 SAP130	Sin3A-asso protein_co	2	1.28E+08	1.28E+08	-1	q14.3
ENSG00000092847	-1.8491	-3.6026	1.06E-34	5.47E-33 AGO1	argonaute protein_co	1	35869808	35929610	1	p34.3
ENSG00000014164	-1.8494	-3.6034	2.38E-20	3.16E-19 ZC3H3	zinc finger protein_co	8	1.43E+08	1.44E+08	-1	q24.3
ENSG00000231113	-1.8497	-3.6043	6.20E-05	0.0002 RP3-475N16.1	antisense	6	42940364	42948360	1	p21.1
ENSG00000172985	-1.8505	-3.6062	4.94E-05	0.0002 SH3RF3	SH3 domai protein_co	2	1.09E+08	1.1E+08	1	q13
ENSG00000143473	-1.8507	-3.6067	0.0018	0.0048 KCNH1	potassium protein_co	1	2.11E+08	2.11E+08	-1	q32.2
ENSG00000135519	-1.8515	-3.6088	0.0001	0.0004 KCNH3	potassium protein_co	12	49539157	49558308	1	q13.12
ENSG00000118689	-1.8518	-3.6095	1.19E-72	4.26E-69 FOXO3	forkhead b protein_co	6	1.09E+08	1.09E+08	1	q21
ENSG00000120457	-1.8523	-3.6108	1.23E-14	1.02E-13 KCNJ5	potassium protein_co	11	1.29E+08	1.29E+08	1	q24.3
ENSG00000204388	-1.8526	-3.6114	5.71E-19	6.78E-18 HSPA1B	heat shock protein_co	6	31827735	31830255	1	p21.33
ENSG00000197694	-1.8529	-3.6122	1.37E-38	1.11E-36 SPTAN1	spectrin, al protein_co	9	1.29E+08	1.29E+08	1	q34.11
ENSG00000049618	-1.8534	-3.6135	7.57E-48	1.61E-45 ARID1B	AT rich inte protein_co	6	1.57E+08	1.57E+08	1	q25.3
ENSG00000130940	-1.8535	-3.6138	9.82E-22	1.49E-20 CASZ1	castor zinc protein_co	1	10636604	10796650	-1	p36.22
ENSG00000215790	-1.8536	-3.6141	2.36E-06	9.40E-06 SLC35E2	solute carri protein_co	1	1724838	1745992	-1	p36.33
ENSG00000162063	-1.8549	-3.6174	1.08E-10	6.46E-10 CCNF	cyclin F [So protein_co	16	2429394	2458854	1	p13.3
ENSG00000205746	-1.855	-3.6174	7.53E-06	2.83E-05 RP11-1212A22.1	transcribed	16	18334400	18352476	-1	p12.3
ENSG00000261068	-1.8555	-3.6189	3.09E-12	2.10E-11 RP11-7K24.3	lincRNA	6	42092233	42094259	-1	p21.1
ENSG00000115977	-1.8558	-3.6194	5.11E-33	2.14E-31 AAK1	AP2 associ protein_co	2	69457995	69674349	-1	p13.3
ENSG00000163820	-1.8559	-3.6197	9.63E-29	2.72E-27 FYCO1	FYVE and ci protein_co	3	45917899	45995824	-1	p21.31
ENSG00000261655	-1.8566	-3.6215	0.0012	0.0033 CTD-3064M3.3	sense_over	8	1.41E+08	1.41E+08	-1	q24.3
ENSG00000103197	-1.8569	-3.6222	6.46E-57	3.76E-54 TSC2	tuberous sc protein_co	16	2047465	2088720	1	p13.3
ENSG00000131196	-1.8588	-3.6272	5.38E-12	3.60E-11 NFATC1	nuclear fac protein_co	18	79395856	79529325	1	q23
ENSG00000175274	-1.859	-3.6275	6.31E-17	6.33E-16 TP53I11	tumor prot protein_co	11	44885903	44951306	-1	p11.2
ENSG00000166716	-1.8598	-3.6297	9.28E-47	1.75E-44 ZNF592	zinc finger protein_co	15	84748635	84806432	1	q25.3

ENSG00000138411	-1.8598	-3.6297	3.50E-23	5.93E-22	HECW2	HECT, C2 a1 protein_co	2	1.96E+08	1.97E+08	-1	q32.3
ENSG00000160584	-1.8611	-3.6327	6.54E-30	2.06E-28	SIK3	SIK family k protein_co	11	1.17E+08	1.17E+08	-1	q23.3
ENSG00000263731	-1.8611	-3.6327	0.0001	0.0005	RP11-498C9.15	lincRNA	17	81878425	81881106	-1	q25.3
ENSG00000272016	-1.8612	-3.6332	5.07E-05	0.0002	RP11-215G15.5	lincRNA	5	10654220	10657816	1	p15.2
ENSG00000267056	-1.8612	-3.6332	0.0001	0.0004	AC005336.4	processed_	19	15910582	15911824	-1	p13.12
ENSG00000161714	-1.8616	-3.6342	7.52E-23	1.24E-21	PLCD3	phospholip protein_co	17	45108967	45133354	-1	q21.31
ENSG00000158445	-1.8617	-3.6344	0.0006	0.0017	KCNB1	potassium protein_co	20	49363877	49482647	-1	q13.13
ENSG00000164880	-1.8629	-3.6375	7.03E-45	1.06E-42	INTS1	integrator protein_co	7	1470277	1504367	-1	p22.3
ENSG00000198646	-1.8631	-3.6379	4.30E-35	2.27E-33	NCOA6	nuclear rec protein_co	20	34696918	34825649	-1	q11.22
ENSG00000244567	-1.8631	-3.638	2.06E-08	1.00E-07	AC096772.6	lincRNA	2	2.08E+08	2.08E+08	-1	q33.3
ENSG00000180357	-1.8634	-3.6388	4.33E-36	2.55E-34	ZNF609	zinc finger protein_co	15	64460742	64686068	1	q22.31
ENSG00000266074	-1.8649	-3.6425	6.51E-24	1.18E-22	BAHCC1	BAH domain protein_co	17	81395475	81466332	1	q25.3
ENSG00000069535	-1.8651	-3.6429	1.76E-09	9.46E-09	MAOB	monoamine protein_co X		43766611	43882447	-1	p11.3
ENSG00000168907	-1.8653	-3.6435	2.02E-05	7.23E-05	PLA2G4F	phospholip protein_co	15	42139034	42156636	-1	q15.1
ENSG00000141456	-1.8661	-3.6456	2.63E-21	3.84E-20	PELP1	proline, glu protein_co	17	4671385	4704337	-1	p13.2
ENSG00000108846	-1.8662	-3.6457	1.08E-14	9.01E-14	ABCC3	ATP-binding protein_co	17	50634777	50692252	1	q21.33
ENSG00000162104	-1.8692	-3.6533	5.56E-45	8.54E-43	ADCY9	adenylate protein_co	16	3953387	4116185	-1	p13.3
ENSG00000260461	-1.8697	-3.6545	1.37E-12	9.59E-12	RP11-541N10.3	sense_over	10	1.04E+08	1.04E+08	-1	q24.33
ENSG00000106003	-1.8703	-3.6561	9.57E-09	4.80E-08	LFNG	LFNG O-fuc protein_co	7	2512529	2529177	1	p22.3
ENSG00000152284	-1.8719	-3.6601	3.47E-16	3.28E-15	TCF7L1	transcript protein_co	2	85133410	85310388	1	p11.2
ENSG00000114841	-1.8721	-3.6606	2.31E-05	8.21E-05	DNAH1	dynein, axc protein_co	3	52316319	52400491	1	p21.1
ENSG00000183741	-1.8723	-3.6613	3.53E-30	1.14E-28	CBX6	chromobox protein_co	22	38861450	38872314	-1	q13.1
ENSG00000110092	-1.8726	-3.662	1.17E-16	1.15E-15	CCND1	cyclin D1 [S protein_co	11	69641087	69654474	1	q13.3
ENSG00000178971	-1.8734	-3.6639	7.35E-25	1.45E-23	CTC1	CTS telome protein_co	17	8226873	8248044	-1	p13.1
ENSG00000159674	-1.8736	-3.6644	1.31E-05	4.78E-05	SPON2	spondin 2, protein_co	4	1166932	1208962	-1	p16.3
ENSG00000112624	-1.8763	-3.6712	3.99E-29	1.17E-27	GLTSCR1L	GLTSCR1-lil protein_co	6	42746958	42868560	1	p21.1
ENSG00000261150	-1.8763	-3.6713	7.97E-15	6.70E-14	EPPK1	epiplakin 1 protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000157423	-1.8777	-3.6748	0.0003	0.001	HYDIN	HYDIN, axo protein_co	16	70807378	71230722	-1	q22.2
ENSG00000123411	-1.8795	-3.6795	4.87E-20	6.35E-19	IKZF4	IKAROS fan protein_co	12	56007659	56038435	1	q13.2
ENSG00000103056	-1.88	-3.6806	4.15E-09	2.16E-08	SMPD3	sphingomy protein_co	16	68358325	68448688	-1	q22.1
ENSG00000261659	-1.8808	-3.6829	1.27E-09	6.92E-09	LA16c-313D11.12	processed_	16	689001	692554	1	p13.3
ENSG00000182175	-1.8818	-3.6854	1.85E-10	1.08E-09	RGMA	repulsive g protein_co	15	93035273	93089204	-1	q26.1
ENSG00000267160	-1.8826	-3.6875	0.0009	0.0026	RP11-1072C15.4	antisense	17	44673689	44676257	-1	q21.31
ENSG00000106571	-1.8842	-3.6914	1.13E-14	9.40E-14	GLI3	GLI family z protein_co	7	41960950	42237870	-1	p14.1
ENSG00000171105	-1.8858	-3.6956	3.54E-31	1.24E-29	INSR	insulin rece protein_co	19	7112255	7294034	-1	p13.2
ENSG00000166828	-1.8861	-3.6964	2.45E-14	1.99E-13	SCNN1G	sodium cha protein_co	16	23182715	23216883	1	p12.2
ENSG00000164684	-1.8862	-3.6967	1.00E-18	1.16E-17	ZNF704	zinc finger protein_co	8	80628451	80874781	-1	q21.13
ENSG00000183337	-1.8869	-3.6984	6.60E-18	7.14E-17	BCOR	BCL6 corep protein_co X		40049815	40177329	-1	p11.4
ENSG00000131149	-1.8877	-3.7004	7.39E-41	7.61E-39	GSE1	Gse1 coilec protein_co	16	85611409	85676204	1	q24.1
ENSG00000132005	-1.8888	-3.7033	2.16E-23	3.76E-22	RFX1	regulatory protein_co	19	13961538	14007039	-1	p13.12
ENSG00000151468	-1.889	-3.7038	7.60E-09	3.84E-08	CCDC3	coiled-coil protein_co	10	12896625	13099652	-1	p13

ENSG00000136854	-1.8893	-3.7045	4.22E-32	1.62E-30	STXBP1	syntaxin iii protein_co	9	1.28E+08	1.28E+08	1	q34.11
ENSG00000065989	-1.8898	-3.7058	8.54E-25	1.67E-23	PDE4A	phosphodi protein_co	19	10416773	10469631	1	p13.2
ENSG00000187244	-1.891	-3.709	1.13E-20	1.55E-19	BCAM	basal cell a protein_co	19	44809059	44821420	1	q13.32
ENSG00000168477	-1.8927	-3.7134	3.35E-07	1.46E-06	TNXB	tenascin XE protein_co	6	32041154	32115334	-1	p21.32
ENSG00000229953	-1.8953	-3.7201	0.0011	0.0031	RP11-284F21.7	antisense	1	1.57E+08	1.57E+08	-1	q23.1
ENSG00000152104	-1.8961	-3.7219	2.46E-36	1.48E-34	PTPN14	protein tyri protein_co	1	2.14E+08	2.15E+08	-1	q41
ENSG00000106078	-1.9004	-3.7332	3.67E-18	4.06E-17	COBL	cordon-ble protein_co	7	51016212	51316818	-1	p12.1
ENSG00000172493	-1.9012	-3.7352	1.62E-46	2.96E-44	AFF1	AF4/FMR2 protein_co	4	86935002	87141054	1	q21.3
ENSG00000187535	-1.9026	-3.7388	7.21E-08	3.35E-07	IFT140	intraflagell protein_co	16	1510427	1612110	-1	p13.3
ENSG00000132613	-1.9052	-3.7457	2.57E-19	3.13E-18	MTSS1L	metastasis protein_co	16	70661204	70686066	-1	q22.1
ENSG00000133067	-1.9057	-3.747	0.0008	0.0024	LGR6	leucine-rich protein_co	1	2.02E+08	2.02E+08	1	q32.1
ENSG00000272761	-1.907	-3.7502	1.40E-05	5.11E-05	LINC01279	long interg lincRNA	3	1.13E+08	1.13E+08	-1	q13.2
ENSG00000116962	-1.907	-3.7504	6.61E-09	3.37E-08	NID1	nidogen 1 [ protein_co	1	2.36E+08	2.36E+08	-1	q42.3
ENSG00000169871	-1.9074	-3.7514	2.18E-27	5.48E-26	TRIM56	tripartite r protein_co	7	1.01E+08	1.01E+08	1	q22.1
ENSG00000214814	-1.9082	-3.7533	1.05E-11	6.83E-11	FER1L6	fer-1-like fa protein_co	8	1.24E+08	1.24E+08	1	q24.13
ENSG00000167182	-1.9082	-3.7535	1.28E-21	1.92E-20	SP2	Sp2 transcr protein_co	17	47896150	47928957	1	q21.32
ENSG00000153094	-1.909	-3.7556	3.60E-24	6.69E-23	BCL2L11	BCL2-like 1 protein_co	2	1.11E+08	1.11E+08	1	q13
ENSG00000099954	-1.9108	-3.7602	0.0011	0.0032	COCR2	cat eye syn protein_co	22	17359949	17558149	1	q11.1
ENSG00000070814	-1.9145	-3.7699	1.21E-32	4.94E-31	TCOF1	Treacher C protein_co	5	1.5E+08	1.5E+08	1	q32
ENSG00000173517	-1.9161	-3.7741	4.39E-32	1.68E-30	PEAK1	pseudopod protein_co	15	77100656	77420144	-1	q24.3
ENSG00000064999	-1.9172	-3.777	1.26E-45	2.06E-43	ANKS1A	ankyrin rep protein_co	6	34889265	35091413	1	p21.31
ENSG00000253729	-1.9182	-3.7794	3.57E-47	7.12E-45	PRKDC	protein kin protein_co	8	47773108	47960183	-1	q11.21
ENSG00000173064	-1.9186	-3.7806	8.33E-43	1.03E-40	HECTD4	HECT doma protein_co	12	1.12E+08	1.12E+08	-1	q24.13
ENSG00000152217	-1.9209	-3.7866	6.81E-25	1.35E-23	SETBP1	SET binding protein_co	18	44680173	45068510	1	q12.3
ENSG00000182957	-1.9215	-3.7883	2.72E-09	1.44E-08	SPATA13	spermatog protein_co	13	23979805	24307074	1	q12.12
ENSG00000105011	-1.9215	-3.7883	0.0007	0.002	ASF1B	anti-silenci protein_co	19	14119509	14136956	-1	p13.12
ENSG00000188039	-1.9226	-3.791	0.0002	0.0006	NWD1	NACHT and protein_co	19	16719976	16817963	1	p13.11
ENSG00000263335	-1.9231	-3.7924	1.32E-06	5.40E-06	AF001548.5	antisense	16	15726674	15732993	1	p13.11
ENSG00000214425	-1.9239	-3.7944	9.47E-11	5.69E-10	LRRC37A4P	leucine rich transcribed	17	45506741	45550335	-1	q21.31
ENSG00000130939	-1.9241	-3.7949	1.08E-33	4.87E-32	UBE4B	ubiquitinat protein_co	1	10032832	10181239	1	p36.22
ENSG00000101849	-1.9258	-3.7994	1.66E-20	2.24E-19	TBL1X	transducin protein_co X		9463295	9719743	1	p22.31
ENSG00000187372	-1.9272	-3.8031	3.88E-10	2.21E-09	PCDHB13	protocadhe protein_co	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000158292	-1.9274	-3.8037	1.88E-23	3.28E-22	GPR153	G protein-c protein_co	1	6247346	6260975	-1	p36.31
ENSG00000137337	-1.9288	-3.8074	7.73E-35	4.02E-33	MDC1	mediator o protein_co	6	30699807	30717889	-1	p21.33
ENSG00000164976	-1.9295	-3.8091	9.63E-37	6.13E-35	KIAA1161	KIAA1161 [ protein_co	9	34366670	34376853	-1	p13.3
ENSG00000233024	-1.9316	-3.8148	2.36E-05	8.38E-05	NPIPA1	KIAA0220-l protein_co	16	18358086	18379331	-1	p12.3
ENSG00000269937	-1.9324	-3.817	4.41E-10	2.50E-09	RP11-20I23.8	antisense	16	2561471	2565096	-1	p13.3
ENSG00000067141	-1.9342	-3.8216	2.24E-32	8.84E-31	NEO1	neogenin 1 protein_co	15	73051710	73305206	1	q24.1
ENSG00000108352	-1.9355	-3.8252	2.29E-08	1.11E-07	RAPGEFL1	Rap guanin protein_co	17	40177010	40195656	1	q21.1
ENSG00000157613	-1.9394	-3.8354	7.61E-09	3.85E-08	CREB3L1	cAMP resp protein_co	11	46277661	46321422	1	p11.2
ENSG00000058453	-1.9396	-3.836	9.40E-07	3.92E-06	CROCC	ciliary rootl protein_co	1	16740273	16972979	1	p36.13

ENSG00000127616	-1.9412	-3.8404	1.75E-38	1.38E-36 SMARCA4	SWI/SNF re protein_co	19	10961001	11065395	1	p13.2
ENSG00000187764	-1.9422	-3.8428	5.48E-22	8.44E-21 SEMA4D	sema domꝑrotein_co	9	89360787	89498130	-1	q22.2
ENSG00000072071	-1.9436	-3.8465	1.23E-28	3.46E-27 LPHN1	latrophilin protein_co	19	14147743	14206187	-1	p13.12
ENSG00000156304	-1.9441	-3.848	2.52E-34	1.26E-32 SCAF4	SR-related protein_co	21	31671033	31732075	-1	q22.11
ENSG00000149503	-1.9444	-3.8487	1.31E-21	1.97E-20 INCENP	inner centr protein_co	11	62123973	62153163	1	q12.3
ENSG00000103148	-1.9446	-3.8493	1.40E-26	3.30E-25 NPRL3	nitrogen pe protein_co	16	84271	138860	-1	p13.3
ENSG00000262890	-1.9447	-3.8496	0.0008	0.0023 RP11-424M24.5	lincRNA	16	70802083	70802840	-1	q22.2
ENSG00000120733	-1.9461	-3.8534	4.24E-42	4.93E-40 KDM3B	lysine (K)-sꝑrotein_co	5	1.38E+08	1.38E+08	1	q31.2
ENSG00000183779	-1.9467	-3.8549	8.26E-47	1.57E-44 ZNF703	zinc finger ꝑrotein_co	8	37695751	37700021	1	p11.23
ENSG00000185650	-1.9474	-3.8567	4.53E-39	3.85E-37 ZFP36L1	ZFP36 ring protein_co	14	68787660	68796253	-1	q24.1
ENSG00000079432	-1.9497	-3.863	2.90E-30	9.46E-29 CIC	capicua tra protein_co	19	42268537	42295797	1	q13.2
ENSG00000048828	-1.9508	-3.8658	2.83E-60	2.77E-57 FAM120A	family with protein_co	9	93451722	93566107	1	q22.31
ENSG00000123146	-1.9512	-3.8669	2.90E-15	2.52E-14 CD97	CD97 mole protein_co	19	14380501	14408725	1	p13.12
ENSG00000135111	-1.9528	-3.8713	1.53E-15	1.36E-14 TBX3	T-box 3 [So protein_co	12	1.15E+08	1.15E+08	-1	q24.21
ENSG00000176641	-1.9533	-3.8725	5.35E-57	3.19E-54 RNF152	ring finger ꝑrotein_co	18	61808063	61894247	-1	q21.33
ENSG00000055609	-1.9588	-3.8875	6.19E-41	6.53E-39 KMT2C	lysine (K)-sꝑrotein_co	7	1.52E+08	1.52E+08	-1	q36.1
ENSG00000168350	-1.959	-3.8878	1.46E-06	5.96E-06 DEGS2	delta(4)-de protein_co	14	1E+08	1E+08	-1	q32.2
ENSG00000073067	-1.9605	-3.8919	0.001	0.0027 CYP2W1	cytochromꝑrotein_co	7	983199	989640	1	p22.3
ENSG00000130749	-1.9608	-3.8927	2.32E-39	2.02E-37 ZC3H4	zinc finger ꝑrotein_co	19	47064187	47113752	-1	q13.32
ENSG00000069702	-1.9616	-3.8949	1.20E-09	6.56E-09 TGFBR3	transformir protein_co	1	91680343	91906335	-1	p22.1
ENSG00000060237	-1.9625	-3.8975	8.64E-59	6.41E-56 WNK1	WNK lysine protein_co	12	752593	911452	1	p13.33
ENSG00000169710	-1.9634	-3.8999	2.30E-26	5.27E-25 FASN	fatty acid sꝑrotein_co	17	82078338	82098332	-1	q25.3
ENSG00000089692	-1.9638	-3.9009	3.06E-06	1.20E-05 LAG3	lymphocyte protein_co	12	6772512	6778455	1	p13.31
ENSG00000260063	-1.9646	-3.9031	0.0003	0.0008 RP5-968P14.2	antisense	1	26692132	26694131	-1	p36.11
ENSG00000185920	-1.9647	-3.9033	1.40E-19	1.75E-18 PTCH1	patched 1 [ protein_co	9	95442980	95517057	-1	q22.32
ENSG00000060656	-1.9655	-3.9054	1.62E-48	3.70E-46 PTPRU	protein tyriꝑrotein_co	1	29236516	29326813	1	p35.3
ENSG00000186638	-1.9657	-3.906	7.89E-05	0.0003 KIF24	kinesin farꝑrotein_co	9	34252381	34329200	-1	p13.3
ENSG00000272391	-1.9687	-3.9142	6.84E-37	4.46E-35 POM121C	POM121 tr protein_co	7	75416787	75486271	-1	q11.23
ENSG00000173166	-1.9702	-3.9182	4.90E-54	2.34E-51 RAPH1	Ras associa protein_co	2	2.03E+08	2.04E+08	-1	q33.2
ENSG00000101680	-1.9704	-3.9188	1.52E-06	6.21E-06 LAMA1	laminin, alꝑrotein_co	18	6941744	7117814	-1	p11.31
ENSG00000197102	-1.9719	-3.9227	7.76E-48	1.64E-45 DYNC1H1	dynein, cyt protein_co	14	1.02E+08	1.02E+08	1	q32.31
ENSG00000278978	-1.972	-3.9232	8.51E-11	5.14E-10 RP11-164P12.5	TEC	4	1.52E+08	1.52E+08	1	q31.3
ENSG00000103222	-1.9727	-3.9251	1.07E-31	3.98E-30 ABCC1	ATP-bindinꝑrotein_co	16	15949577	16143074	1	p13.11
ENSG00000183049	-1.9728	-3.9254	3.71E-46	6.39E-44 CAMK1D	calcium/calꝑrotein_co	10	12349482	12835545	1	p13
ENSG00000204839	-1.9744	-3.9296	2.09E-07	9.29E-07 MROH6	maestro heꝑrotein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000110046	-1.9754	-3.9324	6.59E-28	1.72E-26 ATG2A	autophagy protein_co	11	64894546	64917248	-1	q13.1
ENSG00000146221	-1.9777	-3.9386	0.0003	0.0008 TCTE1	t-complex-ꝑrotein_co	6	44278743	44297688	-1	p21.1
ENSG00000095596	-1.9802	-3.9454	6.59E-07	2.79E-06 CYP26A1	cytochromꝑrotein_co	10	93073475	93077890	1	q23.33
ENSG00000196872	-1.9806	-3.9466	1.03E-09	5.66E-09 KIAA1211L	KIAA1211-lꝑrotein_co	2	98793846	98936259	-1	q11.2
ENSG00000171603	-1.9811	-3.9479	1.89E-46	3.39E-44 CLSTN1	calsynteninꝑrotein_co	1	9729026	9824526	-1	p36.22
ENSG00000188459	-1.9816	-3.9494	0.0008	0.0024 WASF4P	WAS proteiꝑrocessed_X		47803296	47804789	1	p11.23



ENSG00000129990	-1.9818	-3.9499	0.0001	0.0004	SYT5	synaptotag protein_co	19	55171199	55180441	-1	q13.42
ENSG00000157005	-1.9825	-3.9519	0.0007	0.002	SST	somatostat protein_co	3	1.88E+08	1.88E+08	-1	q27.3
ENSG00000184792	-1.9826	-3.952	1.25E-13	9.56E-13	OSBP2	oxysterol b protein_co	22	30693782	30907824	1	q12.2
ENSG00000166402	-1.9832	-3.9537	8.02E-05	0.0003	TUB	tubby bipai protein_co	11	8019244	8106112	1	p15.4
ENSG00000177732	-1.9839	-3.9556	2.06E-13	1.55E-12	SOX12	SRY (sex de protein_co	20	325401	330224	1	p13
ENSG00000075568	-1.9865	-3.9626	1.02E-49	2.67E-47	TMEM131	transmemt protein_co	2	97756333	97995891	-1	q11.2
ENSG00000138031	-1.9869	-3.9639	6.25E-17	6.28E-16	ADCY3	adenylate c protein_co	2	24819169	24919839	-1	p23.3
ENSG00000263740	-1.987	-3.9641	0.0006	0.0016	RN7SL4P	RNA, 7SL, c misc_RNA	3	15738515	15738809	1	p25.1
ENSG00000107864	-1.9873	-3.965	1.46E-19	1.81E-18	CPEB3	cytoplasmic protein_co	10	92046692	92291087	-1	q23.32
ENSG00000212864	-1.9882	-3.9675	2.47E-08	1.20E-07	RNF208	ring finger protein_co	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000155506	-1.9911	-3.9753	5.27E-53	2.22E-50	LARP1	La ribonucl protein_co	5	1.55E+08	1.55E+08	1	q33.2
ENSG00000169896	-1.9955	-3.9875	2.63E-07	1.15E-06	ITGAM	integrin, al protein_co	16	31259990	31332892	1	p11.2
ENSG00000088836	-1.9971	-3.992	1.19E-18	1.37E-17	SLC4A11	solute carri protein_co	20	3227417	3239190	-1	p13
ENSG00000152518	-1.9984	-3.9956	2.77E-38	2.16E-36	ZFP36L2	ZFP36 ring protein_co	2	43222402	43226609	-1	p21
ENSG00000146072	-1.9999	-3.9996	9.22E-25	1.80E-23	TNFRSF21	tumor necr protein_co	6	47231532	47309905	-1	p12.3
ENSG00000178209	-2.0003	-4.0007	7.27E-32	2.72E-30	PLEC	plectin [So protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000184828	-2.0004	-4.001	2.55E-09	1.36E-08	ZBTB7C	zinc finger protein_co	18	48026673	48410752	-1	q21.1
ENSG00000124440	-2.0016	-4.0044	0.0006	0.0017	HIF3A	hypoxia inc protein_co	19	46297046	46343433	1	q13.32
ENSG00000105357	-2.0037	-4.0102	5.08E-34	2.42E-32	MYH14	myosin, he protein_co	19	50188186	50310545	1	q13.33
ENSG00000084774	-2.0042	-4.0118	3.00E-32	1.17E-30	CAD	carbamoyl- protein_co	2	27217390	27243943	1	p23.3
ENSG00000185432	-2.0064	-4.0178	2.32E-22	3.68E-21	METTL7A	methyltran protein_co	12	50923472	50932517	1	q13.12
ENSG00000127481	-2.0087	-4.0242	6.57E-39	5.43E-37	UBR4	ubiquitin pi protein_co	1	19074506	19210276	-1	p36.13
ENSG00000080573	-2.0091	-4.0253	0.0003	0.0009	COL5A3	collagen, ty protein_co	19	9959561	10010471	-1	p13.2
ENSG00000176406	-2.0101	-4.0282	6.92E-07	2.92E-06	RIMS2	regulating protein_co	8	1.04E+08	1.04E+08	1	q22.3
ENSG00000103319	-2.0125	-4.0348	7.01E-32	2.63E-30	EEF2K	eukaryotic protein_co	16	22206282	22288732	1	p12.2
ENSG00000108797	-2.0146	-4.0407	5.60E-12	3.73E-11	CNTNAP1	contactin a protein_co	17	42682613	42699814	1	q21.2
ENSG00000140443	-2.0156	-4.0436	1.04E-33	4.70E-32	IGF1R	insulin-like protein_co	15	98648971	98964530	1	q26.3
ENSG00000158321	-2.0175	-4.0489	1.36E-32	5.50E-31	AUTS2	autism sus protein_co	7	69598919	70793068	1	q11.22
ENSG00000130338	-2.019	-4.0531	8.39E-42	9.55E-40	TULP4	tubby like protein_co	6	1.58E+08	1.59E+08	1	q25.3
ENSG00000068654	-2.0193	-4.0538	2.36E-37	1.64E-35	POLR1A	polymerase protein_co	2	86020216	86106155	-1	p11.2
ENSG00000132326	-2.0193	-4.0539	2.83E-35	1.53E-33	PER2	period circ protein_co	2	2.38E+08	2.38E+08	-1	q37.3
ENSG00000043591	-2.0207	-4.0578	0.0003	0.0009	ADRB1	adrenocept protein_co	10	1.14E+08	1.14E+08	1	q25.3
ENSG00000140470	-2.0215	-4.0602	3.86E-05	0.0001	ADAMTS17	ADAM met protein_co	15	99971589	1E+08	-1	q26.3
ENSG00000197576	-2.0268	-4.0751	5.68E-06	2.17E-05	HOXA4	homeobox protein_co	7	27128507	27130799	-1	p15.2
ENSG00000262714	-2.0282	-4.0789	1.99E-07	8.86E-07	RP11-44F14.8	lincRNA	16	53386944	53389085	1	q12.2
ENSG00000149639	-2.0288	-4.0807	1.43E-43	1.91E-41	SOGA1	suppressor protein_co	20	36777442	36863686	-1	q11.23
ENSG00000140526	-2.0313	-4.0876	4.46E-33	1.89E-31	ABHD2	abhydrolas protein_co	15	89087459	89202360	1	q26.1
ENSG00000109101	-2.0314	-4.088	0.0006	0.0019	FOXN1	forkhead b protein_co	17	28506243	28538896	1	q11.2
ENSG00000131697	-2.0324	-4.0908	1.45E-12	1.01E-11	NPHP4	nephronop protein_co	1	5862810	5992473	-1	p36.31
ENSG00000126705	-2.0332	-4.0933	4.91E-26	1.09E-24	AHDC1	AT hook, D protein_co	1	27534035	27604431	-1	p35.3
ENSG00000135960	-2.0343	-4.0962	2.40E-06	9.57E-06	EDAR	ectodyspla protein_co	2	1.09E+08	1.09E+08	-1	q13

ENSG0000049246	-2.0353	-4.0991	1.09E-19	1.38E-18 PER3	period circ:protein_co	1	7784320	7845177	1	p36.23
ENSG00000168481	-2.036	-4.1011	0.0006	0.0017 LGI3	leucine-rich protein_co	8	22146825	22157084	-1	p21.3
ENSG00000196218	-2.0361	-4.1012	8.91E-13	6.36E-12 RYR1	ryanodine r protein_co	19	38433699	38587564	1	q13.2
ENSG00000146555	-2.0387	-4.1089	4.79E-14	3.79E-13 SDK1	sidekick cel protein_co	7	3301448	4269000	1	p22.2
ENSG00000099381	-2.0396	-4.1114	5.89E-36	3.39E-34 SETD1A	SET domain protein_co	16	30957294	30985116	1	p11.2
ENSG00000156030	-2.0416	-4.1171	1.44E-49	3.64E-47 ELM2	ELM2 and l protein_co	14	73715122	73790285	-1	q24.3
ENSG00000167632	-2.0418	-4.1177	2.58E-30	8.44E-29 TRAPPC9	trafficking i protein_co	8	1.4E+08	1.4E+08	-1	q24.3
ENSG00000132361	-2.0435	-4.1224	4.95E-41	5.40E-39 CLUH	clustered n protein_co	17	2689386	2712663	-1	p13.3
ENSG00000165821	-2.0469	-4.1321	8.49E-14	6.58E-13 SALL2	spalt-like tr protein_co	14	21521081	21537216	-1	q11.2
ENSG00000229417	-2.0489	-4.138	5.57E-05	0.0002 NPM1P25	nucleophos:processed_	10	96189366	96190219	-1	q24.1
ENSG00000275832	-2.0515	-4.1454	3.70E-29	1.09E-27 ARHGAP23	Rho GTPase protein_co	17	38428418	38512392	1	q12
ENSG00000259366	-2.0522	-4.1473	2.98E-07	1.30E-06 CTD-2647L4.4	sense_intrc	8	29055935	29056685	1	p12
ENSG00000277287	-2.0542	-4.153	6.41E-08	2.99E-07 RP4-794I6.4	lincRNA	20	3239705	3245382	1	p13
ENSG00000146648	-2.0565	-4.1598	3.24E-46	5.71E-44 EGFR	epidermal i protein_co	7	55019021	55256620	1	p11.2
ENSG00000120549	-2.06	-4.1698	4.35E-50	1.22E-47 KIAA1217	KIAA1217 [ protein_co	10	23694746	24547848	1	p12.2
ENSG00000170835	-2.0615	-4.1741	2.95E-05	0.0001 CEL	carboxyl es protein_co	9	1.33E+08	1.33E+08	1	q34.13
ENSG00000239887	-2.0632	-4.1792	2.90E-21	4.22E-20 C1orf226	chromosom protein_co	1	1.62E+08	1.62E+08	1	q23.3
ENSG00000133083	-2.0639	-4.1811	2.30E-30	7.55E-29 DLC1	doublecort protein_co	13	35768652	36131306	-1	q13.3
ENSG00000130723	-2.0639	-4.1812	9.21E-43	1.13E-40 PRRC2B	proline-rich protein_co	9	1.31E+08	1.32E+08	1	q34.13
ENSG00000013725	-2.0667	-4.1894	7.27E-07	3.07E-06 CD6	CD6 moleci protein_co	11	60971680	61020377	1	q12.2
ENSG00000162105	-2.0695	-4.1974	5.90E-36	3.39E-34 SHANK2	SH3 and m protein_co	11	70467856	71252577	-1	q13.4
ENSG00000091622	-2.0705	-4.2004	3.67E-17	3.74E-16 PITPNM3	PITPNM far protein_co	17	6451264	6556494	-1	p13.1
ENSG00000269990	-2.0729	-4.2073	2.27E-13	1.69E-12 CTD-3074O7.12	lincRNA	11	66535898	66537936	-1	q13.2
ENSG00000204469	-2.0734	-4.2089	3.63E-44	5.10E-42 PRRC2A	proline-rich protein_co	6	31620720	31637771	1	p21.33
ENSG00000155846	-2.0739	-4.2102	5.19E-16	4.83E-15 PPARGC1B	peroxisome protein_co	5	1.5E+08	1.5E+08	1	q32
ENSG00000162430	-2.0741	-4.2108	9.12E-31	3.10E-29 SEPN1	selenoprot:protein_co	1	25800176	25818224	1	p36.11
ENSG00000161847	-2.0767	-4.2184	1.98E-32	7.83E-31 RAVER1	ribonucleo protein_co	19	10316212	10333640	-1	p13.2
ENSG00000126464	-2.0824	-4.235	1.61E-36	9.95E-35 PRR12	proline rich protein_co	19	49591643	49626439	1	q13.33
ENSG00000258539	-2.0845	-4.2412	9.66E-05	0.0003 RP11-12J10.3	protein_co	10	1.25E+08	1.25E+08	-1	q26.13
ENSG00000122877	-2.085	-4.2428	9.73E-07	4.05E-06 EGR2	early growt protein_co	10	62811996	62919900	-1	q21.3
ENSG00000127152	-2.0863	-4.2466	3.73E-07	1.61E-06 BCL11B	B-cell CLL/l protein_co	14	99169287	99271524	-1	q32.2
ENSG00000134780	-2.0868	-4.2481	4.70E-40	4.42E-38 DAGLA	diacylglyce:protein_co	11	61680433	61747001	1	q12.2
ENSG00000170684	-2.0868	-4.2482	3.18E-07	1.38E-06 ZNF296	zinc finger i protein_co	19	45071500	45076588	-1	q13.32
ENSG00000184916	-2.0873	-4.2495	1.09E-21	1.64E-20 JAG2	jagged 2 [S] protein_co	14	1.05E+08	1.05E+08	-1	q32.33
ENSG00000065526	-2.0893	-4.2555	1.37E-34	7.01E-33 SPEN	spen family protein_co	1	15847864	15940460	1	p36.21
ENSG00000110090	-2.0903	-4.2584	1.29E-25	2.76E-24 CPT1A	carnitine p: protein_co	11	68754620	68844410	-1	q13.3
ENSG00000148143	-2.092	-4.2635	5.54E-35	2.88E-33 ZNF462	zinc finger i protein_co	9	1.07E+08	1.07E+08	1	q31.2
ENSG00000105388	-2.0929	-4.2661	2.34E-05	8.29E-05 CEACAM5	carcinoeml protein_co	19	41576273	41729798	1	q13.2
ENSG00000221890	-2.0937	-4.2683	2.26E-26	5.19E-25 NPTXR	neuronal p: protein_co	22	38818452	38843982	-1	q13.1
ENSG00000076201	-2.0937	-4.2684	4.82E-28	1.28E-26 PTPN23	protein tyri protein_co	3	47381011	47413441	1	p21.31
ENSG00000064300	-2.0938	-4.2688	1.33E-15	1.19E-14 NGFR	nerve grow protein_co	17	49495293	49515017	1	q21.33

ENSG00000175175	-2.0961	-4.2754	0.0001	0.0003	PPM1E	protein phc protein_co	17	58755869	58985176	1	q22
ENSG00000163590	-2.0976	-4.28	6.73E-59	5.17E-56	PPM1L	protein phc protein_co	3	1.61E+08	1.61E+08	1	q25.33
ENSG00000085552	-2.0981	-4.2815	3.08E-09	1.63E-08	IGSF9	immunogl protein_co	1	1.6E+08	1.6E+08	-1	q23.2
ENSG00000130699	-2.1047	-4.301	3.05E-34	1.51E-32	TAF4	TAF4 RNA f protein_co	20	61953469	62065810	-1	q13.33
ENSG00000188807	-2.1058	-4.3042	2.14E-18	2.41E-17	TMEM201	transmemt protein_co	1	9588922	9614873	1	p36.22
ENSG00000261888	-2.1087	-4.3131	5.43E-07	2.32E-06	AC144831.1	lincRNA	17	83104255	83106910	1	q25.3
ENSG00000167548	-2.1091	-4.3141	3.88E-40	3.73E-38	KMT2D	lysine (K)-s protein_co	12	49018975	49059774	-1	q13.12
ENSG00000164715	-2.1149	-4.3315	1.08E-42	1.32E-40	LMTK2	lemur tyros protein_co	7	98106885	98209633	1	q21.3
ENSG00000127946	-2.1197	-4.346	3.73E-19	4.50E-18	HIP1	huntingtin protein_co	7	75533300	75738962	-1	q11.23
ENSG00000138759	-2.1203	-4.3479	1.02E-18	1.18E-17	FRAS1	Fraser extr protein_co	4	78057570	78544269	1	q21.21
ENSG00000078687	-2.1223	-4.3539	3.42E-25	7.03E-24	TNRC6C	trinucleotic protein_co	17	78004168	78108835	1	q25.3
ENSG00000124782	-2.1244	-4.3602	1.30E-59	1.12E-56	RREB1	ras respons protein_co	6	7107597	7251980	1	p24.3
ENSG00000242265	-2.1276	-4.3698	6.32E-11	3.86E-10	PEG10	paternally ( protein_co	7	94656325	94669695	1	q21.3
ENSG00000196935	-2.1297	-4.3762	2.78E-35	1.50E-33	SRGAP1	SLIT-ROBO protein_co	12	63844293	64162221	1	q14.2
ENSG00000100393	-2.1297	-4.3763	2.22E-44	3.20E-42	EP300	E1A binding protein_co	22	41091786	41180077	1	q13.2
ENSG00000223396	-2.1313	-4.381	7.14E-05	0.0002	RPS10P7	ribosomal f lincRNA	1	2.02E+08	2.02E+08	1	q32.1
ENSG00000259291	-2.1318	-4.3826	1.42E-07	6.40E-07	RP11-617F23.1	antisense	15	90074512	90082207	-1	q26.1
ENSG00000140948	-2.135	-4.3925	6.41E-27	1.55E-25	ZCCHC14	zinc finger, protein_co	16	87406246	87492045	-1	q24.2
ENSG00000151208	-2.1367	-4.3975	4.53E-40	4.28E-38	DLG5	discs, large protein_co	10	77790791	77926526	-1	q22.3
ENSG00000154237	-2.1387	-4.4037	1.47E-34	7.53E-33	LRRK1	leucine-ric protein_co	15	1.01E+08	1.01E+08	1	q26.3
ENSG00000154342	-2.1388	-4.4038	1.64E-05	5.93E-05	WNT3A	wingless-ty protein_co	1	2.28E+08	2.28E+08	1	q42.13
ENSG00000102854	-2.139	-4.4047	5.45E-06	2.08E-05	MSLN	mesothelin protein_co	16	643262	768865	1	p13.3
ENSG00000148053	-2.1394	-4.4057	2.06E-06	8.26E-06	NTRK2	neurotrop protein_co	9	84668551	85027070	1	q21.33
ENSG00000148737	-2.1405	-4.4091	3.22E-24	6.02E-23	TCF7L2	transcript protein_co	10	1.13E+08	1.13E+08	1	q25.2
ENSG00000196220	-2.1428	-4.4162	1.52E-50	4.61E-48	SRGAP3	SLIT-ROBO protein_co	3	8980591	9363053	-1	p25.3
ENSG00000133056	-2.1433	-4.4177	1.58E-27	4.02E-26	PIK3C2B	phosphatid protein_co	1	2.04E+08	2.04E+08	-1	q32.1
ENSG00000137857	-2.1437	-4.4189	1.44E-16	1.40E-15	DUOX1	dual oxidas protein_co	15	45129933	45165576	1	q21.1
ENSG00000143614	-2.145	-4.4228	2.91E-25	6.00E-24	GATAD2B	GATA zinc f protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000232098	-2.1454	-4.4242	4.93E-10	2.78E-09	CTD-2619J13.14	lincRNA	19	58404238	58408484	-1	q13.43
ENSG00000177728	-2.1457	-4.4252	2.14E-28	5.91E-27	KIAA0195	KIAA0195 [ protein_co	17	75441159	75500090	1	q25.1
ENSG00000196535	-2.1467	-4.4281	7.95E-40	7.31E-38	MYO18A	myosin XVI protein_co	17	29073517	29180412	-1	q11.2
ENSG00000165548	-2.1468	-4.4286	1.19E-11	7.71E-11	TMEM63C	transmemt protein_co	14	77116568	77259495	1	q24.3
ENSG00000088367	-2.1496	-4.4371	1.89E-37	1.33E-35	EPB41L1	erythrocyt protein_co	20	36091504	36232799	1	q11.23
ENSG00000165238	-2.15	-4.4383	4.74E-17	4.80E-16	WNK2	WNK lysine protein_co	9	93184916	93320572	1	q22.31
ENSG00000171368	-2.1509	-4.441	2.97E-05	0.0001	TPPP	tubulin pol protein_co	5	659862	693395	-1	p15.33
ENSG00000069188	-2.1531	-4.4477	2.76E-09	1.46E-08	SDK2	sidekick cel protein_co	17	73334384	73644089	-1	q25.1
ENSG00000117713	-2.1538	-4.45	1.55E-50	4.63E-48	ARID1A	AT rich inte protein_co	1	26696033	26782104	1	p36.11
ENSG00000179981	-2.156	-4.4568	1.51E-26	3.53E-25	TSHZ1	teashirt zin protein_co	18	75210755	75289950	1	q22.3
ENSG00000147799	-2.1594	-4.4672	2.79E-09	1.47E-08	ARHGAP39	Rho GTPas protein_co	8	1.45E+08	1.45E+08	-1	q24.3
ENSG00000005007	-2.1604	-4.4704	7.65E-61	9.14E-58	UPF1	UPF1 regul. protein_co	19	18831938	18868236	1	p13.11
ENSG00000138439	-2.1607	-4.4713	5.14E-23	8.60E-22	FAM117B	family with protein_co	2	2.03E+08	2.03E+08	1	q33.2

ENSG00000100228	-2.1616	-4.4741	1.86E-05	6.69E-05	RAB36	RAB36, me protein_co	22	23145326	23164350	1	q11.23
ENSG00000197653	-2.1623	-4.4763	6.06E-05	0.0002	DNAH10	dynein, axc protein_co	12	1.24E+08	1.24E+08	1	q24.31
ENSG00000101096	-2.164	-4.4816	7.19E-09	3.65E-08	NFATC2	nuclear fac protein_co	20	51386957	51562831	-1	q13.2
ENSG00000111961	-2.1653	-4.4857	3.23E-39	2.77E-37	SASH1	SAM and SI protein_co	6	1.48E+08	1.49E+08	1	q24.3
ENSG00000165731	-2.1683	-4.4948	7.52E-05	0.0003	RET	ret proto-o protein_co	10	43077027	43130351	1	q11.21
ENSG00000196498	-2.1729	-4.5094	8.39E-29	2.39E-27	NCOR2	nuclear rec protein_co	12	1.24E+08	1.25E+08	-1	q24.31
ENSG00000171791	-2.1832	-4.5418	1.31E-19	1.65E-18	BCL2	B-cell CLL/I protein_co	18	63123346	63320128	-1	q21.33
ENSG00000086758	-2.1846	-4.546	7.00E-50	1.88E-47	HUWE1	HECT, UBA protein_co X		53532096	53686729	-1	p11.22
ENSG00000119596	-2.1931	-4.573	8.35E-40	7.64E-38	YLPM1	YLP motif c protein_co	14	74763366	74859435	1	q24.3
ENSG00000061337	-2.1937	-4.5749	6.57E-12	4.33E-11	LZTS1	leucine zip1 protein_co	8	20246165	20303963	-1	p21.3
ENSG00000182095	-2.1974	-4.5865	3.53E-48	7.75E-46	TNRC18	trinucleotic protein_co	7	5306790	5425414	-1	p22.1
ENSG00000137642	-2.2032	-4.605	4.75E-53	2.04E-50	SORL1	sortilin-rela protein_co	11	1.21E+08	1.22E+08	1	q24.1
ENSG00000095303	-2.2048	-4.6102	1.06E-11	6.90E-11	PTGS1	prostaglan protein_co	9	1.22E+08	1.22E+08	1	q33.2
ENSG00000095539	-2.2071	-4.6175	4.96E-12	3.32E-11	SEMA4G	sema doma protein_co	10	1.01E+08	1.01E+08	1	q24.31
ENSG00000168453	-2.2099	-4.6263	1.19E-09	6.50E-09	HR	hair growth protein_co	8	22114415	22133384	-1	p21.3
ENSG00000160796	-2.2135	-4.6379	1.05E-37	7.62E-36	NBEAL2	neurobead protein_co	3	46979683	47009703	1	p21.31
ENSG00000124496	-2.2145	-4.6413	1.96E-24	3.70E-23	TRERF1	transcriptic protein_co	6	42224931	42452051	-1	p21.1
ENSG00000177084	-2.2233	-4.6695	7.64E-28	1.98E-26	POLE	polymerase protein_co	12	1.33E+08	1.33E+08	-1	q24.33
ENSG00000235663	-2.2241	-4.6722	3.12E-05	0.0001	SAPCD1-AS1	SAPCD1 antisense	6	31764310	31765588	-1	p21.33
ENSG00000105429	-2.2244	-4.6731	6.98E-61	8.83E-58	MEGF8	multiple EC protein_co	19	42325609	42378769	1	q13.2
ENSG00000157388	-2.2255	-4.6767	8.15E-13	5.83E-12	CACNA1D	calcium cha protein_co	3	53494656	53813733	1	p21.1
ENSG00000142599	-2.2264	-4.6798	3.09E-50	8.87E-48	RERE	arginine-gli protein_co	1	8352397	8817643	-1	p36.23
ENSG00000076356	-2.2295	-4.6898	2.53E-34	1.26E-32	PLXNA2	plexin A2 [s protein_co	1	2.08E+08	2.08E+08	-1	q32.2
ENSG00000184634	-2.2305	-4.6931	1.90E-57	1.20E-54	MED12	mediator c protein_co X		71118556	71142454	1	q13.1
ENSG00000231652	-2.2315	-4.6964	0.0001	0.0004	RP11-553A21.3	antisense	6	73693903	73696131	-1	q13
ENSG00000140836	-2.2321	-4.6982	3.34E-33	1.43E-31	ZFHX3	zinc finger l protein_co	16	72782885	73059698	-1	q22.3
ENSG00000099995	-2.2339	-4.7041	7.95E-41	8.15E-39	SF3A1	splicing fac protein_co	22	30331988	30356947	-1	q12.2
ENSG00000099308	-2.2433	-4.7348	4.83E-25	9.74E-24	MAST3	microtubul protein_co	19	18097793	18151692	1	p13.11
ENSG00000036672	-2.2498	-4.7562	1.73E-06	7.02E-06	USP2	ubiquitin s protein_co	11	1.19E+08	1.19E+08	-1	q23.3
ENSG00000165194	-2.2538	-4.7694	6.08E-12	4.03E-11	PCDH19	protocadhe protein_co X		1E+08	1E+08	-1	q22.1
ENSG00000167513	-2.2542	-4.7706	1.94E-05	6.97E-05	CDT1	chromatin l protein_co	16	88803213	88809258	1	q24.3
ENSG00000064393	-2.258	-4.7832	1.06E-46	1.98E-44	HIPK2	homeodor protein_co	7	1.4E+08	1.4E+08	-1	q34
ENSG00000128731	-2.258	-4.7834	7.45E-44	1.00E-41	HERC2	HECT and R protein_co	15	28111040	28322152	-1	q13.1
ENSG00000085872	-2.2588	-4.786	2.32E-29	6.96E-28	CHERP	calcium ho protein_co	19	16517889	16542530	-1	p13.11
ENSG00000110799	-2.2607	-4.7923	3.73E-06	1.46E-05	VWF	von Willeb protein_co	12	5948874	6124770	-1	p13.31
ENSG00000174231	-2.2617	-4.7955	8.39E-52	3.17E-49	PRPF8	pre-mRNA protein_co	17	1650629	1684882	-1	p13.3
ENSG00000142197	-2.2641	-4.8034	1.34E-48	3.10E-46	DOPEY2	dopey fami protein_co	21	36156782	36294274	1	q22.12
ENSG00000107731	-2.2679	-4.8163	1.27E-24	2.45E-23	UNC5B	unc-5 hom protein_co	10	71212570	71302864	1	q22.1
ENSG00000076555	-2.271	-4.8265	8.66E-17	8.64E-16	ACACB	acetyl-CoA protein_co	12	1.09E+08	1.09E+08	1	q24.11
ENSG00000164916	-2.2761	-4.8437	4.53E-38	3.47E-36	FOXK1	forkhead b protein_co	7	4682309	4771443	1	p22.1
ENSG00000164379	-2.2763	-4.8443	4.10E-19	4.92E-18	FOXQ1	forkhead b protein_co	6	1312473	1314187	1	p25.3

ENSG00000186350	-2.2781	-4.8504	8.25E-46	1.37E-43 RXRA	retinoid X r protein_co	9	1.34E+08	1.34E+08	1 q34.2
ENSG00000260539	-2.2815	-4.8618	8.21E-31	2.79E-29 GLG1	golgi glycoꝑ lincRNA	16	74447427	74449892	-1 q23.1
ENSG00000132846	-2.2836	-4.8688	5.77E-16	5.34E-15 ZBED3	zinc finger, protein_co	5	77072072	77087323	-1 q13.3
ENSG00000185008	-2.2857	-4.8762	1.17E-06	4.81E-06 ROBO2	roundabou protein_co	3	75906695	77649964	1 p12.3
ENSG00000124920	-2.2874	-4.8818	1.01E-47	2.10E-45 MYRF	myelin regꝑ protein_co	11	61752642	61788518	1 q12.2
ENSG00000237975	-2.2888	-4.8866	8.97E-16	8.15E-15 FLG-AS1	FLG antiser antisense	1	1.52E+08	1.52E+08	1 q21.3
ENSG00000110400	-2.2928	-4.9002	7.66E-30	2.39E-28 PVRL1	poliovirus r protein_co	11	1.2E+08	1.2E+08	-1 q23.3
ENSG00000122778	-2.3101	-4.9593	2.50E-37	1.73E-35 KIAA1549	KIAA1549 [ protein_co	7	1.39E+08	1.39E+08	-1 q34
ENSG00000215182	-2.316	-4.9795	3.69E-05	0.0001 MUC5AC	mucin 5AC, protein_co	11	1157953	1201138	1 p15.5
ENSG00000185864	-2.3225	-5.0021	9.90E-07	4.12E-06 NPIPBA	nuclear por protein_co	16	21834569	21880827	-1 p12.2
ENSG00000197077	-2.3269	-5.0174	2.42E-48	5.41E-46 KIAA1671	KIAA1671 [ protein_co	22	24952730	25197448	1 q11.23
ENSG00000005339	-2.3283	-5.0221	1.90E-45	3.05E-43 CREBBP	CREB bindiꝑ protein_co	16	3725054	3880726	-1 p13.3
ENSG00000085185	-2.3287	-5.0236	1.64E-20	2.23E-19 BCORL1	BCL6 coreꝑ protein_co X		1.3E+08	1.3E+08	1 q26.1
ENSG00000105738	-2.3313	-5.0324	1.44E-43	1.91E-41 SIPA1L3	signal-indu protein_co	19	37907228	38208372	1 q13.13
ENSG00000186529	-2.3402	-5.0637	2.09E-10	1.22E-09 CYP4F3	cytochromꝑ protein_co	19	15615617	15662825	1 p13.12
ENSG00000148396	-2.3439	-5.0769	1.12E-49	2.91E-47 SEC16A	SEC16 homꝑ protein_co	9	1.36E+08	1.36E+08	-1 q34.3
ENSG00000172534	-2.3462	-5.0848	3.26E-44	4.61E-42 HCFC1	host cell faꝑ protein_co X		1.54E+08	1.54E+08	-1 q28
ENSG00000204396	-2.3485	-5.0931	6.61E-08	3.08E-07 VWA7	von Willebꝑ protein_co	6	31765590	31777294	-1 p21.33
ENSG00000144711	-2.3496	-5.0969	7.09E-51	2.31E-48 IQSEC1	IQ motif anꝑ protein_co	3	12897220	13073117	-1 p25.2
ENSG00000139718	-2.353	-5.1088	2.55E-35	1.38E-33 SETD1B	SET domair protein_co	12	1.22E+08	1.22E+08	1 q24.31
ENSG00000196367	-2.3541	-5.1127	1.31E-47	2.67E-45 TRRAP	formaꝑ protein_co	7	98877933	99013243	1 q22.1
ENSG00000118898	-2.3569	-5.1226	3.64E-31	1.28E-29 PPL	periplakin [ protein_co	16	4882507	4960741	-1 p13.3
ENSG00000037280	-2.3632	-5.1452	4.28E-07	1.84E-06 FLT4	fms-relateꝑ protein_co	5	1.81E+08	1.81E+08	-1 q35.3
ENSG00000260336	-2.3698	-5.1686	6.81E-40	6.28E-38 RP11-395B7.7	sense_over	7	1.01E+08	1.01E+08	1 q22.1
ENSG00000182040	-2.3754	-5.1889	1.78E-06	7.19E-06 USH1G	Usher syndꝑ protein_co	17	74916084	74923256	-1 q25.1
ENSG00000154252	-2.3784	-5.1996	3.59E-05	0.0001 GAL3ST2	galactose-3ꝑ protein_co	2	2.42E+08	2.42E+08	1 q37.3
ENSG00000055118	-2.383	-5.2162	4.35E-05	0.0001 KCNH2	potassium ꝑ protein_co	7	1.51E+08	1.51E+08	-1 q36.1
ENSG00000105426	-2.386	-5.2271	3.89E-31	1.35E-29 PTPRS	protein tyriꝑ protein_co	19	5158495	5340803	-1 p13.3
ENSG00000112379	-2.3868	-5.2299	4.13E-47	8.15E-45 KIAA1244	KIAA1244 [ protein_co	6	1.38E+08	1.38E+08	1 q23.3
ENSG00000122592	-2.3882	-5.2351	2.79E-09	1.47E-08 HOXA7	homeoboxꝑ protein_co	7	27153716	27157936	-1 p15.2
ENSG00000011347	-2.3896	-5.2402	3.07E-28	8.35E-27 SYT7	synaptotagꝑ protein_co	11	61515313	61581148	-1 q12.2
ENSG00000107331	-2.3931	-5.253	2.75E-28	7.50E-27 ABCA2	ATP-bindinꝑ protein_co	9	1.37E+08	1.37E+08	-1 q34.3
ENSG00000108175	-2.3975	-5.2689	1.81E-47	3.64E-45 ZMIZ1	zinc finger, protein_co	10	79069035	79316528	1 q22.3
ENSG00000141905	-2.4025	-5.287	1.24E-51	4.50E-49 NFIC	nuclear facꝑ protein_co	19	3359563	3469217	1 p13.3
ENSG00000198788	-2.4114	-5.32	1.81E-06	7.30E-06 MUC2	mucin 2, olꝑ processed_	11	1074875	1110511	1 p15.5
ENSG00000168269	-2.4156	-5.3355	1.45E-09	7.86E-09 FOXI1	forkhead bꝑ protein_co	5	1.7E+08	1.7E+08	1 q35.1
ENSG00000100350	-2.4208	-5.3549	3.08E-14	2.48E-13 FOXRED2	FAD-depenꝑ protein_co	22	36487190	36507101	-1 q12.3
ENSG00000138162	-2.4284	-5.3828	9.44E-23	1.55E-21 TACC2	transformirꝑ protein_co	10	1.22E+08	1.22E+08	1 q26.13
ENSG00000183248	-2.4328	-5.3996	5.24E-06	2.01E-05 FLJ22184	putative unꝑ protein_co	19	7868719	7874379	-1 p13.2
ENSG00000175161	-2.4511	-5.4682	4.09E-06	1.59E-05 CADM2	cell adhesiꝑ protein_co	3	84958981	86074429	1 p12.1
ENSG00000138131	-2.4665	-5.5272	1.66E-34	8.42E-33 LOXL4	lysyl oxidasꝑ protein_co	10	98247690	98268250	-1 q24.2



ENSG00000134569	-2.4671	-5.5291	1.99E-12	1.37E-11	LRP4	low density protein_co	11	46856868	46918642	-1	p11.2
ENSG00000101144	-2.4741	-5.5562	1.99E-18	2.25E-17	BMP7	bone morp protein_co	20	57168748	57266629	-1	q13.31
ENSG00000092068	-2.4749	-5.5592	1.93E-22	3.08E-21	SLC7A8	solute carri protein_co	14	23125295	23183674	-1	q11.2
ENSG00000167880	-2.4837	-5.5935	1.04E-22	1.69E-21	EVPL	envoplakin protein_co	17	76004502	76027452	-1	q25.1
ENSG00000112902	-2.4933	-5.6308	4.37E-61	6.26E-58	SEMA5A	sema doma protein_co	5	9035026	9546075	-1	p15.31
ENSG00000007516	-2.5013	-5.662	2.51E-07	1.11E-06	BAIAP3	BAI1-associ protein_co	16	1333601	1349438	1	p13.3
ENSG00000227051	-2.5038	-5.6716	1.38E-22	2.22E-21	C14orf132	chromoson lincRNA	14	96039324	96094080	1	q32.2
ENSG00000123384	-2.509	-5.6922	3.15E-25	6.50E-24	LRP1	low density protein_co	12	57128493	57213351	1	q13.3
ENSG00000173898	-2.5105	-5.6983	1.15E-35	6.40E-34	SPTBN2	spectrin, b protein_co	11	66685248	66729226	-1	q13.2
ENSG00000271324	-2.5219	-5.7433	1.31E-07	5.92E-07	RP11-10C24.2	lincRNA	3	33793644	33794145	-1	p22.3
ENSG00000160223	-2.5272	-5.7645	8.82E-09	4.44E-08	ICOSLG	inducible T protein_co	21	44222991	44240966	-1	q22.3
ENSG00000168490	-2.5314	-5.7814	6.99E-13	5.04E-12	PHYHIP	phytanoyl-t protein_co	8	22219704	22232341	-1	p21.3
ENSG00000120738	-2.5427	-5.827	4.20E-40	4.00E-38	EGR1	early growt protein_co	5	1.38E+08	1.38E+08	1	q31.2
ENSG00000103089	-2.5472	-5.8451	5.73E-07	2.44E-06	FA2H	fatty acid 2 protein_co	16	74712955	74774831	-1	q23.1
ENSG00000075673	-2.5633	-5.9106	8.11E-11	4.92E-10	ATP12A	ATPase, H+ protein_co	13	24680411	24712493	1	q12.12
ENSG00000106852	-2.5636	-5.912	1.95E-17	2.04E-16	LHX6	LIM homec protein_co	9	1.22E+08	1.22E+08	-1	q33.2
ENSG00000182580	-2.5763	-5.9642	1.84E-17	1.93E-16	EPHB3	EPH recept protein_co	3	1.85E+08	1.85E+08	1	q27.1
ENSG00000117983	-2.578	-5.9709	3.89E-14	3.10E-13	MUC5B	mucin 5B, c protein_co	11	1223066	1262172	1	p15.5
ENSG00000181222	-2.5791	-5.9757	3.46E-46	6.00E-44	POLR2A	polymerase protein_co	17	7484366	7514618	1	p13.1
ENSG00000179388	-2.5835	-5.9939	6.02E-18	6.56E-17	EGR3	early growt protein_co	8	22687659	22693302	-1	p21.3
ENSG00000186340	-2.6084	-6.0981	1.80E-09	9.70E-09	THBS2	thrombosp protein_co	6	1.69E+08	1.69E+08	-1	q27
ENSG00000148400	-2.64	-6.2332	6.20E-33	2.58E-31	NOTCH1	notch 1 [So protein_co	9	1.36E+08	1.37E+08	-1	q34.3
ENSG00000183495	-2.642	-6.2418	4.93E-61	6.63E-58	EP400	E1A bindin protein_co	12	1.32E+08	1.32E+08	1	q24.33
ENSG00000168447	-2.6426	-6.2445	3.23E-13	2.39E-12	SCNN1B	sodium cha protein_co	16	23278231	23381299	1	p12.2
ENSG00000148204	-2.6528	-6.2887	9.31E-06	3.46E-05	CRB2	crumbs fan protein_co	9	1.23E+08	1.23E+08	1	q33.3
ENSG00000086570	-2.6544	-6.2957	1.65E-32	6.59E-31	FAT2	FAT atypica protein_co	5	1.52E+08	1.52E+08	-1	q33.1
ENSG00000226025	-2.66	-6.3204	4.14E-07	1.79E-06	LGALS17A	Charcot-Lc transcribed	19	39679374	39686373	1	q13.2
ENSG00000008441	-2.6611	-6.3253	8.88E-38	6.56E-36	NFIX	nuclear fac protein_co	19	12995608	13098796	1	p13.13
ENSG00000111206	-2.6657	-6.3455	2.01E-06	8.07E-06	FOXM1	forkhead b protein_co	12	2857681	2877040	-1	p13.33
ENSG00000078900	-2.7019	-6.5064	4.84E-08	2.28E-07	TP73	tumor prot protein_co	1	3652520	3736201	1	p36.32
ENSG00000163909	-2.8148	-7.0361	1.88E-15	1.66E-14	HEYL	hes-related protein_co	1	39624153	39639945	-1	p34.2
ENSG00000074370	-2.8441	-7.1806	3.98E-10	2.26E-09	ATP2A3	ATPase, Ca protein_co	17	3923870	3964464	-1	p13.2
ENSG00000143126	-2.8479	-7.1993	2.52E-39	2.17E-37	CELSR2	cadherin, E protein_co	1	1.09E+08	1.09E+08	1	p13.3
ENSG00000166963	-2.8886	-7.4054	1.04E-07	4.74E-07	MAP1A	microtubul protein_co	15	43510958	43531620	1	q15.3
ENSG00000181143	-2.9437	-7.6937	5.80E-44	7.95E-42	MUC16	mucin 16, c protein_co	19	8848844	8981342	-1	p13.2
ENSG00000184347	-2.9509	-7.7323	1.09E-13	8.36E-13	SLIT3	slit homolo protein_co	5	1.69E+08	1.69E+08	-1	q35.1
ENSG00000115112	-3.0553	-8.3126	5.06E-16	4.72E-15	TFCP2L1	transcriptic protein_co	2	1.21E+08	1.21E+08	-1	q14.2
ENSG00000185585	-3.1031	-8.5929	7.59E-43	9.49E-41	OLFML2A	olfactomec protein_co	9	1.25E+08	1.25E+08	1	q33.3
ENSG00000029534	-3.1952	-9.1589	1.02E-20	1.40E-19	ANK1	ankyrin 1, e protein_co	8	41653220	41896762	-1	p11.21
ENSG00000275395	-3.8889	-14.8146	5.23E-43	6.62E-41	FCGBP	Fc fragmen protein_co	19	39863323	39934626	-1	q13.2

Table S2. RNAseq data from HBEC ALI cultures stimulated with IL-6 compared to non-stimulated control. (q\_BH: adjusted p-value using Benjamini-Hochberg)

Variable	Estimate	FoldChange	RawPvalue	q_BH	Associated Gene Name	Descriptor	Gene type	Chromosome	Gene Start	Gene End	[ Strand	Band
ENSG00000133048	3.0125	8.0699	6.77E-28	1.02E-24	CHI3L1	chitinase 3	protein_co	1	2.03E+08	2.03E+08	-1	q32.1
ENSG00000134551	2.4534	5.4772	1.36E-06	1.15E-05	PRH2	proline-rich	protein_co	12	10929236	10932341	1	p13.2
ENSG00000149968	2.445	5.4451	6.40E-10	1.14E-08	MMP3	matrix met	protein_co	11	1.03E+08	1.03E+08	-1	q22.2
ENSG00000163209	2.4395	5.4244	2.41E-06	1.91E-05	SPRR3	small prolir	protein_co	1	1.53E+08	1.53E+08	1	q21.3
ENSG00000124939	2.3193	4.991	8.43E-07	7.47E-06	SCGB2A1	secretoglol	protein_co	11	62208668	62213939	1	q12.3
ENSG00000205240	2.257	4.7798	1.30E-05	8.79E-05	OR7E36P	olfactory rε	unprocessε	13	41431248	41432201	-1	q14.11
ENSG00000214711	2.1669	4.4905	7.12E-09	1.02E-07	CAPN14	calpain 14	protein_co	2	31173056	31233858	-1	p23.1
ENSG00000064886	2.1347	4.3914	9.08E-09	1.26E-07	CHI3L2	chitinase 3	protein_co	1	1.11E+08	1.11E+08	1	p13.2
ENSG00000170323	2.0859	4.2454	2.41E-05	0.0002	FABP4	fatty acid b	protein_co	8	81478419	81483263	-1	q21.13
ENSG00000212664	2.0737	4.2096	1.41E-07	1.50E-06	RP11-592N21.1		processed_	15	71341158	71341712	-1	q23
ENSG00000169474	2.07	4.1988	6.36E-05	0.0004	SPRR1A	small prolir	protein_co	1	1.53E+08	1.53E+08	1	q21.3
ENSG00000231621	2.0611	4.1729	8.09E-06	5.76E-05	AC013264.2		antisense	2	1.97E+08	1.97E+08	1	q33.1
ENSG00000224445	1.9859	3.9612	9.19E-05	0.0005	RP11-413P11.1		lincRNA	1	99472415	99534015	-1	p21.2
ENSG00000224843	1.9855	3.9599	3.33E-06	2.56E-05	LINC00240		long interg	6	26956992	27023924	1	p22.2
ENSG00000174156	1.9633	3.8994	8.22E-06	5.84E-05	GSTA3	glutathione	protein_co	6	52847910	52909685	-1	p12.2
ENSG00000278763	1.9608	3.8928	0.0001	0.0006	FAM27B	family with	processed_	9	67725690	67725902	-1	q21.11
ENSG00000060718	1.9574	3.8837	0.0001	0.0007	COL11A1	collagen, tγ	protein_co	1	1.03E+08	1.03E+08	-1	p21.1
ENSG00000231533	1.9454	3.8514	0.0002	0.0008	RP1-232L24.3		lincRNA	6	79420297	79421305	1	q14.1
ENSG00000188624	1.9412	3.8403	8.28E-05	0.0005	IGFL3	IGF-like fan	protein_co	19	46120071	46124674	-1	q13.32
ENSG00000257512	1.9329	3.8182	7.15E-05	0.0004	RP11-486A14.1		transcribec	12	93314809	93315941	1	q22
ENSG00000249241	1.9097	3.7572	3.81E-05	0.0002	AC195454.1		lincRNA	4	40316485	40330419	1	p14
ENSG00000257698	1.9088	3.755	3.58E-06	2.74E-05	RP11-620J15.3		lincRNA	12	57931528	57936175	-1	q14.1
ENSG00000171711	1.9085	3.7541	2.53E-06	1.99E-05	DEFB4A	defensin, b	protein_co	8	7894629	7896711	1	p23.1
ENSG00000174898	1.9073	3.7512	3.27E-05	0.0002	CATSPERD	catsper chε	protein_co	19	5720677	5778734	1	p13.3
ENSG00000170054	1.8976	3.7259	5.87E-05	0.0003	SERPINA9	serpin pept	protein_co	14	94462717	94479689	-1	q32.13
ENSG00000244734	1.8897	3.7056	0.0002	0.001	HBB	hemoglobii	protein_co	11	5225464	5229395	-1	p15.4
ENSG00000236824	1.8878	3.7007	4.34E-08	5.19E-07	BCYRN1	brain cytoγ	lincRNA	2	47331060	47344517	1	p21
ENSG00000198848	1.8779	3.6753	0.0003	0.0015	CES1	carboxylesi	protein_co	16	55802851	55833337	-1	q12.2
ENSG00000234478	1.875	3.6681	0.0002	0.001	RP11-275I14.4		antisense	1	2.26E+08	2.26E+08	1	q42.12
ENSG00000163263	1.8669	3.6474	2.59E-05	0.0002	C1orf189	chromosom	protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000140519	1.8485	3.6012	8.47E-05	0.0005	RHCG	Rh family, (	protein_co	15	89471398	89496613	-1	q26.1
ENSG00000126861	1.844	3.59	8.16E-05	0.0005	OMG	oligodendr	protein_co	17	31272013	31297539	-1	q11.2
ENSG00000257542	1.8424	3.586	0.0001	0.0007	OR7E47P	olfactory rε	transcribec	12	52079696	52108261	1	q13.13
ENSG00000233730	1.8317	3.5595	6.13E-05	0.0004	RP4-666F24.3		lincRNA	1	1.15E+08	1.15E+08	1	p13.2

ENSG00000177294	1.8277	3.5497	9.42E-06	6.63E-05	FBXO39	F-box protei	protein_co	17	6776223	6797101	1	p13.1
ENSG00000234692	1.8056	3.4958	0.0003	0.0015	RP11-445L6.3		lincRNA	9	1.15E+08	1.15E+08	-1	q33.1
ENSG00000183691	1.8049	3.4942	0.0001	0.0007	NOG	noggin [Soi	protein_co	17	56593699	56595590	1	q22
ENSG00000123843	1.8039	3.4917	9.66E-07	8.45E-06	C4BPB	complemei	protein_co	1	2.07E+08	2.07E+08	1	q32.1
ENSG00000214514	1.7999	3.4819	0.0004	0.0019	KRT42P	keratin 42	transcribec	17	41626327	41640199	-1	q21.2
ENSG00000004809	1.798	3.4774	0.0005	0.0024	SLC22A16	solute carri	protein_co	6	1.1E+08	1.1E+08	-1	q21
ENSG00000182793	1.7909	3.4602	5.88E-05	0.0003	GSTA5	glutathione	protein_co	6	52831655	52870329	-1	p12.2
ENSG00000186973	1.7875	3.4522	0.0002	0.0012	FAM183A	family with	protein_co	1	43145153	43156396	1	p34.2
ENSG00000150628	1.7784	3.4304	0.0001	0.0006	SPATA4	spermatog	protein_co	4	1.76E+08	1.76E+08	-1	q34.2
ENSG00000231023	1.7685	3.4069	4.82E-05	0.0003	LINC00326	long interg	lincRNA	6	1.33E+08	1.33E+08	1	q23.2
ENSG00000178882	1.7643	3.3971	1.00E-05	6.99E-05	FAM101A	family with	protein_co	12	1.24E+08	1.24E+08	1	q24.31
ENSG00000244067	1.7571	3.3803	1.07E-07	1.17E-06	GSTA2	glutathione	protein_co	6	52750089	52763569	-1	p12.2
ENSG00000258551	1.749	3.3612	0.0008	0.0034	RP11-661P17.1		lincRNA	15	91408708	91605211	1	q26.1
ENSG00000242575	1.7453	3.3527	0.0005	0.0023	AC012501.3		transcribec	2	1.53E+08	1.53E+08	-1	q23.3
ENSG00000136149	1.7424	3.3459	5.47E-10	9.92E-09	RPL13AP25	ribosomal	processed_	13	54440704	54441315	-1	q14.3
ENSG00000188293	1.7335	3.3254	0.0006	0.0028	IGFL1	IGF-like fa	protein_co	19	46229752	46231243	1	q13.32
ENSG00000262406	1.7302	3.3178	1.09E-05	7.52E-05	MMP12	matrix met	protein_co	11	1.03E+08	1.03E+08	-1	q22.2
ENSG00000226594	1.7252	3.3064	0.0009	0.0037	RP11-550C4.6		lincRNA	6	47729827	47740741	-1	p12.3
ENSG00000233068	1.7218	3.2985	0.0006	0.0027	RP1-140K8.1		lincRNA	6	3893126	3894292	1	p25.2
ENSG00000112818	1.7199	3.2942	0.0003	0.0017	MEP1A	mepri	protein_co	6	46793390	46839782	1	p12.3
ENSG00000166959	1.7169	3.2874	0.0001	0.0006	MS4A8	membrane	protein_co	11	60699574	60715811	1	q12.2
ENSG00000203778	1.7155	3.284	1.47E-05	9.83E-05	FAM229B	family with	protein_co	6	1.12E+08	1.12E+08	1	q21
ENSG00000185681	1.7145	3.2819	0.0003	0.0014	MORN5	MORN repi	protein_co	9	1.22E+08	1.22E+08	1	q33.2
ENSG00000185479	1.7143	3.2813	1.96E-06	1.59E-05	KRT6B	keratin 6B	protein_co	12	52446651	52452126	-1	q13.13
ENSG00000176563	1.6979	3.2443	0.0006	0.0027	CNTD1	cyclin N-tei	protein_co	17	42798792	42811587	1	q21.2
ENSG00000263745	1.6966	3.2414	0.0011	0.0045	RP11-161I6.2		lincRNA	18	1883524	2240847	-1	p11.32
ENSG00000253161	1.6952	3.2383	4.01E-06	3.04E-05	RP11-150O12.1		lincRNA	8	37421341	37554183	-1	p11.23
ENSG00000225969	1.6901	3.2267	0.0002	0.0009	ABHD11-AS1	ABHD11 ar	antisense	7	73735038	73736054	1	q11.23
ENSG00000253474	1.6898	3.2262	0.0002	0.0011	RP11-10H3.1		lincRNA	8	49168539	49228925	1	q11.21
ENSG00000006611	1.6897	3.226	0.001	0.0042	USH1C	Usher synd	protein_co	11	17493895	17544416	-1	p15.1
ENSG00000236439	1.6851	3.2156	4.67E-06	3.49E-05	RP11-175B9.3		processed_	1	2.02E+08	2.02E+08	-1	q32.1
ENSG00000261235	1.6844	3.2142	1.49E-05	9.94E-05	RP11-510J16.5		antisense	16	82044336	82139631	-1	q23.3
ENSG00000233762	1.678	3.1998	6.28E-08	7.21E-07	AC007969.5		processed_	2	1.72E+08	1.72E+08	-1	q31.1
ENSG00000204711	1.6739	3.1907	0.0005	0.0022	C9orf135	chromoson	protein_co	9	69820793	69906232	1	q21.12
ENSG00000232415	1.6721	3.1867	0.0002	0.001	CTB-51J22.1		antisense	7	74059576	74062284	-1	q11.23
ENSG00000167552	1.6703	3.1827	1.84E-05	0.0001	TUBA1A	tubulin, al	protein_co	12	49184796	49189324	-1	q13.12
ENSG00000264281	1.6697	3.1815	1.06E-07	1.15E-06	CTD-2031P19.4		processed_	5	55944656	55944733	1	q11.2

ENSG00000244716	1.6612	3.1628	7.79E-07	6.96E-06	RP11-20024.4	processed_	1	1.09E+08	1.09E+08	1	p13.3
ENSG00000165383	1.6575	3.1547	0.0003	0.0017	LRRC18	leucine rich protein_co	10	48909483	48935190	-1	q11.23
ENSG00000230561	1.6567	3.153	0.0004	0.0021	LINC01183	long interg lincRNA	5	1.28E+08	1.28E+08	1	q23.2
ENSG00000173467	1.6557	3.1508	0.0002	0.001	AGR3	anterior gr protein_co	7	16859405	16881987	-1	p21.1
ENSG00000130176	1.6523	3.1433	7.81E-05	0.0004	CNN1	calponin 1, protein_co	19	11538717	11550323	1	p13.2
ENSG00000223551	1.6491	3.1365	0.0007	0.0032	TMSB4XP4	thymosin b processed_	9	1.28E+08	1.28E+08	1	q34.11
ENSG00000236936	1.6441	3.1255	0.0014	0.0056	RP3-329E20.2	antisense	1	21266082	21267251	1	p36.12
ENSG00000248712	1.6434	3.124	0.0002	0.0011	CCDC153	coiled-coil protein_co	11	1.19E+08	1.19E+08	-1	q23.3
ENSG00000213621	1.6401	3.1168	0.0013	0.0051	RPSAP54	ribosomal l processed_	13	20961310	20962195	1	q12.11
ENSG00000235159	1.6374	3.1111	0.0014	0.0057	RP6-109B7.4	lincRNA	22	46067356	46069891	-1	q13.31
ENSG00000165807	1.6368	3.1098	0.0004	0.0018	PPP1R36	protein phosphatase protein_co	14	64549902	64589380	1	q23.3
ENSG00000176732	1.6314	3.0981	0.0002	0.0011	PFN4	profilin family protein_co	2	24115371	24123477	-1	p23.3
ENSG00000133110	1.6224	3.079	2.37E-05	0.0002	POSTN	periostin, c protein_co	13	37562583	37598844	-1	q13.3
ENSG00000166535	1.6194	3.0724	0.0008	0.0035	A2ML1	alpha-2-macroglobulin protein_co	12	8822472	8887001	1	p13.31
ENSG00000198353	1.6183	3.07	0.0014	0.0058	HOXC4	homeobox protein_co	12	54016931	54056030	1	q13.13
ENSG00000168589	1.617	3.0674	0.0009	0.0037	DYNLRB2	dynein, light chain protein_co	16	80540734	80550760	1	q23.2
ENSG00000189134	1.614	3.061	2.48E-06	1.96E-05	NKAPL	NFkB activator protein_co	6	28259320	28260958	1	p22.1
ENSG00000227081	1.6138	3.0607	4.87E-10	8.93E-09	RP11-543P15.1	processed_	12	3211663	3211917	-1	p13.32
ENSG00000166171	1.6091	3.0505	1.33E-05	8.98E-05	DPCD	deleted in chromosome 1 protein_co	10	1.02E+08	1.02E+08	1	q24.32
ENSG00000100162	1.6061	3.0442	0.0003	0.0013	CENPM	centromere protein_co	22	41938721	41947164	-1	q13.2
ENSG00000212802	1.6029	3.0374	2.67E-10	5.24E-09	RPL15P3	ribosomal protein_l processed_	6	12514110	12514724	1	p24.1
ENSG00000253660	1.6022	3.0361	0.0011	0.0046	CTC-353G13.1	antisense	5	1.68E+08	1.68E+08	-1	q34
ENSG00000267795	1.6015	3.0346	1.12E-07	1.21E-06	SMIM22	small integ protein_co	16	4788397	4796491	1	p13.3
ENSG00000228541	1.6013	3.0342	0.001	0.0043	AC093159.1	lincRNA	2	62463127	62464070	1	p15
ENSG00000160345	1.6002	3.0319	0.0006	0.0028	C9orf116	chromosome 9 protein_co	9	1.35E+08	1.36E+08	-1	q34.3
ENSG00000171564	1.599	3.0293	0.0005	0.0022	FGF	fibrinogen protein_co	4	1.55E+08	1.55E+08	1	q31.3
ENSG00000255823	1.5983	3.0278	1.20E-08	1.61E-07	MTRNR2L8	MT-RNR2-L protein_co	11	10507887	10509189	-1	p15.4
ENSG00000227053	1.5927	3.0161	0.0012	0.005	RP11-395B7.4	antisense	7	1.01E+08	1.01E+08	-1	q22.1
ENSG00000267275	1.5927	3.0161	0.0022	0.0081	CTD-2562J15.6	antisense	19	16283359	16324514	-1	p13.11
ENSG00000171695	1.5909	3.0124	0.0008	0.0036	LKAAEAR1	LKAAEAR repeat protein_co	20	64083380	64084359	-1	q13.33
ENSG00000118785	1.5883	3.0069	0.0005	0.0021	SPP1	secreted phospholipase protein_co	4	87975650	87983426	1	q22.1
ENSG00000229119	1.5824	2.9947	3.59E-05	0.0002	CTB-63M22.1	processed_	5	1.66E+08	1.66E+08	1	q34
ENSG00000188010	1.5788	2.9873	8.60E-05	0.0005	MORN2	MORN repeat protein_co	2	38875962	38929072	1	p22.1
ENSG00000255029	1.5784	2.9863	0.0014	0.0056	CTD-3012A18.1	lincRNA	11	29519076	29552639	1	p14.1
ENSG00000227857	1.5757	2.9808	0.0018	0.0069	RP4-533D7.5	antisense	1	46134531	46139081	1	p34.1
ENSG00000136231	1.5751	2.9795	0.0002	0.001	IGF2BP3	insulin-like protein_co	7	23310209	23470467	-1	p15.3
ENSG00000106066	1.5745	2.9783	0.0006	0.0026	CPVL	carboxypeptidase protein_co	7	28995231	29195451	-1	p14.3

ENSG00000205277	1.5744	2.9782	0.0012	0.005 MUC12	mucin 12, c protein_co	7	1.01E+08	1.01E+08	1 q22.1
ENSG00000243587	1.5744	2.9781	0.0013	0.0053 C6orf183	chromosom polymorph	6	1.09E+08	1.09E+08	1 q21
ENSG00000177994	1.5734	2.9761	0.0007	0.0029 C2orf73	chromosom protein_co	2	54330034	54383742	1 p16.2
ENSG00000253807	1.572	2.9731	0.0025	0.0091 LINC01170	long interg lincRNA	5	1.24E+08	1.24E+08	-1 q23.2
ENSG00000234936	1.5706	2.9703	0.0022	0.0084 AC010883.5	antisense	2	43229573	43233394	1 p21
ENSG00000100218	1.5662	2.9613	0.0009	0.004 RSPH14	radial spok protein_co	22	23059415	23145021	-1 q11.23
ENSG00000153347	1.5648	2.9584	0.0011	0.0045 FAM81B	family with protein_co	5	95391344	95450454	1 q15
ENSG00000257057	1.5621	2.9528	0.0003	0.0016 C11orf97	chromosom lincRNA	11	94512581	94532123	1 q21
ENSG00000262624	1.5621	2.9528	0.0026	0.0094 RP11-104H15.9	antisense	17	7436557	7437523	-1 p13.1
ENSG00000278817	1.5608	2.9502	1.95E-05	0.0001 DGCR6	DiGeorge s protein_co	KI270734.1	131494	137392	1
ENSG00000258752	1.5591	2.9467	0.0011	0.0046 RP11-356K23.1	antisense	14	89350285	89364699	1 q32.11
ENSG00000267737	1.557	2.9424	0.0016	0.0064 AC061992.2	lincRNA	17	78315729	78347798	1 q25.3
ENSG00000228221	1.5569	2.9421	0.0009	0.0039 LINC00578	long interg lincRNA	3	1.77E+08	1.78E+08	1 q26.32
ENSG00000133665	1.5565	2.9415	0.0015	0.0058 DYDC2	DPY30 don protein_co	10	80344745	80368073	1 q23.1
ENSG00000186471	1.5536	2.9355	0.0012	0.0051 AKAP14	A kinase (P protein_co X		1.2E+08	1.2E+08	1 q24
ENSG00000226221	1.5521	2.9325	5.71E-05	0.0003 AC022431.1	processed_	5	56504635	56505072	-1 q11.2
ENSG00000226524	1.5505	2.9293	5.31E-05	0.0003 C6orf164	chromosom protein_co	6	87322605	87399749	1 q15
ENSG00000124614	1.5496	2.9274	7.46E-13	2.66E-11 RPS10	ribosomal l protein_co	6	34417454	34426125	-1 p21.31
ENSG00000154269	1.5471	2.9222	3.50E-07	3.38E-06 ENPP3	ectonucleo protein_co	6	1.32E+08	1.32E+08	1 q23.2
ENSG00000178796	1.5463	2.9207	0.0014	0.0057 RIIAD1	regulatory protein_co	1	1.52E+08	1.52E+08	1 q21.3
ENSG00000263450	1.5409	2.9098	0.0016	0.0061 RP11-680N20.1	antisense	18	32954075	32957998	1 q12.1
ENSG00000205057	1.5392	2.9064	0.0018	0.0068 CLLU10S	chronic lyn protein_co	12	92420094	92428148	-1 q22
ENSG00000205155	1.5382	2.9043	1.56E-05	0.0001 PSENEN	presenilin e protein_co	19	35745114	35747519	1 q13.12
ENSG00000122194	1.5381	2.9042	0.003	0.0109 PLG	plasminoge protein_co	6	1.61E+08	1.61E+08	1 q26
ENSG00000184385	1.5381	2.9041	0.0017	0.0067 UMODL1-AS1	UMODL1 a sense_ovei	21	42102134	42108534	-1 q22.3
ENSG00000166670	1.5366	2.9012	1.14E-05	7.86E-05 MMP10	matrix met protein_co	11	1.03E+08	1.03E+08	-1 q22.2
ENSG00000093134	1.5348	2.8975	4.09E-06	3.09E-05 VNN3	vanin 3 [So protein_co	6	1.33E+08	1.33E+08	-1 q23.2
ENSG00000187689	1.5335	2.8948	0.0003	0.0013 AMTN	amelotin [s protein_co	4	70518540	70532742	1 q13.3
ENSG00000275676	1.5331	2.894	0.0032	0.0115 RP11-101E5.1	lincRNA	9	61229913	61231863	-1 q12
ENSG00000106772	1.528	2.8839	0.0011	0.0046 PRUNE2	prune hom protein_co	9	76611376	76906087	-1 q21.2
ENSG00000170469	1.5238	2.8754	3.36E-05	0.0002 SPATA24	spermatog protein_co	5	1.39E+08	1.39E+08	-1 q31.2
ENSG00000151388	1.5215	2.8708	0.0027	0.0099 ADAMTS12	ADAM met protein_co	5	33523535	33892192	-1 p13.2
ENSG00000177791	1.5188	2.8655	0.0013	0.0053 MYOZ1	myozenin 1 protein_co	10	73631654	73641757	-1 q22.2
ENSG00000109846	1.5187	2.8654	1.09E-06	9.39E-06 CRYAB	crystallin, a protein_co	11	1.12E+08	1.12E+08	-1 q23.1
ENSG00000137434	1.5184	2.8647	0.0014	0.0055 C6orf52	chromosom protein_co	6	10671418	10694797	-1 p24.2
ENSG00000231738	1.5184	2.8647	0.0015	0.0061 TSPAN19	tetraspanin protein_co	12	85014311	85036277	-1 q21.31
ENSG00000166396	1.5183	2.8646	1.18E-05	8.08E-05 SERPINB7	serpin pepi protein_co	18	63752935	63805376	1 q21.33



ENSG00000152611	1.5175	2.863	0.0017	0.0067 CAPSL	calcyphosir protein_co	5	35904295	35938779	-1 p13.2
ENSG00000186198	1.5138	2.8557	0.0017	0.0066 SLC51B	solute carri protein_co	15	65045370	65053396	1 q22.31
ENSG00000163017	1.5135	2.855	0.0035	0.0124 ACTG2	actin, gamr protein_co	2	73892314	73919865	1 p13.1
ENSG00000232192	1.5132	2.8544	0.003	0.0107 RP11-62I21.1	antisense	1	2.45E+08	2.45E+08	-1 q44
ENSG00000272138	1.5129	2.8538	0.0009	0.004 RP11-27N21.3	lincRNA	8	79768142	79802842	1 q21.13
ENSG00000232079	1.5108	2.8496	0.0014	0.0057 AL035610.1	processed_	21	28048414	28137611	1 q21.3
ENSG00000255122	1.5076	2.8434	0.0019	0.0072 RP11-303G3.6	processed_	8	12580287	12581063	1 p23.1
ENSG00000108641	1.5065	2.8413	0.0001	0.0008 B9D1	B9 protein protein_co	17	19337554	19378182	-1 p11.2
ENSG00000210112	1.5051	2.8385	0.0002	0.0009 MT-TM	mitochond Mt_tRNA MT		4402	4469	1
ENSG00000277749	1.5049	2.838	0.002	0.0076 RP11-60L3.6	antisense	15	74311516	74319688	-1 q24.1
ENSG00000261465	1.5042	2.8367	0.0028	0.01 RP11-626G11.5	antisense	16	19062499	19067691	-1 p12.3
ENSG00000134548	1.4985	2.8256	0.0016	0.0062 SPX	spexin horr protein_co	12	21526307	21537377	1 p12.1
ENSG00000205622	1.4985	2.8255	0.0022	0.0081 AF064858.6	lincRNA	21	38877291	38956467	-1 q22.2
ENSG00000178053	1.4982	2.825	0.0002	0.001 MLF1	myeloid lei protein_co	3	1.59E+08	1.59E+08	1 q25.32
ENSG00000166415	1.498	2.8246	0.0024	0.0089 WDR72	WD repeat protein_co	15	53513741	53762878	-1 q21.3
ENSG00000233532	1.4954	2.8195	0.003	0.0108 LINC00460	long interg lincRNA	13	1.06E+08	1.06E+08	1 q33.2
ENSG00000270379	1.4949	2.8185	0.0032	0.0115 HEATR9	HEAT repe: protein_co	17	35854946	35868891	-1 q12
ENSG00000271065	1.493	2.8148	0.0038	0.0131 RP11-607P23.1	antisense	12	51421956	51424611	-1 q13.13
ENSG00000260228	1.4914	2.8115	0.0009	0.0039 RP11-483P21.2	antisense	16	83789967	83807834	-1 q23.3
ENSG00000164972	1.4906	2.8101	0.0027	0.0098 C9orf24	chromoson protein_co	9	34379019	34397832	-1 p13.3
ENSG00000172426	1.4899	2.8088	0.0024	0.0091 RSPH9	radial spok protein_co	6	43645046	43672599	1 p21.1
ENSG00000090104	1.487	2.8031	0.0037	0.0129 RGS1	regulator o protein_co	1	1.93E+08	1.93E+08	1 q31.2
ENSG00000147206	1.4868	2.8027	0.0038	0.0132 NXF3	nuclear RN protein_co X		1.03E+08	1.03E+08	-1 q22.1
ENSG00000277235	1.4836	2.7965	0.0043	0.0148 RP4-550H1.7	lincRNA	20	36064243	36064563	-1 q11.23
ENSG00000203799	1.4836	2.7964	0.0036	0.0127 CCDC162P	coiled-coil unitary_psi	6	1.09E+08	1.09E+08	1 q21
ENSG00000255364	1.4828	2.7949	0.0037	0.0128 RP11-94A24.1	lincRNA	8	1.22E+08	1.22E+08	-1 q24.13
ENSG00000146677	1.4802	2.7899	0.0001	0.0007 AC004453.8	processed_	7	44467897	44468304	1 p13
ENSG00000170509	1.4797	2.789	0.0006	0.0026 HSD17B13	hydroxyste protein_co	4	87303789	87322906	-1 q22.1
ENSG00000002079	1.4796	2.7887	0.0002	0.0008 MYH16	myosin, he unitary_psi	7	99238794	99311130	1 q22.1
ENSG00000173077	1.4764	2.7826	0.0002	0.0009	01-Dec deleted in (protein_co	9	1.15E+08	1.15E+08	1 q33.1
ENSG00000232472	1.4711	2.7723	3.52E-08	4.29E-07 EEF1B2P3	eukaryotic processed_X		24788392	24789069	-1 p22.11
ENSG00000235552	1.471	2.7721	8.24E-13	2.91E-11 RPL6P27	ribosomal  transcribec	18	6462144	6463015	-1 p11.31
ENSG00000215187	1.4701	2.7705	0.0023	0.0085 FAM166B	family with protein_co	9	35561831	35563899	-1 p13.3
ENSG00000277893	1.4699	2.77	0.0019	0.0073 SRD5A2	steroid-5-a protein_co	2	31522480	31581067	-1 p23.1
ENSG00000206072	1.4694	2.7691	0.0002	0.0012 SERPINB11	serpin pepi protein_co	18	63647579	63726432	1 q21.33
ENSG00000163001	1.4684	2.7671	8.23E-07	7.31E-06 CFAP36	cilia and fla protein_co	2	55519604	55545879	1 p16.1
ENSG00000124116	1.4609	2.7529	7.28E-05	0.0004 WFDC3	WAP four-( protein_co	20	45747944	45791932	-1 q13.12

ENSG00000154537	1.4598	2.7507	0.0028	0.0103 FAM27C	family with protein_co	9	61854162	61855331	1 q13
ENSG00000100012	1.4593	2.7498	0.0038	0.013 SEC14L3	SEC14-like protein_co	22	30447959	30472049	-1 q12.2
ENSG00000129538	1.4593	2.7497	2.54E-06	2.00E-05 RNASE1	ribonuclea:protein_co	14	20801228	20803278	-1 q11.2
ENSG00000137970	1.458	2.7473	3.95E-12	1.16E-10 RPL7P9	ribosomal  processed_	1	96678874	96679620	-1 p21.3
ENSG00000167858	1.458	2.7473	0.0028	0.0102 TEK1	tektin 1 [Sc protein_co	17	6789133	6831761	-1 p13.1
ENSG00000228857	1.4577	2.7466	0.0049	0.0163 AC104653.1	lincRNA	2	1.14E+08	1.14E+08	-1 q14.1
ENSG00000234498	1.4558	2.7431	9.56E-05	0.0005 RPL13AP20	ribosomal  processed_	12	12875499	12876107	1 p13.1
ENSG00000205246	1.4553	2.742	4.40E-08	5.25E-07 RPSAP58	ribosomal  protein_co	19	23763005	23828135	1 p12
ENSG00000132854	1.4537	2.7391	0.0002	0.0009 KANK4	KN motif ai protein_co	1	62236979	62319414	-1 p31.3
ENSG00000263011	1.4506	2.7333	0.0037	0.0129 RP11-473M20.11	sense_ovei	16	3106764	3109576	1 p13.3
ENSG00000258560	1.4486	2.7294	0.0052	0.0171 CTD-2376I20.1	antisense	14	1E+08	1E+08	-1 q32.2
ENSG00000179902	1.4473	2.7269	0.0027	0.0099 C1orf194	chromoson protein_co	1	1.09E+08	1.09E+08	-1 p13.3
ENSG00000237429	1.4468	2.7261	0.0047	0.0159 RP1-159A19.4	antisense	1	27525805	27530561	1 p36.11
ENSG00000228742	1.4453	2.7232	0.0044	0.0148 RP5-884M6.1	lincRNA	7	1.07E+08	1.07E+08	1 q22.3
ENSG00000197826	1.445	2.7227	0.0016	0.0064 C4orf22	chromoson protein_co	4	80335720	80963756	1 q21.21
ENSG00000128581	1.4426	2.7181	4.32E-05	0.0003 IFT22	intraflagell. protein_co	7	1.01E+08	1.01E+08	-1 q22.1
ENSG0000025423	1.4418	2.7166	0.0018	0.0069 HSD17B6	hydroxyste protein_co	12	56752161	56787790	1 q13.3
ENSG00000146453	1.4405	2.7142	0.0055	0.0182 PNLDC1	poly(A)-spe protein_co	6	1.6E+08	1.6E+08	1 q25.3
ENSG00000133636	1.4375	2.7085	0.0005	0.0024 NTS	neurotensi protein_co	12	85874295	85882992	1 q21.31
ENSG00000229124	1.4359	2.7054	0.0005	0.0022 VIM-AS1	VIM antisense antisense	10	17214239	17229985	-1 p13
ENSG00000205426	1.4339	2.7018	0.0005	0.0024 KRT81	keratin 81  protein_co	12	52285913	52291534	-1 q13.13
ENSG00000181123	1.4323	2.6987	0.0038	0.0132 RP4-539M6.14	antisense	22	30475364	30492804	1 q12.2
ENSG00000225826	1.4291	2.6927	0.0031	0.0112 LINC00626	long interg lincRNA	1	1.69E+08	1.69E+08	1 q24.2
ENSG00000243836	1.4279	2.6905	0.0019	0.0073 WDR86-AS1	WDR86 ant processed_	7	1.51E+08	1.51E+08	1 q36.1
ENSG00000260549	1.4263	2.6876	7.40E-05	0.0004 MT1L	metallothic unitary_psi	16	56617476	56618818	1 q13
ENSG00000204644	1.4256	2.6863	0.0013	0.0054 ZFP57	ZFP57 zinc protein_co	6	29672392	29681110	-1 p22.1
ENSG00000263639	1.4239	2.6832	0.0013	0.0053 MSMB	microsemir protein_co	10	46033307	46046269	-1 q11.22
ENSG00000140287	1.4186	2.6733	0.0062	0.0202 HDC	histidine de protein_co	15	50241947	50266026	-1 q21.2
ENSG00000198838	1.4175	2.6713	0.0044	0.0149 RYR3	ryanodine  protein_co	15	33310962	33866102	1 q13.3
ENSG00000166069	1.416	2.6685	0.0011	0.0046 TMC05A	transmemk protein_co	15	37921939	37967724	1 q14
ENSG00000277639	1.4143	2.6653	0.0032	0.0115 RP11-295M3.4	lincRNA	16	53043066	53044216	-1 q12.2
ENSG00000245248	1.4124	2.6617	0.002	0.0077 USP2-AS1	USP2 antis antisense	11	1.19E+08	1.2E+08	1 q23.3
ENSG00000268566	1.4119	2.6609	0.0035	0.0122 RP11-687D19.1	lincRNA	18	38655209	38687998	-1 q12.2
ENSG00000123977	1.4074	2.6526	0.0035	0.0124 DAW1	dynein ass protein_co	2	2.28E+08	2.28E+08	1 q36.3
ENSG00000105519	1.4067	2.6513	0.0025	0.0092 CAPS	calcyphosir protein_co	19	5911707	5916208	1 p13.3
ENSG00000123610	1.4063	2.6506	0.0007	0.0032 TNFAIP6	tumor necr protein_co	2	1.51E+08	1.51E+08	1 q23.3
ENSG00000102802	1.4056	2.6493	0.0002	0.0008 MEDAG	mesenteric protein_co	13	30906191	30925572	1 q12.3

ENSG00000204889	1.4054	2.6489	0.0007	0.003 KRT40	keratin 40  protein_co	17	40977716	40987135	-1 q21.2
ENSG00000266312	1.4048	2.6478	0.0067	0.0215 RP11-111H3.3	lincRNA	18	76623006	76639011	-1 q23
ENSG00000259925	1.4046	2.6474	0.0021	0.008 CTA-363E6.2	lincRNA	16	19343647	19401693	-1 p12.3
ENSG00000217094	1.4043	2.6469	0.0002	0.0011 PPIAP31	peptidylproc processed_	10	32188323	32188817	-1 p11.22
ENSG00000249481	1.4027	2.644	0.0055	0.0182 SPATS1	spermatog protein_co	6	44342660	44377167	1 p21.1
ENSG00000225298	1.4021	2.6429	0.0048	0.0162 LINC00113	long interg lincRNA	21	27722379	27751233	1 q21.3
ENSG00000263266	1.4006	2.6401	3.00E-05	0.0002 RPS7P1	ribosomal  processed_	17	28467822	28468406	1 q11.2
ENSG00000132204	1.3998	2.6386	0.0046	0.0156 LINC00470	long interg lincRNA	18	1254383	1408344	-1 p11.32
ENSG00000232573	1.3989	2.637	7.20E-07	6.48E-06 RPL3P4	ribosomal  processed_	14	98972879	98973301	-1 q32.2
ENSG00000152467	1.3967	2.6329	0.0064	0.0206 ZSCAN1	zinc finger protein_co	19	58034032	58054631	1 q13.43
ENSG00000118096	1.3962	2.6321	1.57E-06	1.30E-05 IFT46	intraflagell. protein_co	11	1.19E+08	1.19E+08	-1 q23.3
ENSG00000173947	1.394	2.628	0.0039	0.0134 PIFO	primary cili protein_co	1	1.11E+08	1.11E+08	1 p13.2
ENSG00000080572	1.3936	2.6274	0.0047	0.0158 PIH1D3	PIH1 doma protein_co X		1.07E+08	1.07E+08	1 q22.3
ENSG00000272519	1.3923	2.625	0.0071	0.0224 RP11-105N14.2	lincRNA	2	2.13E+08	2.13E+08	-1 q34
ENSG00000258788	1.3916	2.6237	0.0054	0.0178 RP11-404P21.9	processed_	14	96223108	96223347	1 q32.2
ENSG00000124102	1.3911	2.6227	4.00E-14	1.94E-12 PI3	peptidase i protein_co	20	45174876	45176544	1 q13.12
ENSG00000137673	1.3905	2.6217	8.43E-05	0.0005 MMP7	matrix met protein_co	11	1.03E+08	1.03E+08	-1 q22.2
ENSG00000198937	1.388	2.6171	5.12E-18	6.49E-16 CCDC167	coiled-coil  protein_co	6	37482920	37499922	-1 p21.2
ENSG00000177257	1.3879	2.617	0.0018	0.007 DEFB4B	defensin, b protein_co	8	7414860	7416863	-1 p23.1
ENSG00000174792	1.3853	2.6123	0.0033	0.0117 C4orf26	chromoson protein_co	4	75556048	75565885	1 q21.1
ENSG00000130203	1.3848	2.6114	0.0005	0.0022 APOE	apolipopro protein_co	19	44905754	44909393	1 q13.32
ENSG00000132965	1.384	2.6099	0.0043	0.0145 ALOX5AP	arachidona protein_co	13	30713478	30764426	1 q12.3
ENSG00000112530	1.3834	2.6089	0.0046	0.0155 PACRG	PARK2 co-r protein_co	6	1.63E+08	1.63E+08	1 q26
ENSG00000119703	1.3815	2.6054	0.002	0.0077 ZC2HC1C	zinc finger, protein_co	14	75064170	75079987	1 q24.3
ENSG00000204334	1.3789	2.6006	0.0042	0.0143 ERICH2	glutamate- protein_co	2	1.71E+08	1.71E+08	1 q31.1
ENSG00000249931	1.3783	2.5997	0.0078	0.0244 GOLGA8K	golgin A8 f: protein_co	15	32392782	32403292	-1 q13.3
ENSG00000259359	1.3768	2.5969	0.0047	0.0158 RP11-327J17.2	lincRNA	15	96171581	96174339	1 q26.2
ENSG00000163424	1.3756	2.5948	0.0081	0.0251 C3orf30	chromoson protein_co	3	1.19E+08	1.19E+08	1 q13.32
ENSG00000157150	1.3753	2.5943	0.0055	0.018 TIMP4	TIMP meta protein_co	3	12153051	12159351	-1 p25.2
ENSG00000179071	1.3742	2.5922	0.0041	0.0142 CCDC89	coiled-coil  protein_co	11	85684866	85686277	-1 q14.1
ENSG00000272981	1.3741	2.592	0.0038	0.0132 CTD-2234N14.2	lincRNA	11	1.27E+08	1.27E+08	1 q24.2
ENSG00000259120	1.3736	2.5911	0.0039	0.0134 SMIM6	small integ protein_co	17	75646243	75647977	1 q25.1
ENSG00000258279	1.3729	2.59	0.0066	0.0212 LINC00592	long interg lincRNA	12	52210930	52223804	1 q13.13
ENSG00000179826	1.3729	2.5898	0.0014	0.0057 MRGPRX3	MAS-relate protein_co	11	18120955	18138480	1 p15.1
ENSG00000260969	1.3717	2.5878	0.0082	0.0254 RP11-190D6.2	antisense	16	78237362	78241218	-1 q23.1
ENSG00000265752	1.3705	2.5857	0.0079	0.0246 RP11-403A21.1	lincRNA	18	23957754	23982556	-1 q11.2
ENSG00000147400	1.3673	2.5799	0.0002	0.0008 CETN2	centrin, EF- protein_co X		1.53E+08	1.53E+08	-1 q28

ENSG00000149380	1.3668	2.5789	0.0044	0.0149 P4HA3	prolyl 4-hy protein_co	11	74235801	74311657	-1 q13.4
ENSG00000072818	1.3666	2.5786	0.0021	0.0079 ACAP1	ArfGAP wit protein_co	17	7336529	7351478	1 p13.1
ENSG00000243422	1.3648	2.5754	2.33E-05	0.0001 RP11-413E6.1	processed_	3	75624686	75625153	-1 p12.3
ENSG00000064199	1.3636	2.5732	0.0009	0.0039 SPA17	sperm autc protein_co	11	1.25E+08	1.25E+08	1 q24.2
ENSG00000135549	1.363	2.5721	8.31E-05	0.0005 PKIB	protein kin protein_co	6	1.22E+08	1.23E+08	1 q22.31
ENSG00000259426	1.3629	2.5721	0.0019	0.0073 RP11-253M7.1	antisense	15	69396904	69415029	-1 q23
ENSG00000188931	1.3627	2.5717	0.0056	0.0184 CFAP126	cilia and fla protein_co	1	1.61E+08	1.61E+08	-1 q23.3
ENSG00000166741	1.3625	2.5713	0.005	0.0167 NNMT	nicotinami protein_co	11	1.14E+08	1.14E+08	1 q23.2
ENSG00000183346	1.3622	2.5707	0.004	0.0138 C10orf107	chromoson protein_co	10	61662961	61766766	1 q21.2
ENSG00000119632	1.3617	2.57	1.32E-22	6.20E-20 IFI27L2	interferon, protein_co	14	94127779	94130253	-1 q32.12
ENSG00000065325	1.3617	2.5698	0.0081	0.0253 GLP2R	glucagon-li protein_co	17	9822206	9892102	1 p13.1
ENSG00000255325	1.361	2.5686	0.0085	0.0264 RP11-96B2.1	lincRNA	8	1.22E+08	1.22E+08	-1 q24.13
ENSG00000102265	1.3608	2.5683	1.54E-12	5.05E-11 TIMP1	TIMP meta protein_co X		47582313	47586789	1 p11.3
ENSG00000187726	1.3603	2.5674	0.0036	0.0127 DNAJB13	DnaJ (Hsp4 protein_co	11	73950319	73970366	1 q13.4
ENSG00000167644	1.3597	2.5662	2.11E-11	5.25E-10 C19orf33	chromoson protein_co	19	38304161	38305009	1 q13.2
ENSG00000112981	1.3575	2.5624	0.0011	0.0046 NME5	NME/NM2 protein_co	5	1.38E+08	1.38E+08	-1 q31.2
ENSG00000231119	1.357	2.5616	0.0027	0.01 RP4-569M23.2	antisense	20	47352561	47354633	1 q13.12
ENSG00000232537	1.3554	2.5588	0.009	0.0278 RP11-385M4.1	lincRNA	1	2.09E+08	2.09E+08	-1 q32.2
ENSG00000228723	1.3549	2.5578	0.0055	0.0181 SRGAP3-AS2	SRGAP3 an antisense	3	9192493	9194453	1 p25.3
ENSG00000254427	1.3547	2.5575	0.0055	0.018 RP11-430H10.1	lincRNA	11	45355371	45366121	1 p11.2
ENSG00000234022	1.3542	2.5566	0.0091	0.0278 AC008278.2	antisense	2	15564170	15573868	1 p24.3
ENSG00000227220	1.3533	2.5549	0.009	0.0276 RP11-6918.3	antisense	6	1.32E+08	1.32E+08	1 q23.2
ENSG00000279965	1.3531	2.5546	0.005	0.0168 RP11-472K17.3	TEC	13	1.1E+08	1.1E+08	1 q34
ENSG00000260953	1.3521	2.5528	0.0091	0.028 RP11-426C22.6	lincRNA	16	29262273	29264479	-1 p11.2
ENSG00000123689	1.3506	2.5503	4.58E-05	0.0003 G0S2	G0/G1 swit protein_co	1	2.1E+08	2.1E+08	1 q32.2
ENSG00000105988	1.3506	2.5501	0.0073	0.023 NHP2P1	NHP2 ribor processed_	10	92216332	92216793	1 q23.32
ENSG00000254038	1.3505	2.55	0.0078	0.0245 RP11-419C23.1	lincRNA	8	37067441	37069418	-1 p11.23
ENSG00000136167	1.3493	2.548	0.0019	0.0072 LCP1	lymphocyt protein_co	13	46125920	46211871	-1 q14.13
ENSG00000049249	1.3472	2.5441	0.0035	0.0123 TNFRSF9	tumor necr protein_co	1	7915894	7943165	-1 p36.23
ENSG00000259225	1.3472	2.5441	0.0037	0.0129 RP11-1008C21.1	lincRNA	15	37984766	38062340	1 q14
ENSG00000169469	1.3464	2.5428	0.0007	0.0031 SPRR1B	small prolir protein_co	1	1.53E+08	1.53E+08	1 q21.3
ENSG00000186352	1.3462	2.5423	0.0017	0.0065 ANKRD37	ankyrin ref protein_co	4	1.85E+08	1.85E+08	1 q35.1
ENSG00000228395	1.3455	2.5412	0.004	0.0137 RP11-216B9.6	antisense	9	1.29E+08	1.29E+08	-1 q34.11
ENSG00000163216	1.3451	2.5405	0.0029	0.0105 SPRR2D	small prolir protein_co	1	1.53E+08	1.53E+08	-1 q21.3
ENSG00000224961	1.3449	2.5402	0.0003	0.0014 RP1-278O22.1	lincRNA	20	10753090	10753966	1 p12.2
ENSG00000261040	1.3437	2.538	5.83E-11	1.32E-09 WFDC21P	WAP four-processed_	17	60083566	60091885	-1 q23.1
ENSG00000259264	1.3424	2.5357	2.27E-05	0.0001 RP11-60L3.1	antisense	15	74202705	74221557	1 q24.1

ENSG00000111341	1.3422	2.5354	6.54E-06	4.76E-05	MGP	matrix Gla protein_co	12	14881181	14885926	-1	p12.3
ENSG00000108958	1.3416	2.5344	0.0028	0.0103	AC016292.3	processed_	17	1858039	1858446	-1	p13.3
ENSG00000260908	1.3416	2.5344	0.0044	0.015	CTB-134H23.3	transcribed	16	29053732	29108108	-1	p11.2
ENSG00000184635	1.3412	2.5337	0.0001	0.0007	ZNF93	zinc finger protein_co	19	19900913	19935575	1	p12
ENSG00000172602	1.3409	2.5331	7.82E-05	0.0004	RND1	Rho family protein_co	12	48857145	48865898	-1	q13.12
ENSG00000235162	1.3409	2.5331	0.0002	0.0012	C12orf75	chromosom protein_co	12	1.05E+08	1.05E+08	1	q23.3
ENSG00000203963	1.3403	2.5321	0.0042	0.0144	C1orf141	chromosom protein_co	1	67092165	67231853	-1	p31.3
ENSG00000245468	1.3396	2.5308	0.0095	0.0289	FLJ36777	uncharacter lincRNA	4	7094571	7103385	-1	p16.1
ENSG00000259727	1.3394	2.5304	0.0082	0.0254	RP11-1069G10.2	lincRNA	15	62895812	62899543	1	q22.2
ENSG00000143222	1.3393	2.5303	1.09E-06	9.39E-06	UFC1	ubiquitin-f protein_co	1	1.61E+08	1.61E+08	1	q23.3
ENSG00000124785	1.3392	2.53	0.0063	0.0205	NRN1	neuritin 1 [ protein_co	6	5997999	6007605	-1	p25.1
ENSG00000256073	1.3374	2.527	1.34E-09	2.21E-08	URB1-AS1	URB1 antis lincRNA	21	32393130	32393960	1	q22.11
ENSG00000172137	1.3372	2.5267	0.0028	0.0103	CALB2	calbindin 2 protein_co	16	71358713	71390438	1	q22.2
ENSG00000135441	1.3361	2.5247	5.78E-12	1.62E-10	BLOC1S1	biogenesis protein_co	12	55716037	55720087	1	q13.2
ENSG00000136404	1.3352	2.5231	0.0054	0.0179	TM6SF1	transmemt protein_co	15	83107407	83144854	1	q25.2
ENSG00000106631	1.3323	2.5181	0.0102	0.0307	MYL7	myosin, lig protein_co	7	44138864	44141332	-1	p13
ENSG00000204566	1.3322	2.5178	0.0096	0.0291	LINC01552	long interg lincRNA	10	23203816	23239816	-1	p12.2
ENSG00000124237	1.3316	2.5168	0.0071	0.0225	C20orf85	chromosom protein_co	20	58150904	58161150	1	q13.32
ENSG00000115138	1.3309	2.5156	0.0075	0.0236	POMC	proopiome protein_co	2	25160853	25168903	-1	p23.3
ENSG00000232485	1.3308	2.5155	0.0016	0.0063	AC098820.3	processed_	2	2.16E+08	2.16E+08	-1	q35
ENSG00000160472	1.329	2.5122	0.0061	0.0197	TMEM190	transmemt protein_co	19	55376836	55378244	1	q13.42
ENSG00000108176	1.3276	2.5098	0.0001	0.0006	DNAJC12	DnaJ (Hsp4 protein_co	10	67796665	67838166	-1	q21.3
ENSG00000136872	1.3276	2.5098	0.0052	0.0173	ALDOB	aldolase B, protein_co	9	1.01E+08	1.01E+08	-1	q31.1
ENSG00000213442	1.3273	2.5093	2.36E-07	2.36E-06	RPL18AP3	ribosomal   processed_	12	1.04E+08	1.04E+08	1	q23.3
ENSG00000258175	1.3264	2.5078	3.65E-05	0.0002	RP11-412H8.2	lincRNA	14	28592223	28613623	-1	q12
ENSG00000258414	1.3262	2.5075	0.0048	0.0162	RP11-356O9.1	lincRNA	14	37564047	37579125	1	q21.1
ENSG00000210082	1.3255	2.5062	1.83E-15	1.20E-13	MT-RNR2	mitochond Mt_rRNA MT		1671	3229	1	
ENSG00000237477	1.3247	2.5047	0.0077	0.024	AC093911.1	lincRNA	2	1.79E+08	1.79E+08	1	q31.2
ENSG00000166035	1.3231	2.5021	0.006	0.0195	LIPC	lipase, hep protein_co	15	58410569	58569843	1	q21.3
ENSG00000225405	1.3226	2.5011	0.0066	0.0211	RPS15AP17	ribosomal   processed_	4	62105660	62106049	-1	q13.1
ENSG00000266850	1.3218	2.4998	0.0002	0.001	RP11-370A5.1	antisense	18	22723491	22907721	-1	q11.2
ENSG00000185641	1.3215	2.4993	2.63E-10	5.19E-09	CTD-2287O16.1	processed_	5	1.16E+08	1.16E+08	-1	q23.1
ENSG00000227496	1.3198	2.4963	0.0007	0.0031	RP11-145A3.1	antisense	1	2.26E+08	2.26E+08	1	q42.12
ENSG00000215160	1.3197	2.4962	0.0089	0.0273	OR7E122P	olfactory rre unprocesse	3	8688143	8689159	1	p25.3
ENSG00000157445	1.3195	2.4959	0.0109	0.0324	CACNA2D3	calcium cha protein_co	3	54122547	55074557	1	p21.1
ENSG00000137098	1.3184	2.4939	0.0044	0.0149	SPAG8	sperm assc protein_co	9	35808045	35812272	-1	p13.3
ENSG00000276422	1.3175	2.4923	0.0081	0.0253	RP11-144A16.8	lincRNA	9	60943311	60964185	-1	q12



ENSG00000133115	1.3165	2.4907	0.0064	0.0206	STOML3	stomatin (E protein_co	13	38965925	38991066	-1	q13.3
ENSG00000123685	1.3154	2.4888	0.0058	0.019	BATF3	basic leucir protein_co	1	2.13E+08	2.13E+08	-1	q32.3
ENSG00000137033	1.3149	2.4878	4.72E-08	5.60E-07	IL33	interleukin protein_co	9	6215786	6257983	1	p24.1
ENSG00000164400	1.3144	2.4869	0.0076	0.0239	CSF2	colony stirr protein_co	5	1.32E+08	1.32E+08	1	q31.1
ENSG00000127324	1.3141	2.4865	0.0061	0.02	TSPAN8	tetraspanir protein_co	12	71125085	71441898	-1	q21.1
ENSG00000160180	1.3118	2.4826	0.0029	0.0104	TFF3	trefoil factr protein_co	21	42311667	42315651	-1	q22.3
ENSG00000128408	1.3106	2.4804	0.0051	0.0169	RIBC2	RIB43A dor protein_co	22	45413691	45432496	1	q13.31
ENSG00000138115	1.3103	2.48	0.0092	0.0282	CYP2C8	cytochrom protein_co	10	95036772	95069497	-1	q23.33
ENSG00000243236	1.3101	2.4796	0.0103	0.0311	GSTA9P	glutathione transcribec	6	52939726	52957521	-1	p12.2
ENSG00000253320	1.309	2.4778	0.0004	0.0019	KB-1507C5.2	antisense	8	1.03E+08	1.03E+08	1	q22.3
ENSG00000232756	1.309	2.4777	0.0007	0.0032	RP5-1185I7.1	antisense	7	77990384	77995171	1	q21.11
ENSG00000119650	1.3089	2.4776	3.25E-06	2.51E-05	IFT43	intraflagell. protein_co	14	75902136	76084585	1	q24.3
ENSG00000258837	1.3089	2.4775	0.0105	0.0314	CTD-2566J3.1	antisense	14	68125004	68130196	-1	q24.1
ENSG00000128040	1.3083	2.4764	0.0116	0.0342	SPINK2	serine pept protein_co	4	56809860	56821742	-1	q12
ENSG00000227877	1.3073	2.4747	0.0058	0.0188	LINC00948	long interg processed_	10	59736995	59753445	-1	q21.2
ENSG00000159713	1.3072	2.4746	0.0071	0.0227	TPPP3	tubulin pol protein_co	16	67389809	67393535	-1	q22.1
ENSG00000188373	1.3067	2.4737	0.0108	0.0322	C10orf99	chromoson protein_co	10	84173738	84185294	1	q23.1
ENSG00000220749	1.3059	2.4724	0.0005	0.0024	RPL21P28	ribosomal j processed_	1	2.12E+08	2.12E+08	-1	q32.3
ENSG00000116885	1.3059	2.4724	0.0013	0.0051	OSCP1	organic sol protein_co	1	36415827	36450451	-1	p34.3
ENSG00000196951	1.3053	2.4713	0.0002	0.001	SCOC-AS1	SCOC antis antisense	4	1.4E+08	1.4E+08	-1	q31.1
ENSG00000073146	1.3022	2.4661	0.0094	0.0287	MOV10L1	Mov10 RISi protein_co	22	50089879	50161690	1	q13.33
ENSG00000166922	1.3005	2.4632	0.0061	0.0198	SCG5	secretogra protein_co	15	32641676	32697098	1	q13.3
ENSG00000106560	1.3	2.4623	0.0006	0.0028	GIMAP2	GTPase, IM protein_co	7	1.51E+08	1.51E+08	1	q36.1
ENSG00000258455	1.2995	2.4614	0.0109	0.0326	RP11-665C16.5	antisense	14	55325834	55339501	-1	q22.3
ENSG00000095970	1.2992	2.461	2.72E-06	2.13E-05	TREM2	triggering r protein_co	6	41158506	41163186	-1	p21.1
ENSG00000146425	1.2988	2.4602	4.13E-10	7.71E-09	DYNLT1	dynein, ligf protein_co	6	1.59E+08	1.59E+08	-1	q25.3
ENSG00000145491	1.2986	2.4598	0.0082	0.0256	ROPN1L	rhopilin a. protein_co	5	10441524	10472029	1	p15.2
ENSG00000169314	1.2971	2.4574	0.0087	0.0269	C22orf15	chromoson protein_co	22	23763021	23765861	1	q11.23
ENSG00000183273	1.2964	2.4561	0.0014	0.0056	CCDC60	coiled-coil protein_co	12	1.19E+08	1.2E+08	1	q24.23
ENSG00000222046	1.2962	2.4559	0.0052	0.0173	DCDC2B	doublecort protein_co	1	32209094	32216196	1	p35.2
ENSG00000214857	1.2961	2.4557	0.0065	0.0209	SHFM1P1	split hand/ processed_	5	81892490	81892721	1	q14.1
ENSG00000137473	1.2957	2.455	0.0057	0.0188	TTC29	tetratricop protein_co	4	1.47E+08	1.47E+08	-1	q31.22
ENSG00000156042	1.295	2.4539	0.0026	0.0096	CFAP70	cilia and fla protein_co	10	73253759	73358859	-1	q22.2
ENSG00000059804	1.2933	2.4508	0.0119	0.0351	SLC2A3	solute carri protein_co	12	7919230	7936275	-1	p13.31
ENSG00000188396	1.292	2.4487	0.0068	0.0216	TCTEX1D4	Tctex1 don protein_co	1	44805913	44806675	-1	p34.1
ENSG00000254560	1.2906	2.4463	0.0066	0.0211	BBOX1-AS1	BBOX1 anti antisense	11	27047186	27220113	-1	p14.1
ENSG00000110975	1.2872	2.4406	0.013	0.0378	SYT10	synaptotag protein_co	12	33374238	33439819	-1	p11.1

ENSG00000230710	1.2871	2.4404	0.0092	0.028 LINC00332	long interg lincRNA	13	40181809	40189028	1 q14.11
ENSG00000242034	1.2862	2.4388	0.0133	0.0385 RP11-1396O13.1	processed_	4	9553614	9553985	-1 p16.1
ENSG00000221986	1.2849	2.4366	0.0099	0.0299 MYBPHL	myosin bin protein_co	1	1.09E+08	1.09E+08	-1 p13.3
ENSG00000050730	1.2842	2.4355	0.0005	0.0023 TNIP3	TNFAIP3 in protein_co	4	1.21E+08	1.21E+08	-1 q27
ENSG00000181322	1.2839	2.4349	0.0062	0.02 NME9	NME/NM2 protein_co	3	1.38E+08	1.38E+08	-1 q22.3
ENSG00000143546	1.2837	2.4345	6.73E-05	0.0004 S100A8	S100 calciu protein_co	1	1.53E+08	1.53E+08	-1 q21.3
ENSG00000179799	1.2824	2.4325	0.001	0.0043 OR7E22P	olfactory rε unprocesse	3	75356516	75357503	-1 p12.3
ENSG00000117477	1.2822	2.4322	0.0029	0.0105 CCDC181	coiled-coil protein_co	1	1.69E+08	1.69E+08	-1 q24.2
ENSG00000277350	1.282	2.4317	0.0119	0.0349 RP11-395E19.6	lincRNA	9	66942703	66952344	1 q21.11
ENSG00000111728	1.28	2.4283	0.0039	0.0135 ST8SIA1	ST8 alpha-I protein_co	12	22063773	22437041	-1 p12.1
ENSG00000198618	1.2783	2.4256	2.87E-09	4.44E-08 PPIAP22	peptidylpro processed_	21	18857779	18858276	1 q21.1
ENSG00000249464	1.2776	2.4243	0.0021	0.0078 LINC01091	long interg lincRNA	4	1.24E+08	1.24E+08	1 q28.1
ENSG00000184924	1.2773	2.4238	5.82E-21	1.63E-18 PTRHD1	peptidyl-tR protein_co	2	24789734	24793382	-1 p23.3
ENSG00000175315	1.2772	2.4237	1.06E-05	7.37E-05 CST6	cystatin E/I protein_co	11	66011841	66013505	1 q13.1
ENSG00000205584	1.2767	2.4229	0.0082	0.0256 AC005488.11	unprocesse	7	72969814	72971727	1 q11.23
ENSG00000186010	1.2755	2.4209	4.99E-08	5.86E-07 NDUFA13	NADH dehy protein_co	19	19515736	19529054	1 p13.11
ENSG00000102904	1.2752	2.4204	0.005	0.0168 TSNAXIP1	translin-ase protein_co	16	67806765	67832148	1 q22.1
ENSG00000225766	1.2753	2.4204	0.0142	0.0406 DHRS4L1	dehydroge transcribec	14	24036453	24051028	1 q11.2
ENSG00000259704	1.2744	2.419	0.0091	0.0279 CTD-3094K11.1	sense_ovei	15	90839724	90841378	1 q26.1
ENSG00000256745	1.2742	2.4186	0.0128	0.0373 RP11-680H20.1	processed_	11	94188449	94188997	-1 q21
ENSG00000269293	1.2738	2.4179	3.70E-07	3.55E-06 ZSCAN16-AS1	ZSCAN16 a antisense	6	28121795	28137293	-1 p22.1
ENSG00000183690	1.2734	2.4173	0.0091	0.028 EFHC2	EF-hand dc protein_co X		44147882	44343672	-1 p11.3
ENSG00000092841	1.2719	2.4149	1.07E-28	1.75E-25 MYL6	myosin, ligl protein_co	12	56158161	56163496	1 q13.2
ENSG00000215861	1.2713	2.4137	0.0001	0.0006 WI2-1896O14.1	unprocesse	1	1.49E+08	1.49E+08	-1 q21.2
ENSG00000162814	1.271	2.4133	0.0067	0.0215 SPATA17	spermatog protein_co	1	2.18E+08	2.18E+08	1 q41
ENSG00000241280	1.271	2.4132	0.0028	0.0102 RP11-221J22.2	lincRNA	3	1.02E+08	1.02E+08	1 q12.3
ENSG00000135324	1.2708	2.4129	0.0002	0.0011 MRAP2	melanocor protein_co	6	84033756	84090881	1 q14.2
ENSG00000155749	1.2705	2.4125	0.0066	0.021 ALS2CR12	amyotroph protein_co	2	2.01E+08	2.01E+08	-1 q33.1
ENSG00000177112	1.2702	2.4119	0.0103	0.0309 MRV11-AS1	MRV11 anti antisense	11	10541272	10599932	1 p15.4
ENSG00000267107	1.2695	2.4108	0.0149	0.0424 PCAT19	prostate ca lincRNA	19	41454169	41500649	-1 q13.2
ENSG00000246016	1.2692	2.4104	0.0116	0.0343 LINC01513	long interg antisense	5	10479371	10482309	1 p15.2
ENSG00000144834	1.2677	2.4078	0.0039	0.0133 TAGLN3	transgelin ε protein_co	3	1.12E+08	1.12E+08	1 q13.2
ENSG00000126759	1.2677	2.4078	0.0099	0.0299 CFP	complemei protein_co X		47624213	47630305	-1 p11.23
ENSG00000226360	1.2664	2.4056	0.0014	0.0056 RPL10AP6	ribosomal j processed_	3	61742455	61743106	-1 p14.2
ENSG00000088727	1.2661	2.4051	0.0022	0.0083 KIF9	kinesin far protein_co	3	47228026	47283451	-1 p21.31
ENSG00000165949	1.2657	2.4044	6.52E-08	7.46E-07 IFI27	interferon, protein_co	14	94104836	94116698	1 q32.12
ENSG00000237009	1.2657	2.4044	0.003	0.0108 GLIS3-AS1	GLIS3 antis antisense	9	3898642	3901248	1 p24.2

ENSG00000183644	1.2648	2.4029	0.0078	0.0243	C11orf88	chromosom protein_co	11	1.12E+08	1.12E+08	1	q23.1
ENSG00000119636	1.2641	2.4018	0.0043	0.0148	CCDC176	coiled-coil protein_co	14	74019353	74082863	1	q24.3
ENSG00000169413	1.264	2.4016	0.0014	0.0057	RNASE6	ribonuclea:protein_co	14	20781051	20782467	1	q11.2
ENSG00000231441	1.264	2.4016	0.0152	0.043	RP11-472M19.2	antisense	6	56844002	56864078	1	p12.1
ENSG00000186094	1.2636	2.401	0.0098	0.0297	AGBL4	ATP/GTP bi protein_co	1	48532855	50023913	-1	p33
ENSG00000230615	1.2631	2.4	0.0029	0.0106	RP5-1198O20.4	lincRNA	1	44030443	44104975	1	p34.1
ENSG00000236876	1.2629	2.3998	0.0138	0.0397	TMSB4XP1	thymosin b processed_	1	42500205	42500339	-1	p34.2
ENSG00000171051	1.2624	2.399	0.0125	0.0366	FPR1	formyl pep protein_co	19	51745172	51804110	-1	q13.41
ENSG00000010626	1.2621	2.3984	0.0085	0.0263	LRRC23	leucine rich protein_co	12	6873569	6914243	1	p13.31
ENSG00000110944	1.2612	2.397	1.05E-05	7.31E-05	IL23A	interleukin protein_co	12	56334174	56340410	1	q13.3
ENSG00000134873	1.261	2.3967	0.0021	0.0078	CLDN10	claudin 10 protein_co	13	95433604	95579759	1	q32.1
ENSG00000116157	1.2607	2.396	4.41E-08	5.27E-07	GPX7	glutathione protein_co	1	52602372	52609051	1	p32.3
ENSG00000101052	1.2601	2.3951	6.36E-07	5.78E-06	IFT52	intraflagell. protein_co	20	43590931	43647296	1	q13.12
ENSG00000133328	1.26	2.395	0.0028	0.0101	HRASLS2	HRAS-like s protein_co	11	63552770	63563383	-1	q12.3
ENSG00000163012	1.26	2.3949	0.014	0.0402	ZSWIM2	zinc finger, protein_co	2	1.87E+08	1.87E+08	-1	q32.1
ENSG00000228793	1.2594	2.394	0.0143	0.0409	RP1-223B1.1	lincRNA	6	3594247	3624747	-1	p25.2
ENSG00000266970	1.2593	2.3937	0.0099	0.03	RP11-806H10.4	lincRNA	17	78360453	78373911	1	q25.3
ENSG00000141665	1.259	2.3933	0.0054	0.0178	FBXO15	F-box prote protein_co	18	74073353	74147865	-1	q22.3
ENSG00000178776	1.2583	2.3921	0.009	0.0277	C5orf46	chromosom protein_co	5	1.48E+08	1.48E+08	-1	q32
ENSG00000170270	1.2578	2.3913	0.0008	0.0035	C14orf142	chromosom protein_co	14	93202894	93207094	-1	q32.12
ENSG00000183117	1.2564	2.3891	0.0156	0.044	CSMD1	CUB and St protein_co	8	2935353	4994972	-1	p23.2
ENSG00000169429	1.2556	2.3876	0.0035	0.0123	CXCL8	chemokine protein_co	4	73740506	73743716	1	q13.3
ENSG00000164692	1.2553	2.3872	0.0023	0.0087	COL1A2	collagen, ty protein_co	7	94394561	94431232	1	q21.3
ENSG00000162004	1.2553	2.3872	0.0106	0.0317	CCDC78	coiled-coil protein_co	16	722582	726954	-1	p13.3
ENSG00000255587	1.2542	2.3854	0.0155	0.0438	RAB44	RAB44, me protein_co	6	36697851	36733183	1	p21.2
ENSG00000139537	1.253	2.3833	0.0112	0.0333	CCDC65	coiled-coil protein_co	12	48904110	48931840	1	q13.12
ENSG00000152147	1.2522	2.382	6.82E-12	1.89E-10	GEMIN6	gem (nucle protein_co	2	38751534	38785000	1	p22.1
ENSG00000160886	1.2519	2.3816	0.0004	0.0019	LY6K	lymphocyte protein_co	8	1.43E+08	1.43E+08	1	q24.3
ENSG00000185186	1.2494	2.3774	0.0158	0.0445	LINC00313	long interg lincRNA	21	43462094	43479534	-1	q22.3
ENSG00000230062	1.2481	2.3753	0.0109	0.0325	ANKRD66	ankyrin req. protein_co	6	46746917	46759506	1	p12.3
ENSG00000197149	1.2481	2.3753	0.011	0.0328	RP11-452G18.2	processed_	11	17228279	17229151	1	p15.1
ENSG00000239719	1.2456	2.3712	0.016	0.0449	RP4-800G7.1	processed_	7	1.49E+08	1.49E+08	-1	q36.1
ENSG00000164825	1.2453	2.3707	2.41E-07	2.40E-06	DEFB1	defensin, b protein_co	8	6870575	6878022	-1	p23.1
ENSG00000198736	1.2449	2.3701	6.38E-14	2.92E-12	MSRB1	methionine protein_co	16	1938210	1943326	-1	p13.3
ENSG00000234797	1.2441	2.3687	0.0002	0.0009	RPS3AP6	ribosomal j processed_	15	59768352	59769146	1	q22.2
ENSG00000101470	1.2439	2.3683	0.014	0.0402	TNNC2	troponin C protein_co	20	45823214	45833745	-1	q13.12
ENSG00000138400	1.2436	2.3679	0.0092	0.0282	MDH1B	malate deh protein_co	2	2.07E+08	2.07E+08	-1	q33.3

ENSG00000117501	1.2435	2.3677	0.0129	0.0375 MROH9	maestro he protein_co	1	1.71E+08	1.71E+08	1 q24.3
ENSG00000204941	1.2431	2.3671	0.0075	0.0235 PSG5	pregnancy protein_co	19	43166256	43186536	-1 q13.31
ENSG00000232699	1.2429	2.3668	0.0148	0.0422 BDH2P1	3-hydroxyt processed_	6	99174744	99175479	1 q16.2
ENSG00000140067	1.2417	2.3648	0.0089	0.0273 FAM181A	family with protein_co	14	93918894	93929608	1 q32.12
ENSG00000237976	1.2416	2.3647	0.0072	0.0227 RP11-126K1.6	antisense	1	1.51E+08	1.51E+08	1 q21.3
ENSG00000176984	1.2412	2.364	0.0168	0.0466 AP000679.2	antisense	11	1.2E+08	1.2E+08	1 q23.3
ENSG00000175877	1.2411	2.3638	0.0128	0.0372 WBSCR28	Williams-Bi protein_co	7	73861159	73865893	1 q11.23
ENSG00000088986	1.2404	2.3626	1.85E-09	2.95E-08 DYNLL1	dynein, ligt protein_co	12	1.2E+08	1.2E+08	1 q24.31
ENSG00000168653	1.2402	2.3624	8.14E-23	3.90E-20 NDUFS5	NADH dehy protein_co	1	39026318	39034636	1 p34.3
ENSG00000120279	1.2396	2.3613	0.005	0.0168 MYCT1	myc target protein_co	6	1.53E+08	1.53E+08	1 q25.2
ENSG00000164318	1.2396	2.3613	0.0104	0.0313 EGFLAM	EGF-like, fil protein_co	5	38258409	38465021	1 p13.2
ENSG00000211452	1.2394	2.361	0.01	0.0301 DIO1	deiodinase protein_co	1	53891239	53911086	1 p32.3
ENSG00000167614	1.2392	2.3607	0.0111	0.033 TTYH1	tweety fan protein_co	19	54415219	54436900	1 q13.42
ENSG00000092850	1.2387	2.3599	0.0128	0.0374 TEK2	tektin 2 (te protein_co	1	36084075	36088275	1 p34.3
ENSG00000198183	1.2365	2.3563	0.0068	0.0217 BPIFA1	BPI fold coi protein_co	20	33235995	33243311	1 q11.21
ENSG00000213082	1.2363	2.3559	0.0062	0.0201 PPP1R14BP2	protein ph processed_	2	2.08E+08	2.08E+08	1 q33.3
ENSG00000162944	1.236	2.3555	0.0174	0.048 RFTN2	raftlin fami protein_co	2	1.98E+08	1.98E+08	-1 q33.1
ENSG00000178125	1.2358	2.3552	0.0091	0.0278 PPP1R42	protein ph protein_co	8	66964099	67056604	-1 q13.1
ENSG00000165168	1.2355	2.3546	0.0056	0.0184 CYBB	cytochrom protein_co X		37780011	37813461	1 p21.1
ENSG00000160182	1.2353	2.3544	0.0102	0.0309 TFF1	trefoil fact protein_co	21	42362282	42366594	-1 q22.3
ENSG00000125046	1.2342	2.3526	0.0178	0.0489 SSUH2	ssu-2 homc protein_co	3	8619400	8745040	-1 p25.3
ENSG00000106366	1.2342	2.3525	0.002	0.0075 SERPINE1	serpin pepi protein_co	7	1.01E+08	1.01E+08	1 q22.1
ENSG00000102271	1.2326	2.3499	0.0025	0.0092 KLHL4	kelch-like f protein_co X		87517749	87670050	1 q21.31
ENSG00000198938	1.2324	2.3496	4.24E-18	5.49E-16 MT-CO3	mitochond protein_co MT		9207	9990	1
ENSG00000231298	1.2321	2.349	0.0097	0.0295 LINC00704	long interg lincRNA	10	4650185	4678154	-1 p15.1
ENSG00000186474	1.2314	2.348	0.0066	0.0212 KLK12	kallikrein-r protein_co	19	51029092	51035230	-1 q13.41
ENSG00000143595	1.2311	2.3475	0.0118	0.0346 AQP10	aquaporin protein_co	1	1.54E+08	1.54E+08	1 q21.3
ENSG00000183098	1.229	2.344	0.0018	0.0071 GPC6	glypican 6   protein_co	13	93226842	94407401	1 q31.3
ENSG00000236552	1.2253	2.3381	2.32E-06	1.85E-05 RPL13AP5	ribosomal   processed_	10	96750288	96750899	1 q24.1
ENSG00000121089	1.2252	2.3379	0.0053	0.0175 NACA3P	NACA fami processed_	4	1.65E+08	1.65E+08	1 q32.3
ENSG00000132915	1.2242	2.3363	0.0062	0.0201 PDE6A	phosphodi protein_co	5	1.5E+08	1.5E+08	-1 q32
ENSG00000100097	1.2224	2.3333	0.0015	0.0058 LGALS1	lectin, gala protein_co	22	37675608	37679806	1 q13.1
ENSG00000132554	1.2223	2.3332	0.016	0.0448 RGS22	regulator o protein_co	8	99960936	1E+08	-1 q22.2
ENSG00000224479	1.2216	2.332	0.0136	0.0393 AC136289.1	transcribec	3	63742293	63827445	-1 p14.1
ENSG00000198417	1.2214	2.3317	4.33E-05	0.0003 MT1F	metallothic protein_co	16	56657694	56660698	1 q13
ENSG00000264269	1.2206	2.3305	0.0178	0.049 RP11-15F12.1	antisense	18	49023703	49048474	1 q21.1
ENSG00000259460	1.2196	2.3288	0.0182	0.0498 RP11-128A17.1	antisense	15	37099339	37100173	1 q14

ENSG00000137707	1.2187	2.3273	0.0137	0.0395 BTG4	B-cell trans protein_co	11	1.11E+08	1.12E+08	-1 q23.1
ENSG00000244187	1.218	2.3262	3.30E-13	1.27E-11 TMEM141	transmembr protein_co	9	1.37E+08	1.37E+08	1 q34.3
ENSG00000205129	1.217	2.3246	0.0107	0.0321 C4orf47	chromosom protein_co	4	1.85E+08	1.85E+08	1 q35.1
ENSG00000228502	1.2169	2.3245	1.16E-05	7.99E-05 EEF1A1P11	eukaryotic processed_	1	96446930	96448318	1 p21.3
ENSG00000251495	1.2158	2.3227	0.0072	0.0227 PPIAP11	peptidylpro processed_	5	82009602	82010094	-1 q14.1
ENSG00000204540	1.215	2.3214	0.0029	0.0104 PSORS1C1	psoriasis su protein_co	6	31114750	31140092	1 p21.33
ENSG00000172000	1.2147	2.321	0.012	0.0352 ZNF556	zinc finger protein_co	19	2867335	2883445	1 p13.3
ENSG00000169035	1.2134	2.3188	0.0019	0.0072 KLK7	kallikrein-r protein_co	19	50976482	50984099	-1 q13.41
ENSG00000243660	1.213	2.3182	0.0026	0.0095 ZNF487	zinc finger protein_co	10	43436841	43483179	1 q11.21
ENSG00000079257	1.2127	2.3177	4.56E-13	1.69E-11 LXN	latexin [Soi protein_co	3	1.59E+08	1.59E+08	-1 q25.32
ENSG00000206073	1.2125	2.3174	9.43E-05	0.0005 SERPINB4	serpin pep1 protein_co	18	63637259	63644298	-1 q21.33
ENSG00000122641	1.2123	2.3171	0.0033	0.0118 INHBA	inhibin, bet protein_co	7	41685114	41703108	-1 p14.1
ENSG00000099937	1.2114	2.3155	0.0072	0.0229 SERPIND1	serpin pep1 protein_co	22	20773879	20787720	1 q11.21
ENSG00000140379	1.2106	2.3144	8.56E-05	0.0005 BCL2A1	BCL2-relate protein_co	15	79960889	79971446	-1 q25.1
ENSG00000233818	1.2106	2.3144	0.0041	0.0139 AP000695.4	antisense	21	36445731	36532408	1 q22.13
ENSG00000167178	1.2104	2.3141	0.005	0.0168 ISLR2	immunogl protein_co	15	74100311	74138540	1 q24.1
ENSG00000175792	1.2101	2.3136	0.0002	0.001 RUVBL1	RuvB-like A protein_co	3	1.28E+08	1.28E+08	-1 q21.3
ENSG00000170788	1.2098	2.313	0.0099	0.0299 DYDC1	DPY30 don protein_co	10	80336105	80356755	-1 q23.1
ENSG00000187546	1.2095	2.3125	0.011	0.0327 AGMO	alkylglycer protein_co	7	15200318	15562015	-1 p21.2
ENSG00000226084	1.2094	2.3124	8.81E-05	0.0005 RP4-706A16.3	processed_	1	77129114	77129668	1 p31.1
ENSG00000222020	1.209	2.3118	0.0092	0.0282 AC062017.1	antisense	2	2.39E+08	2.39E+08	1 q37.3
ENSG00000215217	1.2082	2.3105	0.0119	0.0351 C5orf49	chromosom protein_co	5	7830378	7851490	-1 p15.31
ENSG00000197249	1.208	2.3102	0.0007	0.0032 SERPINA1	serpin pep1 protein_co	14	94376747	94390693	-1 q32.13
ENSG00000163221	1.2074	2.3093	0.0007	0.003 S100A12	S100 calciu protein_co	1	1.53E+08	1.53E+08	-1 q21.3
ENSG00000111348	1.2072	2.3088	1.67E-05	0.0001 ARHGDI B	Rho GDP di protein_co	12	14942017	14961728	-1 p12.3
ENSG00000203760	1.2065	2.3078	1.47E-11	3.76E-10 CENPW	centromer protein_co	6	1.26E+08	1.26E+08	1 q22.32
ENSG00000143977	1.2064	2.3076	3.83E-15	2.32E-13 SNRPG	small nucle protein_co	2	70281362	70293771	-1 p13.3
ENSG00000069764	1.2055	2.3062	4.17E-05	0.0003 PLA2G10	phospholip protein_co	16	14672545	14694669	-1 p13.12
ENSG00000141485	1.2049	2.3052	0.005	0.0168 SLC13A5	solute carri protein_co	17	6684713	6713567	-1 p13.1
ENSG00000205106	1.2049	2.3052	0.0086	0.0265 AC044839.1	Uncharacte protein_co	11	45771432	45772357	1 p11.2
ENSG00000119013	1.2047	2.305	2.96E-15	1.86E-13 NDUFB3	NADH dehy protein_co	2	2.01E+08	2.01E+08	1 q33.1
ENSG00000224165	1.2038	2.3035	0.0045	0.0152 DNAJC27-AS1	DNAJC27 a antisense	2	24971390	25039694	1 p23.3
ENSG00000165182	1.202	2.3007	0.0095	0.029 CXorf58	chromosom protein_co X		23907801	23939507	1 p22.11
ENSG00000257084	1.2016	2.3	4.37E-16	3.37E-14 U47924.27	lincRNA	12	6963246	6964447	1 p13.31
ENSG00000154079	1.2012	2.2993	1.12E-08	1.52E-07 C6orf57	chromosom protein_co	6	70566917	70589569	1 q13
ENSG00000207562	1.201	2.299	0.0123	0.036 MIR34C	microRNA : miRNA	11	1.12E+08	1.12E+08	1 q23.1
ENSG00000224877	1.1992	2.2962	2.55E-18	3.41E-16 C17orf89	chromosom protein_co	17	81239239	81241281	1 q25.3



ENSG00000178980	1.1982	2.2945	9.47E-17	8.66E-15	SEPW1	selenoprot protein_co	19	47778572	47784686	1	q13.33
ENSG00000136810	1.1971	2.2928	6.10E-11	1.38E-09	TXN	thioredoxin protein_co	9	1.1E+08	1.1E+08	-1	q31.3
ENSG00000138175	1.1971	2.2927	2.23E-07	2.25E-06	ARL3	ADP-ribosyl protein_co	10	1.03E+08	1.03E+08	-1	q24.32
ENSG00000224631	1.1965	2.2919	2.66E-05	0.0002	RP11-51O6.1	transcribed	16	61055399	61055964	-1	q21
ENSG00000157856	1.1958	2.2908	0.0126	0.0367	DRC1	dynein reg protein_co	2	26401916	26456711	1	p23.3
ENSG00000158423	1.1959	2.2908	0.0146	0.0416	RIBC1	RIB43A dor protein_co X		53422690	53431120	1	p11.22
ENSG00000120306	1.1951	2.2896	8.82E-09	1.24E-07	CYSTM1	cysteine-ric protein_co	5	1.4E+08	1.4E+08	1	q31.3
ENSG00000166596	1.1949	2.2893	0.014	0.0403	CFAP52	cilia and fla protein_co	17	9576627	9643459	1	p13.1
ENSG00000236028	1.1948	2.2891	2.57E-06	2.02E-05	RP11-323C15.2	lincRNA	20	46901143	46901726	-1	q13.12
ENSG00000176029	1.1937	2.2874	0.0147	0.0418	C11orf16	chromosom protein_co	11	8920076	8933006	-1	p15.4
ENSG00000270882	1.1928	2.286	0.0013	0.0053	HIST2H4A	histone clu protein_co	1	1.5E+08	1.5E+08	1	q21.2
ENSG00000249816	1.1925	2.2855	0.0113	0.0336	LINC00964	long interg lincRNA	8	1.25E+08	1.25E+08	1	q24.13
ENSG00000102738	1.1924	2.2854	9.21E-06	6.48E-05	MRPS31	mitochond protein_co	13	40729135	40771173	-1	q14.11
ENSG00000234851	1.1919	2.2845	8.41E-12	2.29E-10	RP11-3P17.3	processed_	3	1.61E+08	1.61E+08	-1	q26.1
ENSG00000171557	1.1916	2.284	0.0118	0.0347	FGG	fibrinogen protein_co	4	1.55E+08	1.55E+08	-1	q32.1
ENSG00000231549	1.1914	2.2838	0.0018	0.0071	USMG5P1	USMG5 ps processed_ X		74173890	74174066	1	q13.2
ENSG00000123349	1.19	2.2815	8.80E-12	2.38E-10	PFDN5	prefoldin s protein_co	12	53295291	53299450	1	q13.13
ENSG00000236184	1.1898	2.2812	0.0181	0.0497	TCEA1P4	transcriptic processed_	9	32979560	32980403	-1	p21.1
ENSG00000064225	1.1881	2.2786	0.0015	0.0059	ST3GAL6	ST3 beta-g; protein_co	3	98732236	98821201	1	q12.1
ENSG00000129295	1.1876	2.2777	0.0066	0.021	LRRC6	leucine ric protein_co	8	1.33E+08	1.33E+08	-1	q24.22
ENSG00000172824	1.1874	2.2775	0.0013	0.0051	CES4A	carboxyles protein_co	16	66988589	67009758	1	q22.1
ENSG00000166352	1.1861	2.2754	0.001	0.0041	C11orf74	chromosom protein_co	11	36594493	36659290	1	p12
ENSG00000124713	1.1859	2.2751	0.0158	0.0445	GNMT	glycine N-n protein_co	6	42960758	42963880	1	p21.1
ENSG00000139971	1.1846	2.273	0.0013	0.0051	C14orf37	chromosom protein_co	14	57999735	58298139	-1	q23.1
ENSG00000109083	1.1836	2.2715	1.25E-11	3.27E-10	IFT20	intraflagell. protein_co	17	28328325	28335489	-1	q11.2
ENSG00000171174	1.1834	2.2711	0.0025	0.0091	RBKS	ribokinase protein_co	2	27781364	27891098	-1	p23.2
ENSG00000182585	1.1833	2.271	0.0009	0.0038	EPGN	epithelial n protein_co	4	74308473	74315307	1	q13.3
ENSG00000248468	1.183	2.2705	0.0175	0.0482	RP11-517B11.4	antisense	3	1.32E+08	1.32E+08	1	q22.1
ENSG00000215030	1.1828	2.2702	6.75E-08	7.70E-07	RPL13P12	ribosomal processed_	17	17383377	17384012	-1	p11.2
ENSG00000159708	1.1826	2.2698	0.0151	0.0428	LRRC36	leucine ric protein_co	16	67326798	67385203	1	q22.1
ENSG00000177359	1.1815	2.2681	0.0099	0.0299	RP11-551L14.1	transcribed	12	31111652	31206154	-1	p11.21
ENSG00000034239	1.1813	2.2679	0.013	0.0378	EFCAB1	EF-hand ca protein_co	8	48710789	48735311	-1	q11.21
ENSG00000257261	1.1812	2.2677	6.66E-05	0.0004	RP11-96H19.1	lincRNA	12	46383679	46876159	1	q13.11
ENSG00000102010	1.1812	2.2677	0.0148	0.0422	BMX	BMX non-r protein_co X		15464246	15556529	1	p22.2
ENSG00000101198	1.1791	2.2643	0.0094	0.0287	NKAIN4	Na+/K+ tra protein_co	20	63240784	63272694	-1	q13.33
ENSG00000172955	1.179	2.2642	0.0155	0.0437	ADH6	alcohol def protein_co	4	99202638	99219537	-1	q23
ENSG00000240137	1.1779	2.2625	0.0099	0.0299	ERICH6-AS1	ERICH6 ant antisense	3	1.51E+08	1.51E+08	1	q25.1

ENSG00000126838	1.1776	2.2621	0.0122	0.0358 PZP	pregnancy- protein_co	12	9148840	9208370	-1	p13.31
ENSG00000186281	1.1773	2.2615	0.0067	0.0215 GPAT2	glycerol-3- $\mu$ protein_co	2	96021946	96039451	-1	q11.2
ENSG00000110848	1.1771	2.2612	0.0116	0.0342 CD69	CD69 mole protein_co	12	9752486	9760901	-1	p13.31
ENSG00000147604	1.1758	2.2592	3.44E-11	8.18E-10 RPL7	ribosomal $\mu$ protein_co	8	73290267	73295789	-1	q21.11
ENSG00000234380	1.175	2.2579	0.003	0.0109 LINC01426	long interg antisense	21	34745757	34784886	1	q22.12
ENSG00000198258	1.1748	2.2577	1.61E-20	4.15E-18 UBL5	ubiquitin-li protein_co	19	9827892	9830115	1	p13.2
ENSG00000122026	1.1744	2.257	2.12E-09	3.35E-08 RPL21	ribosomal $\mu$ protein_co	13	27251309	27256691	1	q12.2
ENSG00000213553	1.1744	2.257	1.44E-06	1.21E-05 RPLPOP6	ribosomal $\mu$ processed_	2	38481851	38482804	1	p22.1
ENSG00000167772	1.1743	2.2569	0.003	0.0108 ANGPTL4	angiopoieti protein_co	19	8363289	8374373	1	p13.2
ENSG00000229833	1.1739	2.2562	1.16E-15	7.95E-14 PET100	PET100 ho protein_co	19	7629737	7631956	1	p13.2
ENSG00000244398	1.1738	2.2561	2.82E-07	2.78E-06 RP11-466H18.1	processed_	11	16974693	16975013	-1	p15.1
ENSG00000131475	1.1735	2.2555	1.47E-17	1.62E-15 VPS25	vacuolar pr protein_co	17	42773436	42779599	1	q21.2
ENSG00000210107	1.1727	2.2544	4.09E-07	3.88E-06 MT-TQ	mitochond Mt_tRNA MT		4329	4400	-1	
ENSG00000102230	1.1713	2.2521	0.0124	0.0363 PCYT1B	phosphate protein_co X		24558087	24672677	-1	p22.11
ENSG00000148834	1.171	2.2516	5.95E-24	4.03E-21 GSTO1	glutathione protein_co	10	1.04E+08	1.04E+08	1	q25.1
ENSG00000147573	1.1702	2.2505	0.01	0.0302 TRIM55	tripartite rr protein_co	8	66126896	66175487	1	q13.1
ENSG00000096093	1.1701	2.2503	0.0095	0.029 EFHC1	EF-hand dc protein_co	6	52420308	52495785	1	p12.2
ENSG00000167244	1.1701	2.2502	0.0108	0.0322 IGF2	insulin-like protein_co	11	2129112	2149603	-1	p15.5
ENSG00000240087	1.1696	2.2496	0.0007	0.0032 RP11-254B13.1	processed_	12	68552995	68553882	-1	q15
ENSG00000187837	1.1693	2.249	9.78E-05	0.0005 HIST1H1C	histone clu protein_co	6	26055787	26056428	-1	p22.2
ENSG00000109182	1.1692	2.2489	0.0172	0.0476 CWH43	cell wall bic protein_co	4	48986247	49062081	1	p11
ENSG00000198157	1.1688	2.2483	6.13E-06	4.48E-05 HMGNS	high mobili protein_co X		81113701	81201942	-1	q21.1
ENSG00000117472	1.1686	2.248	1.09E-05	7.56E-05 TSPAN1	tetraspanin protein_co	1	46175073	46185958	1	p34.1
ENSG00000126432	1.1679	2.2469	5.12E-09	7.52E-08 PRDX5	peroxiredo protein_co	11	64318088	64321811	1	q13.1
ENSG00000168734	1.1678	2.2466	0.0003	0.0013 PKIG	protein kin protein_co	20	44531785	44624247	1	q13.12
ENSG00000172172	1.1668	2.2451	4.44E-20	9.19E-18 MRPL13	mitochond protein_co	8	1.2E+08	1.2E+08	-1	q24.12
ENSG00000126549	1.1666	2.2448	0.0147	0.0418 STATH	statherin [ $\xi$ protein_co	4	69995930	70002570	1	q13.3
ENSG00000173221	1.1662	2.2441	2.01E-18	2.81E-16 GLRX	glutaredox protein_co	5	95751319	95823005	-1	q15
ENSG00000248008	1.166	2.2439	0.0005	0.0021 DYNLL1-AS1	DYNLL1 an antisense	12	1.2E+08	1.2E+08	-1	q24.31
ENSG00000127241	1.1656	2.2432	0.0169	0.0468 MASP1	mannan-bi protein_co	3	1.87E+08	1.87E+08	-1	q27.3
ENSG00000204161	1.1654	2.2429	0.0147	0.0419 C10orf128	chromoson protein_co	10	49154725	49188585	-1	q11.23
ENSG00000108691	1.1647	2.2419	0.007	0.0223 CCL2	chemokine protein_co	17	34255218	34257203	1	q12
ENSG00000163453	1.1645	2.2415	4.89E-08	5.75E-07 IGFBP7	insulin-like protein_co	4	57030773	57110385	-1	q12
ENSG00000173627	1.1635	2.2401	0.0142	0.0407 APOBEC4	apolipopro protein_co	1	1.84E+08	1.84E+08	-1	q25.3
ENSG00000156206	1.1635	2.24	0.0137	0.0395 C15orf26	chromoson protein_co	15	81007033	81149175	1	q25.1
ENSG00000163879	1.1628	2.239	0.0092	0.0281 DNALI1	dynein, axc protein_co	1	37556919	37566857	1	p34.3
ENSG00000211459	1.1625	2.2385	4.82E-13	1.78E-11 MT-RNR1	mitochond Mt_rRNA MT		648	1601	1	

ENSG00000278238	1.1623	2.2382	0.0077	0.0242	RP11-245D16.4	lincRNA	13	52454775	52455331	-1	q14.3
ENSG00000143499	1.1621	2.2378	9.60E-07	8.40E-06	SMYD2	SET and M <sup>1</sup> protein_co	1	2.14E+08	2.14E+08	1	q32.3
ENSG00000103485	1.1609	2.236	0.0045	0.0151	QPR1	quinolinate protein_co	16	29679008	29698699	1	p11.2
ENSG00000214050	1.1605	2.2354	1.96E-06	1.59E-05	FBXO16	F-box prote protein_co	8	28348287	28490318	-1	p21.1
ENSG00000211772	1.1577	2.231	0.012	0.0353	TRBC2	T cell recep TR_C_gene	7	1.43E+08	1.43E+08	1	q34
ENSG00000154479	1.1576	2.2309	0.0109	0.0325	CCDC173	coiled-coil protein_co	2	1.7E+08	1.7E+08	-1	q31.1
ENSG00000162595	1.1567	2.2294	0.0115	0.034	DIRAS3	DIRAS fami protein_co	1	68045962	68051631	-1	p31.3
ENSG00000224546	1.1563	2.2288	0.0062	0.0202	EIF4BP3	eukaryotic processed_	9	96146007	96147856	1	q22.32
ENSG00000121005	1.1562	2.2287	0.0005	0.0022	CRISPLD1	cysteine-ric protein_co	8	74984515	75034558	1	q21.13
ENSG00000179271	1.1557	2.228	3.55E-10	6.77E-09	GADD45GIP1	growth arr protein_co	19	12953119	12957236	-1	p13.13
ENSG00000170476	1.1544	2.2259	0.0174	0.048	MZB1	marginal zc protein_co	5	1.39E+08	1.39E+08	-1	q31.2
ENSG00000253570	1.1539	2.2252	1.51E-05	0.0001	RNF5P1	ring finger processed_	8	38600661	38601200	-1	p11.22
ENSG00000142534	1.1536	2.2247	1.39E-09	2.29E-08	RPS11	ribosomal   protein_co	19	49496365	49499689	1	q13.33
ENSG00000184154	1.1514	2.2213	0.0129	0.0374	LRTOMT	leucine ric protein_co	11	72080331	72110782	1	q13.4
ENSG00000182326	1.151	2.2207	1.73E-06	1.42E-05	C1S	complemei protein_co	12	6988259	7071032	1	p13.31
ENSG00000149591	1.1494	2.2181	0.0154	0.0436	TAGLN	transgelin   protein_co	11	1.17E+08	1.17E+08	1	q23.3
ENSG00000231901	1.1481	2.2163	5.51E-07	5.09E-06	RP11-281A20.1	lincRNA	9	1.18E+08	1.18E+08	-1	q33.1
ENSG00000225833	1.1478	2.2158	0.0039	0.0135	GS1-594A7.3	antisense X		15602881	15621484	1	p22.2
ENSG00000231767	1.1476	2.2154	0.0166	0.0462	MIR4426	microRNA · processed_	1	1.93E+08	1.93E+08	1	q31.2
ENSG00000235174	1.1475	2.2152	0.0036	0.0125	RPL39P3	ribosomal   processed_	6	73373108	73373263	-1	q13
ENSG00000236751	1.1473	2.215	0.0067	0.0215	LINC01186	long interg lincRNA X		46325924	46327645	-1	p11.3
ENSG00000158428	1.1472	2.2149	0.0158	0.0445	CATIP	ciliogenesi protein_co	2	2.18E+08	2.18E+08	1	q35
ENSG00000134825	1.1472	2.2148	4.20E-12	1.23E-10	TMEM258	transmemt protein_co	11	61768501	61792802	-1	q12.2
ENSG00000187905	1.1471	2.2147	0.0182	0.05	LRRC74B	leucine ric protein_co	22	21045960	21064168	1	q11.21
ENSG00000227615	1.1465	2.2137	0.0003	0.0012	RP11-864N7.2	processed_	11	74745716	74746114	-1	q13.4
ENSG00000081870	1.1439	2.2097	1.73E-06	1.42E-05	HSPB11	heat shock protein_co	1	53916574	53945929	-1	p32.3
ENSG00000226781	1.1432	2.2088	0.0101	0.0305	TBCAP1	tubulin folc processed_ X		33041395	33041721	1	p21.1
ENSG00000169020	1.1429	2.2082	1.61E-12	5.26E-11	ATP5I	ATP syntha protein_co	4	672436	674338	-1	p16.3
ENSG00000213123	1.1428	2.2081	0.0045	0.0152	TCTEX1D2	Tctex1 don protein_co	3	1.96E+08	1.96E+08	-1	q29
ENSG00000148057	1.1415	2.206	0.0038	0.0132	IDNK	idnK, gluco protein_co	9	83623049	83644130	1	q21.32
ENSG00000150636	1.1413	2.2058	0.0087	0.0268	CCDC102B	coiled-coil protein_co	18	68715209	69055189	1	q22.1
ENSG00000213609	1.1401	2.204	0.0023	0.0086	RP11-170M17.2	processed_	10	63902451	63903245	-1	q21.3
ENSG00000175600	1.14	2.2038	0.0034	0.0121	SUGCT	succinyl-Cc protein_co	7	40134977	40860763	1	p14.1
ENSG00000196136	1.1398	2.2036	0.0169	0.047	SERPINA3	serpin pepi protein_co	14	94612384	94624055	1	q32.13
ENSG00000167397	1.1384	2.2013	1.04E-08	1.43E-07	VKORC1	vitamin K e protein_co	16	31090842	31095980	-1	p11.2
ENSG00000204397	1.1381	2.2009	6.16E-16	4.53E-14	CARD16	caspase rex protein_co	11	1.05E+08	1.05E+08	-1	q22.3
ENSG00000238005	1.138	2.2008	0.0143	0.0409	RP11-443B7.1	lincRNA	1	2.35E+08	2.35E+08	-1	q42.3

ENSG00000166578	1.1375	2.1999	0.008	0.0251 IQCD	IQ motif co protein_co	12	1.13E+08	1.13E+08	-1 q24.13
ENSG00000100583	1.1373	2.1997	0.0078	0.0245 SAMD15	sterile alph protein_co	14	77376689	77391497	1 q24.3
ENSG00000114473	1.137	2.1993	0.0127	0.0369 IQCG	IQ motif co protein_co	3	1.98E+08	1.98E+08	-1 q29
ENSG00000119655	1.1369	2.1991	7.03E-15	4.07E-13 NPC2	Niemann-P protein_co	14	74476192	74494177	-1 q24.3
ENSG00000163993	1.1368	2.1989	3.85E-09	5.82E-08 S100P	S100 calciu protein_co	4	6693069	6697170	1 p16.1
ENSG00000229453	1.1366	2.1986	0.0081	0.0253 SPINK8	serine pept protein_co	3	48306842	48328341	-1 p21.31
ENSG00000227953	1.1362	2.198	0.0141	0.0403 LINC01341	long interg processed_	1	2.47E+08	2.47E+08	1 q44
ENSG00000101473	1.1354	2.1968	3.99E-26	4.36E-23 ACOT8	acyl-CoA th protein_co	20	45841721	45857406	-1 q13.12
ENSG00000198805	1.1351	2.1964	2.95E-09	4.55E-08 PNP	purine nucl protein_co	14	20468954	20477094	1 q11.2
ENSG00000100196	1.1347	2.1958	2.05E-07	2.08E-06 KDELR3	KDEL (Lys-/ protein_co	22	38468062	38483447	1 q13.1
ENSG00000269028	1.1347	2.1957	2.10E-05	0.0001 MTRNR2L12	MT-RNR2-l protein_co	3	96617188	96618236	-1 q11.2
ENSG00000115128	1.1339	2.1945	6.20E-16	4.54E-14 SF3B6	splicing fac protein_co	2	24067584	24076443	-1 p23.3
ENSG00000205791	1.1322	2.1919	0.0075	0.0237 LOH12CR2	loss of hetε lincRNA	12	12355406	12357067	-1 p13.2
ENSG00000114670	1.1317	2.1911	0.0028	0.0102 NEK11	NIMA-relat protein_co	3	1.31E+08	1.31E+08	1 q22.1
ENSG00000103363	1.1315	2.1909	7.60E-16	5.46E-14 TCEB2	transcriptic protein_co	16	2771414	2777297	-1 p13.3
ENSG00000128886	1.1315	2.1909	0.0105	0.0315 ELL3	elongation protein_co	15	43772600	43777543	-1 q15.3
ENSG00000125743	1.131	2.1901	1.45E-12	4.80E-11 SNRPD2	small nucle protein_co	19	45687454	45692569	-1 q13.32
ENSG00000230202	1.1308	2.1898	7.97E-08	8.95E-07 RP11-632C17__A.1	processed_	6	1.18E+08	1.18E+08	1 q22.2
ENSG00000148803	1.1301	2.1888	1.43E-07	1.52E-06 FUOM	fucose mut protein_co	10	1.33E+08	1.33E+08	-1 q26.3
ENSG00000203780	1.13	2.1886	0.0147	0.0419 FANK1	fibronectin protein_co	10	1.26E+08	1.26E+08	1 q26.2
ENSG00000101000	1.1298	2.1882	5.14E-06	3.81E-05 PROCR	protein C r protein_co	20	35172073	35177362	1 q11.22
ENSG00000163638	1.1297	2.1881	0.015	0.0426 ADAMTS9	ADAM met protein_co	3	64515654	64688000	-1 p14.1
ENSG00000086205	1.1295	2.1878	0.0017	0.0067 FOLH1	folate hydr protein_co	11	49146635	49208670	-1 p11.12
ENSG00000179133	1.128	2.1855	0.0167	0.0465 C10orf67	chromoson protein_co	10	23267195	23344845	-1 p12.2
ENSG00000110442	1.1278	2.1852	2.01E-23	1.07E-20 COMMD9	COMM dor protein_co	11	36269284	36289449	-1 p13
ENSG00000144061	1.1256	2.1819	0.0142	0.0407 NPHP1	nephronop protein_co	2	1.1E+08	1.1E+08	-1 q13
ENSG00000229117	1.1252	2.1813	1.97E-09	3.12E-08 RPL41	ribosomal l protein_co	12	56116586	56117943	1 q13.2
ENSG00000120051	1.125	2.181	0.013	0.0378 CFAP58	cilia and fla protein_co	10	1.04E+08	1.04E+08	1 q25.1
ENSG00000180712	1.1245	2.1803	0.0027	0.0099 RP11-290F5.2	lincRNA	4	1.84E+08	1.84E+08	-1 q35.1
ENSG00000143156	1.1239	2.1794	3.12E-06	2.41E-05 NME7	NME/NM2 protein_co	1	1.69E+08	1.69E+08	-1 q24.2
ENSG00000180509	1.1238	2.1792	0.0137	0.0395 KCNE1	potassium protein_co	21	34446688	34512275	-1 q22.12
ENSG00000111775	1.1237	2.1791	2.62E-13	1.04E-11 COX6A1	cytochrom protein_co	12	1.2E+08	1.2E+08	1 q24.31
ENSG00000108622	1.1237	2.1791	0.0153	0.0432 ICAM2	intercellula protein_co	17	64002594	64020634	-1 q23.3
ENSG00000182093	1.1235	2.1787	2.71E-05	0.0002 WRB	tryptophan protein_co	21	39380244	39428528	1 q22.2
ENSG00000238113	1.122	2.1765	0.0072	0.0229 LINC01410	long interg lincRNA	9	62801461	62813486	1 q13
ENSG00000251331	1.1214	2.1756	0.002	0.0077 RP11-689K5.3	lincRNA	4	81602797	82044244	-1 q21.22
ENSG00000267640	1.1214	2.1756	0.007	0.0222 CTD-2554C21.2	lincRNA	19	37817359	37826638	1 q13.13

ENSG00000242616	1.1208	2.1746	9.90E-12	2.63E-10	GNG10	guanine nu protein_co	9	1.12E+08	1.12E+08	1	q31.3
ENSG00000255874	1.1204	2.174	0.0026	0.0096	LINC00346	long interg lincRNA	13	1.11E+08	1.11E+08	-1	q34
ENSG00000078668	1.1199	2.1732	4.82E-08	5.70E-07	VDAC3	voltage-dep protein_co	8	42391624	42405897	1	p11.21
ENSG00000168542	1.1196	2.1728	0.0009	0.0039	COL3A1	collagen, t) protein_co	2	1.89E+08	1.89E+08	1	q32.2
ENSG00000277075	1.1194	2.1726	0.0028	0.0103	HIST1H2AE	histone clu protein_co	6	26216975	26217367	1	p22.2
ENSG00000189043	1.1187	2.1715	6.87E-14	3.11E-12	NDUFA4	NDUFA4, n protein_co	7	10931951	10940256	-1	p21.3
ENSG00000196954	1.1182	2.1708	5.04E-25	3.96E-22	CASP4	caspace 4, protein_co	11	1.05E+08	1.05E+08	-1	q22.3
ENSG00000243449	1.1176	2.1699	5.35E-08	6.22E-07	C4orf48	chromoson protein_co	4	2041993	2043970	1	p16.3
ENSG00000115252	1.1172	2.1692	0.0004	0.0018	PDE1A	phosphodi protein_co	2	1.82E+08	1.83E+08	-1	q32.1
ENSG00000130066	1.1168	2.1687	5.09E-19	8.14E-17	SAT1	spermidine protein_co X		23783158	23786226	1	p22.11
ENSG00000214253	1.1168	2.1687	1.55E-13	6.50E-12	FIS1	fission 1 (n protein_co	7	1.01E+08	1.01E+08	-1	q22.1
ENSG00000246228	1.1168	2.1687	2.95E-05	0.0002	CASC8	cancer susc antisense	8	1.27E+08	1.27E+08	-1	q24.21
ENSG00000127540	1.1166	2.1683	7.85E-20	1.54E-17	UQCR11	ubiquinol-c protein_co	19	1597172	1605490	-1	p13.3
ENSG00000137691	1.1157	2.167	0.0146	0.0415	C11orf70	chromoson protein_co	11	1.02E+08	1.02E+08	1	q22.1
ENSG00000136688	1.115	2.166	0.0092	0.0281	IL36G	interleukin protein_co	2	1.13E+08	1.13E+08	1	q14.1
ENSG00000157045	1.1139	2.1643	4.32E-16	3.35E-14	NTAN1	N-terminal protein_co	16	15037853	15056079	-1	p13.11
ENSG00000163220	1.1135	2.1638	1.58E-06	1.31E-05	S100A9	S100 calciu protein_co	1	1.53E+08	1.53E+08	1	q21.3
ENSG00000197646	1.1134	2.1635	0.002	0.0075	PDCD1LG2	programm protein_co	9	5510570	5571254	1	p24.1
ENSG00000152763	1.1133	2.1634	0.0177	0.0488	WDR78	WD repeat protein_co	1	66812885	66924887	-1	p31.3
ENSG00000112695	1.1127	2.1625	3.15E-13	1.22E-11	COX7A2	cytochrom protein_co	6	75237675	75250323	-1	q14.1
ENSG00000149196	1.1126	2.1623	4.13E-19	6.77E-17	C11orf73	chromoson protein_co	11	86302211	86345931	1	q14.2
ENSG00000259146	1.1123	2.1618	0.012	0.0352	RP1-261D10.2	antisense	14	71292729	71321814	-1	q24.2
ENSG00000162755	1.1118	2.1611	0.0068	0.0216	KLHDC9	kelch domæ protein_co	1	1.61E+08	1.61E+08	1	q23.3
ENSG00000185088	1.1109	2.1599	6.50E-11	1.46E-09	RPS27L	ribosomal ) protein_co	15	63125872	63158021	-1	q22.2
ENSG00000132010	1.1109	2.1598	0.0101	0.0304	ZNF20	zinc finger protein_co	19	12092843	12140407	-1	p13.2
ENSG00000227375	1.1096	2.1578	0.0021	0.0081	DLG1-AS1	DLG1 antis antisense	3	1.97E+08	1.97E+08	1	q29
ENSG00000169976	1.1094	2.1576	5.04E-13	1.85E-11	SF3B5	splicing fac protein_co	6	1.44E+08	1.44E+08	-1	q24.2
ENSG00000260552	1.1093	2.1574	0.0025	0.0093	RP11-49111.1	antisense	18	36179996	36187448	-1	q12.2
ENSG00000274015	1.1072	2.1543	0.0052	0.0173	CTD-2302E22.6	lincRNA	14	63642143	63642696	1	q23.2
ENSG00000128185	1.1063	2.153	3.37E-11	8.01E-10	DGCR6L	DiGeorge s protein_co	22	20314276	20320080	-1	q11.21
ENSG00000250303	1.1061	2.1527	1.73E-05	0.0001	RP11-356J5.12	lincRNA	11	1.12E+08	1.12E+08	1	q23.1
ENSG00000180596	1.1054	2.1516	0.0009	0.0039	HIST1H2BC	histone clu protein_co	6	26114873	26123926	-1	p22.2
ENSG00000162643	1.1054	2.1516	0.0148	0.0421	WDR63	WD repeat protein_co	1	84999147	85133138	1	p22.3
ENSG00000090263	1.1051	2.1511	8.69E-10	1.49E-08	MRPS33	mitochond protein_co	7	1.41E+08	1.41E+08	-1	q34
ENSG00000135218	1.1045	2.1502	9.61E-06	6.74E-05	CD36	CD36 mole protein_co	7	80369575	80679277	1	q21.11
ENSG00000168306	1.1042	2.1497	0.0096	0.0293	ACOX2	acyl-CoA o: protein_co	3	58505136	58537319	-1	p14.3
ENSG00000259420	1.1037	2.149	0.0012	0.005	RP11-307C19.2	lincRNA	15	77568970	77608888	1	q24.3



ENSG00000260809	1.1031	2.1481	0.0159	0.0446	CTD-2144E22.10	unprocesse	16	35090501	35104834	1	p11.2
ENSG00000198712	1.102	2.1465	1.73E-16	1.45E-14	MT-CO2	mitochond protein_co	17	7586	8269	1	
ENSG00000217555	1.1014	2.1456	3.28E-06	2.52E-05	CKLF	chemokine protein_co	16	66552563	66566251	1	q21
ENSG00000170454	1.1012	2.1454	0.0074	0.0234	KRT75	keratin 75   protein_co	12	52424070	52434525	-1	q13.13
ENSG00000180879	1.101	2.1451	1.32E-12	4.45E-11	SSR4	signal sequ protein_co X	1	1.54E+08	1.54E+08	1	q28
ENSG00000182518	1.101	2.145	0.0001	0.0007	FAM104B	family with protein_co X	1	55143102	55161310	-1	p11.21
ENSG00000161249	1.1002	2.1438	1.33E-06	1.12E-05	DMKN	dermokine protein_co	19	35497220	35513658	-1	q13.12
ENSG00000175768	1.0993	2.1424	1.81E-08	2.33E-07	TOMM5	translocase protein_co	9	37582646	37592642	-1	p13.2
ENSG00000129255	1.0989	2.1419	5.88E-16	4.34E-14	MPDU1	mannose-P protein_co	17	7583529	7592789	1	p13.1
ENSG00000073737	1.0984	2.1412	8.21E-15	4.69E-13	DHRS9	dehydroge protein_co	2	1.69E+08	1.69E+08	1	q31.1
ENSG00000100336	1.0978	2.1403	0.0004	0.0018	APOL4	apolipopro protein_co	22	36189124	36204840	-1	q12.3
ENSG00000150779	1.0974	2.1396	5.05E-11	1.16E-09	TIMM8B	translocase protein_co	11	1.12E+08	1.12E+08	-1	q23.1
ENSG00000099795	1.0969	2.1389	4.15E-10	7.74E-09	NDUFB7	NADH dehy protein_co	19	14566078	14572062	-1	p13.12
ENSG00000198918	1.0967	2.1387	8.35E-09	1.17E-07	RPL39	ribosomal   protein_co X	1	1.2E+08	1.2E+08	-1	q24
ENSG00000198721	1.0964	2.1383	7.01E-05	0.0004	ECI2	enoyl-CoA protein_co	6	4115689	4135597	-1	p25.2
ENSG00000143575	1.0958	2.1373	1.13E-13	4.87E-12	HAX1	HCLS1 asso protein_co	1	1.54E+08	1.54E+08	1	q21.3
ENSG00000163040	1.0953	2.1365	0.0116	0.0344	CCDC74A	coiled-coil   protein_co	2	1.32E+08	1.32E+08	1	q21.1
ENSG00000148082	1.095	2.1361	0.0043	0.0148	SHC3	SHC (Src hc protein_co	9	89013145	89178767	-1	q22.1
ENSG00000198125	1.0945	2.1353	0.0056	0.0183	MB	myoglobin protein_co	22	35606764	35637951	-1	q12.3
ENSG00000005189	1.0944	2.1352	0.0078	0.0244	AC004381.6	Putative R  protein_co	16	20806429	20849668	1	p12.3
ENSG00000242299	1.094	2.1347	3.24E-05	0.0002	RP11-234A1.1	processed_	3	1.02E+08	1.02E+08	-1	q12.3
ENSG00000109971	1.0937	2.1342	2.47E-20	5.64E-18	HSPA8	heat shock protein_co	11	1.23E+08	1.23E+08	-1	q24.1
ENSG00000124172	1.0931	2.1334	1.34E-14	7.23E-13	ATP5E	ATP syntha protein_co	20	59025467	59032382	-1	q13.32
ENSG00000149292	1.0928	2.1328	9.75E-05	0.0005	TTC12	tetratricop protein_co	11	1.13E+08	1.13E+08	1	q23.2
ENSG00000236814	1.0911	2.1304	0.0009	0.0039	RP11-446E9.1	processed_	8	56050038	56051207	-1	q12.1
ENSG00000090266	1.0906	2.1296	1.82E-13	7.49E-12	NDUFB2	NADH dehy protein_co	7	1.41E+08	1.41E+08	1	q34
ENSG00000250182	1.0897	2.1283	2.31E-05	0.0001	EEF1A1P13	eukaryotic processed_	5	14651941	14653329	-1	p15.2
ENSG00000126756	1.0892	2.1276	4.26E-10	7.91E-09	UXT	ubiquitous  protein_co X	1	47651798	47659161	-1	p11.23
ENSG00000231769	1.0891	2.1274	0.0073	0.023	RP1-8B1.4	antisense	6	46097093	46129706	-1	p21.1
ENSG00000237506	1.0886	2.1267	0.0007	0.0032	RPSAP15	ribosomal   processed_ X	1	87703343	87704203	-1	q21.31
ENSG00000182165	1.0877	2.1254	1.47E-18	2.14E-16	TP53TG1	TP53 targe lincRNA	7	87325225	87345515	-1	q21.12
ENSG00000134809	1.0869	2.1242	1.33E-13	5.62E-12	TIMM10	translocase protein_co	11	57528463	57530803	-1	q12.1
ENSG00000204323	1.0868	2.124	0.0031	0.011	SMIM5	small integ protein_co	17	75633434	75641404	1	q25.1
ENSG00000137210	1.0864	2.1234	8.38E-11	1.83E-09	TMEM14B	transmem  protein_co	6	10747759	10852753	1	p24.2
ENSG00000152076	1.0863	2.1232	0.0173	0.0478	CCDC74B	coiled-coil   protein_co	2	1.3E+08	1.3E+08	-1	q21.1
ENSG00000181817	1.0856	2.1223	1.84E-14	9.62E-13	LSM10	LSM10, U7 protein_co	1	36391238	36397892	-1	p34.3
ENSG00000173915	1.0855	2.1222	1.30E-14	7.07E-13	USMG5	up-regulat  protein_co	10	1.03E+08	1.03E+08	-1	q24.33

ENSG00000189157	1.0854	2.122	0.0107	0.0321 FAM47E	family with protein_co	4	76214040	76283780	1 q21.1
ENSG00000170310	1.085	2.1214	7.95E-13	2.81E-11 STX8	syntaxin 8  protein_co	17	9250471	9576591	-1 p13.1
ENSG00000196611	1.085	2.1214	0.0129	0.0375 MMP1	matrix met protein_co	11	1.03E+08	1.03E+08	-1 q22.2
ENSG00000129559	1.0841	2.1201	3.06E-21	9.87E-19 NEDD8	neural prec protein_co	14	24216852	24232454	-1 q12
ENSG00000102393	1.0838	2.1196	1.73E-20	4.35E-18 GLA	galactosida protein_co X		1.01E+08	1.01E+08	-1 q22.1
ENSG00000070081	1.0837	2.1195	8.59E-05	0.0005 NUCB2	nucleobind protein_co	11	17208153	17349974	1 p15.1
ENSG00000123353	1.0831	2.1187	6.96E-21	1.93E-18 ORMDL2	ORMDL spl protein_co	12	55817919	55821879	1 q13.2
ENSG00000172301	1.083	2.1185	2.22E-05	0.0001 COPRS	coordinato protein_co	17	31851864	31859337	-1 q11.2
ENSG00000248771	1.0825	2.1177	0.0001	0.0007 LINC01207	long interg lincRNA	4	1.65E+08	1.65E+08	1 q32.3
ENSG00000134769	1.0824	2.1176	0.0017	0.0066 DTNA	dystrobrev protein_co	18	34493290	34891844	1 q12.1
ENSG00000167840	1.0811	2.1157	1.67E-05	0.0001 ZNF232	zinc finger protein_co	17	5105541	5123116	-1 p13.2
ENSG00000116701	1.0809	2.1153	6.80E-08	7.75E-07 NCF2	neutrophil protein_co	1	1.84E+08	1.84E+08	-1 q25.3
ENSG00000125691	1.0807	2.1151	1.05E-08	1.44E-07 RPL23	ribosomal  protein_co	17	38847865	38853843	-1 q12
ENSG00000114446	1.0799	2.1138	0.0011	0.0044 IFT57	intraflagell. protein_co	3	1.08E+08	1.08E+08	-1 q13.13
ENSG00000213757	1.0795	2.1133	0.0048	0.0162 CTC-451P13.1	processed_	5	79284132	79284918	-1 q14.1
ENSG00000105258	1.0792	2.1129	0.0004	0.0019 POLR2I	polymeras protein_co	19	36113710	36115346	-1 q13.12
ENSG00000131174	1.0791	2.1127	1.95E-10	3.95E-09 COX7B	cytochrom protein_co X		77899438	77907373	1 q21.1
ENSG00000106686	1.0789	2.1124	0.0047	0.0158 SPATA6L	spermatog protein_co	9	4553386	4666674	-1 p24.1
ENSG00000196754	1.0787	2.1121	8.73E-09	1.22E-07 S100A2	S100 calciu protein_co	1	1.54E+08	1.54E+08	-1 q21.3
ENSG00000047936	1.0782	2.1114	0.0143	0.041 ROS1	ROS proto- protein_co	6	1.17E+08	1.17E+08	-1 q22.1
ENSG00000205838	1.0776	2.1106	0.0125	0.0364 TTC23L	tetratricop protein_co	5	34838833	34899456	1 p13.2
ENSG00000184831	1.0768	2.1093	0.0002	0.0008 APOO	apolipopro protein_co X		23833353	23907934	-1 p22.11
ENSG00000143933	1.0766	2.1091	1.24E-14	6.85E-13 CALM2	calmodulin protein_co	2	47160082	47176601	-1 p21
ENSG00000256940	1.0766	2.109	4.93E-05	0.0003 RP11-783K16.5	antisense	11	64245964	64248217	1 q13.1
ENSG00000165078	1.076	2.1082	0.0171	0.0475 CPA6	carboxype protein_co	8	67422125	67746345	-1 q13.2
ENSG00000230266	1.0757	2.1077	0.018	0.0495 XXYL1-AS2	XXYL1 ant antisense	3	1.95E+08	1.95E+08	1 q29
ENSG00000250988	1.0756	2.1076	0.0172	0.0477 SNHG21	small nucle antisense	15	82750564	82757206	1 q25.2
ENSG00000167136	1.0754	2.1073	0.0003	0.0013 ENDOG	endonucle; protein_co	9	1.29E+08	1.29E+08	1 q34.11
ENSG00000249051	1.075	2.1068	0.0144	0.0412 RP11-447E20.1	processed_	4	73777636	73778060	-1 q13.3
ENSG00000169989	1.075	2.1067	0.0112	0.0332 TIGD4	tigger tran; protein_co	4	1.53E+08	1.53E+08	-1 q31.3
ENSG00000230037	1.0744	2.1059	0.0045	0.0152 UBBP1	ubiquitin B processed_	2	1.36E+08	1.36E+08	-1 q22.1
ENSG00000151320	1.0729	2.1036	0.0051	0.017 AKAP6	A kinase (P protein_co	14	32329273	32837681	1 q12
ENSG00000178464	1.0718	2.102	4.93E-05	0.0003 CTD-2192J16.15	processed_	19	12643275	12643919	-1 p13.13
ENSG00000230383	1.0716	2.1017	0.004	0.0137 AC009245.3	processed_	7	1.38E+08	1.38E+08	1 q33
ENSG00000197345	1.0714	2.1015	1.00E-07	1.09E-06 MRPL21	mitochond protein_co	11	68891276	68903835	-1 q13.3
ENSG00000120509	1.0713	2.1013	1.09E-16	9.66E-15 PDZD11	PDZ domai protein_co X		70286595	70290514	-1 q13.1
ENSG00000106245	1.071	2.101	3.13E-14	1.56E-12 BUD31	BUD31 hor protein_co	7	99408641	99419616	1 q22.1

ENSG00000132429	1.071	2.1008	0.0137	0.0395 POPDC3	popeye doi protein_co	6	1.05E+08	1.05E+08	-1 q21
ENSG00000129562	1.0708	2.1007	5.39E-17	5.22E-15 DAD1	defender a protein_co	14	22564905	22589269	-1 q11.2
ENSG00000189366	1.0707	2.1004	0.0061	0.0198 ALG1L	ALG1, chitc protein_co	3	1.26E+08	1.26E+08	-1 q21.2
ENSG00000276171	1.0705	2.1001	0.0036	0.0125 AC114498.1	miRNA	1	630896	630958	1 p36.33
ENSG00000230943	1.0687	2.0975	0.0002	0.0009 RP11-367G18.1	lincRNA	6	1.14E+08	1.14E+08	-1 q21
ENSG00000206199	1.0686	2.0974	0.015	0.0427 ANKUB1	ankyrin re protein_co	3	1.5E+08	1.5E+08	-1 q25.1
ENSG00000164587	1.0685	2.0973	2.09E-07	2.13E-06 RPS14	ribosomal l protein_co	5	1.5E+08	1.5E+08	-1 q33.1
ENSG00000115350	1.0673	2.0955	6.99E-14	3.15E-12 POLE4	polymeras protein_co	2	74958492	74970128	1 p12
ENSG00000171860	1.0663	2.094	0.0105	0.0314 C3AR1	complemei protein_co	12	8058302	8066471	-1 p13.31
ENSG00000239467	1.0658	2.0934	0.0179	0.0492 ERICH2	glutamate- lincRNA	2	1.71E+08	1.71E+08	1 q31.1
ENSG00000171428	1.0656	2.0931	0.0001	0.0007 NAT1	N-acetyltra protein_co	8	18170477	18223689	1 p22
ENSG00000254473	1.0656	2.093	3.93E-06	2.98E-05 RP11-522I20.3	antisense	9	83707594	83713378	1 q21.32
ENSG00000103253	1.0654	2.0928	0.0079	0.0248 HAGHL	hydroxyacy protein_co	16	726936	735525	1 p13.3
ENSG00000198270	1.0646	2.0916	2.31E-11	5.70E-10 TMEM116	transmemt protein_co	12	1.12E+08	1.12E+08	-1 q24.13
ENSG00000106258	1.0642	2.091	0.0052	0.0173 CYP3A5	cytochrom protein_co	7	99648194	99679998	-1 q22.1
ENSG00000106400	1.0638	2.0904	2.53E-21	8.29E-19 ZNHIT1	zinc finger, protein_co	7	1.01E+08	1.01E+08	1 q22.1
ENSG00000204444	1.0634	2.0898	0.0093	0.0283 APOM	apolipopro protein_co	6	31652416	31658210	1 p21.33
ENSG00000102078	1.0632	2.0896	0.0008	0.0033 SLC25A14	solute carri protein_co X		1.3E+08	1.3E+08	1 q26.1
ENSG00000126267	1.0631	2.0893	4.54E-10	8.38E-09 COX6B1	cytochrom protein_co	19	35648223	35658861	1 q13.12
ENSG00000167550	1.0612	2.0866	0.0141	0.0404 RHEBL1	Ras homok protein_co	12	49064685	49070025	-1 q13.12
ENSG00000049192	1.06	2.0849	0.013	0.0377 ADAMTS6	ADAM met protein_co	5	65148736	65481920	-1 q12.3
ENSG00000196139	1.059	2.0835	3.65E-19	6.08E-17 AKR1C3	aldo-keto r protein_co	10	5035354	5107686	1 p15.1
ENSG00000182117	1.0588	2.0832	5.03E-15	2.99E-13 NOP10	NOP10 ribc protein_co	15	34341713	34343177	-1 q14
ENSG00000242574	1.0576	2.0814	1.19E-08	1.61E-07 HLA-DMB	major histc protein_co	6	32934629	32941070	-1 p21.32
ENSG00000220842	1.0575	2.0813	4.92E-06	3.65E-05 RP11-572P18.1	processed_	10	1.2E+08	1.2E+08	-1 q26.12
ENSG00000105619	1.056	2.0791	4.54E-10	8.38E-09 TFPT	TCF3 (E2A) protein_co	19	54107013	54115675	-1 q13.42
ENSG00000136930	1.0542	2.0766	2.22E-20	5.26E-18 PSMB7	proteasom protein_co	9	1.24E+08	1.24E+08	-1 q33.3
ENSG00000183648	1.0535	2.0755	5.38E-11	1.23E-09 NDUFB1	NADH dehy protein_co	14	92116122	92121917	-1 q32.12
ENSG00000248538	1.0532	2.0752	0.0162	0.0454 RP11-10A14.5	lincRNA	8	9189011	9202854	1 p23.1
ENSG00000129007	1.0524	2.074	0.0083	0.0258 CALML4	calmodulin protein_co	15	68190705	68206110	-1 q23
ENSG00000174917	1.0518	2.0731	1.66E-09	2.67E-08 C19orf70	chromoson protein_co	19	5678421	5680896	-1 p13.3
ENSG00000228474	1.0509	2.0718	3.65E-14	1.78E-12 OST4	oligosacch protein_co	2	27070472	27071773	-1 p23.3
ENSG00000241468	1.0502	2.0708	3.08E-30	7.57E-27 ATP5J2	ATP syntha protein_co	7	99448475	99466331	-1 q22.1
ENSG00000106541	1.0502	2.0708	1.57E-06	1.30E-05 AGR2	anterior gr. protein_co	7	16791811	16833433	-1 p21.1
ENSG00000233834	1.0491	2.0693	0.0009	0.0037 AC005083.1	processed_	7	20217577	20221700	1 p21.1
ENSG00000136235	1.0479	2.0675	0.0039	0.0135 GPNMB	glycoprotei protein_co	7	23235967	23275108	1 p15.3
ENSG00000164627	1.0476	2.0671	0.0174	0.0481 KIF6	kinesin far protein_co	6	39329990	39725405	-1 p21.2

ENSG00000160124	1.0474	2.0668	2.43E-10	4.84E-09	CCDC58	coiled-coil protein_co	3	1.22E+08	1.22E+08	-1	q21.1
ENSG00000158813	1.0472	2.0665	0.0016	0.0062	EDA	ectodyspla protein_co X	69616067	70039469		1	q13.1
ENSG00000112303	1.0459	2.0646	1.57E-07	1.65E-06	VNN2	vanin 2 [So protein_co	6	1.33E+08	1.33E+08	-1	q23.2
ENSG00000174547	1.0455	2.0641	3.53E-08	4.30E-07	MRPL11	mitochond protein_co	11	66435075	66466738	-1	q13.2
ENSG00000117069	1.0444	2.0625	0.0094	0.0288	ST6GALNAC5	ST6 (alpha- protein_co	1	76867441	77065711	1	p31.1
ENSG00000124107	1.0438	2.0616	6.40E-06	4.66E-05	SLPI	secretory li protein_co	20	45252239	45254564	-1	q13.12
ENSG00000163319	1.0431	2.0607	5.45E-12	1.55E-10	MRPS18C	mitochond protein_co	4	83455932	83469735	1	q21.23
ENSG00000022267	1.0424	2.0596	0.0001	0.0006	FHL1	four and a protein_co X		1.36E+08	1.36E+08	1	q26.3
ENSG00000138378	1.0418	2.0588	0.0001	0.0006	STAT4	signal trans protein_co	2	1.91E+08	1.91E+08	-1	q32.3
ENSG00000251307	1.0412	2.0579	0.0012	0.0049	RP11-506H20.1	antisense	5	55233934	55295201	1	q11.2
ENSG00000100319	1.0402	2.0565	1.81E-11	4.55E-10	ZMAT5	zinc finger, protein_co	22	29730956	29767011	-1	q12.2
ENSG00000138495	1.04	2.0562	1.34E-13	5.69E-12	COX17	COX17 cytc protein_co	3	1.2E+08	1.2E+08	-1	q13.33
ENSG00000065534	1.0396	2.0557	8.98E-05	0.0005	MYLK	myosin ligh protein_co	3	1.24E+08	1.24E+08	-1	q21.1
ENSG00000264920	1.0375	2.0526	4.85E-07	4.52E-06	RP11-6N17.4	processed_	17	47891255	47895812	-1	q21.32
ENSG00000041357	1.0363	2.051	1.77E-20	4.35E-18	PSMA4	proteasom protein_co	15	78540405	78552419	1	q25.1
ENSG00000113068	1.0363	2.0509	2.52E-21	8.29E-19	PFDN1	prefoldin si protein_co	5	1.4E+08	1.4E+08	-1	q31.3
ENSG00000058799	1.0361	2.0506	8.18E-20	1.59E-17	YIPF1	Yip1 domai protein_co	1	53851719	53889834	-1	p32.3
ENSG00000142168	1.0344	2.0483	1.13E-10	2.42E-09	SOD1	superoxide protein_co	21	31659622	31668931	1	q22.11
ENSG00000255435	1.0337	2.0472	0.0096	0.0291	RP11-770J1.3	antisense	11	1.19E+08	1.19E+08	-1	q23.3
ENSG00000174175	1.0336	2.0471	0.0072	0.0228	SELP	selectin P ( protein_co	1	1.7E+08	1.7E+08	-1	q24.2
ENSG00000185038	1.0333	2.0468	0.0086	0.0265	MROH2A	maestro he protein_co	2	2.34E+08	2.34E+08	1	q37.1
ENSG00000127184	1.0324	2.0454	3.34E-10	6.40E-09	COX7C	cytochrom protein_co	5	86617904	86620962	1	q14.3
ENSG00000106399	1.0321	2.045	4.80E-05	0.0003	RPA3	replication protein_co	7	7636518	7718607	-1	p21.3
ENSG00000157578	1.0314	2.044	0.0107	0.032	LCA5L	Leber cong protein_co	21	39405844	39445805	-1	q22.2
ENSG00000268129	1.0313	2.0438	0.0024	0.009	RP11-91G21.1	lincRNA	3	1.43E+08	1.43E+08	-1	q23
ENSG00000101187	1.0312	2.0438	0.0125	0.0366	SLCO4A1	solute carri protein_co	20	62642445	62685785	1	q13.33
ENSG00000168894	1.0312	2.0437	9.27E-20	1.75E-17	RNF181	ring finger protein_co	2	85595725	85597613	1	p11.2
ENSG00000162174	1.0308	2.0431	0.001	0.004	ASRGL1	asparagina protein_co	11	62337448	62393412	1	q12.3
ENSG00000171303	1.0305	2.0428	0.0065	0.0209	KCNK3	potassium protein_co	2	26692690	26733420	1	p23.3
ENSG00000135617	1.0304	2.0425	6.74E-17	6.37E-15	PRADC1	protease-a protein_co	2	73228006	73233238	-1	p13.2
ENSG00000197415	1.0301	2.0422	5.39E-05	0.0003	VEPH1	ventricular protein_co	3	1.57E+08	1.58E+08	-1	q25.32
ENSG00000170315	1.0299	2.0419	6.71E-13	2.41E-11	UBB	ubiquitin B protein_co	17	16380798	16382745	1	p11.2
ENSG00000102309	1.0292	2.0409	4.25E-13	1.59E-11	PIN4	protein (pe protein_co X		72181353	72302926	1	q13.1
ENSG00000178449	1.0291	2.0407	8.98E-14	3.95E-12	COX14	cytochrom protein_co	12	50111979	50120457	1	q13.12
ENSG00000272369	1.0273	2.0381	0.0109	0.0325	RP11-446N19.1	lincRNA	12	46537502	46652550	1	q13.11
ENSG00000236810	1.0269	2.0376	0.0028	0.0102	TCEB3-AS1	TCEB3 anti: antisense	1	23760382	23778287	-1	p36.11
ENSG00000277791	1.0259	2.0362	6.22E-18	7.69E-16	PSMB3	proteasom protein_co	17	38752736	38764231	1	q12

ENSG00000032389	1.0259	2.0362	1.52E-10	3.15E-09	TSSC1	tumor suppressor protein_co	2	3188925	3377882	-1	p25.3
ENSG00000254271	1.0257	2.0359	0.0112	0.0332	RP11-131N11.4	lincRNA	10	60734342	60741828	1	q21.2
ENSG00000071082	1.0253	2.0353	3.10E-06	2.40E-05	RPL31	ribosomal protein_co	2	1.01E+08	1.01E+08	1	q11.2
ENSG00000105048	1.0249	2.0348	0.0052	0.0173	TNNT1	troponin T protein_co	19	55132794	55149354	-1	q13.42
ENSG00000168038	1.0247	2.0345	0.0057	0.0185	ULK4	unc-51 like protein_co	3	41246599	41962430	-1	p22.1
ENSG00000169372	1.0241	2.0336	1.24E-11	3.24E-10	CRADD	CASP2 and protein_co	12	93677375	93894840	1	q22
ENSG00000239672	1.0229	2.032	1.40E-15	9.41E-14	NME1	NME/NM2 protein_co	17	51153536	51162428	1	q21.33
ENSG00000162961	1.0212	2.0296	1.53E-05	0.0001	DPY30	dpy-30 homolog protein_co	2	31867809	32039812	-1	p22.3
ENSG00000188404	1.021	2.0293	0.0035	0.0123	SELL	selectin L protein_co	1	1.7E+08	1.7E+08	-1	q24.2
ENSG00000151500	1.0209	2.0291	2.42E-18	3.26E-16	THYN1	thymocyte protein_co	11	1.34E+08	1.34E+08	-1	q25
ENSG00000103811	1.0206	2.0287	3.61E-17	3.64E-15	CTSH	cathepsin B protein_co	15	78921058	78949574	-1	q25.1
ENSG00000150787	1.0205	2.0287	2.86E-13	1.13E-11	PTS	6-pyruvoyl protein_co	11	1.12E+08	1.12E+08	1	q23.1
ENSG00000170906	1.02	2.028	3.79E-15	2.30E-13	NDUFA3	NADH dehydrogenase protein_co	19	54102728	54109257	1	q13.42
ENSG00000231770	1.0194	2.0271	0.0018	0.0071	TMEM44-AS1	TMEM44 antisense	3	1.95E+08	1.95E+08	1	q29
ENSG00000185664	1.0176	2.0245	0.0009	0.004	PMEL	premelano protein_co	12	55954105	55973317	-1	q13.2
ENSG00000241794	1.017	2.0237	0.0172	0.0475	SPRR2A	small proline rich protein_co	1	1.53E+08	1.53E+08	-1	q21.3
ENSG00000197635	1.0154	2.0215	0.0018	0.0069	DPP4	dipeptidyl aminopeptidase protein_co	2	1.62E+08	1.62E+08	-1	q24.2
ENSG00000101132	1.0152	2.0212	9.14E-10	1.56E-08	PFDN4	prefoldin subunit 4 protein_co	20	54207847	54228052	1	q13.2
ENSG00000154719	1.0144	2.0201	1.99E-13	8.13E-12	MRPL39	mitochondrial ribosomal protein_co	21	25585656	25607517	-1	q21.3
ENSG00000119705	1.0136	2.0189	1.59E-10	3.28E-09	SLIRP	SRA stem-loop protein_co	14	77708071	77761104	1	q24.3
ENSG00000131495	1.0124	2.0173	4.40E-12	1.28E-10	NDUFA2	NADH dehydrogenase protein_co	5	1.41E+08	1.41E+08	-1	q31.3
ENSG00000175701	1.0124	2.0173	1.77E-09	2.83E-08	LINC00116	long intergenic non-coding RNA	2	1.1E+08	1.1E+08	-1	q13
ENSG00000165171	1.0123	2.0172	0.0138	0.0397	WBSCR27	Williams-Beuren syndrome critical region 27 protein_co	7	73834590	73842535	-1	q11.23
ENSG00000242071	1.0116	2.0162	0.0001	0.0008	RPL7AP6	ribosomal protein L7 processed	14	69885340	69886140	-1	q24.2
ENSG00000139055	1.0116	2.0161	1.27E-06	1.08E-05	ERP27	endoplasmic reticulum protein_co	12	14914035	14939082	-1	p12.3
ENSG00000225243	1.0109	2.0152	0.0017	0.0066	RP1-127D3.4	antisense	1	1.71E+08	1.71E+08	-1	q24.3
ENSG00000210154	1.0107	2.0149	0.0066	0.0211	MT-TD	mitochondrial tRNA		7518	7585	1	
ENSG00000160207	1.0086	2.0119	0.0056	0.0185	HSF2BP	heat shock protein 2 protein_co	21	43529192	43659493	-1	q22.3
ENSG00000136942	1.0084	2.0117	2.62E-06	2.05E-05	RPL35	ribosomal protein L35	9	1.25E+08	1.25E+08	-1	q33.3
ENSG00000232112	1.0082	2.0114	3.42E-23	1.77E-20	TMA7	translation initiation factor 7 protein_co	3	48440257	48444208	1	p21.31
ENSG00000243955	1.0082	2.0114	4.52E-05	0.0003	GSTA1	glutathione S-transferase protein_co	6	52791664	52803910	-1	p12.2
ENSG00000170954	1.008	2.0112	5.92E-08	6.83E-07	ZNF415	zinc finger protein 415 protein_co	19	53107879	53133077	-1	q13.42
ENSG00000185608	1.0068	2.0095	4.73E-08	5.60E-07	MRPL40	mitochondrial ribosomal protein_co	22	19431902	19436075	1	q11.21
ENSG00000214274	1.0057	2.008	0.0134	0.0387	ANG	angiogenin protein_co	14	20684177	20698971	1	q11.2
ENSG00000175449	1.0033	2.0046	0.0008	0.0034	RFESD	Rieske iron-sulfur protein protein_co	5	95646754	95684773	1	q15
ENSG00000232388	1.0023	2.0031	3.31E-09	5.05E-08	LINC00493	long intergenic non-coding RNA	20	18567347	18569563	1	p11.23
ENSG00000183011	1.0022	2.0031	1.10E-08	1.50E-07	NAA38	N(alpha)-amino acid oxidase protein_co	17	7856685	7885238	-1	p13.1



ENSG00000108590	1.0023	2.0031	2.26E-06	1.80E-05	MED31	mediator c protein_co	17	6643315	6651634	-1	p13.1
ENSG00000113312	1.0019	2.0027	1.64E-34	1.61E-30	TTC1	tetratricop protein_co	5	1.6E+08	1.6E+08	1	q33.3
ENSG00000164182	1.001	2.0014	4.02E-10	7.56E-09	NDUFAF2	NADH dehyd protein_co	5	60945129	61153037	1	q12.1
ENSG00000276170	1.001	2.0014	0.0065	0.0208	AC124789.1	processed_	17	38450394	38452444	-1	q12
ENSG00000186132	1.0004	2.0006	6.59E-05	0.0004	C2orf76	chromoson protein_co	2	1.19E+08	1.19E+08	-1	q14.2
ENSG00000147403	1.0004	2.0005	8.16E-09	1.15E-07	RPL10	ribosomal l protein_co X		1.54E+08	1.54E+08	1	q28
ENSG00000143450	0.9999	1.9998	0.001	0.0043	OAZ3	ornithine d protein_co	1	1.52E+08	1.52E+08	1	q21.3
ENSG00000134419	0.9993	1.999	7.48E-07	6.71E-06	RPS15A	ribosomal l protein_co	16	18781295	18790383	-1	p12.3
ENSG00000107223	0.9989	1.9985	2.70E-17	2.87E-15	EDF1	endothelia protein_co	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000167523	0.9986	1.9981	0.0124	0.0362	SPATA33	spermatog protein_co	16	89657802	89671272	1	q24.3
ENSG00000278709	0.998	1.9972	0.0154	0.0435	RP5-1059L7.1	antisense	20	57710183	57712780	1	q13.31
ENSG00000130731	0.9978	1.997	1.28E-13	5.45E-12	C16orf13	chromoson protein_co	16	634427	636366	-1	p13.3
ENSG00000164405	0.9965	1.9951	9.85E-12	2.63E-10	UQCRQ	ubiquinol-c protein_co	5	1.33E+08	1.33E+08	1	q31.1
ENSG00000272047	0.9964	1.995	2.69E-10	5.27E-09	GTF2H5	general tra protein_co	6	1.58E+08	1.58E+08	1	q25.3
ENSG00000138772	0.9961	1.9946	3.56E-07	3.42E-06	ANXA3	annexin A3 protein_co	4	78551519	78610451	1	q21.21
ENSG00000125995	0.9959	1.9943	1.52E-10	3.16E-09	ROMO1	reactive ox protein_co	20	35699272	35700984	1	q11.22
ENSG00000229666	0.9958	1.9942	0.0006	0.0027	MAST4-AS1	MAST4 ant antisense	5	67001383	67003953	-1	q12.3
ENSG00000185222	0.9954	1.9936	7.43E-11	1.64E-09	WBP5	WW domai protein_co X		1.03E+08	1.03E+08	1	q22.2
ENSG00000169599	0.9931	1.9904	9.91E-22	3.85E-19	NFU1	NFU1 iron- protein_co	2	69395750	69437628	-1	p13.3
ENSG00000172809	0.9929	1.9902	2.90E-14	1.45E-12	RPL38	ribosomal l protein_co	17	74203582	74210655	1	q25.1
ENSG00000070761	0.9929	1.9901	1.59E-05	0.0001	CFAP20	cilia and fla protein_co	16	58113588	58129450	-1	q21
ENSG00000247498	0.992	1.9889	0.0019	0.0073	RP11-392P7.6	antisense	12	12927726	12984645	1	p13.1
ENSG00000116741	0.9911	1.9877	2.31E-05	0.0001	RGS2	regulator o protein_co	1	1.93E+08	1.93E+08	1	q31.2
ENSG00000215267	0.9907	1.9871	0.0044	0.0151	AKR1C7P	aldo-keto r transcribec	10	5275173	5288470	-1	p15.1
ENSG00000185043	0.9904	1.9867	2.87E-05	0.0002	CIB1	calcium an protein_co	15	90229975	90234047	-1	q26.1
ENSG00000275160	0.99	1.9861	0.0037	0.0128	RP11-187C18.3	processed_	9	41479960	41480548	1	p11.2
ENSG00000168028	0.989	1.9848	3.34E-07	3.24E-06	RPSA	ribosomal l protein_co	3	39406689	39412542	1	p22.1
ENSG00000242770	0.9888	1.9846	0.0025	0.0091	RP11-180K7.1	processed_	3	1.13E+08	1.13E+08	1	q13.2
ENSG00000197756	0.9883	1.9839	2.38E-07	2.38E-06	RPL37A	ribosomal l protein_co	2	2.16E+08	2.17E+08	1	q35
ENSG00000124479	0.9883	1.9839	0.0078	0.0244	NDP	Norrie dise protein_co X		43948776	43973504	-1	p11.3
ENSG00000140876	0.9866	1.9815	0.0065	0.0208	NUDT7	nudix (nucl protein_co	16	77722492	77742260	1	q23.1
ENSG00000143224	0.9858	1.9805	0.008	0.0249	PPOX	protoporpl protein_co	1	1.61E+08	1.61E+08	1	q23.3
ENSG00000083457	0.9858	1.9804	2.63E-13	1.04E-11	ITGAE	integrin, al protein_co	17	3714628	3801243	-1	p13.2
ENSG00000109272	0.9852	1.9796	0.0034	0.0119	PF4V1	platelet fac protein_co	4	73853189	73854155	1	q13.3
ENSG00000231043	0.985	1.9792	0.0108	0.0323	AC007238.1	processed_	2	58460292	58462032	-1	p16.1
ENSG00000163682	0.9846	1.9787	1.13E-07	1.22E-06	RPL9	ribosomal l protein_co	4	39454124	39458948	-1	p14
ENSG00000147669	0.9843	1.9784	8.58E-15	4.86E-13	POLR2K	polymeras protein_co	8	1E+08	1E+08	1	q22.2

ENSG00000143106	0.9832	1.9769	3.00E-17	3.09E-15	PSMA5	proteasom protein_co	1	1.09E+08	1.09E+08	-1	p13.3
ENSG00000189171	0.983	1.9765	1.91E-17	2.07E-15	S100A13	S100 calciu protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000204253	0.9825	1.9758	0.0051	0.017	HNRNPCP2	heterogenε processed_	2	1.9E+08	1.9E+08	1	q32.2
ENSG00000167863	0.9822	1.9755	1.02E-10	2.20E-09	ATP5H	ATP syntha protein_co	17	75038863	75046985	-1	q25.1
ENSG00000006837	0.9812	1.9741	0.017	0.0472	CDKL3	cyclin-depe protein_co	5	1.34E+08	1.34E+08	-1	q31.1
ENSG00000256338	0.9808	1.9736	0.0016	0.0063	RPL41P2	ribosomal   processed_	15	28315651	28316059	1	q13.1
ENSG00000164258	0.9798	1.9722	2.61E-12	7.99E-11	NDUFS4	NADH dehy protein_co	5	53560633	53683340	1	q11.2
ENSG00000238103	0.9796	1.972	0.0003	0.0013	RPL9P7	ribosomal   processed_X		23836742	23837321	-1	p22.11
ENSG00000182718	0.9794	1.9716	3.18E-20	6.87E-18	ANXA2	annexin A2 protein_co	15	60347134	60402883	-1	q22.2
ENSG00000243926	0.9789	1.971	0.0046	0.0156	TIPARP-AS1	TIPARP ant antisense	3	1.57E+08	1.57E+08	-1	q25.31
ENSG00000260000	0.9785	1.9705	0.0031	0.011	RP3-467N11.1	antisense	6	1.01E+08	1.01E+08	1	q16.3
ENSG00000141741	0.9782	1.9699	5.91E-22	2.43E-19	MIEN1	migration ε protein_co	17	39728496	39730787	-1	q12
ENSG00000154589	0.9781	1.9698	0.0131	0.0379	LY96	lymphocytε protein_co	8	73991352	74029087	1	q21.11
ENSG00000235453	0.9777	1.9694	1.69E-07	1.76E-06	TOPORS-AS1	TOPORS an antisense	9	32551144	32567005	1	p21.1
ENSG00000100554	0.9777	1.9693	2.89E-16	2.33E-14	ATP6V1D	ATPase, H+ protein_co	14	67294371	67360265	-1	q23.3
ENSG00000222041	0.9776	1.9691	7.66E-05	0.0004	LINC00152	long interg lincRNA	2	87455368	87606805	1	p11.2
ENSG00000161920	0.9772	1.9686	4.60E-08	5.46E-07	MED11	mediator c protein_co	17	4731428	4733610	1	p13.2
ENSG00000244313	0.977	1.9684	0.0035	0.0122	RP11-425L10.1	processed_	11	46428653	46429150	-1	p11.2
ENSG00000235169	0.9765	1.9678	0.0022	0.0083	SMIM1	small integ protein_co	1	3772788	3775982	1	p36.32
ENSG00000133265	0.9766	1.9678	0.0034	0.012	HSPBP1	HSPA (heat protein_co	19	55262231	55280381	-1	q13.42
ENSG00000169740	0.9761	1.9671	6.07E-12	1.70E-10	ZNF32	zinc finger protein_co	10	43643859	43648856	-1	q11.21
ENSG00000188761	0.9757	1.9666	0.0001	0.0006	BCL2L15	BCL2-like 1 protein_co	1	1.14E+08	1.14E+08	-1	p13.2
ENSG00000152154	0.9753	1.966	0.0161	0.0451	TMEM178A	transmemt protein_co	2	39664982	39717963	1	p22.1
ENSG00000118420	0.9747	1.9653	0.0025	0.0092	UBE3D	ubiquitin p protein_co	6	82892398	83065841	-1	q14.1
ENSG00000112667	0.9745	1.965	0.0002	0.001	DNPH1	2'-deoxynu protein_co	6	43225629	43229484	-1	p21.1
ENSG00000127922	0.9744	1.9648	1.98E-10	4.00E-09	SHFM1	split hand/ protein_co	7	96481626	96709891	-1	q21.3
ENSG00000164039	0.9737	1.9639	7.19E-17	6.74E-15	BDH2	3-hydroxyt protein_co	4	1.03E+08	1.03E+08	-1	q24
ENSG00000162366	0.9737	1.9638	2.41E-05	0.0002	PDZK1IP1	PDZK1 inte protein_co	1	47183593	47191044	-1	p33
ENSG00000171311	0.9735	1.9636	1.29E-12	4.36E-11	EXOSC1	exosome c protein_co	10	97436142	97446017	-1	q24.1
ENSG00000218426	0.9734	1.9634	0.0003	0.0014	RP11-475C16.1	processed_	6	1.53E+08	1.53E+08	-1	q25.2
ENSG00000248932	0.9728	1.9626	0.0072	0.0228	RP11-319G6.1	antisense	3	1.39E+08	1.4E+08	1	q23
ENSG00000116774	0.9724	1.9622	0.0085	0.0263	OLFML3	olfactomec protein_co	1	1.14E+08	1.14E+08	1	p13.2
ENSG00000147684	0.9724	1.9621	1.17E-08	1.59E-07	NDUFB9	NADH dehy protein_co	8	1.25E+08	1.25E+08	1	q24.13
ENSG00000237550	0.9724	1.9621	1.09E-05	7.53E-05	UBE2Q2P6	ubiquitin-c transcribec	15	82372196	82372912	-1	q25.2
ENSG00000256262	0.9724	1.9621	0.0029	0.0106	USP30-AS1	USP30 anti antisense	12	1.09E+08	1.09E+08	-1	q24.11
ENSG00000164978	0.9721	1.9617	1.21E-12	4.12E-11	NUDT2	nudix (nucl protein_co	9	34329506	34343713	1	p13.3
ENSG00000167515	0.9682	1.9565	2.32E-18	3.15E-16	TRAPPC2L	trafficking   protein_co	16	88856220	88862686	1	q24.3

ENSG00000106028	0.968	1.9561	1.60E-23	8.90E-21	SSBP1	single-strar protein_co	7	1.42E+08	1.42E+08	1	q34
ENSG00000123131	0.9679	1.956	1.98E-13	8.10E-12	PRDX4	peroxiredo protein_co X		23664262	23686399	1	p22.11
ENSG00000143198	0.9677	1.9558	1.13E-14	6.27E-13	MGST3	microsoma protein_co	1	1.66E+08	1.66E+08	1	q24.1
ENSG00000204628	0.9676	1.9556	3.40E-08	4.16E-07	GNB2L1	guanine nu protein_co	5	1.81E+08	1.81E+08	-1	q35.3
ENSG00000197903	0.9673	1.9552	1.39E-12	4.63E-11	HIST1H2BK	histone clu protein_co	6	27146418	27146798	-1	p22.1
ENSG00000188186	0.9671	1.955	1.95E-11	4.89E-10	LAMTOR4	late endosc protein_co	7	1E+08	1E+08	1	q22.1
ENSG00000100902	0.9669	1.9546	2.55E-12	7.84E-11	PSMA6	proteasom protein_co	14	35278633	35317493	1	q13.2
ENSG00000196466	0.9668	1.9545	0.0005	0.0021	ZNF799	zinc finger protein_co	19	12390016	12401271	-1	p13.2
ENSG00000152240	0.9665	1.9541	4.38E-10	8.11E-09	HAUS1	HAUS augn protein_co	18	46104332	46128333	1	q21.1
ENSG00000164743	0.9646	1.9515	0.0047	0.0159	C8orf48	chromosom protein_co	8	13566843	13568287	1	p22
ENSG00000114021	0.9645	1.9514	1.26E-17	1.43E-15	NIT2	nitrilase fai protein_co	3	1E+08	1E+08	1	q12.2
ENSG00000136371	0.9643	1.9511	4.76E-06	3.54E-05	MTHFS	5,10-methc protein_co	15	79833585	79897379	-1	q25.1
ENSG00000229809	0.9631	1.9494	0.0005	0.0024	ZNF688	zinc finger protein_co	16	30569346	30572734	-1	p11.2
ENSG00000181004	0.9626	1.9488	9.07E-05	0.0005	BBS12	Bardet-Bier protein_co	4	1.23E+08	1.23E+08	1	q27
ENSG00000125538	0.9625	1.9487	0.0074	0.0233	IL1B	interleukin protein_co	2	1.13E+08	1.13E+08	-1	q14.1
ENSG00000229155	0.9623	1.9484	0.0182	0.0498	RP11-528A4.2	lincRNA	3	1.94E+08	1.94E+08	-1	q29
ENSG00000149806	0.9621	1.9481	2.18E-07	2.21E-06	FAU	Finkel-Biski protein_co	11	65120628	65122473	-1	q13.1
ENSG00000184983	0.9619	1.9478	2.52E-10	4.98E-09	NDUFA6	NADH dehy protein_co	22	42085525	42090955	-1	q13.2
ENSG00000021300	0.961	1.9467	0.0135	0.0389	PLEKHB1	pleckstrin t protein_co	11	73646178	73662819	1	q13.4
ENSG00000246560	0.9609	1.9465	0.0006	0.0025	RP11-10L12.4	antisense	4	1.03E+08	1.03E+08	1	q24
ENSG00000113966	0.9609	1.9465	0.0041	0.0141	ARL6	ADP-ribosy protein_co	3	97764521	97801109	1	q11.2
ENSG00000105185	0.9607	1.9463	2.79E-14	1.40E-12	PDCD5	programm protein_co	19	32581068	32587452	1	q13.11
ENSG0000010219	0.9595	1.9446	8.30E-09	1.17E-07	DYRK4	dual-specif protein_co	12	4562204	4615302	1	p13.32
ENSG00000100360	0.9594	1.9445	0.0012	0.005	IFT27	intraflagell. protein_co	22	36758202	36776256	-1	q12.3
ENSG00000235269	0.9593	1.9443	0.0005	0.0022	AL162759.1	lincRNA	14	53768942	53850882	-1	q22.2
ENSG00000155542	0.9592	1.9442	4.00E-06	3.03E-05	SETD9	SET domair protein_co	5	56909260	56917348	1	q11.2
ENSG00000138433	0.9587	1.9436	2.05E-09	3.25E-08	CIR1	corepresso protein_co	2	1.74E+08	1.74E+08	-1	q31.1
ENSG00000125356	0.9585	1.9432	1.03E-09	1.75E-08	NDUFA1	NADH dehy protein_co X		1.2E+08	1.2E+08	1	q24
ENSG00000131100	0.9575	1.9419	2.26E-20	5.29E-18	ATP6V1E1	ATPase, H+ protein_co	22	17592136	17628818	-1	q11.21
ENSG00000161970	0.9572	1.9416	2.39E-06	1.90E-05	RPL26	ribosomal j protein_co	17	8377520	8383213	-1	p13.1
ENSG00000171863	0.9569	1.9411	7.23E-06	5.21E-05	RPS7	ribosomal j protein_co	2	3575205	3580919	1	p25.3
ENSG00000100567	0.9568	1.941	4.15E-14	2.00E-12	PSMA3	proteasom protein_co	14	58244831	58272012	1	q23.1
ENSG00000111639	0.9565	1.9406	2.33E-17	2.52E-15	MRPL51	mitochond protein_co	12	6491886	6493841	-1	p13.31
ENSG00000005059	0.9559	1.9397	1.04E-06	9.01E-06	CCDC109B	coiled-coil protein_co	4	1.1E+08	1.1E+08	1	q25
ENSG00000148219	0.9558	1.9396	0.0004	0.0019	ASTN2	astrotactin protein_co	9	1.16E+08	1.17E+08	-1	q33.1
ENSG00000156127	0.9553	1.939	6.47E-06	4.71E-05	BATF	basic leucir protein_co	14	75522425	75547015	1	q24.3
ENSG00000249264	0.9552	1.9389	0.0027	0.0099	EEF1A1P9	eukaryotic processed_	4	1.05E+08	1.05E+08	1	q24

ENSG00000204356	0.955	1.9386	6.34E-05	0.0004 NELFE	negative el protein_co	6	31952087	31959110	-1 p21.33
ENSG00000228775	0.9546	1.938	0.0039	0.0135 WEE2-AS1	WEE2 antisense	7	1.42E+08	1.42E+08	-1 q34
ENSG00000134202	0.9545	1.9379	0.0023	0.0088 GSTM3	glutathione protein_co	1	1.1E+08	1.1E+08	-1 p13.3
ENSG00000196502	0.9541	1.9374	7.49E-10	1.31E-08 SULT1A1	sulfotransf protein_co	16	28605196	28623625	-1 p11.2
ENSG00000115009	0.9539	1.9371	0.0089	0.0272 CCL20	chemokine protein_co	2	2.28E+08	2.28E+08	1 q36.3
ENSG00000137821	0.9538	1.9369	0.004	0.0136 LRRC49	leucine rich protein_co	15	70853239	71053657	1 q23
ENSG00000213904	0.9533	1.9363	0.0006	0.0027 LIPE-AS1	LIPE antisense	19	42397128	42652355	1 q13.2
ENSG00000177614	0.9531	1.9361	0.0007	0.0032 PGBD5	piggyBac tr protein_co	1	2.3E+08	2.3E+08	-1 q42.13
ENSG00000124733	0.9529	1.9358	1.87E-15	1.22E-13 MEA1	male-enhancer protein_co	6	43012094	43013968	-1 p21.1
ENSG00000162517	0.9515	1.9338	1.07E-19	1.96E-17 PEF1	penta-EF-h protein_co	1	31629862	31644896	-1 p35.2
ENSG00000183617	0.9514	1.9337	2.91E-11	6.98E-10 MRPL54	mitochond protein_co	19	3762664	3768575	1 p13.3
ENSG00000165629	0.9496	1.9313	3.71E-14	1.80E-12 ATP5C1	ATP synthase protein_co	10	7788129	7807815	1 p14
ENSG00000070669	0.9494	1.931	1.41E-09	2.31E-08 ASNS	asparagine protein_co	7	97852118	97872542	-1 q21.3
ENSG00000171421	0.9492	1.9309	1.77E-12	5.71E-11 MRPL36	mitochond protein_co	5	1798386	1801366	-1 p15.33
ENSG00000130489	0.9487	1.9302	7.59E-11	1.67E-09 SCO2	SCO2 cytochrome protein_co	22	50523568	50526439	-1 q13.33
ENSG00000198755	0.9486	1.93	1.96E-06	1.59E-05 RPL10A	ribosomal protein_co	6	35468408	35470785	1 p21.31
ENSG00000275713	0.9486	1.93	0.0069	0.0218 HIST1H2BH	histone cluster protein_co	6	26251651	26252031	1 p22.2
ENSG00000167862	0.9486	1.9299	8.17E-09	1.15E-07 ICT1	immature protein_co	17	75012670	75021261	1 q25.1
ENSG00000204856	0.9485	1.9299	0.0016	0.0064 FAM216A	family with protein_co	12	1.1E+08	1.1E+08	1 q24.11
ENSG00000109016	0.9483	1.9296	1.97E-14	1.03E-12 DHRS7B	dehydrogenase protein_co	17	21123364	21193265	1 p11.2
ENSG00000004779	0.948	1.9292	1.39E-10	2.92E-09 NDUFB1	NADH dehydrogenase protein_co	16	23581002	23596356	-1 p12.2
ENSG00000083845	0.948	1.9292	2.71E-05	0.0002 RPS5	ribosomal protein_co	19	58386400	58394806	1 q13.43
ENSG00000175581	0.9471	1.928	8.96E-10	1.53E-08 MRPL48	mitochond protein_co	11	73787316	73865133	1 q13.4
ENSG00000136522	0.9467	1.9274	3.00E-13	1.17E-11 MRPL47	mitochond protein_co	3	1.8E+08	1.8E+08	-1 q26.33
ENSG00000161677	0.9467	1.9274	3.91E-05	0.0002 JOSD2	Josephin domain protein_co	19	50505998	50511353	-1 q13.33
ENSG00000227403	0.9465	1.9272	0.0007	0.003 AC009299.3	lincRNA	2	1.61E+08	1.61E+08	1 q24.2
ENSG00000247134	0.9455	1.9258	2.29E-11	5.66E-10 RP11-11N9.4	lincRNA	8	32996178	33044855	1 p12
ENSG00000122033	0.9454	1.9257	1.05E-13	4.55E-12 MTIF3	mitochond protein_co	13	27435643	27450591	-1 q12.2
ENSG00000124787	0.9453	1.9256	1.83E-05	0.0001 RPP40	ribonucleoprotein protein_co	6	4994732	5004063	-1 p25.1
ENSG00000156831	0.9448	1.9249	3.41E-12	1.03E-10 NSMCE2	non-SMC element protein_co	8	1.25E+08	1.25E+08	1 q24.13
ENSG00000156411	0.9448	1.9249	7.43E-09	1.06E-07 C14orf2	chromosome protein_co	14	1.04E+08	1.04E+08	-1 q32.33
ENSG00000111640	0.9444	1.9244	3.76E-12	1.11E-10 GAPDH	glyceraldehyde protein_co	12	6533927	6538374	1 p13.31
ENSG00000164162	0.9437	1.9234	1.94E-08	2.49E-07 ANAPC10	anaphase promoting protein_co	4	1.45E+08	1.45E+08	-1 q31.21
ENSG00000150456	0.9436	1.9234	1.31E-06	1.11E-05 N6AMT2	N-6 adenine protein_co	13	20728731	20773958	-1 q12.11
ENSG00000147889	0.9424	1.9218	3.52E-05	0.0002 CDKN2A	cyclin-dependent protein_co	9	21967753	21995301	-1 p21.3
ENSG00000136888	0.942	1.9212	4.82E-21	1.41E-18 ATP6V1G1	ATPase, H <sup>+</sup> protein_co	9	1.15E+08	1.15E+08	1 q32
ENSG00000233276	0.9416	1.9206	3.41E-14	1.68E-12 GPX1	glutathione peroxidase protein_co	3	49357176	49358600	-1 p21.31

ENSG00000182899	0.9415	1.9205	2.45E-07	2.43E-06	RPL35A	ribosomal l protein_co	3	1.98E+08	1.98E+08	1	q29
ENSG00000106591	0.941	1.9198	9.10E-15	5.14E-13	MRPL32	mitochond protein_co	7	42932200	42948958	1	p14.1
ENSG00000115541	0.9407	1.9195	1.52E-09	2.47E-08	HSPE1	heat shock protein_co	2	1.97E+08	1.98E+08	1	q33.1
ENSG00000203666	0.9403	1.919	0.015	0.0426	EFCAB2	EF-hand ca protein_co	1	2.45E+08	2.45E+08	1	q44
ENSG00000143553	0.9402	1.9188	1.68E-16	1.41E-14	SNAPIN	SNAP-asso protein_co	1	1.54E+08	1.54E+08	1	q21.3
ENSG00000140463	0.9402	1.9188	0.0001	0.0008	BBS4	Bardet-Bie protein_co	15	72686179	72738476	1	q24.1
ENSG00000225177	0.9402	1.9188	0.0015	0.0061	FLJ46906	uncharacte antisense	6	1.39E+08	1.39E+08	1	q24.1
ENSG00000197013	0.9401	1.9187	8.15E-06	5.80E-05	ZNF429	zinc finger protein_co	19	21496682	21556270	1	p12
ENSG00000256087	0.94	1.9185	4.97E-09	7.32E-08	ZNF432	zinc finger protein_co	19	52031379	52095738	-1	q13.41
ENSG00000172331	0.9399	1.9184	0.0002	0.0009	BPGM	2,3-bispho:protein_co	7	1.35E+08	1.35E+08	1	q33
ENSG00000129235	0.9393	1.9175	5.11E-13	1.88E-11	TXNDC17	thioredoxir protein_co	17	6640758	6644541	1	p13.1
ENSG00000163170	0.9392	1.9175	2.53E-08	3.16E-07	BOLA3	bolA family protein_co	2	74135398	74147994	-1	p13.1
ENSG00000011422	0.9389	1.9171	2.17E-05	0.0001	PLAUR	plasminoge protein_co	19	43646095	43670547	-1	q13.31
ENSG00000242485	0.9388	1.9169	1.04E-14	5.81E-13	MRPL20	mitochond protein_co	1	1401908	1407313	-1	p36.33
ENSG00000198242	0.9387	1.9167	1.23E-08	1.65E-07	RPL23A	ribosomal l protein_co	17	28719393	28724359	1	q11.2
ENSG00000085063	0.9382	1.9161	2.31E-12	7.17E-11	CD59	CD59 mole protein_co	11	33698261	33736445	-1	p13
ENSG00000132141	0.9379	1.9157	0.0006	0.0027	CCT6B	chaperonir protein_co	17	34927859	34981078	-1	q12
ENSG00000153140	0.9376	1.9154	1.77E-08	2.28E-07	CETN3	centrin, EF- protein_co	5	90392261	90409786	-1	q14.3
ENSG00000161981	0.9376	1.9154	1.68E-05	0.0001	SNRNP25	small nucle protein_co	16	53010	57669	1	p13.3
ENSG00000111678	0.9371	1.9147	1.17E-05	8.02E-05	C12orf57	chromoson protein_co	12	6942978	6946003	1	p13.31
ENSG00000276023	0.9368	1.9143	4.48E-06	3.35E-05	DUSP14	dual specif protein_co	17	37489831	37513501	1	q12
ENSG00000225383	0.936	1.9132	0.0094	0.0287	SFTA1P	surfactant lincRNA	10	10784437	10794980	-1	p14
ENSG00000087884	0.9359	1.9131	1.53E-07	1.61E-06	AAMDC	adipogene: protein_co	11	77821109	77918432	1	q14.1
ENSG00000076662	0.9355	1.9126	4.43E-08	5.29E-07	ICAM3	intercellula protein_co	19	10333776	10339823	-1	p13.2
ENSG00000196205	0.9353	1.9123	2.20E-08	2.78E-07	EEF1A1P5	eukaryotic processed_	9	1.33E+08	1.33E+08	1	q34.13
ENSG00000104979	0.9346	1.9114	2.83E-29	5.06E-26	C19orf53	chromoson protein_co	19	13774168	13778462	1	p13.13
ENSG00000091640	0.9345	1.9113	1.18E-19	2.11E-17	SPAG7	sperm assc protein_co	17	4959226	4967872	-1	p13.2
ENSG00000116663	0.9339	1.9104	1.51E-06	1.26E-05	FBXO6	F-box prote protein_co	1	11664124	11674354	1	p36.22
ENSG00000139180	0.9333	1.9096	1.58E-13	6.59E-12	NDUFA9	NADH dehy protein_co	12	4649095	4694317	1	p13.32
ENSG00000184500	0.9332	1.9095	2.74E-05	0.0002	PROS1	protein S (ε protein_co	3	93873033	93974066	-1	q11.1
ENSG00000109475	0.9329	1.9092	1.50E-05	0.0001	RPL34	ribosomal l protein_co	4	1.09E+08	1.09E+08	1	q25
ENSG00000145088	0.9328	1.909	1.11E-05	7.68E-05	EAF2	ELL associa protein_co	3	1.22E+08	1.22E+08	1	q13.33
ENSG00000112299	0.9324	1.9085	0.0013	0.0053	VNN1	vanin 1 [So protein_co	6	1.33E+08	1.33E+08	-1	q23.2
ENSG00000152359	0.9318	1.9076	6.21E-07	5.67E-06	POC5	POC5 centr protein_co	5	75674124	75717481	-1	q13.3
ENSG00000131373	0.931	1.9066	5.97E-07	5.46E-06	HACL1	2-hydroxya protein_co	3	15560704	15601831	-1	p25.1
ENSG00000173432	0.931	1.9066	0.0112	0.0333	SAA1	serum amy protein_co	11	18266174	18269977	1	p15.1
ENSG00000211450	0.9307	1.9062	6.54E-09	9.45E-08	C11orf31	chromoson protein_co	11	57741250	57743554	1	q12.1



ENSG00000159377	0.9304	1.9058	1.05E-23	6.67E-21	PSMB4	proteasom protein_co	1	1.51E+08	1.51E+08	1	q21.3
ENSG00000100911	0.9304	1.9058	2.94E-20	6.42E-18	PSME2	proteasom protein_co	14	24143362	24147570	-1	q12
ENSG00000135124	0.9301	1.9054	2.40E-07	2.39E-06	P2RX4	purinergic protein_co	12	1.21E+08	1.21E+08	1	q24.31
ENSG00000187049	0.93	1.9053	9.26E-08	1.02E-06	TMEM216	transmembr protein_co	11	61391687	61398863	1	q12.2
ENSG00000100519	0.9295	1.9046	7.76E-15	4.45E-13	PSMC6	proteasom protein_co	14	52707172	52728587	1	q22.1
ENSG00000138944	0.9293	1.9044	0.0012	0.005	KIAA1644	KIAA1644 [ protein_co	22	44243667	44312851	-1	q13.31
ENSG00000144713	0.9284	1.9032	2.39E-06	1.89E-05	RPL32	ribosomal protein_co	3	12834485	12841588	-1	p25.2
ENSG00000125611	0.9284	1.9031	2.85E-07	2.80E-06	CHCHD5	coiled-coil protein_co	2	1.13E+08	1.13E+08	1	q14.1
ENSG00000106268	0.9283	1.903	0.0001	0.0007	NUDT1	nudix (nucl protein_co	7	2242222	2251146	1	p22.3
ENSG00000261652	0.9275	1.902	0.0012	0.0049	C15orf65	chromosom protein_co	15	55408548	55418764	1	q21.3
ENSG00000182636	0.9269	1.9011	0.0082	0.0254	NDN	necdin, me protein_co	15	23685400	23687330	-1	q11.2
ENSG00000126749	0.9266	1.9008	5.47E-10	9.92E-09	EMG1	EMG1 N1-s protein_co	12	6970893	6976619	1	p13.31
ENSG00000175611	0.9262	1.9002	4.68E-05	0.0003	LINC00476	long interg processed_	9	95759231	95875977	-1	q22.32
ENSG00000134056	0.9254	1.8993	1.42E-09	2.33E-08	MRPS36	mitochond protein_co	5	69217760	69230129	1	q13.2
ENSG00000223797	0.9255	1.8993	0.0029	0.0103	ENTPD3-AS1	ENTPD3 antisense	3	40313802	40453329	-1	p22.1
ENSG00000128918	0.9253	1.8991	0.0056	0.0183	ALDH1A2	aldehyde d protein_co	15	57953424	58497866	-1	q21.3
ENSG00000133101	0.9247	1.8983	0.0012	0.0048	CCNA1	cyclin A1 [S protein_co	13	36431830	36442882	1	q13.3
ENSG00000126768	0.9242	1.8977	6.34E-14	2.91E-12	TIMM17B	translocase protein_co X		48893447	48898143	-1	p11.23
ENSG00000114942	0.924	1.8974	3.72E-07	3.56E-06	EEF1B2	eukaryotic protein_co	2	2.06E+08	2.06E+08	1	q33.3
ENSG00000087495	0.9236	1.8968	0.0142	0.0407	PHACTR3	phosphata: protein_co	20	59577509	59847711	1	q13.32
ENSG00000134480	0.9234	1.8966	2.35E-25	2.10E-22	CCNH	cyclin H [Sc protein_co	5	87391494	87413019	-1	q14.3
ENSG00000166226	0.9233	1.8965	1.07E-17	1.27E-15	CCT2	chaperonir protein_co	12	69585334	69601570	1	q15
ENSG00000146233	0.9233	1.8965	4.64E-06	3.46E-05	CYP39A1	cytochrom protein_co	6	46549580	46652830	-1	p12.3
ENSG00000126088	0.9223	1.8952	2.80E-18	3.70E-16	UROD	uroporphyr protein_co	1	45012147	45015575	1	p34.1
ENSG00000128524	0.9221	1.8949	1.59E-11	4.03E-10	ATP6V1F	ATPase, H+ protein_co	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000159763	0.9215	1.8941	0.0002	0.0012	PIP	prolactin-ir protein_co	7	1.43E+08	1.43E+08	1	q34
ENSG00000173163	0.9212	1.8937	1.54E-08	2.03E-07	COMMD1	copper me protein_co	2	61888724	62147247	1	p15
ENSG00000198899	0.921	1.8934	1.45E-15	9.67E-14	MT-ATP6	mitochond protein_co MT		8527	9207	1	
ENSG00000139168	0.9195	1.8915	1.40E-12	4.65E-11	ZCRB1	zinc finger protein_co	12	42312078	42326118	-1	q12
ENSG00000123810	0.9194	1.8914	0.0087	0.027	B9D2	B9 protein protein_co	19	41354421	41364173	-1	q13.2
ENSG00000140284	0.9187	1.8904	0.0048	0.016	SLC27A2	solute carri protein_co	15	50182196	50236395	1	q21.2
ENSG00000182853	0.9186	1.8903	0.0007	0.0032	VMO1	vitelline m protein_co	17	4785285	4786433	-1	p13.2
ENSG00000105171	0.9184	1.8901	1.11E-16	9.82E-15	POP4	processing protein_co	19	29604017	29617237	1	q12
ENSG00000134339	0.9183	1.8899	0.0177	0.0487	SAA2	serum amy protein_co	11	18239223	18248643	-1	p15.1
ENSG00000272288	0.9177	1.8891	0.0001	0.0006	RP11-140K17.3	antisense	6	34696317	34697470	1	p21.31
ENSG00000214389	0.9169	1.888	0.0007	0.0031	RPS3AP26	ribosomal protein_co	7	98385801	98386584	-1	q21.3
ENSG00000138326	0.9167	1.8878	3.93E-06	2.98E-05	RPS24	ribosomal protein_co	10	78033760	78056812	1	q22.3

ENSG00000131634	0.9165	1.8875	0.0158	0.0444 TMEM204	transmembr protein_co	16	1528688	1555580	1 p13.3
ENSG00000137752	0.9164	1.8874	1.69E-19	2.97E-17 CASP1	caspace 1, protein_co	11	1.05E+08	1.05E+08	-1 q22.3
ENSG00000008988	0.9163	1.8873	2.38E-07	2.38E-06 RPS20	ribosomal l protein_co	8	56067295	56074581	-1 q12.1
ENSG00000134853	0.9159	1.8867	0.0006	0.0028 PDGFRA	platelet-de protein_co	4	54229097	54298247	1 q12
ENSG00000249353	0.9154	1.886	1.61E-05	0.0001 NPM1P27	nucleopho:processed_	5	93682838	93683667	-1 q15
ENSG00000155368	0.9137	1.8839	1.33E-06	1.13E-05 DBI	diazepam l protein_co	2	1.19E+08	1.19E+08	1 q14.2
ENSG00000169189	0.9136	1.8838	3.59E-11	8.51E-10 NSMCE1	non-SMC e protein_co	16	27224991	27268794	-1 p12.1
ENSG00000126698	0.9123	1.882	4.07E-17	4.04E-15 DNAJC8	DnaJ (Hsp4 protein_co	1	28199456	28233025	-1 p35.3
ENSG00000213860	0.9121	1.8817	0.001	0.0043 RPL21P75	ribosomal l processed_	7	20002765	20003247	1 p21.1
ENSG00000113734	0.9117	1.8813	1.31E-08	1.74E-07 BNIP1	BCL2/aden protein_co	5	1.73E+08	1.73E+08	1 q35.1
ENSG00000142694	0.9116	1.8812	1.63E-07	1.70E-06 EVA1B	eva-1 homi protein_co	1	36322031	36324154	-1 p34.3
ENSG00000036448	0.9114	1.8808	0.0001	0.0007 MYOM2	myomesin protein_co	8	2045040	2165552	1 p23.3
ENSG00000100410	0.911	1.8803	8.93E-10	1.53E-08 PHF5A	PHD finger protein_co	22	41459717	41468725	-1 q13.2
ENSG00000165916	0.9109	1.8802	3.44E-17	3.50E-15 PSMC3	proteasom protein_co	11	47418769	47426473	-1 p11.2
ENSG00000166794	0.9099	1.8789	1.67E-12	5.42E-11 PPIB	peptidylprc protein_co	15	64155812	64163205	-1 q22.31
ENSG00000254153	0.9099	1.8789	0.0055	0.018 CTA-398F10.2	lincRNA	8	8456909	8461337	-1 p23.1
ENSG00000116898	0.9098	1.8788	2.31E-21	7.83E-19 MRPS15	mitochond protein_co	1	36455718	36464437	-1 p34.3
ENSG00000166797	0.9095	1.8784	4.77E-10	8.77E-09 FAM96A	family with protein_co	15	64072559	64094018	-1 q22.31
ENSG00000176788	0.9093	1.8781	0.002	0.0077 BASP1	brain abun protein_co	5	17065598	17276843	1 p15.1
ENSG00000198522	0.9084	1.877	5.84E-16	4.33E-14 GPN1	GPN-loop C protein_co	2	27628247	27651508	1 p23.3
ENSG00000153294	0.9084	1.877	3.24E-06	2.50E-05 GPR115	G protein-c protein_co	6	47685864	47722021	1 p12.3
ENSG00000135046	0.9084	1.8769	4.99E-07	4.64E-06 ANXA1	annexin A1 protein_co	9	73151757	73170393	1 q21.13
ENSG00000078487	0.9082	1.8767	0.0008	0.0034 ZCWPW1	zinc finger, protein_co	7	1E+08	1E+08	-1 q22.1
ENSG00000117009	0.9079	1.8763	0.0035	0.0124 KMO	kynurenine protein_co	1	2.42E+08	2.42E+08	1 q43
ENSG00000148950	0.9078	1.8762	3.28E-06	2.52E-05 IMMP1L	IMP1 inner protein_co	11	31432401	31509645	-1 p13
ENSG00000100387	0.9074	1.8756	1.86E-16	1.55E-14 RBX1	ring-box 1, protein_co	22	40951347	40973309	1 q13.2
ENSG00000177410	0.9069	1.875	1.97E-12	6.28E-11 ZFAS1	ZNFX1 anti antisense	20	49278178	49295738	1 q13.13
ENSG00000196335	0.9066	1.8746	0.0011	0.0045 STK31	serine/thre protein_co	7	23710167	23832513	1 p15.3
ENSG00000165898	0.9055	1.8732	7.64E-09	1.09E-07 ISCA2	iron-sulfur protein_co	14	74493720	74497106	1 q24.3
ENSG00000240344	0.9054	1.8731	9.68E-10	1.65E-08 PPIL3	peptidylprc protein_co	2	2.01E+08	2.01E+08	-1 q33.1
ENSG00000135587	0.9053	1.8729	0.0051	0.0169 SMPD2	sphingomy protein_co	6	1.09E+08	1.09E+08	1 q21
ENSG00000153446	0.905	1.8726	0.0014	0.0057 C16orf89	chromoson protein_co	16	5044122	5066110	-1 p13.3
ENSG00000232956	0.9048	1.8723	3.29E-06	2.53E-05 SNHG15	small nucle lincRNA	7	44983023	44986961	-1 p13
ENSG00000116288	0.9047	1.8722	1.43E-14	7.63E-13 PARK7	parkinson l protein_co	1	7954291	7985505	1 p36.23
ENSG00000145592	0.9048	1.8722	1.98E-05	0.0001 RPL37	ribosomal l protein_co	5	40825262	40835335	-1 p13.1
ENSG00000162511	0.9047	1.8721	0.003	0.0109 LAPTM5	lysosomal l protein_co	1	30732469	30757820	-1 p35.2
ENSG00000245648	0.9044	1.8717	0.003	0.0108 RP11-277P12.20	antisense	12	10363769	10398506	1 p13.2

ENSG00000171984	0.9037	1.8708	1.12E-06	9.62E-06	C20orf196	chromosom protein_co	20	5750393	5863912	1	p12.3
ENSG00000260265	0.9029	1.8698	0.0005	0.0024	RP11-44F21.5	lincRNA	4	75081702	75084717	-1	q13.3
ENSG00000111716	0.9024	1.8692	3.14E-10	6.09E-09	LDHB	lactate deh protein_co	12	21635342	21757857	-1	p12.1
ENSG00000253669	0.9022	1.8689	0.0119	0.035	KB-1732A1.1	lincRNA	8	1.03E+08	1.03E+08	1	q22.3
ENSG00000263563	0.9018	1.8684	0.0015	0.0059	UBBP4	ubiquitin B protein_co	17	22202995	22205156	1	p11.2
ENSG00000000971	0.9014	1.8679	2.37E-07	2.37E-06	CFH	complemei protein_co	1	1.97E+08	1.97E+08	1	q31.3
ENSG00000232119	0.9013	1.8678	1.27E-14	6.96E-13	MCTS1	malignant ` protein_co X		1.21E+08	1.21E+08	1	q24
ENSG00000242372	0.9012	1.8676	2.84E-17	2.98E-15	EIF6	eukaryotic protein_co	20	35278907	35284985	-1	q11.22
ENSG00000130724	0.9006	1.8668	2.06E-13	8.31E-12	CHMP2A	charged mi protein_co	19	58551566	58555124	-1	q13.43
ENSG00000007933	0.9002	1.8663	0.0177	0.0488	FMO3	flavin cont: protein_co	1	1.71E+08	1.71E+08	1	q24.3
ENSG00000007306	0.9001	1.8662	0.0138	0.0396	CEACAM7	carcinoeml protein_co	19	41673307	41706976	-1	q13.2
ENSG00000185721	0.8998	1.8658	1.33E-11	3.44E-10	DRG1	developme protein_co	22	31399523	31528740	1	q12.2
ENSG00000135940	0.8997	1.8657	8.87E-07	7.82E-06	COX5B	cytochrom protein_co	2	97646040	97648383	1	q11.2
ENSG00000184076	0.8997	1.8656	2.41E-11	5.89E-10	UQCR10	ubiquinol-c protein_co	22	29767369	29770413	1	q12.2
ENSG00000261183	0.8994	1.8653	4.71E-12	1.36E-10	RP11-532F12.5	antisense	15	40835808	40844387	-1	q15.1
ENSG00000176340	0.8988	1.8645	4.18E-13	1.57E-11	COX8A	cytochrom protein_co	11	63974607	63976543	1	q13.1
ENSG00000140395	0.8981	1.8636	1.54E-12	5.05E-11	WDR61	WD repeat protein_co	15	78277835	78299794	-1	q25.1
ENSG00000112110	0.8981	1.8636	1.51E-11	3.85E-10	MRPL18	mitochond protein_co	6	1.6E+08	1.6E+08	1	q25.3
ENSG00000114391	0.8979	1.8634	9.13E-07	8.02E-06	RPL24	ribosomal j protein_co	3	1.02E+08	1.02E+08	-1	q12.3
ENSG00000037241	0.8978	1.8633	9.42E-09	1.31E-07	RPL26L1	ribosomal j protein_co	5	1.73E+08	1.73E+08	1	q35.1
ENSG00000086065	0.897	1.8622	9.78E-11	2.12E-09	CHMP5	charged mi protein_co	9	33264879	33282069	1	p13.3
ENSG00000213246	0.8969	1.862	3.80E-12	1.12E-10	SUPT4H1	suppressor protein_co	17	58345175	58353093	-1	q22
ENSG00000136783	0.8961	1.861	1.01E-10	2.19E-09	NIPSNAP3A	nipsnap ho protein_co	9	1.05E+08	1.05E+08	1	q31.1
ENSG00000145425	0.8957	1.8605	3.49E-05	0.0002	RPS3A	ribosomal j protein_co	4	1.51E+08	1.51E+08	1	q31.3
ENSG00000165092	0.8956	1.8604	0.0044	0.015	ALDH1A1	aldehyde d protein_co	9	72900662	73080442	-1	q21.13
ENSG00000164346	0.8951	1.8597	1.76E-08	2.28E-07	NSA2	NSA2 ribos protein_co	5	74766991	74780113	1	q13.3
ENSG00000181019	0.8951	1.8597	0.0094	0.0287	NQO1	NAD(P)H d: protein_co	16	69706996	69726951	-1	q22.1
ENSG00000266472	0.895	1.8596	2.20E-11	5.46E-10	MRPS21	mitochond protein_co	1	1.5E+08	1.5E+08	1	q21.2
ENSG00000205544	0.8948	1.8594	9.65E-06	6.76E-05	TMEM256	transmemt protein_co	17	7402975	7404137	-1	p13.1
ENSG00000147123	0.8948	1.8593	3.36E-11	8.01E-10	NDUFB11	NADH deh; protein_co X		47142216	47145504	-1	p11.3
ENSG00000173267	0.8944	1.8589	5.50E-05	0.0003	SNCG	synuclein, { protein_co	10	86958618	86963260	1	q23.2
ENSG00000121073	0.8943	1.8588	2.08E-21	7.21E-19	SLC35B1	solute carri protein_co	17	49700943	49709014	-1	q21.33
ENSG00000143774	0.8944	1.8588	1.89E-15	1.22E-13	GUK1	guanylate t protein_co	1	2.28E+08	2.28E+08	1	q42.13
ENSG00000179085	0.8944	1.8588	5.13E-08	6.00E-07	DPM3	dolichyl-ph protein_co	1	1.55E+08	1.55E+08	-1	q22
ENSG00000224971	0.8939	1.8582	5.57E-06	4.10E-05	SUMO2P3	SUMO2 ps: processed_	7	55732144	55732431	1	p11.2
ENSG00000215845	0.8938	1.8581	0.0001	0.0006	TSTD1	thiosulfate protein_co	1	1.61E+08	1.61E+08	-1	q23.3
ENSG00000119328	0.8937	1.858	0.0005	0.0022	FAM206A	family with protein_co	9	1.09E+08	1.09E+08	1	q31.3

ENSG00000118640	0.8933	1.8575	1.83E-21	6.66E-19	VAMP8	vesicle-ass protein_co	2	85561562	85582031	1	p11.2
ENSG00000138036	0.8934	1.8575	0.0008	0.0035	DYNC2L1	dynein, cyt protein_co	2	43774039	43810010	1	p21
ENSG00000067334	0.8932	1.8573	1.41E-14	7.53E-13	DNTTIP2	deoxynucle protein_co	1	93866283	93879918	-1	p22.1
ENSG00000075239	0.8925	1.8564	9.14E-05	0.0005	ACAT1	acetyl-CoA protein_co	11	1.08E+08	1.08E+08	1	q22.3
ENSG00000237651	0.8924	1.8563	0.0037	0.0127	C2orf74	chromosom protein_co	2	61145068	61164829	1	p15
ENSG00000265681	0.8922	1.856	6.31E-08	7.24E-07	RPL17	ribosomal   protein_co	18	49488453	49492565	-1	q21.1
ENSG00000254024	0.8922	1.8559	0.0081	0.0252	KB-1562D12.1	antisense	8	1.01E+08	1.01E+08	-1	q22.3
ENSG00000237039	0.892	1.8557	2.69E-06	2.10E-05	AC018738.2	processed_	2	2.31E+08	2.31E+08	1	q37.1
ENSG00000087842	0.8915	1.8551	0.0007	0.003	PIR	pirin (iron-l protein_co X		15384799	15493564	-1	p22.2
ENSG00000104883	0.8911	1.8546	0.0029	0.0103	PEX11G	peroxisom: protein_co	19	7476875	7497449	-1	p13.2
ENSG00000166710	0.8906	1.8539	4.75E-08	5.62E-07	B2M	beta-2-mic protein_co	15	44711477	44718877	1	q21.1
ENSG00000143786	0.8903	1.8536	0.0037	0.013	CNIH3	cornichon   protein_co	1	2.24E+08	2.25E+08	1	q42.12
ENSG00000177459	0.8891	1.852	6.28E-08	7.21E-07	ERICH5	glutamate- protein_co	8	98064311	98093610	1	q22.2
ENSG00000156958	0.889	1.8519	2.48E-06	1.96E-05	GALK2	galactokin: protein_co	15	49155656	49367869	1	q21.1
ENSG00000233527	0.8883	1.851	0.0015	0.0059	ZNF529-AS1	ZNF529 anti antisense	19	36573070	36594708	1	q13.12
ENSG00000204287	0.8879	1.8504	7.02E-07	6.33E-06	HLA-DRA	major histc protein_co	6	32439842	32445046	1	p21.32
ENSG00000184752	0.887	1.8494	7.14E-14	3.20E-12	NDUFA12	NADH dehy protein_co	12	94897055	95003770	-1	q22
ENSG00000100764	0.8868	1.8491	2.06E-14	1.06E-12	PSMC1	proteasom protein_co	14	90256495	90275429	1	q32.11
ENSG00000156482	0.8865	1.8486	1.84E-05	0.0001	RPL30	ribosomal   protein_co	8	98024851	98046469	-1	q22.2
ENSG00000196656	0.8864	1.8486	0.0046	0.0156	AC004057.1	transcribec	4	1.13E+08	1.13E+08	-1	q26
ENSG00000084072	0.8863	1.8484	4.64E-14	2.21E-12	PPIE	peptidylprc protein_co	1	39692182	39763914	1	p34.2
ENSG00000180098	0.8857	1.8476	8.09E-05	0.0005	TRNAU1AP	tRNA selen protein_co	1	28553085	28578545	1	p35.3
ENSG00000124688	0.8852	1.847	3.32E-10	6.39E-09	MAD2L1BP	MAD2L1 bi protein_co	6	43629540	43640952	1	p21.1
ENSG00000125037	0.8842	1.8458	1.61E-14	8.53E-13	EMC3	ER membr: protein_co	3	9962537	10011116	-1	p25.3
ENSG00000162078	0.8842	1.8458	1.31E-06	1.11E-05	ZG16B	zymogen g protein_co	16	2830169	2839585	1	p13.3
ENSG00000197958	0.8837	1.8451	1.79E-06	1.47E-05	RPL12	ribosomal   protein_co	9	1.27E+08	1.27E+08	-1	q33.3
ENSG00000162244	0.8831	1.8443	8.04E-06	5.73E-05	RPL29	ribosomal   protein_co	3	51993600	51995942	-1	p21.2
ENSG00000173418	0.8826	1.8437	3.67E-10	6.97E-09	NAA20	N(alpha)-a: protein_co	20	20017116	20033655	1	p11.23
ENSG00000118939	0.8824	1.8434	1.77E-07	1.83E-06	UCHL3	ubiquitin c: protein_co	13	75549480	75606020	1	q22.2
ENSG00000089876	0.8821	1.8431	6.53E-07	5.92E-06	DHX32	DEAH (Asp: protein_co	10	1.26E+08	1.26E+08	-1	q26.2
ENSG00000131469	0.8819	1.8428	2.09E-06	1.67E-05	RPL27	ribosomal   protein_co	17	42998273	43002959	1	q21.31
ENSG00000159685	0.8818	1.8427	3.12E-06	2.41E-05	CHCHD6	coiled-coil- protein_co	3	1.27E+08	1.27E+08	1	q21.3
ENSG00000203965	0.881	1.8417	0.0018	0.007	EFCAB7	EF-hand ca protein_co	1	63523372	63572693	1	p31.3
ENSG00000115268	0.8808	1.8415	1.56E-09	2.52E-08	RPS15	ribosomal   protein_co	19	1438358	1440494	1	p13.3
ENSG00000172586	0.8806	1.8411	9.77E-12	2.61E-10	CHCHD1	coiled-coil- protein_co	10	73782047	73783652	1	q22.2
ENSG00000113732	0.8802	1.8407	1.31E-12	4.41E-11	ATP6V0E1	ATPase, H+ protein_co	5	1.73E+08	1.73E+08	1	q35.1
ENSG00000150556	0.8801	1.8406	5.07E-05	0.0003	LYPD6B	LY6/PLAUR protein_co	2	1.49E+08	1.49E+08	1	q23.2

ENSG00000165775	0.8798	1.8401	3.29E-13	1.27E-11	FUNDC2	FUN14 don protein_co X	1.55E+08	1.55E+08	1	q28	
ENSG00000151093	0.8798	1.8401	8.14E-08	9.13E-07	OXSM	3-oxoacyl-/-protein_co	3	25782917	25794534	1	p24.2
ENSG00000176714	0.8795	1.8397	0.0129	0.0376	CCDC121	coiled-coil protein_co	2	27625639	27629012	-1	p23.3
ENSG00000053371	0.8792	1.8393	2.76E-05	0.0002	AKR7A2	aldo-keto r protein_co	1	19303965	19312146	-1	p36.13
ENSG00000134291	0.8789	1.839	2.40E-11	5.89E-10	TMEM106C	transmemt protein_co	12	47963569	47968878	1	q13.11
ENSG00000166136	0.8788	1.8388	8.87E-10	1.52E-08	NDUFB8	NADH dehy protein_co	10	1.01E+08	1.01E+08	-1	q24.31
ENSG00000115514	0.8784	1.8384	3.15E-10	6.09E-09	TXNDC9	thioredoxir protein_co	2	99318982	99340702	-1	q11.2
ENSG00000196262	0.8781	1.838	2.25E-18	3.07E-16	PPIA	peptidylprc protein_co	7	44796680	44824564	1	p13
ENSG00000205542	0.8779	1.8377	8.86E-08	9.81E-07	TMSB4X	thymosin b protein_co X		12975108	12977227	1	p22.2
ENSG00000172922	0.8775	1.8372	9.87E-09	1.36E-07	RNASEH2C	ribonuclea: protein_co	11	65714896	65720947	-1	q13.1
ENSG00000086696	0.8775	1.8372	0.0157	0.0443	HSD17B2	hydroxyste protein_co	16	82035004	82098534	1	q23.3
ENSG00000133935	0.8773	1.837	5.16E-13	1.89E-11	C14orf1	chromoson protein_co	14	75649791	75661189	-1	q24.3
ENSG00000014641	0.8773	1.837	1.66E-12	5.41E-11	MDH1	malate deh protein_co	2	63588609	63607197	1	p15
ENSG00000137038	0.8773	1.837	1.04E-08	1.44E-07	TMEM261	transmemt protein_co	9	7796490	7888380	-1	p24.1
ENSG00000163902	0.8773	1.8369	6.73E-17	6.37E-15	RPN1	ribophorin protein_co	3	1.29E+08	1.29E+08	-1	q21.3
ENSG00000226328	0.8771	1.8367	5.74E-05	0.0003	NUP50-AS1	NUP50 ant lincRNA	22	45133020	45163781	-1	q13.31
ENSG00000105677	0.8769	1.8364	2.05E-11	5.10E-10	TMEM147	transmemt protein_co	19	35545595	35547526	1	q13.12
ENSG00000146416	0.8768	1.8362	3.47E-15	2.14E-13	AIG1	androgen-i protein_co	6	1.43E+08	1.43E+08	1	q24.2
ENSG00000101608	0.8761	1.8354	5.91E-12	1.65E-10	MYL12A	myosin, ligl protein_co	18	3247481	3256236	1	p11.31
ENSG00000185745	0.876	1.8353	0.0099	0.03	IFIT1	interferon- protein_co	10	89392546	89406486	1	q23.31
ENSG00000168701	0.8755	1.8347	3.89E-17	3.88E-15	TMEM208	transmemt protein_co	16	67227103	67229278	1	q22.1
ENSG00000100211	0.8753	1.8344	0.003	0.0107	CBY1	chibby hon protein_co	22	38656636	38673854	1	q13.1
ENSG00000218175	0.8753	1.8344	0.0038	0.0132	AC016739.2	processed_	2	1.76E+08	1.76E+08	-1	q31.1
ENSG00000156928	0.8749	1.8339	1.15E-19	2.08E-17	MALSU1	mitochond protein_co	7	23298739	23311729	1	p15.3
ENSG00000233452	0.8749	1.8339	0.0166	0.0464	STXBP5-AS1	STXBP5 ant antisense	6	1.47E+08	1.47E+08	-1	q24.3
ENSG00000169084	0.8745	1.8334	1.64E-09	2.65E-08	DHRX	dehydroge protein_co X		2219516	2502805	-1	p22.33
ENSG00000110852	0.8743	1.8331	0.0008	0.0033	CLEC2B	C-type lect protein_co	12	9852984	9870136	-1	p13.31
ENSG00000113141	0.874	1.8327	0.0026	0.0095	IK	IK cytokine protein_co	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000106803	0.8738	1.8325	5.84E-14	2.71E-12	SEC61B	Sec61 beta protein_co	9	99222064	99230615	1	q22.33
ENSG00000221983	0.8734	1.832	4.73E-08	5.60E-07	UBA52	ubiquitin A protein_co	19	18571730	18577550	1	p13.11
ENSG00000115226	0.873	1.8315	0.0137	0.0394	FNDC4	fibronectin protein_co	2	27491883	27495245	-1	p23.3
ENSG00000133112	0.8726	1.831	3.04E-07	2.97E-06	TPT1	tumor prot protein_co	13	45333471	45341370	-1	q14.13
ENSG00000115718	0.8726	1.8309	0.0008	0.0035	PROC	protein C (i protein_co	2	1.27E+08	1.27E+08	1	q14.3
ENSG00000183578	0.872	1.8302	0.0099	0.03	TNFAIP8L3	tumor necr protein_co	15	51056598	51105276	-1	q21.2
ENSG00000197580	0.8719	1.8301	0.0091	0.028	BCO2	beta-carot protein_co	11	1.12E+08	1.12E+08	1	q23.1
ENSG00000105193	0.8716	1.8297	5.02E-06	3.72E-05	RPS16	ribosomal j protein_co	19	39433207	39435948	-1	q13.2
ENSG00000177868	0.8714	1.8295	1.43E-10	2.99E-09	CCDC23	coiled-coil protein_co	1	42807052	42817252	-1	p34.2



ENSG00000214975	0.8713	1.8293	0.0015	0.0058 PPIAP29	peptidylprc processed_	6	24976419	24976982	1 p22.3
ENSG00000156467	0.8711	1.8291	4.01E-07	3.81E-06 UQCRB	ubiquinol-c protein_co	8	96225920	96235634	-1 q22.1
ENSG00000127774	0.8709	1.8288	1.10E-07	1.19E-06 EMC6	ER membr:protein_co	17	3668815	3669668	1 p13.2
ENSG00000233184	0.8709	1.8288	3.71E-06	2.83E-05 RP11-421L21.3	antisense	1	1.01E+08	1.01E+08	1 p21.2
ENSG00000249855	0.8706	1.8284	0.0178	0.049 EEF1A1P19	eukaryotic processed_	5	43495073	43496454	-1 p12
ENSG00000233476	0.8698	1.8274	0.0002	0.0011 EEF1A1P6	eukaryotic processed_	7	22510616	22511999	-1 p15.3
ENSG00000172428	0.8697	1.8273	7.40E-11	1.64E-09 MYEOV2	myeloma o protein_co	2	2.4E+08	2.4E+08	-1 q37.3
ENSG00000120437	0.8697	1.8272	3.52E-13	1.35E-11 ACAT2	acetyl-CoA protein_co	6	1.6E+08	1.6E+08	1 q25.3
ENSG00000107551	0.8696	1.8272	0.008	0.0249 RASSF4	Ras associa protein_co	10	44959407	44995891	1 q11.21
ENSG00000169567	0.8693	1.8268	2.38E-10	4.74E-09 HINT1	histidine tr protein_co	5	1.31E+08	1.31E+08	-1 q23.3
ENSG00000196859	0.8691	1.8266	0.0066	0.0213 KRT39	keratin 39   protein_co	17	40958417	40966892	-1 q21.2
ENSG00000231500	0.8689	1.8263	7.93E-05	0.0004 RPS18	ribosomal   protein_co	6	33272010	33276510	1 p21.32
ENSG00000130332	0.8686	1.8258	6.85E-09	9.87E-08 LSM7	LSM7 homi protein_co	19	2321517	2328620	-1 p13.3
ENSG00000198546	0.8684	1.8256	5.67E-06	4.17E-05 ZNF511	zinc finger protein_co	10	1.33E+08	1.33E+08	1 q26.3
ENSG00000142227	0.868	1.8251	0.0012	0.0049 EMP3	epithelial n protein_co	19	48321509	48330553	1 q13.33
ENSG00000141378	0.8679	1.825	3.43E-12	1.03E-10 PTRH2	peptidyl-tR protein_co	17	59674636	59707626	-1 q23.1
ENSG00000213741	0.8679	1.825	0.0004	0.0019 RPS29	ribosomal   protein_co	14	49570984	49599164	-1 q21.3
ENSG00000273132	0.8677	1.8248	0.0014	0.0058 RP11-350J20.12	antisense	6	1.5E+08	1.5E+08	1 q25.1
ENSG00000198744	0.867	1.8239	0.0008	0.0036 RP5-857K21.11	unprocess	1	634376	634922	1 p36.33
ENSG00000219626	0.8664	1.8232	0.0009	0.0038 FAM228B	family with protein_co	2	24076526	24169640	1 p23.3
ENSG00000197165	0.8665	1.8232	0.0155	0.0438 SULT1A2	sulfotransf protein_co	16	28591943	28597109	-1 p11.2
ENSG00000080824	0.8662	1.8228	6.03E-06	4.42E-05 HSP90AA1	heat shock protein_co	14	1.02E+08	1.02E+08	-1 q32.31
ENSG00000162772	0.8661	1.8227	0.001	0.0041 ATF3	activating t protein_co	1	2.13E+08	2.13E+08	1 q32.3
ENSG00000175416	0.8658	1.8223	2.28E-07	2.29E-06 CLTB	clathrin, lig protein_co	5	1.76E+08	1.76E+08	-1 q35.2
ENSG00000213337	0.8656	1.8221	1.42E-06	1.19E-05 ANKRD39	ankyrin re: protein_co	2	96836611	96858095	-1 q11.2
ENSG00000181610	0.8653	1.8217	1.98E-14	1.03E-12 MRPS23	mitochond protein_co	17	57834781	57850056	-1 q22
ENSG00000198732	0.8649	1.8212	0.0069	0.0221 SMOC1	SPARC rela protein_co	14	69854131	70032366	1 q24.2
ENSG00000196683	0.8648	1.8211	3.43E-06	2.63E-05 TOMM7	translocase protein_co	7	22812628	22822852	-1 p15.3
ENSG00000121766	0.8645	1.8207	1.22E-13	5.20E-12 ZCCHC17	zinc finger, protein_co	1	31296982	31364953	1 p35.2
ENSG00000157796	0.8642	1.8204	0.0031	0.011 WDR19	WD repeat protein_co	4	39182404	39285810	1 p14
ENSG00000225285	0.864	1.8201	0.0077	0.0241 RP4-758J18.10	lincRNA	1	1430539	1434573	-1 p36.33
ENSG00000166823	0.8637	1.8197	0.0136	0.0393 MESP1	mesoderm protein_co	15	89748661	89751310	-1 q26.1
ENSG00000148444	0.8637	1.8196	2.44E-09	3.82E-08 COMMD3	COMM dor protein_co	10	22315974	22320308	1 p12.2
ENSG00000139428	0.8628	1.8186	3.27E-06	2.51E-05 MMAB	methylmal: protein_co	12	1.1E+08	1.1E+08	-1 q24.11
ENSG00000197582	0.8624	1.818	2.08E-09	3.29E-08 GPX1P1	glutathione processed_X		13378735	13379340	-1 p22.2
ENSG00000196636	0.862	1.8175	5.50E-07	5.08E-06 ACN9	ACN9 homi protein_co	7	97116590	97181763	1 q21.3
ENSG00000188243	0.8614	1.8168	1.23E-09	2.04E-08 COMMD6	COMM dor protein_co	13	75525219	75549439	-1 q22.2

ENSG00000125148	0.8612	1.8165	0.0167	0.0465	MT2A	metallothio protein_co	16	56608199	56609497	1	q13
ENSG00000120860	0.8611	1.8164	4.17E-11	9.74E-10	CCDC53	coiled-coil protein_co	12	1.02E+08	1.02E+08	-1	q23.2
ENSG00000230989	0.8609	1.8162	8.60E-10	1.48E-08	HSBP1	heat shock protein_co	16	83807843	83819737	1	q23.3
ENSG00000159885	0.8606	1.8158	0.0002	0.001	ZNF222	zinc finger protein_co	19	44025342	44033112	1	q13.31
ENSG00000138085	0.8601	1.8151	6.69E-14	3.04E-12	ATRAID	all-trans re protein_co	2	27212027	27217178	1	p23.3
ENSG00000105372	0.86	1.815	2.28E-07	2.29E-06	RPS19	ribosomal protein_co	19	41859918	41872926	1	q13.2
ENSG00000111237	0.8591	1.8139	4.07E-14	1.97E-12	VPS29	vacuolar protein_co	12	1.1E+08	1.11E+08	-1	q24.11
ENSG00000262902	0.8583	1.8129	0.0157	0.0443	RP11-750B16.1	processed_	17	53105734	53106358	1	q22
ENSG00000239900	0.8577	1.8121	6.48E-17	6.18E-15	ADSL	adenylosuc protein_co	22	40346500	40369367	1	q13.1
ENSG00000241990	0.8576	1.8121	0.0005	0.0023	PRR34-AS1	PRR34 anti antisense	22	46053705	46057210	1	q13.31
ENSG00000113643	0.8573	1.8116	1.51E-25	1.41E-22	RARS	arginyl-tRN protein_co	5	1.68E+08	1.69E+08	1	q34
ENSG00000117862	0.8573	1.8116	5.93E-12	1.66E-10	TXNDC12	thioredoxin protein_co	1	52020131	52056171	-1	p32.3
ENSG00000137168	0.8571	1.8114	9.11E-24	5.97E-21	PPIL1	peptidylpro protein_co	6	36854827	36875024	-1	p21.2
ENSG00000090661	0.8568	1.8111	0.0005	0.0021	CERS4	ceramide s protein_co	19	8206736	8262421	1	p13.2
ENSG00000137975	0.8566	1.8108	8.95E-06	6.32E-05	CLCA2	chloride ch protein_co	1	86424086	86456558	1	p22.3
ENSG00000203875	0.8565	1.8106	1.62E-08	2.12E-07	SNHG5	small nucle processed_	6	85660950	85678736	-1	q14.3
ENSG00000128708	0.8561	1.8102	1.11E-12	3.84E-11	HAT1	histone ace protein_co	2	1.72E+08	1.72E+08	1	q31.1
ENSG00000095380	0.8557	1.8096	3.94E-15	2.37E-13	NANS	N-acetylene protein_co	9	98056739	98083075	1	q22.33
ENSG00000130770	0.8557	1.8096	6.65E-06	4.83E-05	ATPIF1	ATPase inh protein_co	1	28236109	28246906	1	p35.3
ENSG00000221821	0.8552	1.8091	3.56E-05	0.0002	C6orf226	chromosom protein_co	6	42890265	42890816	-1	p21.1
ENSG00000214114	0.8553	1.8091	9.51E-05	0.0005	MYCBP	MYC bindir protein_co	1	38862964	38874495	-1	p34.3
ENSG00000116857	0.8552	1.809	1.22E-17	1.42E-15	TMEM9	transmemt protein_co	1	2.01E+08	2.01E+08	-1	q32.1
ENSG00000170955	0.8552	1.809	1.52E-06	1.27E-05	PRKCDBP	protein kin protein_co	11	6318946	6320647	-1	p15.4
ENSG00000086200	0.8545	1.8081	0.0003	0.0015	IPO11	importin 1: protein_co	5	62403972	62628582	1	q12.1
ENSG00000002330	0.8537	1.8071	1.87E-07	1.92E-06	BAD	BCL2-assoc protein_co	11	64269830	64284704	-1	q13.1
ENSG00000138798	0.8537	1.8071	0.0089	0.0274	EGF	epidermal protein_co	4	1.1E+08	1.1E+08	1	q25
ENSG00000175110	0.8534	1.8068	1.96E-12	6.26E-11	MRPS22	mitochond protein_co	3	1.39E+08	1.39E+08	1	q23
ENSG00000166920	0.8534	1.8067	0.002	0.0076	C15orf48	chromosom protein_co	15	45430529	45448761	1	q21.1
ENSG00000196839	0.8528	1.806	0.0002	0.0009	ADA	adenosine protein_co	20	44619522	44652233	-1	q13.12
ENSG00000127952	0.8525	1.8057	9.63E-06	6.74E-05	STYXL1	serine/thre protein_co	7	75996338	76048004	-1	q11.23
ENSG00000103121	0.8523	1.8054	1.33E-09	2.20E-08	CMC2	C-x(9)-C mc protein_co	16	80966448	81020270	-1	q23.2
ENSG00000143612	0.8521	1.8052	3.71E-16	2.94E-14	C1orf43	chromosom protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000142541	0.852	1.8051	2.45E-05	0.0002	RPL13A	ribosomal protein_co	19	49487554	49492308	1	q13.33
ENSG00000197043	0.8516	1.8044	0.0174	0.0481	ANXA6	annexin A6 protein_co	5	1.51E+08	1.51E+08	-1	q33.1
ENSG00000272666	0.8509	1.8037	0.015	0.0425	CTA-384D8.35	lincRNA	22	50542305	50542906	-1	q13.33
ENSG00000165948	0.8501	1.8027	1.43E-08	1.89E-07	IFI271	interferon, protein_co	14	94081282	94103846	1	q32.12
ENSG00000137947	0.8499	1.8024	3.20E-13	1.24E-11	GTF2B	general tra protein_co	1	88852932	88891944	-1	p22.2

ENSG00000115944	0.8488	1.801	6.62E-13	2.38E-11	COX7A2L	cytochrome protein_co	2	42333546	42425088	-1	p21
ENSG00000225265	0.8483	1.8003	0.0007	0.0029	TAF1A-AS1	TAF1A anti antisense	1	2.23E+08	2.23E+08	1	q41
ENSG00000188690	0.8478	1.7998	7.11E-18	8.68E-16	UROS	uroporphyrin protein_co	10	1.26E+08	1.26E+08	-1	q26.2
ENSG00000099260	0.8474	1.7993	1.80E-07	1.86E-06	PALMD	palmdelphi protein_co	1	99645943	99694541	1	p21.2
ENSG00000077152	0.8465	1.7981	0.0062	0.0201	UBE2T	ubiquitin-c protein_co	1	2.02E+08	2.02E+08	-1	q32.1
ENSG00000140092	0.8462	1.7978	0.0019	0.0074	FBLN5	fibulin 5 [S] protein_co	14	91869412	91947987	-1	q32.12
ENSG00000273611	0.8461	1.7976	6.88E-12	1.90E-10	ZNHIT3	zinc finger, protein_co	17	36486629	36499310	1	q12
ENSG00000166441	0.8457	1.7971	3.09E-06	2.39E-05	RPL27A	ribosomal l protein_co	11	8682411	8714759	1	p15.4
ENSG00000160688	0.845	1.7962	8.19E-17	7.63E-15	FLAD1	flavin aden protein_co	1	1.55E+08	1.55E+08	1	q21.3
ENSG00000272168	0.8449	1.7961	0.0017	0.0065	CASC15	cancer susclincRNA	6	21664772	22214505	1	p22.3
ENSG00000147894	0.8446	1.7958	0.0018	0.007	C9orf72	chromosome protein_co	9	27546545	27573866	-1	p21.2
ENSG00000101844	0.844	1.795	9.15E-17	8.44E-15	ATG4A	autophagy protein_co X		1.08E+08	1.08E+08	1	q22.3
ENSG00000149483	0.8439	1.7949	7.83E-11	1.72E-09	TMEM138	transmembrane protein_co	11	61362001	61369509	1	q12.2
ENSG00000243147	0.8438	1.7947	4.83E-13	1.78E-11	MRPL33	mitochondrial protein_co	2	27771717	27988087	1	p23.2
ENSG00000100908	0.8438	1.7947	0.0002	0.001	EMC9	ER membrane protein_co	14	24138959	24141588	-1	q12
ENSG00000174444	0.8434	1.7942	3.43E-06	2.63E-05	RPL4	ribosomal l protein_co	15	66498015	66524532	-1	q22.31
ENSG00000145247	0.8421	1.7927	3.86E-11	9.12E-10	OCIAD2	OCIA domain protein_co	4	48885019	48906937	-1	p11
ENSG00000168273	0.8421	1.7926	6.52E-07	5.91E-06	SMIM4	small integ protein_co	3	52534013	52579237	1	p21.1
ENSG00000158042	0.842	1.7925	1.73E-10	3.54E-09	MRPL17	mitochondrial protein_co	11	6680782	6683401	-1	p15.4
ENSG00000205420	0.8418	1.7923	0.0004	0.002	KRT6A	keratin 6A protein_co	12	52487174	52493257	-1	q13.13
ENSG00000151376	0.8417	1.7922	2.95E-08	3.65E-07	ME3	malic enzyme protein_co	11	86441108	86672636	-1	q14.2
ENSG00000146007	0.8411	1.7914	2.46E-11	6.01E-10	ZMAT2	zinc finger, protein_co	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000256393	0.8409	1.7912	0.0037	0.0128	RPL41P5	ribosomal l processed_	12	93083598	93083675	-1	q22
ENSG00000183444	0.8409	1.7912	0.0051	0.0169	OR7E38P	olfactory receptor unprocess	7	97966090	97967074	-1	q21.3
ENSG00000184990	0.8407	1.791	4.91E-07	4.58E-06	SIVA1	SIVA1, apo protein_co	14	1.05E+08	1.05E+08	1	q32.33
ENSG00000167283	0.8405	1.7906	1.43E-09	2.34E-08	ATP5L	ATP synthase protein_co	11	1.18E+08	1.18E+08	1	q23.3
ENSG00000164919	0.8402	1.7903	3.82E-07	3.64E-06	COX6C	cytochrome protein_co	8	99873200	99894062	-1	q22.2
ENSG00000169019	0.8398	1.7899	2.23E-07	2.25E-06	COMMD8	COMM domain protein_co	4	47450796	47463719	-1	p12
ENSG00000165046	0.8398	1.7898	8.99E-06	6.35E-05	LETM2	leucine zipper protein_co	8	38386207	38409527	1	p11.23
ENSG00000156973	0.8398	1.7897	4.34E-13	1.62E-11	PDE6D	phosphodiesterase protein_co	2	2.32E+08	2.32E+08	-1	q37.1
ENSG00000225663	0.8391	1.789	2.59E-15	1.64E-13	FAM195B	family with protein_co	17	81822361	81833302	-1	q25.3
ENSG00000100246	0.8382	1.7879	0.0047	0.0159	DNAL4	dynein, axc protein_co	22	38778508	38794198	-1	q13.1
ENSG00000118680	0.8382	1.7878	1.56E-13	6.50E-12	MYL12B	myosin, light protein_co	18	3261909	3278284	1	p11.31
ENSG00000110871	0.8373	1.7867	1.82E-06	1.48E-05	COQ5	coenzyme Q protein_co	12	1.21E+08	1.21E+08	-1	q24.31
ENSG00000051523	0.8369	1.7863	2.13E-14	1.08E-12	CYBA	cytochrome protein_co	16	88643283	88651152	-1	q24.2
ENSG00000118181	0.8369	1.7862	3.51E-05	0.0002	RPS25	ribosomal l protein_co	11	1.19E+08	1.19E+08	-1	q23.3
ENSG00000150551	0.8368	1.7861	0.0014	0.0055	LYPD1	LY6/PLAUR protein_co	2	1.33E+08	1.33E+08	-1	q21.2

ENSG00000135336	0.8367	1.786	1.77E-11	4.45E-10	ORC3	origin reco;protein_co	6	87590067	87667453	1	q15
ENSG00000150316	0.8367	1.7859	3.66E-12	1.09E-10	CWC15	CWC15 spli;protein_co	11	94962622	94973612	-1	q21
ENSG00000246705	0.8366	1.7859	5.87E-10	1.06E-08	H2AFJ	H2A histon;protein_co	12	14774383	14778002	1	p12.3
ENSG00000089009	0.8366	1.7859	9.45E-08	1.04E-06	RPL6	ribosomal ;protein_co	12	1.12E+08	1.12E+08	-1	q24.13
ENSG00000142676	0.8367	1.7859	1.59E-06	1.32E-05	RPL11	ribosomal ;protein_co	1	23691779	23696425	1	p36.11
ENSG00000167272	0.8357	1.7847	5.66E-11	1.29E-09	POP5	processing;protein_co	12	1.21E+08	1.21E+08	-1	q24.31
ENSG00000065427	0.8356	1.7846	9.38E-14	4.10E-12	KARS	lysyl-tRNA;protein_co	16	75627474	75648643	-1	q23.1
ENSG00000158373	0.8355	1.7844	1.07E-06	9.24E-06	HIST1H2BD	histone clu;protein_co	6	26158146	26171349	1	p22.2
ENSG00000204852	0.8354	1.7844	0.0164	0.0459	TCTN1	tectonic fai;protein_co	12	1.11E+08	1.11E+08	1	q24.11
ENSG00000213719	0.8352	1.7841	2.07E-14	1.06E-12	CLIC1	chloride int;protein_co	6	31730581	31739763	-1	p21.33
ENSG00000241343	0.8348	1.7836	0.0088	0.0272	RPL36A	ribosomal ;protein_co X		1.01E+08	1.01E+08	1	q22.1
ENSG00000198856	0.8339	1.7825	1.03E-06	8.93E-06	OSTC	oligosaccha;protein_co	4	1.09E+08	1.09E+08	1	q25
ENSG00000197728	0.8335	1.782	1.06E-18	1.60E-16	RPS26	ribosomal ;protein_co	12	56041853	56044675	1	q13.2
ENSG00000135390	0.8331	1.7815	5.13E-07	4.76E-06	ATP5G2	ATP syntha;protein_co	12	53632726	53677408	-1	q13.13
ENSG00000168288	0.8329	1.7813	5.43E-14	2.55E-12	MMADHC	methylmal;protein_co	2	1.5E+08	1.5E+08	-1	q23.2
ENSG00000145020	0.8327	1.781	0.0068	0.0218	AMT	aminomet;protein_co	3	49416778	49422753	-1	p21.31
ENSG00000135315	0.8322	1.7803	0.0056	0.0184	CEP162	centrosom;protein_co	6	84124241	84227635	-1	q14.3
ENSG00000143947	0.832	1.7801	3.61E-06	2.76E-05	RPS27A	ribosomal ;protein_co	2	55231903	55235853	1	p16.1
ENSG00000178982	0.8315	1.7795	1.76E-06	1.44E-05	EIF3K	eukaryotic;protein_co	19	38619082	38636955	1	q13.2
ENSG00000112304	0.8314	1.7794	6.52E-10	1.16E-08	ACOT13	acyl-CoA t;protein_co	6	24667035	24705065	1	p22.3
ENSG00000105518	0.8309	1.7788	5.62E-07	5.17E-06	TMEM205	transmemt;protein_co	19	11342776	11346518	-1	p13.2
ENSG00000112312	0.8307	1.7786	0.0009	0.0038	GMNN	geminin, D;protein_co	6	24774931	24786099	1	p22.3
ENSG00000254999	0.8303	1.7781	3.82E-21	1.21E-18	BRK1	BRICK1, SC;protein_co	3	10115592	10127190	1	p25.3
ENSG00000140264	0.8301	1.7779	7.52E-12	2.07E-10	SERF2	small EDRK;protein_co	15	43777087	43802589	1	q15.3
ENSG00000132581	0.8301	1.7778	4.88E-14	2.32E-12	SDF2	stromal cel;protein_co	17	28648356	28662189	-1	q11.2
ENSG00000119421	0.8298	1.7774	9.89E-12	2.63E-10	NDUFA8	NADH deh;protein_co	9	1.22E+08	1.22E+08	-1	q33.2
ENSG00000261371	0.8296	1.7772	0.0076	0.0239	PECAM1	platelet/en;protein_co	17	64319415	64413776	-1	q23.3
ENSG00000105852	0.8295	1.7771	1.93E-05	0.0001	PON3	paraoxona;protein_co	7	95359944	95396368	-1	q21.3
ENSG00000147687	0.829	1.7765	1.14E-10	2.44E-09	TATDN1	TatD DNas;protein_co	8	1.24E+08	1.25E+08	-1	q24.13
ENSG00000160752	0.8289	1.7763	5.54E-20	1.12E-17	FDPS	farnesyl di;protein_co	1	1.55E+08	1.55E+08	1	q22
ENSG00000164347	0.8288	1.7762	2.83E-06	2.21E-05	GFM2	G elongatic;protein_co	5	74721204	74767371	-1	q13.3
ENSG00000159352	0.828	1.7752	1.13E-15	7.77E-14	PSMD4	proteasom;protein_co	1	1.51E+08	1.51E+08	1	q21.3
ENSG00000134697	0.8279	1.7751	1.12E-15	7.74E-14	GNL2	guanine nu;protein_co	1	37566816	37595935	-1	p34.3
ENSG00000175197	0.8271	1.7741	1.12E-06	9.63E-06	DDIT3	DNA-dama;protein_co	12	57516588	57520517	-1	q13.3
ENSG00000020426	0.8269	1.7738	1.70E-13	7.03E-12	MNAT1	MNAT CDK;protein_co	14	60734742	60969953	1	q23.1
ENSG00000143183	0.8261	1.7728	2.47E-14	1.25E-12	TMCO1	transmemt;protein_co	1	1.66E+08	1.66E+08	-1	q24.1
ENSG00000146540	0.8259	1.7726	1.17E-12	3.99E-11	C7orf50	chromoson;protein_co	7	996986	1138260	-1	p22.3

ENSG00000113924	0.8258	1.7726	0.0031	0.011 HGD	homogenti protein_co	3	1.21E+08	1.21E+08	-1 q13.33
ENSG00000143412	0.8258	1.7725	0.0001	0.0007 ANXA9	annexin A9 protein_co	1	1.51E+08	1.51E+08	1 q21.3
ENSG00000188352	0.8258	1.7725	0.0003	0.0016 FOCAD	focadhesin protein_co	9	20658309	20995955	1 p21.3
ENSG00000178307	0.8257	1.7724	1.03E-16	9.20E-15 TMEM11	transmemt protein_co	17	21197280	21214624	-1 p11.2
ENSG00000185808	0.8255	1.7722	2.98E-09	4.59E-08 PIGP	phosphatic protein_co	21	37059170	37073170	-1 q22.13
ENSG00000246090	0.8255	1.7721	0.0002	0.0011 RP11-696N14.1	antisense	4	99088857	99301356	1 q23
ENSG00000181991	0.8254	1.772	6.13E-14	2.82E-12 MRPS11	mitochond protein_co	15	88467453	88480773	1 q25.3
ENSG00000140416	0.8252	1.7718	0.0168	0.0467 TPM1	tropomyos protein_co	15	63042632	63071915	1 q22.2
ENSG00000205078	0.8251	1.7717	0.0025	0.0093 SYCE1L	synaptonei protein_co	16	77199397	77213215	1 q23.1
ENSG00000172590	0.824	1.7703	3.19E-13	1.24E-11 MRPL52	mitochond protein_co	14	22829879	22835037	1 q11.2
ENSG00000084207	0.8238	1.7701	2.59E-11	6.29E-10 GSTP1	glutathione protein_co	11	67583595	67586660	1 q13.2
ENSG00000243725	0.8237	1.7699	0.0007	0.0029 TTC4	tetratricop protein_co	1	54715822	54742657	1 p32.3
ENSG00000187051	0.8235	1.7697	2.18E-08	2.77E-07 RPS19BP1	ribosomal l protein_co	22	39529093	39532855	-1 q13.1
ENSG00000165502	0.8233	1.7694	1.23E-14	6.83E-13 RPL36AL	ribosomal l protein_co	14	49618519	49620685	-1 q21.3
ENSG00000171202	0.8233	1.7694	1.98E-08	2.53E-07 TMEM126A	transmemt protein_co	11	85647967	85656547	1 q14.1
ENSG00000132963	0.8225	1.7685	1.56E-13	6.50E-12 POMP	proteasom protein_co	13	28659104	28678925	1 q12.3
ENSG00000111554	0.8224	1.7683	0.0076	0.0238 MDM1	Mdm1 nuc protein_co	12	68272443	68332381	-1 q15
ENSG00000150540	0.8221	1.7679	0.0007	0.0031 HNMT	histamine l protein_co	2	1.38E+08	1.38E+08	1 q22.1
ENSG00000137547	0.8219	1.7677	1.29E-09	2.14E-08 MRPL15	mitochond protein_co	8	54135210	54147901	1 q11.23
ENSG00000150991	0.8218	1.7676	3.02E-13	1.18E-11 UBC	ubiquitin C protein_co	12	1.25E+08	1.25E+08	-1 q24.31
ENSG00000103415	0.8213	1.767	4.29E-18	5.51E-16 HMOX2	heme oxyg protein_co	16	4474690	4510347	1 p13.3
ENSG00000189377	0.8213	1.767	6.14E-06	4.48E-05 CXCL17	chemokine protein_co	19	42428288	42443048	-1 q13.2
ENSG00000138663	0.8212	1.7668	2.22E-13	8.95E-12 COPS4	COP9 signa protein_co	4	83034447	83075818	1 q21.22
ENSG00000111229	0.8207	1.7663	4.96E-17	4.88E-15 ARPC3	actin relate protein_co	12	1.1E+08	1.1E+08	-1 q24.11
ENSG00000233461	0.8206	1.7662	0.0011	0.0045 RP11-295G20.2	antisense	1	2.32E+08	2.32E+08	-1 q42.2
ENSG00000179029	0.82	1.7654	0.0149	0.0424 TMEM107	transmemt protein_co	17	8173237	8176399	-1 p13.1
ENSG00000136897	0.8199	1.7652	2.50E-11	6.08E-10 MRPL50	mitochond protein_co	9	1.01E+08	1.01E+08	-1 q31.1
ENSG00000005075	0.8196	1.7649	2.66E-08	3.31E-07 POLR2J	polymeras protein_co	7	1.02E+08	1.02E+08	-1 q22.1
ENSG00000117448	0.8193	1.7646	3.56E-08	4.32E-07 AKR1A1	aldo-keto r protein_co	1	45550543	45570049	1 p34.1
ENSG00000198763	0.819	1.7641	8.41E-08	9.37E-07 MT-ND2	mitochond protein_co MT		4470	5511	1
ENSG00000161057	0.8187	1.7638	2.23E-18	3.06E-16 PSMC2	proteasom protein_co	7	1.03E+08	1.03E+08	1 q22.1
ENSG00000214194	0.8186	1.7637	8.10E-09	1.15E-07 LINC00998	long interg lincRNA	7	1.13E+08	1.13E+08	-1 q31.1
ENSG00000115289	0.8181	1.763	2.45E-09	3.83E-08 PCGF1	polycomb ξ protein_co	2	74505043	74508580	-1 p13.1
ENSG00000156697	0.8175	1.7623	1.87E-07	1.92E-06 UTP14A	UTP14, U3 protein_co X		1.3E+08	1.3E+08	1 q26.1
ENSG00000135047	0.8168	1.7615	7.76E-09	1.11E-07 CTSL	cathepsin l protein_co	9	87725519	87731393	1 q21.33
ENSG00000113811	0.8166	1.7613	6.90E-10	1.22E-08 SELK	selenoprot protein_co	3	53884410	53891988	-1 p21.1
ENSG00000196659	0.8165	1.7611	0.0117	0.0346 TTC30B	tetratricop protein_co	2	1.78E+08	1.78E+08	-1 q31.2



ENSG00000104324	0.8164	1.761	6.06E-06	4.44E-05 CPQ	carboxypeptidase protein_co	8	96645227	97149654	1	q22.1
ENSG00000248527	0.8158	1.7603	1.08E-10	2.32E-09 MTATP6P1	mitochondrial unprocessed	1	633696	634376	1	p36.33
ENSG00000250328	0.8149	1.7592	0.0124	0.0363 MGC32805	uncharacterized antisense	5	1.22E+08	1.22E+08	-1	q23.2
ENSG00000109881	0.8145	1.7587	0.0067	0.0213 CCDC34	coiled-coil protein_co	11	27330827	27363868	-1	p14.1
ENSG00000223478	0.8135	1.7575	0.0001	0.0006 RP11-545E17.3	antisense	9	1.29E+08	1.29E+08	1	q34.11
ENSG00000124562	0.8133	1.7573	1.62E-13	6.73E-12 SNRPC	small nuclear protein_co	6	34757406	34773794	1	p21.31
ENSG00000096080	0.8132	1.7571	1.84E-09	2.94E-08 MRPS18A	mitochondrial protein_co	6	43671303	43687791	-1	p21.1
ENSG00000108826	0.8131	1.757	3.58E-15	2.20E-13 MRPL27	mitochondrial protein_co	17	50367857	50373214	-1	q21.33
ENSG00000250317	0.8131	1.757	4.07E-09	6.09E-08 SMIM20	small integral protein_co	4	25861830	25929874	1	p15.2
ENSG00000156508	0.8129	1.7567	1.01E-06	8.80E-06 EEF1A1	eukaryotic protein_co	6	73515750	73523797	-1	q13
ENSG00000115216	0.8127	1.7565	3.48E-24	2.44E-21 NRBP1	nuclear receptor protein_co	2	27427790	27442259	1	p23.3
ENSG00000149050	0.8117	1.7553	0.0025	0.0093 ZNF214	zinc finger protein_co	11	6999318	7020368	-1	p15.4
ENSG00000143549	0.8116	1.7552	2.11E-27	2.77E-24 TPM3	tropomyosin protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000267321	0.8115	1.755	1.92E-05	0.0001 RP11-1094M14.11	lincRNA	17	35568120	35574792	1	q12
ENSG00000181458	0.8115	1.755	0.0096	0.0291 TMEM45A	transmembrane protein_co	3	1E+08	1.01E+08	1	q12.2
ENSG00000151287	0.8114	1.7549	0.0002	0.0009 TEX30	testis expressed protein_co	13	1.03E+08	1.03E+08	-1	q33.1
ENSG00000172748	0.8112	1.7547	2.22E-05	0.0001 ZNF596	zinc finger protein_co	8	232137	247342	1	p23.3
ENSG00000257727	0.8106	1.7539	8.61E-08	9.58E-07 CNPY2	canopy FGF protein_co	12	56309842	56316336	-1	q13.3
ENSG00000196704	0.8102	1.7534	1.48E-10	3.08E-09 AMZ2	archaealysin protein_co	17	68247574	68257164	1	q24.2
ENSG00000186577	0.8098	1.753	0.0001	0.0007 C6orf1	chromosomal protein_co	6	34246380	34249470	-1	p21.31
ENSG00000228253	0.8097	1.7529	4.55E-09	6.74E-08 MT-ATP8	mitochondrial protein_co MT		8366	8572	1	
ENSG00000274173	0.8098	1.7529	0.0001	0.0008 RP4-568C11.4	lincRNA	20	24931840	24932983	1	p11.21
ENSG00000108298	0.8094	1.7525	1.76E-08	2.27E-07 RPL19	ribosomal protein_co	17	39200283	39204727	1	q12
ENSG00000095485	0.8094	1.7524	3.93E-09	5.90E-08 CWF19L1	CWF19-like protein_co	10	1E+08	1E+08	-1	q24.31
ENSG00000214485	0.8092	1.7522	0.0013	0.0054 RPL7P1	ribosomal protein_co processed	5	1.5E+08	1.5E+08	1	q32
ENSG00000166347	0.8088	1.7517	3.41E-06	2.62E-05 CYB5A	cytochrome protein_co	18	74250847	74292016	-1	q22.3
ENSG00000165283	0.8087	1.7516	1.60E-08	2.10E-07 STOML2	stomatolysin protein_co	9	35099776	35103195	-1	p13.3
ENSG00000188015	0.8084	1.7513	0.0135	0.039 S100A3	S100 calcium protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000120533	0.808	1.7508	1.26E-10	2.65E-09 ENY2	enhancer protein_co	8	1.09E+08	1.09E+08	1	q23.1
ENSG00000128891	0.8077	1.7504	5.18E-10	9.45E-09 C15orf57	chromosomal protein_co	15	40528683	40565057	-1	q15.1
ENSG00000089157	0.8075	1.7501	5.43E-05	0.0003 RPLP0	ribosomal protein_co	12	1.2E+08	1.2E+08	-1	q24.23
ENSG00000181061	0.8071	1.7497	6.57E-10	1.17E-08 HIGD1A	HIG1 hydrolase protein_co	3	42757177	42804531	-1	p22.1
ENSG00000138449	0.8071	1.7497	0.0057	0.0187 SLC40A1	solute carrier protein_co	2	1.9E+08	1.9E+08	-1	q32.2
ENSG00000247092	0.807	1.7495	0.016	0.0448 SNHG10	small nuclear antisense	14	95532297	95534872	-1	q32.13
ENSG00000108010	0.8068	1.7493	1.30E-29	2.56E-26 GLRX3	glutaredoxin protein_co	10	1.3E+08	1.3E+08	1	q26.3
ENSG00000010270	0.8067	1.7492	3.32E-09	5.06E-08 STARD3NL	STARD3 N-terminal protein_co	7	38178222	38230671	1	p14.1
ENSG00000106610	0.8066	1.749	1.19E-06	1.02E-05 STAG3L4	stromal and transcribed	7	67302621	67321526	1	q11.21

ENSG00000164751	0.8065	1.7489	4.04E-13	1.53E-11	PEX2	peroxisom:protein_co	8	76980258	77001044	-1	q21.13
ENSG00000099256	0.8065	1.7489	6.02E-05	0.0003	PRTFDC1	phosphorit protein_co	10	24848607	24952604	-1	p12.1
ENSG00000115204	0.8062	1.7486	5.91E-19	9.37E-17	MPV17	MpV17 mit protein_co	2	27309492	27325680	-1	p23.3
ENSG00000115233	0.8059	1.7483	1.18E-16	1.04E-14	PSMD14	proteasom protein_co	2	1.61E+08	1.61E+08	1	q24.2
ENSG00000075188	0.8056	1.7479	1.68E-07	1.75E-06	NUP37	nucleopori protein_co	12	1.02E+08	1.02E+08	-1	q23.2
ENSG00000100220	0.8047	1.7468	4.83E-18	6.16E-16	RTCB	RNA 2',3'-c protein_co	22	32387582	32412255	-1	q12.3
ENSG00000125864	0.8044	1.7464	0.0001	0.0007	BFSP1	beaded fila protein_co	20	17493905	17569220	-1	p12.1
ENSG00000169715	0.804	1.7459	2.12E-06	1.70E-05	MT1E	metallothic protein_co	16	56625475	56627112	1	q13
ENSG00000265354	0.8037	1.7455	3.76E-16	2.97E-14	TIMM23	translocase protein_co	10	45972449	46003734	1	q11.22
ENSG00000198832	0.8034	1.7452	0.0006	0.0027	SELM	selenoprot protein_co	22	31104772	31120069	-1	q12.2
ENSG00000107020	0.803	1.7447	9.70E-14	4.23E-12	PLGRKT	plasminoge protein_co	9	5357973	5437878	-1	p24.1
ENSG00000165819	0.8026	1.7443	1.02E-13	4.43E-12	METTL3	methyltran protein_co	14	21498133	21511375	-1	q11.2
ENSG00000174456	0.8026	1.7442	0.0008	0.0036	C12orf76	chromoson protein_co	12	1.1E+08	1.1E+08	-1	q24.11
ENSG00000155366	0.8022	1.7437	5.38E-08	6.25E-07	RHOC	ras homolc protein_co	1	1.13E+08	1.13E+08	-1	p13.2
ENSG00000255071	0.8021	1.7437	0.0118	0.0346	SAA2-SAA4	SAA2-SAA4 protein_co	11	18231423	18248635	-1	p15.1
ENSG00000151338	0.802	1.7436	9.31E-06	6.55E-05	MIPOL1	mirror-ima protein_co	14	37197913	37552361	1	q13.3
ENSG00000169750	0.801	1.7423	0.0064	0.0207	RAC3	ras-related protein_co	17	82031624	82034204	1	q25.3
ENSG00000125977	0.8009	1.7422	5.58E-21	1.59E-18	EIF2S2	eukaryotic protein_co	20	34088298	34112332	-1	q11.22
ENSG00000189376	0.8005	1.7417	0.0001	0.0006	C8orf76	chromoson protein_co	8	1.23E+08	1.23E+08	-1	q24.13
ENSG00000167157	0.8	1.7412	0.0014	0.0055	PRRX2	paired rela protein_co	9	1.3E+08	1.3E+08	1	q34.11
ENSG00000138356	0.8	1.7411	0.0172	0.0477	AOX1	aldehyde o protein_co	2	2.01E+08	2.01E+08	1	q33.1
ENSG00000228106	0.7996	1.7406	0.0021	0.0078	RP11-452F19.3	lincRNA	1	2.23E+08	2.23E+08	1	q41
ENSG00000138785	0.7993	1.7402	1.03E-10	2.21E-09	INTS12	integrator (protein_co	4	1.06E+08	1.06E+08	-1	q24
ENSG00000151470	0.7991	1.7401	7.81E-06	5.59E-05	C4orf33	chromoson protein_co	4	1.29E+08	1.29E+08	1	q28.2
ENSG00000164898	0.799	1.7399	0.0014	0.0057	C7orf55	chromoson protein_co	7	1.39E+08	1.39E+08	1	q34
ENSG00000125848	0.7984	1.7391	0.0137	0.0395	FLRT3	fibronectin protein_co	20	14322988	14337616	-1	p12.1
ENSG00000103671	0.7983	1.739	5.85E-13	2.12E-11	TRIP4	thyroid hor protein_co	15	64387748	64455303	1	q22.31
ENSG00000170296	0.7983	1.739	1.58E-10	3.26E-09	GABARAP	GABA(A) re protein_co	17	7240014	7242770	-1	p13.1
ENSG00000147586	0.7983	1.739	4.11E-06	3.10E-05	MRPS28	mitochond protein_co	8	79918717	80030289	-1	q21.13
ENSG00000205403	0.7983	1.739	0.0007	0.0032	CFI	complemei protein_co	4	1.1E+08	1.1E+08	-1	q25
ENSG00000135469	0.7981	1.7389	0.002	0.0075	COQ10A	coenzyme (protein_co	12	56266858	56270966	1	q13.3
ENSG00000104671	0.798	1.7387	1.97E-08	2.52E-07	DCTN6	dynactin 6 protein_co	8	30156297	30183640	1	p12
ENSG00000099840	0.798	1.7387	0.0086	0.0267	IZUMO4	IZUMO far protein_co	19	2096429	2099593	1	p13.3
ENSG00000157551	0.7978	1.7384	0.0007	0.0033	KCNJ15	potassium protein_co	21	38157034	38307357	1	q22.13
ENSG00000171530	0.7964	1.7368	1.24E-08	1.66E-07	TBCA	tubulin folk protein_co	5	77691166	77868780	-1	q14.1
ENSG00000175324	0.7959	1.7362	4.88E-13	1.80E-11	LSM1	LSM1, U6 s protein_co	8	38163321	38176730	-1	p11.23
ENSG00000185627	0.7955	1.7357	8.79E-27	1.08E-23	PSMD13	proteasom protein_co	11	236546	252984	1	p15.5

ENSG00000176386	0.7955	1.7356	2.30E-07	2.31E-06	CDC26	cell divisior protein_co	9	1.13E+08	1.13E+08	-1	q32
ENSG00000115042	0.7952	1.7353	1.50E-06	1.25E-05	FAHD2A	fumarylce protein_co	2	95402721	95416616	1	q11.1
ENSG00000168060	0.795	1.735	0.0053	0.0176	NAALADL1	N-acetylate protein_co	11	65044818	65058549	-1	q13.1
ENSG00000159403	0.7946	1.7346	7.96E-09	1.13E-07	C1R	complemei protein_co	12	7080209	7092607	-1	p13.31
ENSG00000225791	0.794	1.7339	3.49E-05	0.0002	TRAM2-AS1	TRAM2 ant lincRNA	6	52577307	52583993	1	p12.2
ENSG00000089053	0.794	1.7338	9.05E-14	3.97E-12	ANAPC5	anaphase $\zeta$ protein_co	12	1.21E+08	1.21E+08	-1	q24.31
ENSG00000053501	0.7936	1.7334	2.01E-08	2.56E-07	USE1	unconventi protein_co	19	17215346	17219829	1	p13.11
ENSG00000145331	0.7934	1.7331	0.0004	0.0018	TRMT10A	tRNA meth protein_co	4	99546709	99564032	-1	q23
ENSG00000125454	0.793	1.7326	7.41E-05	0.0004	SLC25A19	solute carri protein_co	17	75272981	75289510	-1	q25.1
ENSG00000054148	0.7926	1.7322	8.61E-16	6.15E-14	PHPT1	phosphohi: protein_co	9	1.37E+08	1.37E+08	1	q34.3
ENSG00000116120	0.7926	1.7321	1.51E-07	1.59E-06	FARSB	phenylalan protein_co	2	2.23E+08	2.23E+08	-1	q36.1
ENSG00000254967	0.7922	1.7317	0.0071	0.0225	RP11-680F20.6	antisense	11	1.26E+08	1.26E+08	1	q24.2
ENSG00000171858	0.7921	1.7316	0.0004	0.002	RPS21	ribosomal $\mu$ protein_co	20	62387116	62388520	1	q13.33
ENSG00000182768	0.7915	1.7309	3.39E-12	1.02E-10	NGRN	neugrin, ne protein_co	15	90265659	90278141	1	q26.1
ENSG00000163468	0.7914	1.7307	5.26E-12	1.50E-10	CCT3	chaperonir protein_co	1	1.56E+08	1.56E+08	-1	q22
ENSG00000268001	0.7914	1.7307	0.0059	0.0191	CTC-241F20.3	antisense	19	48255675	48258199	1	q13.33
ENSG00000177700	0.7912	1.7306	5.94E-15	3.49E-13	POLR2L	polymeras $\epsilon$ protein_co	11	837356	842545	-1	p15.5
ENSG00000104691	0.7909	1.7302	4.69E-07	4.39E-06	UBXN8	UBX domai protein_co	8	30732247	30767006	1	p12
ENSG00000197353	0.7907	1.7299	0.0034	0.0119	LYPD2	LY6/PLAUR protein_co	8	1.43E+08	1.43E+08	-1	q24.3
ENSG00000083807	0.7905	1.7297	0.0054	0.0177	SLC27A5	solute carri protein_co	19	58479512	58512413	-1	q13.43
ENSG00000129460	0.7903	1.7294	1.09E-08	1.49E-07	NGDN	neuroguidi protein_co	14	23469688	23509862	1	q11.2
ENSG00000170860	0.7901	1.7292	4.09E-09	6.12E-08	LSM3	LSM3 homi protein_co	3	14178358	14201119	1	p25.1
ENSG00000215375	0.7898	1.7288	5.80E-05	0.0003	MYL5	myosin, ligl protein_co	4	673580	682033	1	p16.3
ENSG00000126106	0.7897	1.7287	1.57E-09	2.54E-08	TMEM53	transmemt protein_co	1	44635238	44674555	-1	p34.1
ENSG00000121022	0.7896	1.7286	3.59E-12	1.07E-10	COP55	COP9 signa protein_co	8	67043079	67083783	-1	q13.1
ENSG00000174628	0.7896	1.7286	0.0066	0.0212	IQCK	IQ motif co protein_co	16	19716456	19858467	1	p12.3
ENSG00000164687	0.7894	1.7284	0.0143	0.041	FABP5	fatty acid b protein_co	8	81280363	81284777	1	q21.13
ENSG00000116711	0.7891	1.728	6.14E-08	7.06E-07	PLA2G4A	phospholip protein_co	1	1.87E+08	1.87E+08	1	q31.1
ENSG00000119640	0.7891	1.728	0.0164	0.0459	ACYP1	acylphosph protein_co	14	75053221	75069483	-1	q24.3
ENSG00000148459	0.789	1.7279	0.0012	0.0048	PDSS1	prenyl (dec protein_co	10	26697659	26746798	1	p12.1
ENSG00000165181	0.789	1.7279	0.0042	0.0145	C9orf84	chromoson protein_co	9	1.12E+08	1.12E+08	-1	q31.3
ENSG00000135245	0.7888	1.7277	0.004	0.0139	HILPDA	hypoxia inc protein_co	7	1.28E+08	1.28E+08	1	q32.1
ENSG00000136518	0.7877	1.7263	3.65E-10	6.93E-09	ACTL6A	actin-like 6 protein_co	3	1.8E+08	1.8E+08	1	q26.33
ENSG00000116209	0.7873	1.7258	3.22E-12	9.72E-11	TMEM59	transmemt protein_co	1	54031663	54053504	-1	p32.3
ENSG00000175183	0.7873	1.7258	0.0005	0.0023	CSRP2	cysteine an protein_co	12	76858715	76879060	-1	q21.2
ENSG00000106367	0.7871	1.7256	4.37E-11	1.01E-09	AP1S1	adaptor-re protein_co	7	1.01E+08	1.01E+08	1	q22.1
ENSG00000136045	0.7865	1.7249	2.21E-12	6.93E-11	PWP1	PWP1 hom protein_co	12	1.08E+08	1.08E+08	1	q23.3

ENSG00000143486	0.786	1.7243	5.22E-07	4.84E-06	EIF2D	eukaryotic protein_co	1	2.07E+08	2.07E+08	-1	q32.1
ENSG00000124570	0.7859	1.7242	9.29E-12	2.49E-10	SERPINB6	serpin pep1protein_co	6	2948159	2972165	-1	p25.2
ENSG00000137274	0.786	1.7242	3.19E-07	3.10E-06	BPHL	biphenyl h1protein_co	6	3118374	3153578	1	p25.2
ENSG00000100129	0.785	1.7231	2.25E-05	0.0001	EIF3L	eukaryotic protein_co	22	37848868	37889407	1	q13.1
ENSG00000100749	0.7846	1.7226	0.0002	0.0008	VRK1	vaccinia relprotein_co	14	96797304	96931722	1	q32.2
ENSG00000120708	0.7842	1.7221	0.0001	0.0006	TGFBI	transformii protein_co	5	1.36E+08	1.36E+08	1	q31.1
ENSG00000148303	0.7841	1.722	5.11E-08	5.98E-07	RPL7A	ribosomal 1 protein_co	9	1.33E+08	1.33E+08	1	q34.2
ENSG00000147224	0.7839	1.7217	3.53E-07	3.40E-06	PRPS1	phosphorik protein_co X		1.08E+08	1.08E+08	1	q22.3
ENSG00000129518	0.7835	1.7213	6.49E-10	1.16E-08	EAPP	E2F-associ protein_co	14	34515929	34539711	-1	q13.1
ENSG00000105254	0.7834	1.7211	1.05E-17	1.25E-15	TBCB	tubulin folc protein_co	19	36114289	36125947	1	q13.12
ENSG00000117450	0.7829	1.7206	2.05E-05	0.0001	PRDX1	peroxiredo protein_co	1	45511036	45523047	-1	p34.1
ENSG00000139737	0.7828	1.7205	0.0135	0.039	SLAIN1	SLAIN moti protein_co	13	77697854	77764242	1	q22.3
ENSG00000264230	0.7826	1.7202	1.62E-08	2.12E-07	ANXA8L1	annexin A8 protein_co	10	46375627	46537864	1	q11.22
ENSG00000149273	0.7817	1.7192	1.57E-05	0.0001	RPS3	ribosomal 1 protein_co	11	75399486	75422280	1	q13.4
ENSG00000225648	0.7814	1.7188	9.35E-05	0.0005	SBDSP1	Shwachma transcribec	7	72829425	72836701	1	q11.23
ENSG00000148346	0.7812	1.7186	0.0036	0.0126	LCN2	lipocalin 2 protein_co	9	1.28E+08	1.28E+08	1	q34.11
ENSG00000198034	0.781	1.7184	9.97E-05	0.0005	RPS4X	ribosomal 1 protein_co X		72255679	72277300	-1	q13.1
ENSG00000228265	0.7797	1.7167	0.0158	0.0445	RALY-AS1	RALY antisclincRNA	20	33983052	33994357	-1	q11.22
ENSG00000070785	0.7795	1.7165	8.12E-12	2.22E-10	EIF2B3	eukaryotic protein_co	1	44850522	44986722	-1	p34.1
ENSG00000171453	0.7786	1.7154	1.50E-06	1.25E-05	POLR1C	polymeras protein_co	6	43509702	43529585	1	p21.1
ENSG00000107175	0.7785	1.7153	1.26E-26	1.46E-23	CREB3	cAMP resp protein_co	9	35732320	35737007	1	p13.3
ENSG00000100865	0.7784	1.7153	2.15E-12	6.73E-11	CINP	cyclin-depe protein_co	14	1.02E+08	1.02E+08	-1	q32.31
ENSG00000066379	0.7783	1.7151	4.62E-08	5.48E-07	ZNRD1	zinc ribbon protein_co	6	30058899	30064909	1	p22.1
ENSG00000165591	0.7777	1.7145	1.14E-06	9.76E-06	FAAH2	fatty acid a protein_co X		57286706	57489196	1	p11.21
ENSG00000196531	0.7774	1.7141	3.01E-06	2.34E-05	NACA	nascent po protein_co	12	56712428	56731628	-1	q13.3
ENSG00000171960	0.7771	1.7137	6.36E-07	5.78E-06	PPIH	peptidylprc protein_co	1	42658425	42676758	1	p34.2
ENSG00000133678	0.777	1.7135	0.0012	0.005	TMEM254	transmemt protein_co	10	80078646	80092557	1	q22.3
ENSG00000213025	0.7769	1.7135	0.0033	0.0116	COX20P1	COX20 cytc processed_	10	68632371	68632727	1	q21.3
ENSG00000180376	0.7767	1.7133	0.0003	0.0013	CCDC66	coiled-coil protein_co	3	56557161	56621818	1	p14.3
ENSG00000135624	0.7765	1.713	1.05E-10	2.25E-09	CCT7	chaperonir protein_co	2	73233420	73253021	1	p13.2
ENSG00000214174	0.7764	1.7129	0.0008	0.0034	AMZ2P1	archaelysin transcribec	17	64966550	64975576	-1	q24.1
ENSG00000115828	0.7762	1.7126	0.0107	0.0321	QPCT	glutaminy- protein_co	2	37344574	37373322	1	p22.2
ENSG00000145982	0.7761	1.7125	4.98E-06	3.70E-05	FARS2	phenylalan protein_co	6	5261044	5771580	1	p25.1
ENSG00000152082	0.7758	1.7122	1.39E-07	1.47E-06	MZT2B	mitotic spir protein_co	2	1.3E+08	1.3E+08	1	q21.1
ENSG00000186272	0.7758	1.7122	1.48E-07	1.56E-06	ZNF17	zinc finger protein_co	19	57411163	57421939	1	q13.43
ENSG00000113578	0.7756	1.7119	0.0154	0.0436	FGF1	fibroblast g protein_co	5	1.43E+08	1.43E+08	-1	q31.3
ENSG00000141552	0.7751	1.7113	6.95E-09	1.00E-07	ANAPC11	anaphase r protein_co	17	81890790	81900991	1	q25.3

ENSG00000204438	0.7746	1.7108	1.03E-06	8.97E-06	GPANK1	G patch do protein_co	6	31661229	31666283	-1	p21.33
ENSG00000091483	0.7741	1.7101	1.66E-08	2.16E-07	FH	fumarate h protein_co	1	2.41E+08	2.42E+08	-1	q43
ENSG00000171291	0.774	1.71	8.40E-05	0.0005	ZNF439	zinc finger protein_co	19	11848726	11883750	1	p13.2
ENSG00000197238	0.7735	1.7094	0.0059	0.0191	HIST1H4J	histone clu protein_co	6	27824108	27824480	1	p22.1
ENSG00000197933	0.7734	1.7093	5.80E-07	5.33E-06	ZNF823	zinc finger protein_co	19	11721265	11739009	-1	p13.2
ENSG00000117305	0.7732	1.7091	3.87E-13	1.47E-11	HMGCL	3-hydroxyr protein_co	1	23801885	23838620	-1	p36.11
ENSG00000100316	0.7729	1.7087	1.55E-06	1.29E-05	RPL3	ribosomal l protein_co	22	39312882	39320389	-1	q13.1
ENSG00000168002	0.7728	1.7086	1.52E-12	5.02E-11	POLR2G	polymerase protein_co	11	62761544	62766710	1	q12.3
ENSG00000143158	0.7728	1.7086	8.42E-12	2.29E-10	MPC2	mitochond protein_co	1	1.68E+08	1.68E+08	-1	q24.2
ENSG00000088970	0.7712	1.7067	8.09E-10	1.41E-08	KIZ	kizuna cent protein_co	20	21125983	21246622	1	p11.23
ENSG00000198189	0.7712	1.7066	1.42E-06	1.19E-05	HSD17B11	hydroxyste protein_co	4	87336610	87391386	-1	q22.1
ENSG00000198356	0.771	1.7064	1.84E-20	4.41E-18	ASNA1	arsA arseni protein_co	19	12737139	12748323	1	p13.13
ENSG00000182774	0.7709	1.7064	8.53E-05	0.0005	RPS17	ribosomal l protein_co	15	82536753	82540564	-1	q25.2
ENSG00000163444	0.7706	1.706	3.53E-09	5.35E-08	TMEM183A	transmemk protein_co	1	2.03E+08	2.03E+08	1	q32.1
ENSG00000150459	0.7705	1.7059	4.89E-11	1.12E-09	SAP18	Sin3A-asso protein_co	13	21140514	21149084	1	q12.11
ENSG00000065675	0.7703	1.7057	0.0117	0.0344	PRKCQ	protein kin protein_co	10	6427143	6580301	-1	p15.1
ENSG00000168032	0.7703	1.7056	9.22E-08	1.02E-06	ENTPD3	ectonucleo protein_co	3	40387156	40428619	1	p22.1
ENSG00000176731	0.7703	1.7056	3.88E-06	2.94E-05	C8orf59	chromosom protein_co	8	85214076	85220421	-1	q21.2
ENSG00000110619	0.7696	1.7048	2.74E-07	2.70E-06	CARS	cysteinyl-tf protein_co	11	3000922	3057613	-1	p15.4
ENSG00000110172	0.7695	1.7047	1.20E-05	8.22E-05	CHORDC1	cysteine an protein_co	11	90201160	90223364	-1	q14.3
ENSG00000111906	0.7692	1.7044	1.64E-06	1.36E-05	HDDC2	HD domain protein_co	6	1.25E+08	1.25E+08	-1	q22.31
ENSG00000187608	0.769	1.7041	0.0087	0.0269	ISG15	ISG15 ubiq protein_co	1	1001138	1014541	1	p36.33
ENSG00000176261	0.7689	1.7039	5.47E-08	6.34E-07	ZBTB8OS	zinc finger protein_co	1	32600172	32650903	-1	p35.1
ENSG00000177337	0.7687	1.7037	0.0002	0.0009	DLGAP1-AS1	DLGAP1 an antisense	18	3593732	3598352	1	p11.31
ENSG00000123562	0.7685	1.7035	7.31E-10	1.28E-08	MORF4L2	mortality f; protein_co X		1.04E+08	1.04E+08	-1	q22.2
ENSG00000171155	0.7685	1.7035	1.76E-08	2.28E-07	C1GALT1C1	C1GALT1-s; protein_co X		1.21E+08	1.21E+08	-1	q24
ENSG00000278845	0.7682	1.7032	1.77E-08	2.28E-07	MRPL45	mitochond protein_co	17	38297023	38323218	1	q12
ENSG00000203705	0.7678	1.7027	3.75E-07	3.59E-06	TATDN3	TatD DNas; protein_co	1	2.13E+08	2.13E+08	1	q32.3
ENSG00000131931	0.7674	1.7022	6.98E-06	5.05E-05	THAP1	THAP dom; protein_co	8	42836674	42843325	-1	p11.21
ENSG00000172366	0.7671	1.7018	0.0004	0.0019	FAM195A	family with protein_co	16	636817	648474	1	p13.3
ENSG00000132329	0.7667	1.7014	0.0002	0.0012	RAMP1	receptor (C protein_co	2	2.38E+08	2.38E+08	1	q37.3
ENSG00000089289	0.7665	1.7011	9.38E-06	6.60E-05	IGBP1	immunogl; protein_co X		70133449	70166324	1	q13.1
ENSG00000214026	0.7664	1.7011	0.0006	0.0025	MRPL23	mitochond protein_co	11	1947278	1984522	1	p15.5
ENSG00000173171	0.7664	1.701	2.46E-09	3.84E-08	MTX1	metaxin 1 l; protein_co	1	1.55E+08	1.55E+08	1	q22
ENSG00000204920	0.7664	1.701	1.09E-08	1.49E-07	ZNF155	zinc finger protein_co	19	43967862	43998325	1	q13.31
ENSG00000173465	0.7661	1.7007	2.26E-09	3.55E-08	SSSCA1	Sjogren syr protein_co	11	65570430	65573942	1	q13.1
ENSG00000108953	0.766	1.7005	8.32E-10	1.44E-08	YWHAE	tyrosine 3-l; protein_co	17	1344272	1400378	-1	p13.3



ENSG00000139684	0.7656	1.7001	3.46E-12	1.04E-10	ESD	esterase D protein_co	13	46771256	46797232	-1	q14.2
ENSG00000146376	0.7652	1.6996	0.0067	0.0213	ARHGAP18	Rho GTPase protein_co	6	1.3E+08	1.3E+08	-1	q22.33
ENSG00000136098	0.765	1.6994	0.0025	0.0091	NEK3	NIMA-relat protein_co	13	52132639	52159861	-1	q14.3
ENSG00000101247	0.7646	1.6988	4.35E-08	5.21E-07	NDUFAF5	NADH dehyd protein_co	20	13784950	13821582	1	p12.1
ENSG00000071282	0.7642	1.6985	0.0096	0.0292	LMCD1	LIM and cy protein_co	3	8501707	8568125	1	p25.3
ENSG00000159199	0.7642	1.6984	2.90E-08	3.59E-07	ATP5G1	ATP synthase protein_co	17	48892765	48895871	1	q21.32
ENSG00000136514	0.7637	1.6979	1.71E-06	1.40E-05	RTP4	receptor (c protein_co	3	1.87E+08	1.87E+08	1	q27.3
ENSG00000243554	0.7634	1.6975	0.0072	0.0229	AC004967.7	unprocess	7	97969005	97972254	-1	q21.3
ENSG00000069509	0.7629	1.6969	2.86E-10	5.59E-09	FUNDC1	FUN14 domain protein_co X	44523639	44543001		-1	p11.3
ENSG00000156587	0.7628	1.6968	4.81E-16	3.65E-14	UBE2L6	ubiquitin-c protein_co	11	57551656	57568284	-1	q12.1
ENSG00000165072	0.7628	1.6968	0.017	0.0472	MAMDC2	MAM domain protein_co	9	70043581	70226970	1	q21.12
ENSG00000069329	0.7626	1.6966	3.24E-15	2.01E-13	VPS35	vacuolar protein_co	16	46656132	46689518	-1	q11.2
ENSG00000198939	0.7627	1.6966	0.0083	0.0258	ZFP2	ZFP2 zinc finger protein_co	5	1.79E+08	1.79E+08	1	q35.3
ENSG00000131981	0.7626	1.6965	0.0002	0.0011	LGALS3	lectin, galactose protein_co	14	55124110	55145413	1	q22.3
ENSG00000158710	0.7623	1.6962	2.24E-06	1.78E-05	TAGLN2	transgelin 2 protein_co	1	1.6E+08	1.6E+08	-1	q23.2
ENSG00000085871	0.7623	1.6962	3.94E-05	0.0002	MGST2	microsomal protein_co	4	1.4E+08	1.4E+08	1	q31.1
ENSG00000234171	0.7622	1.6961	0.0001	0.0007	RNASEH1-AS1	RNASEH1 antisense	2	3558492	3561745	1	p25.3
ENSG00000197647	0.7621	1.696	1.70E-07	1.77E-06	ZNF433	zinc finger protein_co	19	12014732	12035741	-1	p13.2
ENSG00000142937	0.7622	1.696	0.0003	0.0013	RPS8	ribosomal protein_co	1	44775251	44778779	1	p34.1
ENSG00000256060	0.7615	1.6953	1.35E-05	9.10E-05	TRAPPC2B	trafficking protein_co	19	57363511	57365353	1	q13.43
ENSG00000213619	0.7615	1.6952	5.56E-07	5.13E-06	NDUFS3	NADH dehyd protein_co	11	47565336	47584562	1	p11.2
ENSG00000100804	0.7611	1.6947	1.20E-15	8.20E-14	PSMB5	proteasome protein_co	14	23016543	23035230	-1	q11.2
ENSG00000172456	0.7602	1.6938	0.0003	0.0015	FGGY	FGGY carbonyl protein_co	1	59296638	59767675	1	p32.1
ENSG00000166199	0.7598	1.6933	4.57E-12	1.32E-10	ALKBH3	alkB, alkylase protein_co	11	43880811	43920266	1	p11.2
ENSG00000214941	0.7596	1.693	2.04E-12	6.46E-11	ZSWIM7	zinc finger, protein_co	17	15976560	15999717	-1	p12
ENSG00000089356	0.7596	1.693	0.0012	0.0049	FXVD3	FXVD domain protein_co	19	35115879	35124324	1	q13.12
ENSG00000162384	0.7586	1.6918	1.51E-09	2.45E-08	C1orf123	chromosome protein_co	1	53214099	53220617	-1	p32.3
ENSG00000181264	0.7583	1.6914	0.0006	0.0026	TMEM136	transmembrane protein_co	11	1.2E+08	1.2E+08	1	q23.3
ENSG00000228037	0.758	1.6911	0.0062	0.0202	RP3-395M20.9	antisense	1	2581560	2584533	1	p36.32
ENSG00000164934	0.7569	1.6898	1.01E-12	3.50E-11	DCAF13	DDB1 and C protein_co	8	1.03E+08	1.03E+08	1	q22.3
ENSG00000151332	0.7563	1.6892	1.36E-06	1.15E-05	MBIP	MAP3K12 like protein_co	14	36298558	36320676	-1	q13.3
ENSG00000197696	0.7562	1.6891	0.0022	0.0082	NMB	neuromedin protein_co	15	84655129	84658563	-1	q25.2
ENSG00000113387	0.7558	1.6885	1.21E-08	1.62E-07	SUB1	SUB1 homolog protein_co	5	32531633	32604079	1	p13.3
ENSG00000167088	0.7557	1.6884	3.18E-09	4.85E-08	SNRPD1	small nuclear protein_co	18	21612267	21630456	1	q11.2
ENSG00000172062	0.7554	1.6881	4.00E-05	0.0002	SMN1	survival of motor neuron protein_co	5	70925030	70953942	1	q13.2
ENSG00000106153	0.755	1.6877	2.02E-11	5.06E-10	CHCHD2	coiled-coil protein_co	7	56101569	56106576	-1	p11.2
ENSG00000231991	0.755	1.6876	8.75E-08	9.73E-07	ANXA2P2	annexin A2 processed	9	33624274	33625293	1	p13.3

ENSG00000184220	0.755	1.6876	5.06E-07	4.70E-06	CMSS1	cms1 ribos protein_co	3	99817834	1E+08	1	q12.1
ENSG00000241837	0.755	1.6876	2.51E-05	0.0002	ATP5O	ATP syntha protein_co	21	33903453	33915980	-1	q22.11
ENSG00000174748	0.7547	1.6873	1.97E-06	1.59E-05	RPL15	ribosomal j protein_co	3	23916545	23923692	1	p24.2
ENSG00000134716	0.7547	1.6873	0.0067	0.0214	CYP2J2	cytochrom protein_co	1	59893308	59926790	-1	p32.1
ENSG00000197448	0.7547	1.6872	8.25E-08	9.23E-07	GSTK1	glutathione protein_co	7	1.43E+08	1.43E+08	1	q34
ENSG00000137288	0.7536	1.6859	2.97E-06	2.31E-05	UQCC2	ubiquinol-c protein_co	6	33694293	33711727	-1	p21.31
ENSG00000083535	0.7534	1.6857	0.0003	0.0016	PIBF1	progesterone protein_co	13	72782059	73016461	1	q21.33
ENSG00000082515	0.7532	1.6855	1.64E-08	2.14E-07	MRPL22	mitochond protein_co	5	1.55E+08	1.55E+08	1	q33.2
ENSG00000196812	0.7529	1.6852	0.0009	0.0038	ZSCAN16	zinc finger protein_co	6	28124560	28130082	1	p22.1
ENSG00000205763	0.7528	1.6851	0.0152	0.0431	RP9P	retinitis pig transcribec	7	32916815	32943176	-1	p14.3
ENSG00000163466	0.7524	1.6846	1.37E-12	4.59E-11	ARPC2	actin relate protein_co	2	2.18E+08	2.18E+08	1	q35
ENSG00000043514	0.7523	1.6845	0.0007	0.0029	TRIT1	tRNA isope protein_co	1	39841022	39883511	-1	p34.2
ENSG00000179967	0.7517	1.6838	0.0005	0.0021	PPP1R14BP3	protein phr processed_	4	1.39E+08	1.39E+08	-1	q31.1
ENSG00000130775	0.7513	1.6833	0.0167	0.0465	THEMIS2	thymocyte protein_co	1	27872543	27886685	1	p35.3
ENSG00000100116	0.7511	1.6831	3.19E-06	2.46E-05	GCAT	glycine C-a protein_co	22	37807905	37817176	1	q13.1
ENSG00000112208	0.7508	1.6827	0.0006	0.0027	BAG2	BCL2-assoc protein_co	6	57172326	57189833	1	p12.1
ENSG00000144452	0.7506	1.6825	0.0025	0.0093	ABCA12	ATP-bindin protein_co	2	2.15E+08	2.15E+08	-1	q35
ENSG00000141933	0.7503	1.6822	1.79E-05	0.0001	TPGS1	tubulin pol protein_co	19	507299	519654	1	p13.3
ENSG00000156256	0.7499	1.6816	2.56E-11	6.22E-10	USP16	ubiquitin sj protein_co	21	29024629	29054488	1	q21.3
ENSG00000110700	0.7498	1.6816	6.24E-05	0.0004	RPS13	ribosomal j protein_co	11	17074389	17077787	-1	p15.1
ENSG00000197798	0.7495	1.6813	6.95E-13	2.48E-11	FAM118B	family with protein_co	11	1.26E+08	1.26E+08	1	q24.2
ENSG00000196419	0.7495	1.6812	2.34E-11	5.76E-10	XRCC6	X-ray repai protein_co	22	41621119	41664048	1	q13.2
ENSG00000115539	0.7493	1.681	3.22E-11	7.70E-10	PDCL3	phosducin- protein_co	2	1.01E+08	1.01E+08	1	q11.2
ENSG00000256269	0.7488	1.6804	2.16E-07	2.19E-06	HMBS	hydroxyme protein_co	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000130520	0.7485	1.68	1.39E-07	1.47E-06	LSM4	LSM4 homi protein_co	19	18306230	18323274	-1	p13.11
ENSG00000128606	0.7485	1.68	0.0098	0.0297	LRRC17	leucine rich protein_co	7	1.03E+08	1.03E+08	1	q22.1
ENSG00000198727	0.7484	1.6799	3.49E-14	1.71E-12	MT-CYB	mitochond protein_co MT		14747	15887	1	
ENSG00000115919	0.7484	1.6799	1.59E-05	0.0001	KYNU	kynurenina protein_co	2	1.43E+08	1.43E+08	1	q22.2
ENSG00000265190	0.7481	1.6796	1.56E-08	2.05E-07	ANXA8	annexin A8 protein_co	10	47460162	47484158	-1	q11.22
ENSG00000198551	0.7475	1.6789	3.54E-09	5.36E-08	ZNF627	zinc finger protein_co	19	11559374	11619135	1	p13.2
ENSG00000119718	0.7474	1.6787	1.30E-17	1.47E-15	EIF2B2	eukaryotic protein_co	14	75002911	75012366	1	q24.3
ENSG00000128626	0.7472	1.6785	6.38E-08	7.31E-07	MRPS12	mitochond protein_co	19	38930548	38933162	1	q13.2
ENSG00000134330	0.7464	1.6776	1.03E-09	1.75E-08	IAH1	isoamyl acc protein_co	2	9473658	9496543	1	p25.1
ENSG00000140365	0.7464	1.6776	8.50E-08	9.46E-07	COMMD4	COMM dor protein_co	15	75335891	75343224	1	q24.2
ENSG00000188092	0.7464	1.6776	0.0004	0.002	GPR89B	G protein-c protein_co	1	1.48E+08	1.48E+08	1	q21.2
ENSG00000259781	0.7461	1.6773	3.87E-05	0.0002	RP11-673C5.1	processed_	15	71164770	71165415	-1	q23
ENSG00000047621	0.746	1.6771	1.37E-11	3.52E-10	C12orf4	chromoson protein_co	12	4487728	4538508	-1	p13.32

ENSG00000081181	0.7456	1.6767	0.0008	0.0036 ARG2	arginase 2 protein_co	14	67619798	67651720	1	q24.1
ENSG00000131355	0.7454	1.6765	0.0146	0.0415 EMR3	egf-like mo protein_co	19	14619117	14690027	-1	p13.12
ENSG00000006757	0.7452	1.6762	1.94E-05	0.0001 PNPLA4	patatin-like protein_co X		7898247	7927739	-1	p22.31
ENSG00000231389	0.7451	1.6761	1.07E-05	7.43E-05 HLA-DPA1	major histc protein_co	6	33064569	33080775	-1	p21.32
ENSG00000181392	0.745	1.676	3.45E-07	3.33E-06 SYNE4	spectrin re protein_co	19	36003307	36008793	-1	q13.12
ENSG00000111843	0.7447	1.6756	2.57E-11	6.25E-10 TMEM14C	transmemt protein_co	6	10722915	10731129	1	p24.2
ENSG00000106355	0.7442	1.6751	1.41E-05	9.46E-05 LSM5	LSM5 homi protein_co	7	32485332	32495283	-1	p14.3
ENSG00000128463	0.7441	1.6749	5.14E-13	1.88E-11 EMC4	ER membr protein_co	15	34224999	34230156	1	q14
ENSG00000177954	0.7439	1.6748	0.0021	0.0079 RPS27	ribosomal j protein_co	1	1.54E+08	1.54E+08	1	q21.3
ENSG00000140319	0.7435	1.6743	3.57E-19	5.99E-17 SRP14	signal reco protein_co	15	40035739	40039188	-1	q15.1
ENSG00000136247	0.7435	1.6742	1.92E-07	1.97E-06 ZDHHC4	zinc finger, protein_co	7	6577434	6589374	1	p22.1
ENSG00000086061	0.7434	1.6741	3.27E-12	9.87E-11 DNAJA1	DnaJ (Hsp4 protein_co	9	33025211	33039907	1	p21.1
ENSG00000133641	0.7434	1.6741	8.82E-08	9.79E-07 C12orf29	chromoson protein_co	12	88033846	88050160	1	q21.32
ENSG00000159079	0.7432	1.6738	0.0134	0.0387 C21orf59	chromoson protein_co	21	32592079	32612866	-1	q22.11
ENSG00000181929	0.7429	1.6736	1.64E-11	4.13E-10 PRKAG1	protein kin protein_co	12	49002274	49019197	-1	q13.12
ENSG00000166562	0.7429	1.6735	2.51E-06	1.98E-05 SEC11C	SEC11 hom protein_co	18	59139477	59158836	1	q21.32
ENSG00000158234	0.7429	1.6735	0.0001	0.0006 FAIM	Fas apopto protein_co	3	1.39E+08	1.39E+08	1	q22.3
ENSG00000143256	0.7427	1.6734	4.48E-13	1.67E-11 PFDN2	prefoldin si protein_co	1	1.61E+08	1.61E+08	-1	q23.3
ENSG00000132341	0.7425	1.6731	9.57E-16	6.79E-14 RAN	RAN, memi protein_co	12	1.31E+08	1.31E+08	1	q24.33
ENSG00000166394	0.7424	1.673	3.76E-07	3.60E-06 CYB5R2	cytochrom protein_co	11	7665100	7677222	-1	p15.4
ENSG00000237973	0.7421	1.6726	9.33E-08	1.03E-06 MIR6723	microRNA unprocess	1	631074	632616	1	p36.33
ENSG00000276345	0.7421	1.6726	0.0011	0.0046 MRPL23	mitochond protein_co	KI270721.1	2585	11802	1	
ENSG00000113851	0.7418	1.6723	1.45E-10	3.02E-09 CRBN	cereblon [S protein_co	3	3148992	3179710	-1	p26.2
ENSG00000123416	0.7403	1.6705	8.37E-10	1.45E-08 TUBA1B	tubulin, alç protein_co	12	49127782	49131397	-1	q13.12
ENSG00000189042	0.7401	1.6703	1.98E-06	1.60E-05 ZNF567	zinc finger protein_co	19	36687612	36727701	1	q13.12
ENSG00000137842	0.74	1.6702	1.10E-09	1.86E-08 TMEM62	transmemt protein_co	15	43123279	43185146	1	q15.2
ENSG00000120526	0.74	1.6702	1.69E-07	1.76E-06 NUDCD1	NudC domi protein_co	8	1.09E+08	1.09E+08	-1	q23.1
ENSG00000136682	0.7396	1.6697	1.80E-09	2.88E-08 CBWD2	COBW don protein_co	2	1.13E+08	1.13E+08	1	q14.1
ENSG00000198185	0.7394	1.6695	0.0012	0.005 ZNF334	zinc finger protein_co	20	46499630	46513559	-1	q13.12
ENSG00000118508	0.7391	1.6692	0.0115	0.034 RAB32	RAB32, me protein_co	6	1.47E+08	1.47E+08	1	q24.3
ENSG00000170889	0.7389	1.6689	0.0002	0.0009 RPS9	ribosomal j protein_co	19	54200742	54249003	1	q13.42
ENSG00000241316	0.7389	1.6689	0.0065	0.021 SUCLG2-AS1	SUCLG2 an lincRNA	3	67654697	67947713	1	p14.1
ENSG00000178381	0.7386	1.6686	1.50E-08	1.98E-07 ZFAND2A	zinc finger, protein_co	7	1152071	1160759	-1	p22.3
ENSG00000225950	0.7384	1.6683	0.0041	0.0141 NTF4	neurotrof protein_co	19	49055793	49065076	-1	q13.33
ENSG00000162645	0.7381	1.668	6.90E-10	1.22E-08 GBP2	guanylate t protein_co	1	89106132	89150456	-1	p22.2
ENSG00000223813	0.738	1.6679	0.0111	0.033 AC007255.8	antisense	7	29514225	29563670	-1	p14.3
ENSG00000101928	0.7378	1.6676	3.98E-06	3.02E-05 MOSPD1	motile spei protein_co X		1.35E+08	1.35E+08	-1	q26.3

ENSG00000160055	0.7377	1.6676	8.90E-05	0.0005 TMEM234	transmembr protein_co	1	32214472	32222359	-1	p35.2
ENSG00000170430	0.7376	1.6674	1.48E-05	9.87E-05 MGMT	O-6-methy protein_co	10	1.29E+08	1.3E+08	1	q26.3
ENSG00000100372	0.7375	1.6673	1.34E-09	2.21E-08 SLC25A17	solute carri protein_co	22	40769630	40819399	-1	q13.2
ENSG00000155465	0.7371	1.6669	0.0037	0.0128 SLC7A7	solute carri protein_co	14	22773222	22829820	-1	q11.2
ENSG00000213614	0.7368	1.6664	1.08E-11	2.86E-10 HEXA	hexosamin protein_co	15	72340919	72376476	-1	q23
ENSG00000184319	0.7363	1.6659	1.79E-05	0.0001 RPL23AP82	ribosomal l transcribec	22	50756948	50801309	1	q13.33
ENSG00000136932	0.7362	1.6658	1.79E-06	1.46E-05 C9orf156	chromosom protein_co	9	97904489	97922570	-1	q22.33
ENSG00000149262	0.736	1.6655	4.14E-07	3.92E-06 INTS4	integrator r protein_co	11	77878720	77994678	-1	q14.1
ENSG00000114388	0.7355	1.665	1.29E-09	2.14E-08 NPRL2	nitrogen pr protein_co	3	50347330	50351091	-1	p21.31
ENSG00000153774	0.7355	1.665	9.58E-06	6.72E-05 CFDP1	craniofacia protein_co	16	75293698	75433485	-1	q23.1
ENSG00000198804	0.7353	1.6647	3.00E-13	1.17E-11 MT-CO1	mitochond protein_co MT		5904	7445	1	
ENSG00000163541	0.7349	1.6643	4.33E-09	6.44E-08 SUCLG1	succinate-C protein_co	2	84423523	84460045	-1	p11.2
ENSG00000103876	0.7349	1.6642	5.05E-10	9.24E-09 FAH	fumarylce protein_co	15	80152490	80186946	1	q25.1
ENSG00000184669	0.7346	1.6639	0.0062	0.0201 OR7E14P	olfactory r transcribec	11	17013998	17053024	1	p15.1
ENSG00000042317	0.7345	1.6638	0.0027	0.01 SPATA7	spermatog protein_co	14	88384924	88470350	1	q31.3
ENSG00000132676	0.7342	1.6634	3.11E-12	9.41E-11 DAP3	death asso protein_co	1	1.56E+08	1.56E+08	1	q22
ENSG00000156171	0.734	1.6633	1.46E-07	1.55E-06 DRAM2	DNA-dama protein_co	1	1.11E+08	1.11E+08	-1	p13.3
ENSG00000174720	0.7338	1.663	6.06E-09	8.81E-08 LARP7	La ribonucl protein_co	4	1.13E+08	1.13E+08	1	q25
ENSG00000183513	0.7334	1.6626	8.03E-09	1.14E-07 COA5	cytochrom protein_co	2	98599310	98608515	-1	q11.2
ENSG00000126067	0.7333	1.6625	6.14E-20	1.23E-17 PSMB2	proteasom protein_co	1	35599544	35641844	-1	p34.3
ENSG00000247271	0.7325	1.6615	0.0078	0.0244 ZBED5-AS1	ZBED5 anti antisense	11	10858259	10906802	1	p15.4
ENSG00000102390	0.7317	1.6606	1.83E-09	2.92E-08 PBDC1	polysaccha protein_co X		76172936	76178204	1	q13.3
ENSG00000171295	0.7316	1.6605	0.0121	0.0356 ZNF440	zinc finger protein_co	19	11814284	11835201	1	p13.2
ENSG00000137876	0.7314	1.6603	2.57E-06	2.02E-05 RSL24D1	ribosomal l protein_co	15	55180806	55197067	-1	q21.3
ENSG00000185880	0.7311	1.6599	1.53E-12	5.04E-11 TRIM69	tripartite r protein_co	15	44728988	44767829	1	q21.1
ENSG00000114686	0.7308	1.6595	1.78E-09	2.85E-08 MRPL3	mitochond protein_co	3	1.31E+08	1.32E+08	-1	q22.1
ENSG00000085274	0.7301	1.6588	3.34E-07	3.24E-06 MYNN	myoneurin protein_co	3	1.7E+08	1.7E+08	1	q26.2
ENSG00000102243	0.7294	1.658	0.0008	0.0033 VGLL1	vestigial-lik protein_co X		1.37E+08	1.37E+08	1	q26.3
ENSG00000174744	0.7289	1.6574	2.77E-17	2.93E-15 BRMS1	breast canc protein_co	11	66337333	66345125	-1	q13.2
ENSG00000162994	0.7284	1.6568	0.0151	0.0427 CLHC1	clathrin he protein_co	2	55174791	55232563	-1	p16.1
ENSG00000117228	0.7279	1.6562	1.54E-06	1.28E-05 GBP1	guanylate l protein_co	1	89052319	89065360	-1	p22.2
ENSG00000243829	0.7276	1.6559	0.0009	0.0038 CTB-33G10.1	processed_	19	49719498	49720081	-1	q13.33
ENSG00000251580	0.7276	1.6558	0.0092	0.028 RP11-539L10.3	lincRNA	4	6670725	6673830	-1	p16.1
ENSG00000132254	0.7273	1.6556	4.91E-08	5.77E-07 ARFIP2	ADP-ribosy protein_co	11	6474683	6481479	-1	p15.4
ENSG00000269834	0.7273	1.6556	0.0021	0.0078 ZNF528-AS1	ZNF528 an processed_	19	52388842	52397766	-1	q13.41
ENSG00000074319	0.7273	1.6555	8.49E-13	2.99E-11 TSG101	tumor susc protein_co	11	18468336	18527232	-1	p15.1
ENSG00000156261	0.7268	1.6549	1.07E-12	3.71E-11 CCT8	chaperonir protein_co	21	29055805	29073797	-1	q21.3

ENSG00000027697	0.7265	1.6546	0.001	0.0042	IFNGR1	interferon ;protein_co	6	1.37E+08	1.37E+08	-1	q23.3
ENSG00000106052	0.7262	1.6543	1.00E-12	3.48E-11	TAX1BP1	Tax1 (hum;protein_co	7	27739331	27844564	1	p15.2
ENSG00000240065	0.7262	1.6543	1.82E-06	1.48E-05	PSMB9	proteasom protein_co	6	32844136	32859585	1	p21.32
ENSG00000130023	0.726	1.6541	3.92E-12	1.15E-10	ERMARD	ER membr;protein_co	6	1.7E+08	1.7E+08	1	q27
ENSG00000240602	0.7259	1.6539	0.0008	0.0035	AADACP1	arylaceta;transcribec	3	1.52E+08	1.52E+08	1	q25.1
ENSG00000130748	0.7256	1.6536	3.26E-06	2.51E-05	TMEM160	transmemk protein_co	19	47045907	47048630	-1	q13.32
ENSG00000239779	0.7249	1.6527	4.83E-05	0.0003	WBP1	WW domai;protein_co	2	74458329	74460891	1	p13.1
ENSG00000173660	0.7246	1.6524	3.71E-05	0.0002	UQCRH	ubiquinol-c;protein_co	1	46303631	46316776	1	p33
ENSG00000134248	0.7244	1.6522	9.28E-12	2.49E-10	LAMTOR5	late endosc;protein_co	1	1.1E+08	1.1E+08	-1	p13.3
ENSG00000113845	0.7243	1.6521	8.43E-15	4.80E-13	TIMMDC1	translocase;protein_co	3	1.19E+08	1.2E+08	1	q13.33
ENSG00000205534	0.7241	1.6519	0.0051	0.0168	SMG1P2	SMG1 pse;unprocesse	16	29527568	29594966	-1	p11.2
ENSG00000141030	0.724	1.6518	2.22E-22	1.00E-19	COP3	COP9 signa;protein_co	17	17246820	17281293	-1	p11.2
ENSG00000132432	0.724	1.6517	6.44E-07	5.84E-06	SEC61G	Sec61 gam;protein_co	7	54752250	54759974	-1	p11.2
ENSG00000031698	0.7235	1.6512	4.17E-16	3.26E-14	SARS	seryl-tRNA;protein_co	1	1.09E+08	1.09E+08	1	p13.3
ENSG00000197982	0.7235	1.6512	8.97E-09	1.25E-07	C1orf122	chromoson;protein_co	1	37806979	37809454	1	p34.3
ENSG00000182154	0.7232	1.6508	2.57E-07	2.55E-06	MRPL41	mitochond;protein_co	9	1.38E+08	1.38E+08	1	q34.3
ENSG00000187840	0.7225	1.6501	5.63E-07	5.18E-06	EIF4EBP1	eukaryotic;protein_co	8	38030341	38060365	1	p11.23
ENSG00000096872	0.7226	1.6501	0.0041	0.0139	IFT74	intraflagell;protein_co	9	26947039	27062930	1	p21.2
ENSG00000088726	0.722	1.6494	0.0067	0.0215	TMEM40	transmemk;protein_co	3	12733525	12769457	-1	p25.2
ENSG00000149600	0.7218	1.6492	9.06E-16	6.45E-14	COMMD7	COMM dor;protein_co	20	32702691	32743997	-1	q11.21
ENSG00000107949	0.7216	1.6491	1.25E-07	1.34E-06	BCCIP	BRCA2 and;protein_co	10	1.26E+08	1.26E+08	1	q26.2
ENSG00000161513	0.7217	1.6491	0.0168	0.0467	FDXR	ferredoxin;protein_co	17	74862497	74873031	-1	q25.1
ENSG00000164331	0.7211	1.6485	5.33E-10	9.68E-09	ANKRA2	ankyrin re;protein_co	5	73552335	73565686	-1	q13.2
ENSG00000073605	0.721	1.6484	7.73E-08	8.71E-07	GSDMB	gasdermin;protein_co	17	39904595	39919854	-1	q21.1
ENSG00000267508	0.7209	1.6482	1.13E-05	7.76E-05	ZNF285	zinc finger;protein_co	19	44382298	44401608	-1	q13.31
ENSG00000111653	0.7207	1.648	6.12E-08	7.04E-07	ING4	inhibitor of;protein_co	12	6650280	6663148	-1	p13.31
ENSG00000169689	0.7207	1.648	6.42E-06	4.68E-05	STRA13	stimulated;protein_co	17	82018702	82024107	-1	q25.3
ENSG00000023608	0.7207	1.6479	1.10E-07	1.20E-06	SNAPC1	small nucle;protein_co	14	61762357	61796428	1	q23.2
ENSG00000188372	0.7205	1.6478	0.0047	0.0157	ZP3	zona pelluc;protein_co	7	76397518	76442071	1	q11.23
ENSG00000132823	0.7202	1.6474	8.17E-08	9.16E-07	OSER1	oxidative s;protein_co	20	44196496	44210791	-1	q13.12
ENSG00000184979	0.72	1.6472	0.0044	0.0148	USP18	ubiquitin s;protein_co	22	18149899	18177397	1	q11.21
ENSG00000110002	0.7197	1.6468	1.23E-11	3.23E-10	VWA5A	von Willeb;protein_co	11	1.24E+08	1.24E+08	1	q24.2
ENSG00000259354	0.7195	1.6466	0.013	0.0378	RP11-519G16.3	antisense	15	45448427	45513767	1	q21.1
ENSG00000198840	0.7194	1.6465	3.12E-09	4.78E-08	MT-ND3	mitochond;protein_co MT		10059	10404	1	
ENSG00000170364	0.719	1.646	6.47E-10	1.16E-08	SETMAR	SET domai;protein_co	3	4303304	4317567	1	p26.1
ENSG00000143314	0.7189	1.6459	4.58E-09	6.78E-08	MRPL24	mitochond;protein_co	1	1.57E+08	1.57E+08	-1	q23.1
ENSG00000149089	0.7188	1.6458	3.49E-06	2.67E-05	APIP	APAF1 inte;protein_co	11	34853094	34916499	-1	p13



ENSG00000259494	0.7176	1.6445	1.01E-05	7.04E-05 MRPL46	mitochond protein_co	15	88459476	88467419	-1 q25.3
ENSG00000214413	0.7173	1.6441	0.0006	0.0028 BBIP1	BBSome in: protein_co	10	1.11E+08	1.11E+08	-1 q25.2
ENSG00000182004	0.7172	1.644	3.10E-07	3.02E-06 SNRPE	small nucle protein_co	1	2.04E+08	2.04E+08	1 q32.1
ENSG00000170855	0.7171	1.6438	6.53E-10	1.16E-08 TRIAP1	TP53 regul: protein_co	12	1.2E+08	1.2E+08	-1 q24.31
ENSG00000115129	0.717	1.6438	4.64E-07	4.35E-06 TP53I3	tumor prot protein_co	2	24077433	24085861	-1 p23.3
ENSG00000168818	0.717	1.6438	2.04E-05	0.0001 STX18	syntaxin 1& protein_co	4	4415742	4542346	-1 p16.2
ENSG00000111863	0.7169	1.6437	0.0077	0.0241 ADTRP	androgen- $\alpha$ protein_co	6	11712054	11807046	-1 p24.1
ENSG00000150753	0.7163	1.643	5.25E-12	1.50E-10 CCT5	chaperonir protein_co	5	10249921	10266412	1 p15.2
ENSG00000164111	0.7161	1.6428	5.29E-08	6.16E-07 ANXA5	annexin A5 protein_co	4	1.22E+08	1.22E+08	-1 q27
ENSG00000186468	0.7161	1.6427	0.0003	0.0013 RPS23	ribosomal j protein_co	5	82273358	82278577	-1 q14.2
ENSG00000198668	0.7158	1.6424	4.50E-05	0.0003 CALM1	calmodulin protein_co	14	90396502	90408261	1 q32.11
ENSG00000186792	0.7157	1.6423	0.0017	0.0067 HYAL3	hyaluronog $\epsilon$ protein_co	3	50292828	50299468	-1 p21.31
ENSG00000238142	0.7157	1.6422	0.0027	0.0099 RP11-108M9.4	lincRNA	1	16888538	16889649	-1 p36.13
ENSG00000181163	0.7155	1.6421	1.22E-06	1.04E-05 NPM1	nucleopho: protein_co	5	1.71E+08	1.71E+08	1 q35.1
ENSG00000172339	0.7155	1.642	5.80E-08	6.71E-07 ALG14	ALG14, UD protein_co	1	94974407	95072945	-1 p21.3
ENSG00000170291	0.715	1.6415	4.34E-07	4.10E-06 ELP5	elongator $\epsilon$ protein_co	17	7251416	7259940	1 p13.1
ENSG00000070501	0.7148	1.6413	5.68E-07	5.22E-06 POLB	polymeras $\epsilon$ protein_co	8	42338454	42371808	1 p11.21
ENSG00000147804	0.7145	1.6409	0.0001	0.0007 SLC39A4	solute carri protein_co	8	1.44E+08	1.44E+08	-1 q24.3
ENSG00000126970	0.7139	1.6402	1.80E-05	0.0001 ZC4H2	zinc finger, protein_co X		64915802	65034713	-1 q11.2
ENSG00000102024	0.7126	1.6387	8.46E-06	5.99E-05 PLS3	plastin 3 [S protein_co X		1.16E+08	1.16E+08	1 q23
ENSG00000117475	0.7125	1.6386	6.07E-07	5.55E-06 BLZF1	basic leucir protein_co	1	1.69E+08	1.69E+08	1 q24.2
ENSG00000100577	0.7112	1.6371	3.06E-08	3.76E-07 GSTZ1	glutathione $\epsilon$ protein_co	14	77320884	77331597	1 q24.3
ENSG00000006042	0.7109	1.6368	1.89E-06	1.54E-05 TMEM98	transmemt protein_co	17	32927910	32945106	1 q11.2
ENSG00000229334	0.7109	1.6368	0.0162	0.0453 AC046143.3	antisense	3	1.95E+08	1.95E+08	1 q29
ENSG00000167380	0.7106	1.6365	7.43E-11	1.64E-09 ZNF226	zinc finger protein_co	19	44165073	44178381	1 q13.31
ENSG00000102978	0.71	1.6358	2.28E-13	9.14E-12 POLR2C	polymeras $\epsilon$ protein_co	16	57462387	57472010	1 q21
ENSG00000113638	0.7091	1.6348	2.67E-06	2.09E-05 TTC33	tetratricop protein_co	5	40714475	40755975	-1 p13.1
ENSG00000112306	0.709	1.6347	0.0002	0.0009 RPS12	ribosomal j protein_co	6	1.33E+08	1.33E+08	1 q23.2
ENSG00000117118	0.7088	1.6345	2.31E-11	5.70E-10 SDHB	succinate d protein_co	1	17018722	17054170	-1 p36.13
ENSG00000011009	0.7086	1.6342	1.84E-14	9.62E-13 LYPLA2	lysophosph $\rho$ protein_co	1	23790970	23795539	1 p36.11
ENSG00000152422	0.7086	1.6342	8.26E-06	5.87E-05 XRCC4	X-ray repai protein_co	5	83077498	83353787	1 q14.2
ENSG00000233539	0.7086	1.6342	0.005	0.0167 AC011294.3	lincRNA	7	46673785	46759851	-1 p12.3
ENSG00000104872	0.7085	1.6341	1.04E-07	1.13E-06 PIH1D1	PIH1 doma protein_co	19	49446298	49453497	-1 q13.33
ENSG00000204257	0.7085	1.6341	4.43E-05	0.0003 HLA-DMA	major histc protein_co	6	32948613	32969094	-1 p21.32
ENSG00000169490	0.7083	1.6338	1.67E-07	1.74E-06 TM2D2	TM2 doma protein_co	8	38988808	38996824	-1 p11.22
ENSG00000169764	0.7075	1.633	1.93E-09	3.07E-08 UGP2	UDP-glucos: protein_co	2	63840940	63891562	1 p15
ENSG00000152778	0.7074	1.6329	2.53E-07	2.51E-06 IFIT5	interferon- protein_co	10	89414586	89421001	1 q23.31

ENSG00000104408	0.707	1.6325	3.21E-05	0.0002 EIF3E	eukaryotic protein_co	8	1.08E+08	1.08E+08	-1 q23.1
ENSG00000166788	0.707	1.6324	5.32E-08	6.19E-07 SAAL1	serum amyprotein_co	11	18069935	18106091	-1 p15.1
ENSG00000021355	0.707	1.6324	0.0001	0.0007 SERPINB1	serpin pepi protein_co	6	2832332	2842006	-1 p25.2
ENSG00000273149	0.7068	1.6322	0.0018	0.007 RP11-290D2.6	antisense	13	45340039	45341183	1 q14.13
ENSG00000176209	0.7065	1.6319	0.0002	0.001 SMIM19	small integ protein_co	8	42541155	42555193	1 p11.21
ENSG00000113407	0.706	1.6313	8.46E-12	2.29E-10 TARS	threonyl-tF protein_co	5	33440696	33469539	1 p13.3
ENSG00000101084	0.7057	1.6309	1.74E-07	1.80E-06 C20orf24	chromoson protein_co	20	36605734	36612557	1 q11.23
ENSG00000151131	0.7055	1.6307	1.12E-05	7.74E-05 C12orf45	chromoson protein_co	12	1.05E+08	1.05E+08	1 q23.3
ENSG00000182472	0.7052	1.6304	0.006	0.0194 CAPN12	calpain 12 protein_co	19	38730187	38769904	-1 q13.2
ENSG00000159882	0.704	1.629	7.24E-06	5.21E-05 ZNF230	zinc finger protein_co	19	44002948	44013926	1 q13.31
ENSG00000131143	0.7039	1.6289	3.33E-07	3.23E-06 COX4I1	cytochrom protein_co	16	85798633	85807044	1 q24.1
ENSG00000224689	0.7039	1.6289	0.0128	0.0372 ZNF812	zinc finger protein_co	19	9689924	9700817	-1 p13.2
ENSG00000142546	0.7036	1.6285	1.02E-09	1.73E-08 NOSIP	nitric oxide protein_co	19	49555711	49590262	-1 q13.33
ENSG00000134198	0.7034	1.6284	0.0048	0.0162 TSPAN2	tetraspanin protein_co	1	1.15E+08	1.15E+08	-1 p13.2
ENSG00000144867	0.7034	1.6283	1.01E-11	2.70E-10 SRPRB	signal reco protein_co	3	1.34E+08	1.34E+08	1 q22.1
ENSG00000172086	0.7032	1.6282	1.97E-06	1.59E-05 KRCC1	lysine-rich protein_co	2	88027205	88055729	-1 p11.2
ENSG00000087086	0.7032	1.6281	9.87E-11	2.14E-09 FTL	ferritin, lig protein_co	19	48965301	48966878	1 q13.33
ENSG00000104522	0.7026	1.6275	1.54E-09	2.49E-08 TSTA3	tissue spec protein_co	8	1.44E+08	1.44E+08	-1 q24.3
ENSG00000101182	0.7025	1.6273	1.19E-12	4.07E-11 PSMA7	proteasom protein_co	20	62136735	62143440	-1 q13.33
ENSG00000204228	0.7023	1.6271	0.001	0.0041 HSD17B8	hydroxyste protein_co	6	33204642	33206831	1 p21.32
ENSG00000116586	0.7021	1.6269	8.66E-21	2.30E-18 LAMTOR2	late endosc protein_co	1	1.56E+08	1.56E+08	1 q22
ENSG00000144895	0.7017	1.6265	8.84E-08	9.80E-07 EIF2A	eukaryotic protein_co	3	1.51E+08	1.51E+08	1 q25.1
ENSG00000114395	0.7013	1.626	3.90E-08	4.71E-07 CYB561D2	cytochrom protein_co	3	50350695	50358460	1 p21.31
ENSG00000100300	0.7012	1.6259	1.46E-09	2.37E-08 TSPO	translocatc protein_co	22	43151514	43163242	1 q13.2
ENSG00000129680	0.7009	1.6256	5.02E-06	3.72E-05 MAP7D3	MAP7 dom protein_co X		1.36E+08	1.36E+08	-1 q26.3
ENSG00000137880	0.701	1.6256	0.0034	0.0121 GCHFR	GTP cycloh protein_co	15	40764020	40767710	1 q15.1
ENSG00000153558	0.7008	1.6254	0.0001	0.0007 FBXL2	F-box and I protein_co	3	33277025	33403662	1 p22.3
ENSG00000166770	0.7007	1.6253	0.0027	0.0097 ZNF667-AS1	ZNF667 an lincRNA	19	56477250	56500666	1 q13.43
ENSG00000149547	0.7006	1.6252	1.52E-12	5.02E-11 EI24	etoposide i protein_co	11	1.26E+08	1.26E+08	1 q24.2
ENSG00000116957	0.7007	1.6252	3.22E-08	3.95E-07 TBCE	tubulin folc protein_co	1	2.35E+08	2.35E+08	1 q42.3
ENSG00000123607	0.7007	1.6252	0.005	0.0167 TTC21B	tetratricop protein_co	2	1.66E+08	1.66E+08	-1 q24.3
ENSG00000122694	0.7005	1.6251	1.75E-05	0.0001 GLIPR2	GLI pathog protein_co	9	36136536	36163913	1 p13.3
ENSG00000161980	0.7	1.6246	0.0001	0.0006 POLR3K	polymeras protein_co	16	46407	53628	-1 p13.3
ENSG00000111669	0.6999	1.6244	7.94E-10	1.39E-08 TPI1	triosephos protein_co	12	6867119	6870948	1 p13.31
ENSG00000136521	0.6999	1.6244	2.39E-05	0.0002 NDUFB5	NADH deh protein_co	3	1.8E+08	1.8E+08	1 q26.33
ENSG00000148187	0.6996	1.6241	8.65E-07	7.65E-06 MRRF	mitochond protein_co	9	1.22E+08	1.22E+08	1 q33.2
ENSG00000108651	0.6986	1.6229	1.23E-10	2.61E-09 UTP6	UTP6, smal protein_co	17	31860899	31901765	-1 q11.2

ENSG00000163832	0.6986	1.6229	3.46E-09	5.26E-08	ELP6	elongator $\alpha$ protein_co	3	47495640	47513761	-1	p21.31
ENSG00000173226	0.6986	1.6229	0.0082	0.0255	IQCB1	IQ motif co protein_co	3	1.22E+08	1.22E+08	-1	q13.33
ENSG00000166595	0.6981	1.6224	1.45E-10	3.03E-09	FAM96B	family with protein_co	16	66932055	66934423	-1	q22.1
ENSG00000117133	0.6979	1.6222	2.92E-12	8.88E-11	RPF1	ribosome $\beta$ protein_co	1	84479259	84497790	1	p22.3
ENSG00000243199	0.6978	1.6221	6.38E-05	0.0004	RP11-408P14.1	processed_	4	65573459	65574328	1	q13.2
ENSG00000248275	0.6978	1.622	0.0131	0.0379	TRIM52-AS1	TRIM52 an processed_	5	1.81E+08	1.81E+08	1	q35.3
ENSG00000005243	0.6975	1.6217	0.0006	0.0028	COPZ2	coatamer $\beta$ protein_co	17	48026167	48038030	-1	q21.32
ENSG00000137767	0.6968	1.6209	5.05E-15	2.99E-13	SQRDL	sulfide quir protein_co	15	45631148	45691294	1	q21.1
ENSG00000239713	0.6967	1.6208	1.43E-08	1.89E-07	APOBEC3G	apolipopro protein_co	22	39040961	39087743	1	q13.1
ENSG00000103316	0.6964	1.6205	0.0008	0.0036	CRYM	crystallin, r protein_co	16	21238874	21303083	-1	p12.2
ENSG00000138755	0.6962	1.6203	0.0094	0.0286	CXCL9	chemokine protein_co	4	76001275	76007488	-1	q21.1
ENSG00000274020	0.6958	1.6198	0.0019	0.0072	LINC01138	long interg lincRNA	1	1.48E+08	1.48E+08	-1	q21.2
ENSG00000042980	0.6957	1.6197	0.0007	0.0029	ADAM28	ADAM met protein_co	8	24294040	24359018	1	p21.2
ENSG00000090013	0.6953	1.6193	0.0049	0.0165	BLVRB	biliverdin r protein_co	19	40447789	40465840	-1	q13.2
ENSG00000117010	0.6953	1.6192	0.0036	0.0125	ZNF684	zinc finger protein_co	1	40531561	40548169	1	p34.2
ENSG00000244625	0.6952	1.6191	0.001	0.0043	MIATNB	MIAT neig lincRNA	22	26672767	26780207	1	q12.1
ENSG00000143727	0.695	1.6189	2.37E-12	7.30E-11	ACP1	acid phosp protein_co	2	264140	278283	1	p25.3
ENSG00000101850	0.6949	1.6188	0.0007	0.0032	GPR143	G protein-c protein_co X		9725346	9786297	-1	p22.2
ENSG00000109917	0.6948	1.6187	2.98E-13	1.17E-11	ZPR1	ZPR1 zinc f protein_co	11	1.17E+08	1.17E+08	-1	q23.3
ENSG00000122034	0.6946	1.6185	2.43E-10	4.84E-09	GTF3A	general tra protein_co	13	27424544	27435823	1	q12.2
ENSG00000166946	0.6945	1.6184	2.03E-10	4.11E-09	CCNDBP1	cyclin D-tyf protein_co	15	43185118	43197176	1	q15.2
ENSG00000087302	0.6945	1.6184	4.06E-10	7.61E-09	C14orf166	chromoson protein_co	14	51989475	52010691	1	q22.1
ENSG00000164885	0.6945	1.6183	1.97E-06	1.59E-05	CDK5	cyclin-depe protein_co	7	1.51E+08	1.51E+08	-1	q36.1
ENSG00000136827	0.6943	1.6181	1.10E-09	1.85E-08	TOR1A	torsin fami protein_co	9	1.3E+08	1.3E+08	-1	q34.11
ENSG00000008018	0.6937	1.6174	1.63E-12	5.32E-11	PSMB1	proteasom protein_co	6	1.71E+08	1.71E+08	-1	q27
ENSG00000116906	0.6936	1.6173	1.65E-15	1.09E-13	GNPAT	glyceronep protein_co	1	2.31E+08	2.31E+08	1	q42.2
ENSG00000136560	0.693	1.6167	5.06E-08	5.92E-07	TANK	TRAF fami protein_co	2	1.61E+08	1.61E+08	1	q24.2
ENSG00000164305	0.692	1.6155	4.56E-09	6.76E-08	CASP3	caspase 3, protein_co	4	1.85E+08	1.85E+08	-1	q35.1
ENSG00000084754	0.6918	1.6153	5.76E-12	1.62E-10	HADHA	hydroxyacy protein_co	2	26190635	26244726	-1	p23.3
ENSG00000196072	0.6914	1.6149	3.52E-09	5.34E-08	BLOC1S2	biogenesis protein_co	10	1E+08	1E+08	-1	q24.31
ENSG00000174446	0.6915	1.6149	1.25E-06	1.07E-05	SNAPC5	small nucle protein_co	15	66490135	66497813	-1	q22.31
ENSG00000074800	0.6911	1.6146	1.12E-19	2.04E-17	ENO1	enolase 1, protein_co	1	8861002	8879249	-1	p36.23
ENSG00000133321	0.6911	1.6145	2.71E-06	2.11E-05	RARRES3	retinoic aci protein_co	11	63536809	63546462	1	q12.3
ENSG00000204220	0.691	1.6144	1.36E-11	3.51E-10	PFDN6	prefoldin si protein_co	6	33289302	33298401	1	p21.32
ENSG00000204272	0.6907	1.6141	2.70E-16	2.19E-14	LINC01420	long interg processed_X		56729259	56818380	1	p11.21
ENSG00000000003	0.6907	1.614	4.40E-07	4.15E-06	TSPAN6	tetraspanir protein_co X		1.01E+08	1.01E+08	-1	q22.1
ENSG00000156787	0.6906	1.614	0.0174	0.048	TBC1D31	TBC1 doma protein_co	8	1.23E+08	1.23E+08	1	q24.13

ENSG00000175854	0.6905	1.6139	1.01E-05	7.02E-05	SWI5	SWI5 recor protein_co	9	1.28E+08	1.28E+08	1	q34.11
ENSG00000197062	0.6896	1.6128	2.34E-07	2.35E-06	ZSCAN26	zinc finger protein_co	6	28267010	28278224	1	p22.1
ENSG00000132109	0.6894	1.6126	3.87E-11	9.13E-10	TRIM21	tripartite r protein_co	11	4384897	4393696	-1	p15.4
ENSG00000132000	0.6889	1.612	0.01	0.0301	PODNL1	podocan-lil protein_co	19	13931187	13953392	-1	p13.12
ENSG00000110200	0.6888	1.6119	1.49E-09	2.43E-08	ANAPC15	anaphase $\gamma$ protein_co	11	72106378	72112780	-1	q13.4
ENSG00000082068	0.6885	1.6116	4.46E-11	1.03E-09	WDR70	WD repeat protein_co	5	37379212	37753435	1	p13.2
ENSG00000047457	0.6883	1.6113	0.0049	0.0164	CP	ceruloplasr protein_co	3	1.49E+08	1.49E+08	-1	q25.1
ENSG00000135338	0.6878	1.6108	0.0031	0.011	LCA5	Leber cong protein_co	6	79484991	79537458	-1	q14.1
ENSG00000179178	0.6876	1.6106	1.12E-06	9.64E-06	TMEM125	transmeml protein_co	1	43269994	43274002	1	p34.2
ENSG00000154582	0.6875	1.6105	7.88E-07	7.03E-06	TCEB1	transcriptic protein_co	8	73939169	73972287	-1	q21.11
ENSG00000148908	0.6871	1.61	4.31E-06	3.24E-05	RGS10	regulator o protein_co	10	1.19E+08	1.2E+08	-1	q26.11
ENSG00000237489	0.6868	1.6097	0.0127	0.0371	LINC00959	long interg lincRNA	10	1.3E+08	1.3E+08	-1	q26.3
ENSG00000149743	0.6863	1.6091	3.17E-07	3.08E-06	TRPT1	tRNA phosj protein_co	11	64223799	64226254	-1	q13.1
ENSG00000129197	0.6858	1.6086	7.59E-10	1.33E-08	RPAIN	RPA intera protein_co	17	5419641	5432876	1	p13.2
ENSG00000166557	0.6857	1.6085	1.16E-07	1.25E-06	TMED3	transmeml protein_co	15	79311062	79427432	1	q25.1
ENSG00000160606	0.6857	1.6085	0.0003	0.0013	TLCD1	TLC domair protein_co	17	28724348	28727935	-1	q11.2
ENSG00000225630	0.6856	1.6084	3.62E-05	0.0002	MTND2P28	MT-ND2 ps unprocesse	1	629640	630683	1	p36.33
ENSG00000114491	0.6853	1.6081	1.75E-14	9.20E-13	UMPS	uridine mo protein_co	3	1.25E+08	1.25E+08	1	q21.2
ENSG00000015475	0.6853	1.6081	1.37E-06	1.15E-05	BID	BH3 intera protein_co	22	17734138	17774770	-1	q11.21
ENSG00000142528	0.6853	1.6081	1.98E-05	0.0001	ZNF473	zinc finger protein_co	19	50025714	50053414	1	q13.33
ENSG00000064961	0.6853	1.608	1.04E-09	1.77E-08	HMG20B	high mobili protein_co	19	3572777	3579088	1	p13.3
ENSG00000173156	0.6849	1.6076	2.29E-07	2.30E-06	RHOD	ras homolc protein_co	11	67056818	67072013	1	q13.2
ENSG00000123444	0.6848	1.6074	0.0011	0.0045	KBTBD4	kelch repe: protein_co	11	47572197	47579015	-1	p11.2
ENSG00000178922	0.6844	1.607	2.55E-05	0.0002	HYI	hydroxypyri protein_co	1	43451003	43453989	-1	p34.2
ENSG00000144741	0.6842	1.6068	3.70E-09	5.59E-08	SLC25A26	solute carri protein_co	3	66133610	66388116	1	p14.1
ENSG00000111845	0.682	1.6043	1.96E-07	2.00E-06	PAK1IP1	PAK1 inter: protein_co	6	10694695	10709782	1	p24.2
ENSG00000132792	0.6818	1.6041	2.96E-10	5.76E-09	CTNBL1	catenin, be protein_co	20	37693955	37872129	1	q11.23
ENSG00000070831	0.6814	1.6037	2.02E-18	2.81E-16	CDC42	cell divisior protein_co	1	22052627	22092946	1	p36.12
ENSG00000050130	0.6814	1.6037	7.15E-07	6.44E-06	JKAMP	JNK1/MAPi protein_co	14	59484443	59505410	1	q23.1
ENSG00000180992	0.6811	1.6034	3.50E-09	5.31E-08	MRPL14	mitochond protein_co	6	44113454	44127457	-1	p21.1
ENSG00000188868	0.6811	1.6033	0.0039	0.0136	ZNF563	zinc finger protein_co	19	12317477	12333720	-1	p13.2
ENSG00000255517	0.6808	1.603	0.0028	0.0102	CTD-307407.5	antisense	11	66473490	66480233	-1	q13.2
ENSG00000120656	0.6806	1.6028	8.62E-09	1.21E-07	TAF12	TAF12 RNA protein_co	1	28589323	28643085	-1	p35.3
ENSG00000197021	0.6805	1.6027	5.46E-09	7.98E-08	CXorf40B	chromoson protein_co X		1.5E+08	1.5E+08	-1	q28
ENSG00000176046	0.6803	1.6025	0.0002	0.0012	NUPR1	nuclear prc protein_co	16	28532708	28539174	-1	p11.2
ENSG00000197008	0.6801	1.6023	3.96E-06	3.00E-05	ZNF138	zinc finger protein_co	7	64794388	64833681	1	q11.21
ENSG00000234678	0.6802	1.6023	0.0003	0.0016	RP11-465N4.4	antisense	1	2.02E+08	2.02E+08	-1	q32.1

ENSG00000117748	0.6797	1.6018	1.69E-06	1.39E-05	RPA2	replication protein_co	1	27891524	27914746	-1	p35.3
ENSG00000111481	0.6796	1.6017	7.51E-10	1.32E-08	COPZ1	coatamer $\zeta$ protein_co	12	54301202	54351849	1	q13.13
ENSG00000116459	0.6792	1.6012	2.34E-11	5.76E-10	ATP5F1	ATP synthase protein_co	1	1.11E+08	1.11E+08	1	p13.2
ENSG00000228782	0.679	1.601	0.0078	0.0244	MRPL45P2	mitochondrion transcribed	17	47450568	47492492	-1	q21.32
ENSG00000162910	0.6789	1.6009	1.24E-08	1.66E-07	MRPL55	mitochondrion protein_co	1	2.28E+08	2.28E+08	-1	q42.13
ENSG00000121690	0.6787	1.6007	0.0068	0.0217	DEPDC7	DEP domain protein_co	11	33015864	33033582	1	p13
ENSG00000131238	0.6786	1.6006	3.20E-19	5.46E-17	PPT1	palmitoyl- $\zeta$ protein_co	1	40072705	40097703	-1	p34.2
ENSG00000106603	0.6786	1.6006	3.09E-07	3.01E-06	COA1	cytochrome protein_co	7	43608456	43729717	-1	p13
ENSG00000141562	0.6786	1.6006	3.12E-06	2.41E-05	NARF	nuclear pre-protein_co	17	82458180	82490537	1	q25.3
ENSG00000114023	0.6786	1.6005	5.20E-05	0.0003	FAM162A	family with protein_co	3	1.22E+08	1.22E+08	1	q21.1
ENSG00000204308	0.6783	1.6003	5.21E-08	6.08E-07	RNF5	ring finger protein_co	6	32178354	32180793	1	p21.32
ENSG00000240972	0.6772	1.599	1.36E-07	1.44E-06	MIF	macrophage protein_co	22	23894004	23895227	1	q11.23
ENSG00000108381	0.6768	1.5985	0.0157	0.0442	ASPA	aspartoacyl protein_co	17	3472374	3503419	1	p13.2
ENSG00000196290	0.6759	1.5976	1.91E-07	1.96E-06	NIF3L1	NIF3 NGG1 protein_co	2	2.01E+08	2.01E+08	1	q33.1
ENSG00000164117	0.6756	1.5973	5.25E-09	7.71E-08	FBXO8	F-box protein protein_co	4	1.74E+08	1.74E+08	-1	q34.1
ENSG00000250722	0.675	1.5966	0.0004	0.0021	SEPP1	selenoprotein protein_co	5	42799880	42887392	-1	p12
ENSG00000233836	0.6746	1.5961	0.0064	0.0207	RP11-255H23.2	transcribed	19	23762944	23833314	1	p12
ENSG00000138777	0.6742	1.5957	7.30E-09	1.05E-07	PPA2	pyrophosphatase protein_co	4	1.05E+08	1.05E+08	-1	q24
ENSG00000104412	0.6741	1.5956	4.26E-07	4.03E-06	EMC2	ER membrane protein_co	8	1.08E+08	1.08E+08	1	q23.1
ENSG00000089737	0.6734	1.5949	4.11E-22	1.80E-19	DDX24	DEAD (Asp-) protein_co	14	94048291	94081245	-1	q32.12
ENSG00000177674	0.673	1.5944	8.79E-08	9.77E-07	AGTRAP	angiotensin protein_co	1	11736084	11754802	1	p36.22
ENSG00000128311	0.6726	1.5939	4.43E-11	1.03E-09	TST	thiosulfate protein_co	22	37010859	37020183	-1	q12.3
ENSG00000165264	0.6726	1.5939	2.60E-07	2.57E-06	NDUFB6	NADH dehydrogenase protein_co	9	32552999	32573184	-1	p21.1
ENSG00000151632	0.6725	1.5938	0.0025	0.0092	AKR1C2	aldo-ketoreductase protein_co	10	4922564	5135226	-1	p15.1
ENSG00000180817	0.6723	1.5936	3.17E-05	0.0002	PPA1	pyrophosphatase protein_co	10	70202830	70233911	-1	q22.1
ENSG00000197498	0.6721	1.5934	2.01E-06	1.62E-05	RPF2	ribosome protein_co	6	1.11E+08	1.11E+08	1	q21
ENSG00000125652	0.6721	1.5934	2.69E-05	0.0002	ALKBH7	alkB, alkylase protein_co	19	6372433	6375251	1	p13.3
ENSG00000119782	0.6721	1.5934	0.0002	0.0008	FKBP1B	FK506 binding protein_co	2	24049701	24063681	1	p23.3
ENSG00000115368	0.6719	1.5932	7.35E-11	1.63E-09	WDR75	WD repeat protein_co	2	1.89E+08	1.89E+08	1	q32.2
ENSG00000065548	0.6716	1.5928	1.43E-08	1.89E-07	ZC3H15	zinc finger protein_co	2	1.86E+08	1.87E+08	1	q32.1
ENSG00000005302	0.6713	1.5925	1.39E-09	2.30E-08	MSL3	male-specific protein_co X		11758159	11775753	1	p22.2
ENSG00000125971	0.6712	1.5924	1.99E-07	2.03E-06	DYNLRB1	dynein, light protein_co	20	34516409	34540958	1	q11.22
ENSG00000151743	0.6709	1.5921	1.07E-05	7.44E-05	AMN1	antagonist protein_co	12	31671137	31729174	-1	p11.21
ENSG00000057608	0.6703	1.5914	1.43E-16	1.24E-14	GDI2	GDP dissociation protein_co	10	5765223	5842132	-1	p15.1
ENSG00000188342	0.6703	1.5914	5.53E-07	5.10E-06	GTF2F2	general transcription protein_co	13	45120515	45284909	1	q14.12
ENSG00000117410	0.67	1.5911	1.32E-14	7.18E-13	ATP6V0B	ATPase, H <sup>+</sup> protein_co	1	43974487	43978295	1	p34.1
ENSG00000174276	0.67	1.5911	0.0062	0.0202	ZNHIT2	zinc finger, protein_co	11	65116403	65117708	-1	q13.1



ENSG00000154813	0.6694	1.5905	1.79E-08	2.30E-07	DPH3	diphthamic protein_co	3	16257978	16264972	-1	p25.1
ENSG00000107968	0.6695	1.5905	1.23E-05	8.38E-05	MAP3K8	mitogen-ac protein_co	10	30433937	30461833	1	p11.23
ENSG00000214113	0.6692	1.5902	1.40E-09	2.31E-08	LYRM4	LYR motif c protein_co	6	5102593	5260950	-1	p25.1
ENSG00000171148	0.668	1.5889	1.72E-16	1.45E-14	TADA3	transcriptic protein_co	3	9779860	9793011	-1	p25.3
ENSG00000137965	0.6677	1.5885	0.0002	0.0008	IFI44	interferon- protein_co	1	78649796	78664078	1	p31.1
ENSG00000122970	0.6677	1.5885	0.0106	0.0318	IFT81	intraflagell. protein_co	12	1.1E+08	1.1E+08	1	q24.11
ENSG00000179933	0.6675	1.5884	1.60E-11	4.04E-10	C14orf119	chromosom protein_co	14	23094765	23100462	1	q11.2
ENSG00000167645	0.6668	1.5875	2.49E-06	1.97E-05	YIF1B	Yip1 intera protein_co	19	38305104	38317273	-1	q13.2
ENSG00000204789	0.6667	1.5875	0.0006	0.0025	ZNF204P	zinc finger processed_	6	27357825	27360221	-1	p22.1
ENSG00000206573	0.6665	1.5872	7.71E-06	5.53E-05	THUMPD3-AS1	THUMPD3 antisense	3	9349689	9398579	-1	p25.3
ENSG0000033011	0.6661	1.5868	1.17E-08	1.58E-07	ALG1	ALG1, chitc protein_co	16	5033702	5087379	1	p13.3
ENSG00000100632	0.6659	1.5865	2.86E-08	3.54E-07	ERH	enhancer c protein_co	14	69380123	69398627	-1	q24.1
ENSG00000184178	0.6657	1.5863	5.19E-07	4.81E-06	SCFD2	sec1 family protein_co	4	52872982	53366075	-1	q12
ENSG00000137563	0.6657	1.5863	0.0003	0.0014	GGH	gamma-glu protein_co	8	63015079	63039171	-1	q12.3
ENSG00000095794	0.6646	1.5851	2.48E-05	0.0002	CREM	cAMP resp protein_co	10	35126791	35212958	1	p11.21
ENSG00000253982	0.6646	1.5851	0.0003	0.0015	CTD-2336O2.1	antisense	8	1761990	1764502	-1	p23.3
ENSG00000205758	0.6644	1.5849	2.97E-08	3.67E-07	CRYZL1	crystallin, z protein_co	21	33589341	33643926	-1	q22.11
ENSG00000137074	0.664	1.5844	3.01E-10	5.84E-09	APTX	apratatin [: protein_co	9	32972606	33025168	-1	p21.1
ENSG00000117697	0.6633	1.5837	1.01E-07	1.10E-06	NSL1	NSL1, MIS1 protein_co	1	2.13E+08	2.13E+08	-1	q32.3
ENSG00000186625	0.663	1.5833	4.03E-05	0.0002	KATNA1	katanin p6l protein_co	6	1.5E+08	1.5E+08	-1	q25.1
ENSG00000131080	0.6628	1.5831	0.0052	0.0174	EDA2R	ectodyspla protein_co X		66595637	66639298	-1	q12
ENSG00000167165	0.6627	1.583	0.0009	0.0039	UGT1A6	UDP glucur protein_co	2	2.34E+08	2.34E+08	1	q37.1
ENSG00000159063	0.6625	1.5828	3.83E-06	2.91E-05	ALG8	ALG8, alph. protein_co	11	78100936	78139660	-1	q14.1
ENSG00000105821	0.6623	1.5826	1.89E-13	7.74E-12	DNAJC2	DnaJ (Hsp4 protein_co	7	1.03E+08	1.03E+08	-1	q22.1
ENSG00000239213	0.6621	1.5824	0.0108	0.0324	NCK1-AS1	NCK1 antis antisense	3	1.37E+08	1.37E+08	-1	q22.3
ENSG00000256211	0.6616	1.5818	0.0093	0.0285	RP11-1018J11.1	processed_	12	16989126	16989936	1	p12.3
ENSG00000142507	0.6614	1.5817	3.26E-11	7.77E-10	PSMB6	proteasom protein_co	17	4796144	4798503	1	p13.2
ENSG00000214110	0.6609	1.5811	0.0031	0.0112	LDHAP4	lactate deh processed_	9	14921337	14922334	-1	p22.3
ENSG00000136425	0.6604	1.5805	0.0118	0.0347	CIB2	calcium an; protein_co	15	78104606	78131544	-1	q25.1
ENSG00000196511	0.6603	1.5804	0.0002	0.0011	TPK1	thiamin py; protein_co	7	1.44E+08	1.45E+08	-1	q35
ENSG00000168291	0.6602	1.5803	9.55E-09	1.32E-07	PDHB	pyruvate d protein_co	3	58427630	58433857	-1	p14.3
ENSG00000172171	0.6601	1.5802	8.11E-06	5.78E-05	TEFM	transcriptic protein_co	17	30897336	30906820	-1	q11.2
ENSG00000143621	0.66	1.5801	2.04E-14	1.05E-12	ILF2	interleukin protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000159479	0.66	1.5801	9.15E-08	1.01E-06	MED8	mediator c protein_co	1	43383917	43389808	-1	p34.2
ENSG00000156110	0.6596	1.5796	7.89E-09	1.12E-07	ADK	adenosine protein_co	10	74151185	74709303	1	q22.2
ENSG00000100591	0.6595	1.5796	0.0024	0.009	AHSA1	AHA1, activ protein_co	14	77457870	77469474	1	q24.3
ENSG00000130560	0.6595	1.5796	0.0081	0.0253	UBAC1	UBA domai protein_co	9	1.36E+08	1.36E+08	-1	q34.3

ENSG00000154723	0.6587	1.5786	5.51E-10	9.97E-09	ATP5J	ATP synthase protein_co	21	25716503	25735673	-1	q21.3
ENSG00000134757	0.6586	1.5786	1.72E-05	0.0001	DSG3	desmoglein protein_co	18	31447795	31478702	1	q12.1
ENSG00000106605	0.6582	1.5781	2.86E-11	6.88E-10	BLVRA	biliverdin reductase protein_co	7	43758680	43807342	1	p13
ENSG00000204344	0.6582	1.5781	1.80E-06	1.47E-05	STK19	serine/threonine protein_co	6	31971091	31982821	1	p21.33
ENSG00000132386	0.6582	1.5781	0.0171	0.0475	SERPINF1	serpin peptidase inhibitor protein_co	17	1761959	1777574	1	p13.3
ENSG00000272602	0.6581	1.578	1.31E-06	1.11E-05	ZNF595	zinc finger protein_co	4	53285	88211	1	p16.3
ENSG00000198612	0.6574	1.5773	4.22E-16	3.29E-14	COPS8	COP9 signalosome protein_co	2	2.37E+08	2.37E+08	1	q37.3
ENSG00000088930	0.6572	1.577	7.40E-15	4.26E-13	XRN2	5'-3' exonuclease protein_co	20	21303304	21389827	1	p11.22
ENSG00000198898	0.6571	1.5769	1.41E-06	1.18E-05	CAPZA2	capping protein protein_co	7	1.17E+08	1.17E+08	1	q31.2
ENSG00000120647	0.6571	1.5769	0.0001	0.0008	CCDC77	coiled-coil protein_co	12	389273	442645	1	p13.33
ENSG00000166478	0.657	1.5768	9.07E-09	1.26E-07	ZNF143	zinc finger protein_co	11	9460319	9528524	1	p15.4
ENSG00000178057	0.657	1.5768	1.98E-06	1.60E-05	NDUFAB3	NADH dehydrogenase protein_co	3	49020459	49023495	1	p21.31
ENSG00000099341	0.657	1.5767	3.74E-30	8.17E-27	PSMD8	proteasome protein_co	19	38374536	38383824	1	q13.2
ENSG00000096092	0.6569	1.5767	2.31E-06	1.84E-05	TMEM14A	transmembrane protein_co	6	52671109	52686588	1	p12.2
ENSG00000182782	0.6568	1.5766	3.93E-05	0.0002	HCAR2	hydroxycarboxylic acid receptor protein_co	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000145194	0.6561	1.5759	0.0011	0.0045	ECE2	endothelin receptor protein_co	3	1.84E+08	1.84E+08	1	q27.1
ENSG00000178096	0.6559	1.5756	0.0003	0.0012	BOLA1	bolA family protein_co	1	1.5E+08	1.5E+08	1	q21.2
ENSG00000115963	0.6559	1.5756	0.0014	0.0055	RND3	Rho family protein_co	2	1.5E+08	1.51E+08	-1	q23.3
ENSG00000109854	0.6556	1.5753	1.25E-14	6.89E-13	HTATIP2	HIV-1 Tat interaction protein_co	11	20363685	20383783	1	p15.1
ENSG00000135775	0.6557	1.5753	5.08E-14	2.41E-12	COG2	component protein_co	1	2.31E+08	2.31E+08	1	q42.2
ENSG00000138303	0.6554	1.575	4.05E-11	9.49E-10	ASCC1	activating signal transducer protein_co	10	72096032	72217134	-1	q22.1
ENSG00000031691	0.6552	1.5748	0.0005	0.0023	CENPQ	centromere protein_co	6	49463378	49493107	1	p12.3
ENSG00000115685	0.6551	1.5747	0.0009	0.0037	PPP1R7	protein phosphatase protein_co	2	2.41E+08	2.41E+08	1	q37.3
ENSG00000147592	0.6549	1.5745	0.0006	0.0025	LACTB2	lactamase, protein_co	8	70635318	70669174	-1	q13.3
ENSG00000169814	0.6544	1.574	1.54E-08	2.03E-07	BTD	biotinidase protein_co	3	15601341	15645822	1	p25.1
ENSG00000155115	0.6543	1.5739	1.38E-12	4.61E-11	GTF3C6	general transcription factor protein_co	6	1.11E+08	1.11E+08	1	q21
ENSG00000053900	0.6542	1.5738	0.0034	0.0121	ANAPC4	anaphase promoting complex protein_co	4	25377213	25418498	1	p15.2
ENSG00000138271	0.6541	1.5737	4.88E-05	0.0003	GPR87	G protein-coupled protein_co	3	1.51E+08	1.51E+08	-1	q25.1
ENSG00000049167	0.6539	1.5735	2.23E-05	0.0001	ERCC8	excision repair protein_co	5	60873831	60945073	-1	q12.1
ENSG00000118965	0.6539	1.5735	0.0069	0.0219	WDR35	WD repeat protein_co	2	19910260	19990131	-1	p24.1
ENSG00000144029	0.6536	1.5731	7.61E-10	1.33E-08	MRPS5	mitochondrial protein_co	2	95087207	95149434	-1	q11.1
ENSG00000126522	0.6535	1.573	2.75E-09	4.27E-08	ASL	argininosuccinate lyase protein_co	7	66075798	66093558	1	q11.21
ENSG00000101343	0.6533	1.5728	2.48E-08	3.11E-07	CRNKL1	crooked neck protein_co	20	20034368	20056046	-1	p11.23
ENSG00000167085	0.6532	1.5727	2.69E-15	1.70E-13	PHB	prohibitin [protein_co	17	49404049	49414905	-1	q21.33
ENSG00000132423	0.6531	1.5726	0.0001	0.0007	COQ3	coenzyme Q3 protein_co	6	99369400	99394204	-1	q16.2
ENSG00000121417	0.6523	1.5716	1.03E-09	1.75E-08	ZNF211	zinc finger protein_co	19	57630395	57642779	1	q13.43
ENSG00000100603	0.6518	1.5712	1.66E-07	1.73E-06	SNW1	SNW domain protein_co	14	77717599	77761207	-1	q24.3

ENSG00000150722	0.6516	1.5709	0.0051	0.0171	PPP1R1C	protein phc protein_co	2	1.82E+08	1.82E+08	1	q31.3
ENSG00000116221	0.6511	1.5704	1.32E-12	4.44E-11	MRPL37	mitochond protein_co	1	54184041	54225464	1	p32.3
ENSG00000213465	0.651	1.5703	2.07E-06	1.66E-05	ARL2	ADP-ribosy protein_co	11	65014113	65022184	1	q13.1
ENSG00000188846	0.6509	1.5701	1.73E-05	0.0001	RPL14	ribosomal   protein_co	3	40457292	40462370	1	p22.1
ENSG00000079459	0.6508	1.57	1.29E-11	3.35E-10	FDFT1	farnesyl-dij protein_co	8	11795573	11839309	1	p23.1
ENSG00000171970	0.6503	1.5694	0.0002	0.0009	ZNF57	zinc finger protein_co	19	2900898	2918476	1	p13.3
ENSG00000183696	0.65	1.5692	0.0118	0.0348	UPP1	uridine phc protein_co	7	48088628	48108733	1	p12.3
ENSG00000156239	0.6493	1.5685	7.83E-08	8.82E-07	N6AMT1	N-6 adenin protein_co	21	28872191	28885371	-1	q21.3
ENSG00000125445	0.6488	1.5679	6.43E-12	1.79E-10	MRPS7	mitochond protein_co	17	75261674	75266373	1	q25.1
ENSG00000103978	0.6485	1.5676	2.42E-10	4.83E-09	TMEM87A	transmemt protein_co	15	42210452	42273663	-1	q15.1
ENSG00000163636	0.6483	1.5673	8.95E-10	1.53E-08	PSMD6	proteasom protein_co	3	64010549	64024010	-1	p14.1
ENSG00000280145	0.6482	1.5672	0.0175	0.0483	CH507-154B10.1	lincRNA	21	6630182	6670695	-1	p12
ENSG00000104679	0.6476	1.5666	2.37E-09	3.72E-08	R3HCC1	R3H domai protein_co	8	23270120	23296279	1	p21.3
ENSG00000137955	0.6476	1.5666	1.29E-06	1.09E-05	RABGGTB	Rab gerany protein_co	1	75786197	75795079	1	p31.1
ENSG00000165233	0.6474	1.5663	8.75E-07	7.73E-06	C9orf89	chromoson protein_co	9	93096218	93113283	1	q22.31
ENSG00000124762	0.6467	1.5656	0.0002	0.0011	CDKN1A	cyclin-depe protein_co	6	36676460	36687339	1	p21.2
ENSG00000041988	0.6466	1.5655	2.96E-06	2.30E-05	THAP3	THAP domi protein_co	1	6624866	6635586	1	p36.31
ENSG00000146731	0.646	1.5649	1.58E-11	4.01E-10	CCT6A	chaperonir protein_co	7	56051630	56063989	1	p11.2
ENSG00000168569	0.6461	1.5649	6.41E-07	5.82E-06	TMEM223	transmemt protein_co	11	62771629	62792021	-1	q12.3
ENSG00000152404	0.6461	1.5649	1.83E-06	1.49E-05	CWF19L2	CWF19-like protein_co	11	1.07E+08	1.07E+08	-1	q22.3
ENSG00000092020	0.6458	1.5646	3.44E-08	4.21E-07	PPP2R3C	protein phc protein_co	14	35085467	35122517	-1	q13.2
ENSG00000205981	0.6456	1.5644	2.44E-10	4.85E-09	DNAJC19	DnaJ (Hsp4 protein_co	3	1.81E+08	1.81E+08	-1	q26.33
ENSG00000154240	0.6456	1.5644	0.0117	0.0345	CEP112	centrosom protein_co	17	65635538	66192084	-1	q24.1
ENSG00000085760	0.6451	1.5638	2.47E-08	3.09E-07	MTIF2	mitochond protein_co	2	55236595	55269347	-1	p16.1
ENSG00000108384	0.6447	1.5634	2.39E-05	0.0002	RAD51C	RAD51 pari protein_co	17	58692573	58735611	1	q22
ENSG00000125450	0.6446	1.5633	1.10E-06	9.49E-06	NUP85	nucleopori protein_co	17	75205659	75235758	1	q25.1
ENSG00000160050	0.6441	1.5628	0.0071	0.0225	CCDC28B	coiled-coil   protein_co	1	32200386	32205387	1	p35.2
ENSG00000196655	0.6439	1.5626	1.13E-09	1.89E-08	TRAPPC4	trafficking   protein_co	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000228439	0.644	1.5626	0.0074	0.0233	TSTD3	thiosulfate antisense	6	99520693	99531918	1	q16.2
ENSG00000108479	0.6439	1.5625	0.0004	0.0018	GALK1	galactokinæ protein_co	17	75751594	75765711	-1	q25.1
ENSG00000096654	0.6438	1.5624	4.26E-07	4.02E-06	ZNF184	zinc finger protein_co	6	27450743	27473118	-1	p22.1
ENSG00000048162	0.6437	1.5623	9.83E-09	1.36E-07	NOP16	NOP16 nuc protein_co	5	1.76E+08	1.76E+08	-1	q35.2
ENSG00000105755	0.6436	1.5622	1.79E-08	2.30E-07	ETHE1	ethylmalor protein_co	19	43506719	43527244	-1	q13.31
ENSG00000066322	0.6435	1.5621	1.72E-12	5.55E-11	ELOVL1	ELOVL fatty protein_co	1	43363397	43368074	-1	p34.2
ENSG00000123415	0.6434	1.5621	8.96E-09	1.25E-07	SMUG1	single-strar protein_co	12	54164745	54188994	-1	q13.13
ENSG00000241127	0.6435	1.5621	7.63E-06	5.47E-05	YAE1D1	Yae1 doma protein_co	7	39566376	39610320	1	p14.1
ENSG00000176101	0.6433	1.5619	4.01E-06	3.03E-05	SSNA1	Sjogren syr protein_co	9	1.37E+08	1.37E+08	1	q34.3

ENSG00000143771	0.643	1.5615	1.07E-06	9.26E-06	CNIH4	cornichon 1 protein_co	1	2.24E+08	2.24E+08	1	q42.11
ENSG00000180822	0.6428	1.5614	2.25E-06	1.79E-05	PSMG4	proteasom protein_co	6	3231403	3303373	1	p25.2
ENSG00000101882	0.6428	1.5613	1.21E-07	1.30E-06	NKAP	NFKB activ:protein_co X		1.2E+08	1.2E+08	-1	q24
ENSG00000177971	0.6418	1.5603	5.01E-06	3.72E-05	IMP3	IMP3, U3 s protein_co	15	75639085	75648706	-1	q24.2
ENSG00000197894	0.6416	1.5601	6.57E-10	1.17E-08	ADH5	alcohol dehydrogenase protein_co	4	99070978	99088801	-1	q23
ENSG00000151882	0.6415	1.5599	0.0155	0.0437	CCL28	chemokine protein_co	5	43376645	43412391	-1	p12
ENSG00000143653	0.6411	1.5595	1.72E-07	1.79E-06	SCCPDH	saccharopine protein_co	1	2.47E+08	2.47E+08	1	q44
ENSG00000153015	0.641	1.5594	8.13E-09	1.15E-07	CWC27	CWC27 splice protein_co	5	64768930	65018763	1	q12.3
ENSG00000114209	0.641	1.5594	1.77E-06	1.45E-05	PDCD10	programmed cell death protein_co	3	1.68E+08	1.68E+08	-1	q26.1
ENSG00000101365	0.6405	1.5589	3.40E-06	2.61E-05	IDH3B	isocitrate dehydrogenase protein_co	20	2658395	2664219	-1	p13
ENSG00000120697	0.6402	1.5585	1.71E-06	1.40E-05	ALG5	ALG5, dolichyl protein_co	13	36949775	37000261	-1	q13.3
ENSG00000145337	0.6398	1.5582	6.52E-07	5.91E-06	PYURF	PIGY upstream protein_co	4	88520985	88523813	-1	q22.1
ENSG00000008324	0.6399	1.5582	5.23E-06	3.87E-05	SS18L2	synovial sarcoma protein_co	3	42581840	42595114	1	p22.1
ENSG00000169230	0.6396	1.5579	4.34E-11	1.01E-09	PRELID1	PRELID domain protein_co	5	1.77E+08	1.77E+08	1	q35.3
ENSG00000173457	0.6389	1.5571	1.14E-08	1.55E-07	PPP1R14B	protein phosphatase protein_co	11	64244480	64246941	-1	q13.1
ENSG00000167642	0.6381	1.5563	1.60E-10	3.29E-09	SPINT2	serine peptidase protein_co	19	38244035	38292614	1	q13.2
ENSG00000104529	0.6377	1.5559	6.89E-05	0.0004	EEF1D	eukaryotic protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000184207	0.6376	1.5558	8.77E-06	6.20E-05	PGP	phosphoglycolipase protein_co	16	2211997	2214807	-1	p13.3
ENSG00000164172	0.6375	1.5557	3.00E-08	3.69E-07	MOCS2	molybdenum cofactor protein_co	5	53095679	53110063	-1	q11.2
ENSG00000003147	0.6372	1.5553	0.0026	0.0095	ICA1	islet cell autoantigen protein_co	7	8113184	8262687	-1	p21.3
ENSG00000127125	0.6369	1.555	2.02E-07	2.06E-06	PPCS	phosphopapain protein_co	1	42456117	42473385	1	p34.2
ENSG00000174886	0.6366	1.5547	6.56E-07	5.94E-06	NDUFA11	NADH dehydrogenase protein_co	19	5891276	5904006	-1	p13.3
ENSG00000151779	0.6367	1.5547	3.61E-06	2.76E-05	NBAS	neuroblastoma protein_co	2	15166909	15561330	-1	p24.3
ENSG00000104613	0.6365	1.5545	1.28E-05	8.69E-05	INTS10	integrator complex protein_co	8	19817140	19852083	1	p21.3
ENSG00000103035	0.6364	1.5544	4.12E-13	1.55E-11	PSMD7	proteasome protein_co	16	74296775	74306288	1	q23.1
ENSG00000229644	0.6362	1.5543	0.0003	0.0014	NAMPTP1	nicotinamide processed	10	36521721	36524234	-1	p11.21
ENSG00000101843	0.6357	1.5537	8.82E-05	0.0005	PSMD10	proteasome protein_co X		1.08E+08	1.08E+08	-1	q22.3
ENSG00000168259	0.6348	1.5528	3.75E-12	1.11E-10	DNAJC7	DnaJ (Hsp40) protein_co	17	41976433	42021376	-1	q21.2
ENSG00000130772	0.6347	1.5527	2.25E-07	2.27E-06	MED18	mediator complex protein_co	1	28329002	28335967	1	p35.3
ENSG00000100938	0.6348	1.5527	2.05E-06	1.65E-05	GMPR2	guanosine nucleotide protein_co	14	24232422	24239242	1	q12
ENSG00000153391	0.6347	1.5527	0.0001	0.0008	INO80C	INO80 complex protein_co	18	35452230	35497991	-1	q12.2
ENSG00000089335	0.6347	1.5526	1.21E-07	1.30E-06	ZNF302	zinc finger protein_co	19	34677639	34686397	1	q13.11
ENSG00000165512	0.6338	1.5517	1.06E-05	7.37E-05	ZNF22	zinc finger protein_co	10	45000475	45005326	1	q11.21
ENSG00000117543	0.6332	1.551	6.17E-05	0.0004	DPH5	diphthamide protein_co	1	1.01E+08	1.01E+08	-1	p21.2
ENSG00000184432	0.6331	1.5509	2.00E-11	5.01E-10	COPB2	coatamer factor protein_co	3	1.39E+08	1.39E+08	-1	q23
ENSG00000118197	0.6332	1.5509	2.41E-08	3.02E-07	DDX59	DEAD (Asp) protein_co	1	2.01E+08	2.01E+08	-1	q32.1
ENSG00000197620	0.6331	1.5509	5.39E-07	4.98E-06	CXorf40A	chromosome protein_co X		1.5E+08	1.5E+08	1	q28

ENSG00000155393	0.6328	1.5506	3.66E-07	3.52E-06	HEATR3	HEAT repeat protein_co	16	50065941	50106387	1	q12.1
ENSG00000196976	0.6322	1.55	6.40E-05	0.0004	LAGE3	L antigen family protein_co X		1.54E+08	1.54E+08	-1	q28
ENSG00000234741	0.6315	1.5492	0.0011	0.0047	GAS5	growth arrest processed	1	1.74E+08	1.74E+08	-1	q25.1
ENSG00000143578	0.6312	1.5488	0.0097	0.0294	CREB3L4	cAMP response protein_co	1	1.54E+08	1.54E+08	1	q21.3
ENSG00000086504	0.6311	1.5487	3.68E-15	2.24E-13	MRPL28	mitochondrial protein_co	16	367384	370527	-1	p13.3
ENSG00000134258	0.6304	1.548	6.92E-06	5.01E-05	VTCN1	V-set domain protein_co	1	1.17E+08	1.17E+08	-1	p12
ENSG00000176171	0.63	1.5476	8.40E-05	0.0005	BNIP3	BCL2/adenoma protein_co	10	1.32E+08	1.32E+08	-1	q26.3
ENSG00000142892	0.6295	1.547	1.29E-07	1.38E-06	PIGK	phosphatidyl protein_co	1	77088990	77219430	-1	p31.1
ENSG00000105135	0.6292	1.5467	3.95E-11	9.27E-10	ILVBL	ilvB (bacterial) protein_co	19	15114984	15125785	-1	p13.12
ENSG00000154640	0.6289	1.5463	8.28E-08	9.25E-07	BTG3	BTG family protein_co	21	17593653	17612947	-1	q21.1
ENSG00000164051	0.6288	1.5463	5.94E-05	0.0003	CCDC51	coiled-coil protein_co	3	48432164	48440456	-1	p21.31
ENSG00000164022	0.6287	1.5461	7.13E-07	6.42E-06	AIMP1	aminoacyl-tRNA protein_co	4	1.06E+08	1.06E+08	1	q24
ENSG00000155636	0.6286	1.5461	1.69E-06	1.39E-05	RBM45	RNA binding protein_co	2	1.78E+08	1.78E+08	1	q31.2
ENSG00000164008	0.6285	1.5459	1.81E-05	0.0001	C1orf50	chromosomal protein_co	1	42767269	42794493	1	p34.2
ENSG00000198960	0.628	1.5455	1.01E-06	8.80E-06	ARMCX6	armadillo repeat protein_co X		1.02E+08	1.02E+08	-1	q22.1
ENSG00000138496	0.6279	1.5453	2.38E-10	4.74E-09	PARP9	poly (ADP-ribose) protein_co	3	1.23E+08	1.23E+08	-1	q21.1
ENSG00000107672	0.6279	1.5453	2.63E-06	2.06E-05	NSMCE4A	non-SMC element protein_co	10	1.22E+08	1.22E+08	-1	q26.13
ENSG00000279483	0.6278	1.5452	0.0117	0.0344	RPL41	ribosomal protein_co	7	1.38E+08	1.38E+08	1	q33
ENSG00000273841	0.6276	1.545	4.87E-08	5.74E-07	AK6	adenylate kinase protein_co	5	69364743	69370013	-1	q13.2
ENSG00000101017	0.6276	1.545	0.0003	0.0015	CD40	CD40 molecule protein_co	20	46118272	46129863	1	q13.12
ENSG00000167112	0.6274	1.5448	6.15E-07	5.62E-06	TRUB2	TruB pseudoprotein_co	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000172785	0.6273	1.5446	2.35E-06	1.86E-05	CBWD1	COBWD domain protein_co	9	121038	179147	-1	p24.3
ENSG00000123737	0.6266	1.5439	8.32E-08	9.30E-07	EXOSC9	exosome component protein_co	4	1.22E+08	1.22E+08	1	q27
ENSG00000143748	0.6264	1.5437	3.90E-08	4.71E-07	NVL	nuclear viral core protein_co	1	2.24E+08	2.24E+08	-1	q42.11
ENSG00000262919	0.6263	1.5436	3.09E-07	3.01E-06	FAM58A	family with protein_co X		1.54E+08	1.54E+08	-1	q28
ENSG00000164611	0.6263	1.5436	0.0129	0.0376	PTTG1	pituitary tumor protein_co	5	1.6E+08	1.6E+08	1	q33.3
ENSG00000179021	0.6261	1.5434	1.22E-06	1.04E-05	C3orf38	chromosomal protein_co	3	88149743	88168729	1	p11.1
ENSG00000100575	0.626	1.5433	8.11E-06	5.77E-05	TIMM9	translocase protein_co	14	58408494	58427614	-1	q23.1
ENSG00000254109	0.626	1.5433	0.0032	0.0115	RBPMS-AS1	RBPMS antisense	8	30382119	30385401	-1	p12
ENSG00000163536	0.6256	1.5429	0.0052	0.0173	SERPINI1	serpin peptidase protein_co	3	1.68E+08	1.68E+08	1	q26.1
ENSG00000185885	0.625	1.5422	0.0025	0.0092	IFITM1	interferon inducible protein_co	11	313506	315272	1	p15.5
ENSG00000163156	0.6247	1.5419	1.17E-05	8.02E-05	SCNM1	sodium channel protein_co	1	1.51E+08	1.51E+08	1	q21.3
ENSG00000129055	0.6238	1.5409	3.32E-10	6.39E-09	ANAPC13	anaphase promoting complex protein_co	3	1.34E+08	1.34E+08	-1	q22.2
ENSG00000143633	0.623	1.5401	1.87E-05	0.0001	C1orf131	chromosomal protein_co	1	2.31E+08	2.31E+08	-1	q42.2
ENSG00000134574	0.6225	1.5395	8.02E-05	0.0005	DDB2	damage-specific protein_co	11	47214465	47239240	1	p11.2
ENSG00000126226	0.6221	1.5392	1.76E-09	2.82E-08	PCID2	PCI domain protein_co	13	1.13E+08	1.13E+08	-1	q34
ENSG00000172465	0.6222	1.5392	3.78E-05	0.0002	TCEAL1	transcriptomic protein_co X		1.04E+08	1.04E+08	1	q22.2



ENSG00000115875	0.6219	1.5389	2.05E-10	4.13E-09	SRSF7	serine/argi protein_co	2	38743599	38751494	-1	p22.1
ENSG00000163634	0.6217	1.5387	1.73E-09	2.78E-08	THOC7	THO compl protein_co	3	63833870	63863903	-1	p14.1
ENSG00000006015	0.6217	1.5387	2.85E-09	4.42E-08	C19orf60	chromoson protein_co	19	18588685	18592336	1	p13.11
ENSG00000105856	0.6217	1.5387	4.37E-09	6.50E-08	HBP1	HMG-box t protein_co	7	1.07E+08	1.07E+08	1	q22.3
ENSG00000171889	0.6217	1.5387	6.95E-06	5.03E-05	MIR31HG	MIR31 hos: sense_ove	9	21455642	21559669	-1	p21.3
ENSG00000164105	0.6216	1.5386	0.0009	0.004	SAP30	Sin3A-asso protein_co	4	1.73E+08	1.73E+08	1	q34.1
ENSG00000144381	0.621	1.5379	0.0001	0.0006	HSPD1	heat shock protein_co	2	1.97E+08	1.98E+08	-1	q33.1
ENSG00000033170	0.6207	1.5376	0.0001	0.0006	FUT8	fucosyltran protein_co	14	65410592	65744121	1	q23.3
ENSG00000153363	0.6205	1.5375	7.08E-05	0.0004	LINC00467	long interg lincRNA	1	2.11E+08	2.11E+08	1	q32.3
ENSG00000000419	0.6196	1.5364	1.26E-06	1.07E-05	DPM1	dolichyl-ph protein_co	20	50934867	50958555	-1	q13.13
ENSG00000137185	0.6189	1.5357	5.89E-05	0.0003	ZSCAN9	zinc finger protein_co	6	28224886	28233482	1	p22.1
ENSG00000130244	0.6189	1.5357	0.0006	0.0026	FAM98C	family with protein_co	19	38403135	38409088	1	q13.2
ENSG00000142856	0.6189	1.5357	0.005	0.0168	ITGB3BP	integrin be protein_co	1	63440770	63593721	-1	p31.3
ENSG00000115816	0.6187	1.5355	2.93E-08	3.62E-07	CEBPZ	CCAAT/enf protein_co	2	37201612	37231713	-1	p22.2
ENSG00000117262	0.6184	1.5352	0.0015	0.006	GPR89A	G protein-c protein_co	1	1.46E+08	1.46E+08	1	q21.1
ENSG00000176293	0.6183	1.535	0.0161	0.045	ZNF135	zinc finger protein_co	19	58059239	58086310	1	q13.43
ENSG00000136870	0.6175	1.5342	0.002	0.0077	ZNF189	zinc finger protein_co	9	1.01E+08	1.01E+08	1	q31.1
ENSG00000162813	0.6173	1.534	1.89E-06	1.54E-05	BPNT1	3'(2'), 5'-bi: protein_co	1	2.2E+08	2.2E+08	-1	q41
ENSG00000114735	0.6171	1.5338	1.52E-05	0.0001	HEMK1	HemK metl protein_co	3	50569152	50596168	1	p21.31
ENSG00000182185	0.6171	1.5338	0.0052	0.0172	RAD51B	RAD51 par: protein_co	14	67819779	68730218	1	q24.1
ENSG00000136003	0.6169	1.5336	2.99E-09	4.60E-08	ISCU	iron-sulfur protein_co	12	1.09E+08	1.09E+08	1	q23.3
ENSG00000114107	0.6167	1.5334	4.49E-07	4.22E-06	CEP70	centrosom protein_co	3	1.38E+08	1.39E+08	-1	q22.3
ENSG00000029639	0.6168	1.5334	6.23E-07	5.67E-06	TFB1M	transcriptic protein_co	6	1.55E+08	1.55E+08	-1	q25.3
ENSG00000182208	0.6166	1.5332	1.24E-07	1.33E-06	MOB2	MOB kinas protein_co	11	1469457	1501247	-1	p15.5
ENSG00000163938	0.6163	1.5329	4.10E-08	4.93E-07	GNL3	guanine nu protein_co	3	52681156	52694492	1	p21.1
ENSG00000076258	0.616	1.5326	0.0051	0.017	FMO4	flavin cont: protein_co	1	1.71E+08	1.71E+08	1	q24.3
ENSG00000063177	0.6159	1.5325	0.0002	0.0012	RPL18	ribosomal   protein_co	19	48615328	48619536	-1	q13.33
ENSG00000186019	0.6155	1.5321	0.0004	0.0019	AC084219.4	antisense	19	44105463	44113145	-1	q13.31
ENSG00000185420	0.6152	1.5317	1.79E-06	1.46E-05	SMYD3	SET and M <sup>1</sup> protein_co	1	2.46E+08	2.47E+08	-1	q44
ENSG00000025772	0.6151	1.5316	5.89E-09	8.58E-08	TOMM34	translocase protein_co	20	44942130	44960486	-1	q13.12
ENSG00000138381	0.6142	1.5307	7.72E-07	6.90E-06	ASNSD1	asparagine protein_co	2	1.9E+08	1.9E+08	1	q32.2
ENSG00000138279	0.6139	1.5304	4.19E-12	1.22E-10	ANXA7	annexin A7 protein_co	10	73375101	73414076	-1	q22.2
ENSG00000101361	0.6139	1.5304	0.0001	0.0007	NOP56	NOP56 ribc protein_co	20	2652145	2658393	1	p13
ENSG00000180855	0.6129	1.5293	0.0005	0.0021	ZNF443	zinc finger protein_co	19	12429707	12441112	-1	p13.2
ENSG00000147419	0.6125	1.5289	8.84E-08	9.80E-07	CCDC25	coiled-coil   protein_co	8	27733311	27772653	-1	p21.1
ENSG00000176225	0.6122	1.5286	9.58E-08	1.05E-06	RTTN	rotatin [Sor protein_co	18	70003793	70205945	-1	q22.2
ENSG00000085231	0.6122	1.5285	0.0002	0.0008	TAF9	TAF9 RNA   protein_co	5	69350984	69370013	-1	q13.2

ENSG00000159346	0.6119	1.5283	5.55E-12	1.57E-10	ADIPOR1	adiponectin protein_co	1	2.03E+08	2.03E+08	-1	q32.1
ENSG00000161544	0.6115	1.5279	0.0037	0.0129	CYGB	cytoglobin protein_co	17	76527356	76551175	-1	q25.1
ENSG00000125458	0.6115	1.5278	5.50E-05	0.0003	NT5C	5', 3'-nucle protein_co	17	75130225	75131795	-1	q25.1
ENSG00000173141	0.6113	1.5276	9.14E-06	6.44E-05	MRPL57	mitochond protein_co	13	21176645	21179084	1	q12.11
ENSG00000092208	0.6111	1.5274	0.0012	0.005	GEMIN2	gem (nucle protein_co	14	39114223	39136973	1	q21.1
ENSG00000137818	0.6109	1.5272	6.10E-05	0.0004	RPLP1	ribosomal l protein_co	15	69452784	69456194	1	q23
ENSG00000189077	0.6108	1.5271	9.70E-06	6.79E-05	TMEM120A	transmeml protein_co	7	75986837	75994659	-1	q11.23
ENSG00000158716	0.6107	1.527	0.004	0.0139	DUSP23	dual specif protein_co	1	1.6E+08	1.6E+08	1	q23.2
ENSG00000157191	0.6106	1.5269	1.13E-13	4.88E-12	NECAP2	NECAP end protein_co	1	16440672	16460078	1	p36.13
ENSG00000100564	0.6104	1.5267	1.58E-07	1.66E-06	PIGH	phosphatic protein_co	14	67581955	67600287	-1	q24.1
ENSG00000079785	0.6103	1.5266	5.16E-13	1.89E-11	DDX1	DEAD (Asp. protein_co	2	15591178	15631111	1	p24.3
ENSG00000003056	0.61	1.5263	1.96E-11	4.90E-10	M6PR	mannose-6 protein_co	12	8940363	8949955	-1	p13.31
ENSG00000152464	0.6099	1.5262	0.0024	0.0089	RPP38	ribonuclea: protein_co	10	15097180	15139818	1	p13
ENSG00000169087	0.6097	1.5259	4.62E-05	0.0003	HSPBAP1	HSPB (heat protein_co	3	1.23E+08	1.23E+08	-1	q21.1
ENSG00000132199	0.6093	1.5255	2.36E-06	1.87E-05	ENOSF1	enolase su protein_co	18	670324	712676	-1	p11.32
ENSG00000178896	0.609	1.5252	1.49E-06	1.25E-05	EXOSC4	exosome c protein_co	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000009844	0.6087	1.5249	4.10E-10	7.66E-09	VTA1	vesicle (mu protein_co	6	1.42E+08	1.42E+08	1	q24.1
ENSG00000275074	0.6086	1.5248	1.94E-05	0.0001	NUDT18	nudix (nucl protein_co	8	22106872	22109419	-1	p21.3
ENSG00000108559	0.6083	1.5245	5.92E-11	1.34E-09	NUP88	nucleopori protein_co	17	5360963	5420160	-1	p13.2
ENSG00000135241	0.6083	1.5244	6.08E-08	7.00E-07	PNPLA8	patatin-like protein_co	7	1.08E+08	1.09E+08	-1	q31.1
ENSG00000171224	0.6081	1.5242	0.0001	0.0006	C10orf35	chromosom protein_co	10	69630251	69633599	1	q22.1
ENSG00000136155	0.6076	1.5237	0.0015	0.0059	SCEL	sciellin [Soi protein_co	13	77535674	77645263	1	q22.3
ENSG00000109519	0.6073	1.5234	2.32E-12	7.19E-11	GRPEL1	GrpE-like 1 protein_co	4	7058906	7068197	-1	p16.1
ENSG00000100219	0.6068	1.5228	0.0025	0.0092	XBP1	X-box bindi protein_co	22	28794555	28800597	-1	q12.1
ENSG00000187134	0.6065	1.5226	0.0058	0.0191	AKR1C1	aldo-keto r protein_co	10	4963253	5107522	1	p15.1
ENSG00000212978	0.6062	1.5223	1.56E-05	0.0001	AC016747.3	processed_	2	61141592	61144969	-1	p15
ENSG00000169857	0.6062	1.5223	7.20E-05	0.0004	AVEN	apoptosis, protein_co	15	33866227	34039176	-1	q14
ENSG00000163584	0.6061	1.5222	0.0002	0.0011	RPL22L1	ribosomal l protein_co	3	1.71E+08	1.71E+08	-1	q26.2
ENSG00000131966	0.6057	1.5218	2.10E-10	4.23E-09	ACTR10	actin-relate protein_co	14	58200080	58235636	1	q23.1
ENSG00000146066	0.6056	1.5216	9.06E-06	6.39E-05	HIGD2A	HIG1 hypo: protein_co	5	1.76E+08	1.76E+08	1	q35.2
ENSG00000113558	0.6052	1.5212	5.99E-19	9.42E-17	SKP1	S-phase kir protein_co	5	1.34E+08	1.34E+08	-1	q31.1
ENSG00000114115	0.6052	1.5212	0.0015	0.0058	RBP1	retinol binc protein_co	3	1.4E+08	1.4E+08	-1	q23
ENSG00000198406	0.6051	1.5211	0.0038	0.0131	BZW1P2	basic leucir processed_	3	1.17E+08	1.17E+08	-1	q13.31
ENSG00000179965	0.6046	1.5206	0.0047	0.0159	ZNF771	zinc finger protein_co	16	30407297	30429599	1	p11.2
ENSG00000145723	0.6045	1.5205	0.0004	0.0019	GIN1	gypsy retrc protein_co	5	1.03E+08	1.03E+08	-1	q21.1
ENSG00000166681	0.6043	1.5203	1.79E-06	1.46E-05	NGFRAP1	nerve grow protein_co X		1.03E+08	1.03E+08	1	q22.2
ENSG00000167653	0.6037	1.5197	0.0019	0.0072	PSCA	prostate st protein_co	8	1.43E+08	1.43E+08	1	q24.3

ENSG0000067836	0.6037	1.5196	9.55E-07	8.36E-06	ROGDI	rogdi homc protein_co	16	4796968	4802950	-1	p13.3
ENSG00000181804	0.6037	1.5196	0.0009	0.0037	SLC9A9	solute carri protein_co	3	1.43E+08	1.44E+08	-1	q24
ENSG00000214223	0.6035	1.5194	0.0007	0.0032	HNRNPA1P10	heterogenε processed_	19	11666069	11667030	-1	p13.2
ENSG00000124370	0.6033	1.5192	0.0046	0.0155	MCEE	methylmal protein_co	2	71109684	71130239	-1	p13.3
ENSG00000204381	0.6031	1.519	0.0016	0.0063	LAYN	layilin [Sou protein_co	11	1.12E+08	1.12E+08	1	q23.1
ENSG00000213626	0.6031	1.5189	6.83E-05	0.0004	LBH	limb bud ai protein_co	2	30231531	30323730	1	p23.1
ENSG00000151665	0.6029	1.5188	7.03E-07	6.34E-06	PIGF	phosphatic protein_co	2	46580937	46617119	-1	p21
ENSG00000134153	0.6023	1.5182	1.38E-11	3.55E-10	EMC7	ER membrε protein_co	15	34084017	34101948	-1	q14
ENSG00000181924	0.6022	1.518	4.10E-11	9.57E-10	COA4	cytochromε protein_co	11	73872667	73876988	-1	q13.4
ENSG00000149809	0.6019	1.5177	0.0177	0.0487	TM7SF2	transmemt protein_co	11	65111845	65116384	1	q13.1
ENSG00000167526	0.6017	1.5175	0.0007	0.0032	RPL13	ribosomal j protein_co	16	89560657	89566828	1	q24.3
ENSG00000102144	0.6014	1.5172	2.09E-14	1.07E-12	PGK1	phosphoghε protein_co X		78065188	78129296	1	q21.1
ENSG00000100532	0.6013	1.5171	6.72E-05	0.0004	CGRRF1	cell growth protein_co	14	54509812	54539309	1	q22.2
ENSG00000165609	0.6013	1.517	1.15E-06	9.85E-06	NUDT5	nudix (nucl protein_co	10	12165325	12196144	-1	p14
ENSG00000175756	0.6011	1.5169	9.29E-09	1.29E-07	AURKAIP1	aurora kinε protein_co	1	1373730	1375495	-1	p36.33
ENSG00000117614	0.601	1.5168	1.77E-07	1.82E-06	SYF2	SYF2 pre-rε protein_co	1	25222679	25232502	-1	p36.11
ENSG00000171806	0.601	1.5168	0.0002	0.0009	METTL18	methyltran protein_co	1	1.7E+08	1.7E+08	-1	q24.2
ENSG00000128039	0.6007	1.5165	0.0001	0.0008	SRD5A3	steroid 5 al protein_co	4	55346109	55373096	1	q12
ENSG00000176485	0.6008	1.5165	0.0002	0.0011	PLA2G16	phospholip protein_co	11	63573195	63616883	-1	q13.1
ENSG00000158092	0.6006	1.5164	5.26E-05	0.0003	NCK1	NCK adaptε protein_co	3	1.37E+08	1.37E+08	1	q22.3
ENSG00000146109	0.6004	1.5161	1.13E-06	9.73E-06	ABT1	activator oε protein_co	6	26596952	26600744	1	p22.2
ENSG00000141428	0.6003	1.516	0.0001	0.0007	C18orf21	chromoson protein_co	18	35972083	35979286	1	q12.2
ENSG00000074935	0.6003	1.516	0.0012	0.0049	TUBE1	tubulin, ep protein_co	6	1.12E+08	1.12E+08	-1	q21
ENSG00000187193	0.6	1.5158	0.0164	0.0459	MT1X	metallothic protein_co	16	56682424	56684196	1	q13
ENSG00000116161	0.5999	1.5156	6.84E-07	6.18E-06	CACYBP	calcyclin bi protein_co	1	1.75E+08	1.75E+08	1	q25.1
ENSG00000080608	0.5998	1.5155	1.67E-09	2.68E-08	KIAA0020	KIAA0020 [ protein_co	9	2720469	2844241	-1	p24.2
ENSG00000180964	0.5998	1.5155	4.92E-05	0.0003	TCEAL8	transcriptic protein_co X		1.03E+08	1.03E+08	-1	q22.1
ENSG00000177082	0.5996	1.5153	0.0096	0.0291	WDR73	WD repeat protein_co	15	84639281	84654343	-1	q25.2
ENSG00000171566	0.5991	1.5148	6.26E-10	1.12E-08	PLRG1	pleiotropic protein_co	4	1.55E+08	1.55E+08	-1	q31.3
ENSG00000149100	0.5988	1.5145	9.47E-07	8.30E-06	EIF3M	eukaryotic protein_co	11	32583798	32606262	1	p13
ENSG00000109536	0.5988	1.5144	2.72E-05	0.0002	FRG1	FSHD regio protein_co	4	1.9E+08	1.9E+08	1	q35.2
ENSG00000177156	0.5986	1.5142	7.30E-11	1.62E-09	TALDO1	transaldola protein_co	11	747329	765024	1	p15.5
ENSG00000182973	0.5986	1.5142	0.0006	0.0025	CNOT10	CCR4-NOT protein_co	3	32685145	32773875	1	p22.3
ENSG00000147677	0.5984	1.5141	4.42E-07	4.16E-06	EIF3H	eukaryotic protein_co	8	1.17E+08	1.17E+08	-1	q24.11
ENSG00000197050	0.5984	1.514	9.25E-05	0.0005	ZNF420	zinc finger protein_co	19	37007857	37130314	1	q13.12
ENSG00000173692	0.5983	1.5139	1.68E-21	6.21E-19	PSMD1	proteasom protein_co	2	2.31E+08	2.31E+08	1	q37.1
ENSG00000120725	0.5983	1.5139	1.02E-10	2.21E-09	SIL1	SIL1 nuclec protein_co	5	1.39E+08	1.39E+08	-1	q31.2

ENSG00000107625	0.5982	1.5138	2.00E-06	1.61E-05	DDX50	DEAD (Asp- protein_co	10	68901278	68946847	1	q22.1
ENSG00000148290	0.5973	1.5129	1.92E-07	1.97E-06	SURF1	surfeit 1 [S protein_co	9	1.33E+08	1.33E+08	-1	q34.2
ENSG00000205302	0.5972	1.5128	2.73E-12	8.36E-11	SNX2	sorting nex protein_co	5	1.23E+08	1.23E+08	1	q23.2
ENSG00000198431	0.597	1.5126	1.92E-06	1.56E-05	TXNRD1	thioredoxin protein_co	12	1.04E+08	1.04E+08	1	q23.3
ENSG00000064102	0.5967	1.5123	3.17E-12	9.59E-11	ASUN	asunder sp protein_co	12	26905181	26938326	-1	p11.23
ENSG00000189343	0.5963	1.5118	0.0013	0.0054	RPS2P46	ribosomal  processed_	17	19445970	19446852	-1	p11.2
ENSG00000163159	0.5961	1.5116	8.48E-10	1.46E-08	VPS72	vacuolar pr protein_co	1	1.51E+08	1.51E+08	-1	q21.3
ENSG00000115841	0.5959	1.5114	7.32E-05	0.0004	RMDN2	regulator o protein_co	2	37923187	38067142	1	p22.2
ENSG00000138385	0.5956	1.5111	8.45E-05	0.0005	SSB	Sjogren syr protein_co	2	1.7E+08	1.7E+08	1	q31.1
ENSG00000267106	0.5956	1.5111	0.0003	0.0014	ZNF561-AS1	ZNF561 an processed_	19	9621291	9645896	1	p13.2
ENSG00000125352	0.5955	1.511	1.58E-05	0.0001	RNF113A	ring finger protein_co X		1.2E+08	1.2E+08	-1	q24
ENSG00000185813	0.5953	1.5108	0.0014	0.0056	PCYT2	phosphate protein_co	17	81900965	81911464	-1	q25.3
ENSG00000065518	0.5953	1.5107	8.83E-08	9.80E-07	NDUFB4	NADH dehy protein_co	3	1.21E+08	1.21E+08	1	q13.33
ENSG00000173113	0.5947	1.5102	3.94E-09	5.91E-08	TRMT112	tRNA meth protein_co	11	64316460	64318084	-1	q13.1
ENSG00000181038	0.5947	1.5102	8.87E-07	7.82E-06	METTL23	methyltran protein_co	17	76726830	76733936	1	q25.1
ENSG00000143420	0.5946	1.5101	3.05E-08	3.74E-07	ENSA	endosulfina protein_co	1	1.51E+08	1.51E+08	-1	q21.3
ENSG00000059691	0.5944	1.5099	5.17E-06	3.83E-05	GATB	glutamyl-tf protein_co	4	1.52E+08	1.52E+08	-1	q31.3
ENSG00000226950	0.5934	1.5088	0.0001	0.0006	DANCR	differential processed_	4	52712404	52720351	1	q12
ENSG00000165678	0.5933	1.5087	4.79E-10	8.80E-09	GHITM	growth hor protein_co	10	84139429	84153555	1	q23.1
ENSG00000120805	0.5931	1.5084	1.23E-08	1.65E-07	ARL1	ADP-ribosy protein_co	12	1.01E+08	1.01E+08	-1	q23.2
ENSG00000165806	0.5928	1.5082	2.37E-09	3.72E-08	CASP7	caspase 7, protein_co	10	1.14E+08	1.14E+08	1	q25.3
ENSG00000070010	0.5928	1.5081	1.98E-08	2.53E-07	UFD1L	ubiquitin fu protein_co	22	19449910	19479215	-1	q11.21
ENSG00000077380	0.5925	1.5079	2.98E-12	9.05E-11	DYNC112	dynein, cyt protein_co	2	1.72E+08	1.72E+08	1	q31.1
ENSG00000223547	0.5925	1.5079	4.92E-06	3.65E-05	ZNF844	zinc finger protein_co	19	12064699	12081565	1	p13.2
ENSG00000100138	0.5918	1.5072	5.76E-09	8.41E-08	NHP2L1	NHP2 non- protein_co	22	41673930	41690504	-1	q13.2
ENSG00000196437	0.5917	1.507	0.0061	0.0198	ZNF569	zinc finger protein_co	19	37411155	37469275	-1	q13.12
ENSG00000163002	0.5915	1.5068	1.95E-06	1.58E-05	NUP35	nucleoporin protein_co	2	1.83E+08	1.83E+08	1	q32.1
ENSG00000124508	0.5906	1.5059	0.002	0.0077	BTN2A2	butyrophili protein_co	6	26383096	26394874	1	p22.2
ENSG00000213593	0.5904	1.5056	7.76E-14	3.44E-12	TMX2	thioredoxin protein_co	11	57712600	57740973	1	q12.1
ENSG00000028203	0.5898	1.5051	2.09E-05	0.0001	VEZT	vezatin, ad protein_co	12	95217746	95302790	1	q22
ENSG00000164967	0.5896	1.5049	0.001	0.0041	RPP25L	ribonuclea: protein_co	9	34610486	34612104	-1	p13.3
ENSG00000137720	0.5895	1.5048	0.0016	0.0063	C11orf1	chromoson protein_co	11	1.12E+08	1.12E+08	1	q23.1
ENSG00000170791	0.5895	1.5047	9.88E-05	0.0005	CHCHD7	coiled-coil- protein_co	8	56211686	56218798	1	q12.1
ENSG00000156253	0.5894	1.5046	1.11E-09	1.86E-08	RWDD2B	RWD doma protein_co	21	29004384	29019378	-1	q21.3
ENSG00000074071	0.5894	1.5046	1.63E-07	1.70E-06	MRPS34	mitochond protein_co	16	1771890	1773155	-1	p13.3
ENSG00000163882	0.5893	1.5045	7.17E-10	1.26E-08	POLR2H	polymeras protein_co	3	1.84E+08	1.84E+08	1	q27.1
ENSG00000149932	0.5892	1.5044	1.28E-14	7.01E-13	TMEM219	transmemt protein_co	16	29940885	29973052	1	p11.2

ENSG00000134333	0.589	1.5042	1.76E-06	1.45E-05	LDHA	lactate dehydrogenase protein	11	18394388	18408425	1	p15.1
ENSG00000117395	0.589	1.5042	2.21E-05	0.0001	EBNA1BP2	EBNA1 binding protein	1	43164175	43270936	-1	p34.2
ENSG00000139410	0.589	1.5042	0.0005	0.0024	SDSL	serine dehydratase protein	12	1.13E+08	1.13E+08	1	q24.13
ENSG00000148484	0.5885	1.5037	9.71E-07	8.49E-06	RSU1	Ras suppressor protein	10	16590611	16817528	-1	p13
ENSG00000132196	0.5884	1.5036	8.94E-07	7.88E-06	HSD17B7	hydroxysteroid oxidase protein	1	1.63E+08	1.63E+08	1	q23.3
ENSG00000120675	0.588	1.5032	1.22E-09	2.04E-08	DNAJC15	DnaJ (Hsp40) protein	13	43023203	43114224	1	q14.11
ENSG00000268516	0.5877	1.5028	0.016	0.0448	CTD-3138B18.5	antisense	19	58257270	58278808	-1	q13.43
ENSG00000205220	0.5872	1.5023	2.16E-07	2.19E-06	PSMB10	proteasome protein	16	67934502	67937087	-1	q22.1
ENSG00000180257	0.5872	1.5023	8.87E-06	6.27E-05	ZNF816	zinc finger protein	19	52949379	52962911	-1	q13.41
ENSG00000090520	0.587	1.5021	4.40E-10	8.14E-09	DNAJB11	DnaJ (Hsp40) protein	3	1.87E+08	1.87E+08	1	q27.3
ENSG00000124588	0.5869	1.502	0.0033	0.0116	NQO2	NAD(P)H dehydrogenase protein	6	2987987	3028869	1	p25.2
ENSG00000123975	0.5868	1.5019	0.0002	0.0011	CKS2	CDC28 protein	9	89311198	89316703	1	q22.2
ENSG00000267809	0.5864	1.5015	0.0071	0.0225	NDUFV2P1	NADH dehydrogenase processed	19	53223973	53224879	-1	q13.42
ENSG00000103260	0.586	1.501	1.15E-05	7.92E-05	METRNL	meteorin, like protein	16	715115	719655	1	p13.3
ENSG00000197579	0.5849	1.4999	9.44E-08	1.04E-06	TOPORS	topoisomerase protein	9	32540544	32552553	-1	p21.1
ENSG00000136122	0.5847	1.4998	0.0012	0.0049	BORA	bora, aurora kinase protein	13	72727749	72756198	1	q21.33
ENSG00000089123	0.5848	1.4998	0.0023	0.0087	TASP1	taspase, thymosin protein	20	13389392	13638940	-1	p12.1
ENSG00000022277	0.5845	1.4995	3.65E-15	2.23E-13	RTFDC1	replication fork protein	20	56468585	56519449	1	q13.31
ENSG00000151353	0.5844	1.4994	0.0003	0.0013	TMEM18	transmembrane protein	2	667335	677439	-1	p25.3
ENSG00000109270	0.5843	1.4993	8.34E-07	7.40E-06	LAMTOR3	late endosome protein	4	99878336	99894490	-1	q23
ENSG00000108406	0.5842	1.4992	0.0002	0.0011	DHX40	DEAH (Asp) protein	17	59565525	59608345	1	q23.1
ENSG00000116691	0.584	1.499	9.34E-05	0.0005	MIIP	migration inhibitory protein	1	12019466	12032045	1	p36.22
ENSG00000144182	0.584	1.499	0.0003	0.0014	LIPT1	lipoyltransferase protein	2	99154955	99163157	1	q11.2
ENSG00000126457	0.5839	1.4988	5.65E-14	2.63E-12	PRMT1	protein arginase protein	19	49675786	49689029	1	q13.33
ENSG00000013563	0.5836	1.4986	9.40E-07	8.25E-06	DNASE1L1	deoxyribose polymerase protein		1.54E+08	1.54E+08	-1	q28
ENSG00000122882	0.5835	1.4985	1.45E-13	6.12E-12	ECD	ecdysoneless protein	10	73130155	73169055	-1	q22.2
ENSG00000155463	0.5836	1.4985	5.26E-06	3.89E-05	OXA1L	oxidase (cytochrome) protein	14	22766522	22773041	1	q11.2
ENSG00000186166	0.5835	1.4985	0.0046	0.0155	CCDC84	coiled-coil domain protein	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000091947	0.5832	1.4982	8.55E-05	0.0005	TMEM101	transmembrane protein	17	44011188	44023946	-1	q21.31
ENSG00000183978	0.583	1.4979	0.0002	0.0009	COA3	cytochrome protein	17	42795147	42798704	-1	q21.2
ENSG00000131779	0.5829	1.4978	4.64E-11	1.07E-09	PEX11B	peroxisomal protein	1	1.46E+08	1.46E+08	-1	q21.1
ENSG00000115425	0.5828	1.4978	0.011	0.0327	PECR	peroxisomal protein	2	2.16E+08	2.16E+08	-1	q35
ENSG00000054116	0.5824	1.4973	5.71E-11	1.29E-09	TRAPPC3	trafficking protein	1	36136570	36156053	-1	p34.3
ENSG00000101464	0.5823	1.4972	7.19E-09	1.03E-07	PIGU	phosphatidylinositol protein	20	34560542	34677090	-1	q11.22
ENSG00000091513	0.5822	1.4972	0.0169	0.0469	TF	transferrin	3	1.34E+08	1.34E+08	1	q22.1
ENSG00000152904	0.5817	1.4966	2.34E-14	1.19E-12	GGPS1	geranylgeranyl protein	1	2.35E+08	2.35E+08	1	q42.3
ENSG00000135446	0.5813	1.4962	8.73E-07	7.71E-06	CDK4	cyclin-dependent protein	12	57747727	57756013	-1	q14.1



ENSG00000060971	0.5809	1.4958	5.77E-06	4.23E-05	ACAA1	acetyl-CoA protein_co	3	38103129	38137242	-1	p22.2
ENSG00000127445	0.5809	1.4958	1.20E-05	8.22E-05	PIN1	peptidylproteasome protein_co	19	9835257	9849682	1	p13.2
ENSG00000118246	0.5808	1.4957	6.64E-08	7.59E-07	FASTKD2	FAST kinase protein_co	2	2.07E+08	2.07E+08	1	q33.3
ENSG00000142684	0.5802	1.495	6.69E-05	0.0004	ZNF593	zinc finger protein_co	1	26169871	26172060	1	p36.11
ENSG00000137100	0.58	1.4949	6.84E-08	7.80E-07	DCTN3	dynactin 3 protein_co	9	34613545	34620523	-1	p13.3
ENSG00000135698	0.5791	1.4939	8.04E-06	5.73E-05	MPHOSPH6	M-phase phosphoprotein_co	16	82147798	82170226	-1	q23.3
ENSG00000155438	0.5786	1.4934	1.61E-05	0.0001	NIFK	nucleolar phosphoprotein_co	2	1.22E+08	1.22E+08	-1	q14.3
ENSG00000092199	0.5781	1.4929	2.12E-08	2.69E-07	HNRNPC	heterogeneous nuclear ribonucleoprotein_co	14	21209136	21269494	-1	q11.2
ENSG00000175536	0.5781	1.4929	0.0099	0.03	LIPT2	lipoyltransferase protein_co	11	74491712	74493733	-1	q13.4
ENSG00000104497	0.5777	1.4924	0.0005	0.0023	SNX16	sorting nexin protein_co	8	81799581	81842866	-1	q21.13
ENSG00000111907	0.5776	1.4924	0.0028	0.0102	TPD52L1	tumor protein 52 protein_co	6	1.25E+08	1.25E+08	1	q22.31
ENSG00000138621	0.5775	1.4922	8.35E-05	0.0005	PPCDC	phosphoprotein_co	15	75023555	75117462	1	q24.2
ENSG00000136867	0.5774	1.4922	0.0079	0.0246	SLC31A2	solute carrier protein_co	9	1.13E+08	1.13E+08	1	q32
ENSG00000148572	0.5773	1.4921	5.86E-10	1.06E-08	NRBF2	nuclear receptor protein_co	10	63133247	63155031	1	q21.3
ENSG00000038002	0.5772	1.492	8.67E-05	0.0005	AGA	aspartylglucosylase protein_co	4	1.77E+08	1.77E+08	-1	q34.3
ENSG00000109390	0.577	1.4918	0.0003	0.0015	NDUFC1	NADH dehydrogenase protein_co	4	1.39E+08	1.39E+08	-1	q31.1
ENSG00000160783	0.5765	1.4912	0.0006	0.0027	PMF1	polyamine oxidase protein_co	1	1.56E+08	1.56E+08	1	q22
ENSG00000108786	0.5763	1.491	0.0088	0.0272	HSD17B1	hydroxysteroid oxidase protein_co	17	42549214	42555213	1	q21.2
ENSG00000234745	0.5761	1.4908	0.0031	0.0111	HLA-B	major histocompatibility protein_co	6	31353872	31357188	-1	p21.33
ENSG00000108039	0.5759	1.4906	2.66E-10	5.23E-09	XPNPPE1	X-prolyl aminopeptidase protein_co	10	1.1E+08	1.1E+08	-1	q25.1
ENSG00000079246	0.5758	1.4905	1.55E-10	3.20E-09	XRCC5	X-ray repair protein_co	2	2.16E+08	2.16E+08	1	q35
ENSG00000135521	0.5758	1.4905	7.85E-06	5.61E-05	LTV1	LTV1 ribosome protein_co	6	1.44E+08	1.44E+08	1	q24.2
ENSG00000166526	0.5756	1.4903	0.0035	0.0122	ZNF3	zinc finger protein_co	7	1E+08	1E+08	-1	q22.1
ENSG00000122406	0.5755	1.4902	0.0003	0.0014	RPL5	ribosomal protein_co	1	92832025	92841924	1	p22.1
ENSG00000164610	0.5747	1.4894	0.0003	0.0014	RP9	retinitis pigmentosa protein_co	7	33094797	33109401	-1	p14.3
ENSG00000160213	0.5746	1.4893	4.42E-25	3.62E-22	CSTB	cystatin B (protein_co	21	43772512	43776445	-1	q22.3
ENSG00000167447	0.5746	1.4893	2.51E-08	3.14E-07	SMG8	SMG8 non-specific protein_co	17	59209400	59215247	1	q22
ENSG00000118418	0.5746	1.4893	0.0057	0.0187	HMGN3	high mobility group protein_co	6	79201245	79234738	-1	q14.1
ENSG00000253671	0.5745	1.4891	0.0181	0.0497	RP11-806O11.1	processed_transcript	8	17808941	17820868	1	p22
ENSG00000131043	0.5744	1.489	2.96E-09	4.56E-08	AAR2	AAR2 spliceosome protein_co	20	36236459	36270918	1	q11.23
ENSG00000172663	0.5743	1.489	1.46E-05	9.79E-05	TMEM134	transmembrane protein_co	11	67461710	67469272	-1	q13.2
ENSG00000122644	0.5741	1.4888	0.0002	0.0009	ARL4A	ADP-ribosyltransferase protein_co	7	12686856	12690934	1	p21.3
ENSG00000125835	0.5741	1.4887	1.44E-09	2.35E-08	SNRNPB	small nuclear ribonucleoprotein_co	20	2461634	2470853	-1	p13
ENSG00000251152	0.5737	1.4883	0.0096	0.0292	RP11-281P23.1	lincRNA	4	11469250	11478196	1	p15.33
ENSG00000170445	0.5734	1.4881	2.82E-14	1.41E-12	HARS	histidyl-tRNA synthetase protein_co	5	1.41E+08	1.41E+08	-1	q31.3
ENSG00000134058	0.5733	1.4879	0.0002	0.001	CDK7	cyclin-dependent kinase protein_co	5	69234841	69277430	1	q13.2
ENSG00000109919	0.5732	1.4878	1.90E-14	9.91E-13	MTCH2	mitochondrial protein_co	11	47617315	47642623	-1	p11.2

ENSG00000256229	0.5729	1.4875	0.0173	0.0479	ZNF486	zinc finger protein_co	19	20167228	20200490	1	p12
ENSG00000147654	0.5728	1.4874	4.87E-05	0.0003	EBAG9	estrogen receptor protein_co	8	1.1E+08	1.1E+08	1	q23.2
ENSG00000155868	0.5727	1.4873	1.45E-07	1.54E-06	MED7	mediator complex protein_co	5	1.57E+08	1.57E+08	-1	q33.3
ENSG00000140990	0.5723	1.4869	3.91E-09	5.88E-08	NDUFB10	NADH dehydrogenase protein_co	16	1959508	1961975	1	p13.3
ENSG00000146386	0.5718	1.4864	1.46E-06	1.22E-05	ABRACL	ABRA C-terminal protein_co	6	1.39E+08	1.39E+08	1	q24.1
ENSG00000103152	0.5714	1.486	5.38E-07	4.97E-06	MPG	N-methylprotein_co	16	77007	85853	1	p13.3
ENSG00000144048	0.5714	1.486	1.11E-06	9.60E-06	DUSP11	dual specific protein_co	2	73762184	73780157	-1	p13.1
ENSG00000253738	0.5712	1.4858	1.30E-06	1.10E-05	OTUD6B-AS1	OTUD6B antisense	8	91059909	91070189	-1	q21.3
ENSG00000141179	0.571	1.4856	2.20E-07	2.22E-06	PCTP	phosphatidyl protein_co	17	55750979	55842830	1	q22
ENSG00000164032	0.5708	1.4854	6.58E-05	0.0004	H2AFZ	H2A histone protein_co	4	99948086	99950388	-1	q23
ENSG00000173545	0.5706	1.4851	2.03E-12	6.42E-11	ZNF622	zinc finger protein_co	5	16451519	16465792	-1	p15.1
ENSG00000110768	0.5703	1.4849	1.89E-10	3.83E-09	GTF2H1	general transcription protein_co	11	18322295	18367044	1	p15.1
ENSG00000118705	0.5701	1.4846	1.24E-05	8.44E-05	RPN2	ribophorin protein_co	20	37178410	37241623	1	q11.23
ENSG00000119326	0.5701	1.4846	0.0013	0.0053	CTNNAL1	catenin (cadherin protein_co	9	1.09E+08	1.09E+08	-1	q31.3
ENSG00000102898	0.57	1.4845	7.23E-09	1.04E-07	NUTF2	nuclear transcription protein_co	16	67846732	67872567	1	q22.1
ENSG00000256053	0.5697	1.4842	2.50E-06	1.97E-05	APOPT1	apoptogen protein_co	14	1.04E+08	1.04E+08	1	q32.33
ENSG00000102316	0.5696	1.4841	2.68E-08	3.33E-07	MAGED2	melanoma protein_co X		54807599	54816012	1	p11.21
ENSG00000151445	0.569	1.4835	7.94E-11	1.74E-09	VIPAS39	VPS33B interactor protein_co	14	77426675	77457952	-1	q24.3
ENSG00000076043	0.5688	1.4833	8.87E-05	0.0005	REXO2	RNA exonuclease protein_co	11	1.14E+08	1.14E+08	1	q23.2
ENSG00000102796	0.5682	1.4826	0.0001	0.0007	DHRS12	dehydrogenase protein_co	13	51767993	51804157	-1	q14.3
ENSG00000100348	0.5679	1.4824	5.24E-07	4.85E-06	TXN2	thioredoxin protein_co	22	36467036	36482030	-1	q12.3
ENSG00000122884	0.5678	1.4823	2.09E-05	0.0001	P4HA1	prolyl 4-hydroxylase protein_co	10	73007217	73096974	-1	q22.1
ENSG00000158417	0.5677	1.4822	2.90E-16	2.33E-14	EIF5B	eukaryotic protein_co	2	99337353	99401326	1	q11.2
ENSG00000136143	0.5675	1.482	3.36E-10	6.44E-09	SUCLA2	succinate-CoA ligase protein_co	13	47936487	48001326	-1	q14.2
ENSG00000062716	0.5676	1.482	0.0101	0.0304	VMP1	vacuole membrane protein_co	17	59707192	59842255	1	q23.1
ENSG00000143252	0.5674	1.4818	8.41E-06	5.97E-05	SDHC	succinate dehydrogenase protein_co	1	1.61E+08	1.61E+08	1	q23.3
ENSG0000013441	0.5674	1.4818	0.0019	0.0074	CLK1	CDC-like kinase protein_co	2	2.01E+08	2.01E+08	-1	q33.1
ENSG00000005801	0.5671	1.4816	0.0004	0.0019	ZNF195	zinc finger protein_co	11	3339261	3379222	-1	p15.4
ENSG00000196981	0.567	1.4814	0.0012	0.0048	WDR5B	WD repeat protein_co	3	1.22E+08	1.22E+08	-1	q21.1
ENSG00000164294	0.5666	1.4811	0.0067	0.0214	GPX8	glutathione peroxidase protein_co	5	55160118	55167071	1	q11.2
ENSG00000221988	0.5666	1.481	0.0051	0.0171	PPT2	palmitoyl-protein_co	6	32153441	32163680	1	p21.32
ENSG00000129083	0.5664	1.4809	2.57E-10	5.07E-09	COPB1	coatamer protein_co	11	14443440	14500027	-1	p15.2
ENSG00000266412	0.5663	1.4807	7.03E-06	5.08E-05	NCOA4	nuclear receptor protein_co	10	46005088	46030714	-1	q11.22
ENSG00000114383	0.5658	1.4802	6.09E-06	4.46E-05	TUSC2	tumor suppressor protein_co	3	50320027	50328251	-1	p21.31
ENSG00000251022	0.565	1.4794	5.47E-06	4.03E-05	THAP9-AS1	THAP9 antisense	4	82893009	82900960	-1	q21.22
ENSG00000104177	0.565	1.4794	0.0156	0.0441	MYEF2	myelin expansion protein_co	15	48134631	48178517	-1	q21.1
ENSG00000172965	0.5648	1.4792	0.0003	0.0016	MIR4435-1HG	MIR4435-1 lincRNA	2	1.11E+08	1.11E+08	-1	q13

ENSG00000072849	0.5646	1.479	9.51E-07	8.33E-06	DERL2	derlin 2 [Sc protein_co	17	5471251	5486811	-1	p13.2
ENSG00000112339	0.5645	1.4789	1.75E-10	3.56E-09	HBS1L	HBS1-like t protein_co	6	1.35E+08	1.35E+08	-1	q23.3
ENSG00000130021	0.5641	1.4785	0.0096	0.0291	HDHD1	haloacid deprotein_co X		7048920	7148190	-1	p22.31
ENSG00000105404	0.5641	1.4784	7.05E-06	5.09E-05	RABAC1	Rab accept protein_co	19	41956681	41959390	-1	q13.2
ENSG00000064115	0.5637	1.478	0.001	0.004	TM7SF3	transmemt protein_co	12	26973195	27014434	-1	p11.23
ENSG00000214087	0.5628	1.4772	0.0001	0.0006	ARL16	ADP-ribosy protein_co	17	81681174	81683924	-1	q25.3
ENSG00000105854	0.5629	1.4772	0.0032	0.0115	PON2	paraoxona: protein_co	7	95404867	95435198	-1	q21.3
ENSG00000146282	0.5625	1.4768	1.21E-09	2.02E-08	RARS2	arginyl-tRN protein_co	6	87514378	87590003	-1	q15
ENSG00000072682	0.5621	1.4765	0.0009	0.0039	P4HA2	prolyl 4-hy protein_co	5	1.32E+08	1.32E+08	-1	q31.1
ENSG00000088205	0.5621	1.4764	8.97E-12	2.42E-10	DDX18	DEAD (Asp- protein_co	2	1.18E+08	1.18E+08	1	q14.1
ENSG00000168904	0.5621	1.4764	5.52E-06	4.07E-05	LRRC28	leucine rich protein_co	15	99251362	99390729	1	q26.3
ENSG00000179958	0.5617	1.476	6.45E-08	7.38E-07	DCTPP1	dCTP pyroç protein_co	16	30423619	30430075	-1	p11.2
ENSG00000119041	0.5615	1.4758	3.93E-06	2.98E-05	GTF3C3	general tra protein_co	2	1.97E+08	1.97E+08	-1	q33.1
ENSG00000113593	0.5614	1.4757	6.94E-08	7.89E-07	PPWD1	peptidylprc protein_co	5	65563236	65587549	1	q12.3
ENSG00000175354	0.5608	1.4751	4.14E-05	0.0002	PTPN2	protein tyr protein_co	18	12785478	12929643	-1	p11.21
ENSG00000164221	0.5605	1.4747	0.0004	0.002	CCDC112	coiled-coil protein_co	5	1.15E+08	1.15E+08	-1	q22.3
ENSG00000183401	0.5599	1.4742	0.0002	0.0008	CCDC159	coiled-coil protein_co	19	11344684	11354944	1	p13.2
ENSG00000156603	0.5597	1.474	4.79E-05	0.0003	MED19	mediator c protein_co	11	57703714	57712221	-1	q12.1
ENSG00000084092	0.5595	1.4738	0.0035	0.0124	NOA1	nitric oxide protein_co	4	56963370	56978823	-1	q12
ENSG00000083814	0.5593	1.4736	0.0004	0.0018	ZNF671	zinc finger protein_co	19	57719751	57727624	-1	q13.43
ENSG00000168439	0.5585	1.4727	1.50E-09	2.43E-08	STIP1	stress-indu protein_co	11	64185272	64204543	1	q13.1
ENSG00000197044	0.5584	1.4726	1.06E-05	7.37E-05	ZNF441	zinc finger protein_co	19	11767000	11784078	1	p13.2
ENSG00000111832	0.5581	1.4723	5.06E-06	3.75E-05	RWDD1	RWD doma protein_co	6	1.17E+08	1.17E+08	1	q22.1
ENSG00000001561	0.558	1.4723	0.0072	0.0228	ENPP4	ectonucleo protein_co	6	46129993	46146699	1	p21.1
ENSG00000204619	0.5576	1.4718	1.11E-09	1.87E-08	PPP1R11	protein ph protein_co	6	30066709	30070333	1	p22.1
ENSG00000168899	0.5571	1.4713	0.0078	0.0243	VAMP5	vesicle-assi protein_co	2	85584408	85593412	1	p11.2
ENSG00000157426	0.5568	1.471	1.78E-06	1.46E-05	AASDH	aminoadip: protein_co	4	56338287	56387508	-1	q12
ENSG00000114779	0.5568	1.471	0.0065	0.0209	ABHD14B	abhydrolas protein_co	3	51968510	51983409	-1	p21.2
ENSG00000198818	0.5567	1.4709	4.46E-08	5.31E-07	SFT2D1	SFT2 doma protein_co	6	1.66E+08	1.66E+08	-1	q27
ENSG00000137648	0.5567	1.4709	0.0003	0.0016	TMPRSS4	transmemt protein_co	11	1.18E+08	1.18E+08	1	q23.3
ENSG00000188313	0.5562	1.4704	1.60E-07	1.67E-06	PLSCR1	phospholip protein_co	3	1.47E+08	1.47E+08	-1	q24
ENSG0000012061	0.5562	1.4703	0.0035	0.0122	ERCC1	excision re protein_co	19	45407333	45478828	-1	q13.32
ENSG00000233223	0.5561	1.4703	0.0076	0.0238	AC113189.5	antisense	17	7581964	7584072	-1	p13.1
ENSG00000178913	0.556	1.4702	3.10E-10	6.02E-09	TAF7	TAF7 RNA protein_co	5	1.41E+08	1.41E+08	-1	q31.3
ENSG00000058729	0.5553	1.4695	1.32E-06	1.11E-05	RIOK2	RIO kinase protein_co	5	97160867	97183260	-1	q15
ENSG00000187815	0.5553	1.4695	0.0151	0.0428	ZFP69	ZFP69 zinc protein_co	1	40477215	40496343	1	p34.2
ENSG00000121931	0.5552	1.4693	1.83E-08	2.35E-07	LRIF1	ligand dep protein_co	1	1.11E+08	1.11E+08	-1	p13.3

ENSG00000100442	0.5549	1.4691	5.00E-08	5.87E-07 FKBP3	FK506 bind protein_co	14	45115600	45135319	-1 q21.2
ENSG00000057663	0.5549	1.4691	2.91E-07	2.85E-06 ATG5	autophagy protein_co	6	1.06E+08	1.06E+08	-1 q21
ENSG00000259153	0.5549	1.469	0.0145	0.0415 RP6-65G23.3	lincRNA	14	70810205	70815403	1 q24.2
ENSG00000102882	0.5546	1.4688	8.94E-09	1.25E-07 MAPK3	mitogen-ac protein_co	16	30114105	30123506	-1 p11.2
ENSG00000163481	0.5543	1.4684	7.67E-08	8.65E-07 RNF25	ring finger protein_co	2	2.19E+08	2.19E+08	-1 q35
ENSG00000175193	0.5542	1.4683	5.02E-08	5.89E-07 PARL	presenilin 1 protein_co	3	1.84E+08	1.84E+08	-1 q27.1
ENSG00000104325	0.5542	1.4683	1.73E-06	1.42E-05 DECR1	2,4-dienoyl protein_co	8	90001405	90052092	1 q21.3
ENSG00000107201	0.5541	1.4683	0.0012	0.0049 DDX58	DEAD (Asp) protein_co	9	32455705	32526324	-1 p21.1
ENSG00000158717	0.554	1.4681	0.0002	0.0008 RNF166	ring finger protein_co	16	88696495	88706421	-1 q24.3
ENSG00000128513	0.5539	1.468	0.0003	0.0016 POT1	protection protein_co	7	1.25E+08	1.25E+08	-1 q31.33
ENSG00000140740	0.5531	1.4672	1.06E-05	7.37E-05 UQCRC2	ubiquinol-c protein_co	16	21952660	21983660	1 p12.2
ENSG00000169288	0.5531	1.4672	0.0001	0.0006 MRPL1	mitochond protein_co	4	77862520	77952790	1 q21.1
ENSG00000236039	0.5529	1.467	0.0015	0.006 AC019117.2	lincRNA	7	17434477	17460672	-1 p21.1
ENSG00000136628	0.5527	1.4669	9.63E-08	1.06E-06 EPRS	glutamyl-p protein_co	1	2.2E+08	2.2E+08	-1 q41
ENSG00000136943	0.5523	1.4664	0.0099	0.03 CTSV	cathepsin \ protein_co	9	97029679	97039643	-1 q22.33
ENSG00000223804	0.5522	1.4663	0.0071	0.0227 CH17-472G23.2	transcribec	1	1.2E+08	1.2E+08	-1 p12
ENSG00000162927	0.552	1.4662	0.0003	0.0016 PUS10	pseudouric protein_co	2	60940222	61018259	-1 p15
ENSG00000188643	0.5516	1.4657	2.49E-10	4.94E-09 S100A16	S100 calciu protein_co	1	1.54E+08	1.54E+08	-1 q21.3
ENSG00000109738	0.5512	1.4653	0.0095	0.0288 GLRB	glycine rec protein_co	4	1.57E+08	1.57E+08	1 q32.1
ENSG00000184719	0.5511	1.4652	0.003	0.0108 RNLS	renalase, F. protein_co	10	88273864	88584530	-1 q23.31
ENSG00000132664	0.5511	1.4652	0.0053	0.0175 POLR3F	polymeras protein_co	20	18467127	18484643	1 p11.23
ENSG00000157869	0.551	1.4651	8.20E-05	0.0005 RAB28	RAB28, me protein_co	4	13361354	13484365	-1 p15.33
ENSG00000140006	0.551	1.4651	0.0003	0.0015 WDR89	WD repeat protein_co	14	63597039	63641861	-1 q23.2
ENSG00000204568	0.5509	1.465	1.28E-05	8.69E-05 MRPS18B	mitochond protein_co	6	30617709	30626395	1 p21.33
ENSG00000034533	0.5507	1.4648	0.0003	0.0016 ASTE1	asteroid hc protein_co	3	1.31E+08	1.31E+08	-1 q22.1
ENSG00000186162	0.5504	1.4645	0.0032	0.0113 CIDECP	cell death-i transcribec	3	10014238	10026365	-1 p25.3
ENSG00000133104	0.5501	1.4642	8.23E-09	1.16E-07 SPG20	spastic par. protein_co	13	36301638	36370180	-1 q13.3
ENSG00000124767	0.55	1.4641	1.43E-06	1.20E-05 GLO1	glyoxalase protein_co	6	38675925	38703141	-1 p21.2
ENSG00000205659	0.5498	1.4639	0.0005	0.0023 LIN52	lin-52 DRE/ protein_co	14	74084796	74201235	1 q24.3
ENSG00000120265	0.5497	1.4638	7.53E-09	1.07E-07 PCMT1	protein-L-is: protein_co	6	1.5E+08	1.5E+08	1 q25.1
ENSG00000169612	0.5496	1.4637	3.55E-08	4.32E-07 FAM103A1	family with protein_co	15	82986207	82991057	1 q25.2
ENSG00000177576	0.5489	1.463	3.74E-05	0.0002 C18orf32	chromoson protein_co	18	49477250	49492565	-1 q21.1
ENSG00000055147	0.5489	1.4629	1.14E-05	7.87E-05 FAM114A2	family with protein_co	5	1.54E+08	1.54E+08	-1 q33.2
ENSG00000254093	0.5489	1.4629	0.005	0.0167 PINX1	PIN2/TERF: protein_co	8	10764963	10839884	-1 p23.1
ENSG00000165630	0.5481	1.4622	0.0007	0.003 PRPF18	pre-mRNA protein_co	10	13586927	13630868	1 p13
ENSG00000114956	0.5477	1.4617	2.30E-08	2.90E-07 DGUOK	deoxyguan protein_co	2	73926826	73958961	1 p13.1
ENSG00000183605	0.5474	1.4615	1.40E-05	9.40E-05 SFXN4	sideroflexin protein_co	10	1.19E+08	1.19E+08	-1 q26.11

ENSG00000100568	0.5473	1.4614	4.45E-21	1.33E-18	VTI1B	vesicle traf protein_co	14	67647075	67674831	-1	q24.1
ENSG00000166228	0.5468	1.4608	0.0003	0.0013	PCBD1	pterin-4 al protein_co	10	70882280	70888784	-1	q22.1
ENSG00000125870	0.5467	1.4607	1.21E-06	1.03E-05	SNRPB2	small nucle protein_co	20	16729961	16742563	1	p12.1
ENSG00000185437	0.5465	1.4605	0.0081	0.0252	SH3BGR	SH3 domai protein_co	21	39445855	39515506	1	q22.2
ENSG00000269893	0.546	1.46	0.002	0.0076	SNHG8	small nucle lincRNA	4	1.18E+08	1.18E+08	1	q26
ENSG00000144827	0.5456	1.4596	3.10E-05	0.0002	ABHD10	abhydrolas protein_co	3	1.12E+08	1.12E+08	1	q13.2
ENSG00000126249	0.5455	1.4595	0.0104	0.0312	PDCD2L	programm protein_co	19	34404384	34426168	1	q13.11
ENSG00000135404	0.5452	1.4592	2.64E-08	3.29E-07	CD63	CD63 mole protein_co	12	55725323	55729707	-1	q13.2
ENSG00000128272	0.5448	1.4588	3.59E-09	5.43E-08	ATF4	activating t protein_co	22	39519695	39522685	1	q13.1
ENSG00000133997	0.5447	1.4588	0.001	0.0044	MED6	mediator c protein_co	14	70581257	70600690	-1	q24.2
ENSG00000040275	0.5443	1.4583	0.0009	0.0039	SPDL1	spindle app protein_co	5	1.7E+08	1.7E+08	1	q35.1
ENSG00000088356	0.5439	1.4579	3.13E-06	2.42E-05	PDRG1	p53 and D protein_co	20	31944342	31952092	-1	q11.21
ENSG00000145919	0.5438	1.4578	6.97E-07	6.29E-06	BOD1	bioorientati protein_co	5	1.74E+08	1.74E+08	-1	q35.2
ENSG00000144848	0.5434	1.4574	1.52E-11	3.88E-10	ATG3	autophagy protein_co	3	1.13E+08	1.13E+08	-1	q13.2
ENSG00000034693	0.5433	1.4573	2.54E-07	2.52E-06	PEX3	peroxisom protein_co	6	1.43E+08	1.43E+08	1	q24.2
ENSG00000109220	0.5432	1.4572	0.0001	0.0007	CHIC2	cysteine-ric protein_co	4	54009789	54064690	-1	q12
ENSG00000139131	0.5427	1.4567	2.19E-07	2.21E-06	YARS2	tyrosyl-tRN protein_co	12	32727490	32755902	-1	p11.21
ENSG00000072042	0.5426	1.4566	2.22E-05	0.0001	RDH11	retinol deh protein_co	14	67676801	67695814	-1	q24.1
ENSG00000007520	0.5422	1.4562	8.66E-10	1.49E-08	TSR3	TSR3, 20S r protein_co	16	1349240	1351911	-1	p13.3
ENSG00000167904	0.5419	1.4559	0.0058	0.0189	TMEM68	transmemt protein_co	8	55696424	55773407	-1	q12.1
ENSG00000115459	0.5418	1.4558	4.12E-09	6.16E-08	ELMOD3	ELMO/CED protein_co	2	85354394	85391752	1	p11.2
ENSG00000151466	0.5415	1.4555	9.22E-05	0.0005	SCLT1	sodium cha protein_co	4	1.29E+08	1.29E+08	-1	q28.2
ENSG00000169251	0.5412	1.4552	5.19E-05	0.0003	NMD3	NMD3 ribo protein_co	3	1.61E+08	1.61E+08	1	q26.1
ENSG00000002549	0.5411	1.4551	1.28E-05	8.69E-05	LAP3	leucine am protein_co	4	17577192	17607972	1	p15.32
ENSG00000137462	0.5411	1.4551	0.0047	0.0158	TLR2	toll-like rec protein_co	4	1.54E+08	1.54E+08	1	q31.3
ENSG00000101773	0.5409	1.4549	0.0132	0.0383	RBBP8	retinoblast protein_co	18	22798261	23026488	1	q11.2
ENSG00000004866	0.5409	1.4548	8.94E-07	7.88E-06	ST7	suppressio protein_co	7	1.17E+08	1.17E+08	1	q31.2
ENSG00000130312	0.5408	1.4548	3.03E-06	2.35E-05	MRPL34	mitochond protein_co	19	17292609	17306843	1	p13.11
ENSG00000147041	0.5408	1.4548	0.0079	0.0247	SYTL5	synaptotag protein_co X		38006582	38128819	1	p11.4
ENSG00000170745	0.5406	1.4546	8.87E-05	0.0005	KCNS3	potassium protein_co	2	17877847	18361616	1	p24.2
ENSG00000053372	0.5405	1.4545	1.12E-06	9.64E-06	MRT04	mRNA turn protein_co	1	19251539	19260128	1	p36.13
ENSG00000182362	0.5401	1.4541	0.0018	0.007	YBEY	ybeY metal protein_co	21	46286337	46297751	1	q22.3
ENSG00000180425	0.5401	1.4541	0.0144	0.0411	C11orf71	chromosom protein_co	11	1.14E+08	1.14E+08	-1	q23.2
ENSG00000023697	0.5394	1.4534	0.0002	0.0009	DERA	deoxyribos protein_co	12	15911172	16037282	1	p12.3
ENSG00000204315	0.5394	1.4533	0.0141	0.0405	FKBPL	FK506 bind protein_co	6	32128707	32130291	-1	p21.32
ENSG00000119986	0.539	1.4529	0.0009	0.0038	AVPI1	arginine va protein_co	10	97677424	97687323	-1	q24.2
ENSG00000163918	0.5387	1.4527	0.0057	0.0186	RFC4	replication protein_co	3	1.87E+08	1.87E+08	-1	q27.3



ENSG00000189058	0.5385	1.4525	0.0042	0.0145	APOD	apolipopro protein_co	3	1.96E+08	1.96E+08	-1	q29
ENSG00000123609	0.5385	1.4524	1.13E-06	9.69E-06	NMI	N-myc (anc protein_co	2	1.51E+08	1.51E+08	-1	q23.3
ENSG00000167985	0.5385	1.4524	0.0006	0.0025	SDHAF2	succinate d protein_co	11	61430042	61447529	1	q12.2
ENSG00000120727	0.5382	1.4522	2.51E-05	0.0002	PAIP2	poly(A) bin protein_co	5	1.39E+08	1.39E+08	1	q31.2
ENSG00000122873	0.5382	1.4522	6.33E-05	0.0004	CISD1	CDGSH iror protein_co	10	58269058	58289586	1	q21.1
ENSG00000123395	0.5376	1.4515	2.61E-07	2.58E-06	ATG101	autophagy protein_co	12	52069246	52077494	1	q13.13
ENSG00000104723	0.5374	1.4514	0.0005	0.0021	TUSC3	tumor suppr protein_co	8	15417215	15766649	1	p22
ENSG00000095209	0.5374	1.4514	0.003	0.0109	TMEM38B	transmemk protein_co	9	1.06E+08	1.06E+08	1	q31.2
ENSG00000138382	0.5374	1.4513	3.69E-05	0.0002	METTL5	methyltran protein_co	2	1.7E+08	1.7E+08	-1	q31.1
ENSG00000060762	0.5373	1.4512	5.45E-05	0.0003	MPC1	mitochond protein_co	6	1.66E+08	1.66E+08	-1	q27
ENSG00000025156	0.5371	1.451	0.001	0.0044	HSF2	heat shock protein_co	6	1.22E+08	1.22E+08	1	q22.31
ENSG00000138614	0.5358	1.4498	5.88E-08	6.79E-07	VWA9	von Willebl protein_co	15	65578753	65611289	-1	q22.31
ENSG00000028839	0.535	1.4489	0.0002	0.0012	TBPL1	TBP-like 1 [ protein_co	6	1.34E+08	1.34E+08	1	q23.2
ENSG00000235655	0.5346	1.4485	0.0019	0.0073	H3F3AP4	H3 histone processed_	2	1.75E+08	1.75E+08	1	q31.1
ENSG00000226598	0.5346	1.4485	0.0061	0.0198	AC017060.1	lincRNA	7	17463445	17558909	-1	p21.1
ENSG00000137522	0.5345	1.4484	3.26E-05	0.0002	RNF121	ring finger protein_co	11	71928701	71997597	1	q13.4
ENSG00000233429	0.5345	1.4484	0.0111	0.0331	HOTAIRM1	HOXA tran: antisense	7	27095647	27100265	1	p15.2
ENSG00000164647	0.534	1.448	0.0008	0.0033	STEAP1	six transme protein_co	7	90154375	90164829	1	q21.13
ENSG00000174132	0.5339	1.4479	0.0152	0.0431	FAM174A	family with protein_co	5	1.01E+08	1.01E+08	1	q21.1
ENSG00000018869	0.5337	1.4477	0.0073	0.023	ZNF582	zinc finger protein_co	19	56375846	56393545	-1	q13.43
ENSG00000139974	0.5336	1.4475	0.0171	0.0474	SLC38A6	solute carri protein_co	14	60981114	61083733	1	q23.1
ENSG00000042753	0.5332	1.4472	7.20E-08	8.16E-07	AP2S1	adaptor-re protein_co	19	46838136	46850992	-1	q13.32
ENSG00000140307	0.5329	1.4468	2.85E-07	2.80E-06	GTF2A2	general tra protein_co	15	59638062	59657541	-1	q22.2
ENSG00000139343	0.5322	1.4462	2.88E-07	2.82E-06	SNRPF	small nucle protein_co	12	95858928	95903828	1	q23.1
ENSG00000075089	0.5322	1.4462	0.0016	0.0064	ACTR6	ARP6 actin protein_co	12	1E+08	1E+08	1	q23.1
ENSG00000258890	0.532	1.4459	0.0038	0.0131	CEP95	centrosom protein_co	17	64506588	64542461	1	q23.3
ENSG00000100209	0.5319	1.4459	0.0119	0.0351	HSCB	HscB mitoc protein_co	22	28742031	28757515	1	q12.1
ENSG00000167315	0.5318	1.4457	0.0015	0.0058	ACAA2	acetyl-CoA protein_co	18	49782167	49813960	-1	q21.1
ENSG00000131269	0.5313	1.4452	1.33E-06	1.12E-05	ABCB7	ATP-bindin protein_co X		75053172	75156732	-1	q13.3
ENSG00000112357	0.5306	1.4445	1.58E-05	0.0001	PEX7	peroxisom: protein_co	6	1.37E+08	1.37E+08	1	q23.3
ENSG00000089048	0.5305	1.4444	7.34E-06	5.28E-05	ESF1	ESF1, nucle protein_co	20	13714322	13784886	-1	p12.1
ENSG00000181007	0.5302	1.4442	0.0063	0.0204	ZFP82	ZFP82 zinc protein_co	19	36383120	36418656	-1	q13.12
ENSG00000029993	0.5299	1.4438	0.0003	0.0013	HMGGB3	high mobili protein_co X		1.51E+08	1.51E+08	1	q28
ENSG00000172053	0.5299	1.4438	0.0012	0.0048	QARS	glutaminyl- protein_co	3	49095932	49105101	-1	p21.31
ENSG00000186666	0.5296	1.4435	0.005	0.0168	BCDIN3D	BCDIN3 do protein_co	12	49836039	49843129	-1	q13.12
ENSG00000011260	0.5294	1.4433	3.66E-07	3.52E-06	UTP18	UTP18 sma protein_co	17	51260528	51297936	1	q21.33
ENSG00000234608	0.5292	1.4432	0.0003	0.0013	MAPKAPK5-AS1	MAPKAPK5 lincRNA	12	1.12E+08	1.12E+08	-1	q24.12

ENSG00000256771	0.5293	1.4432	0.0017	0.0066 ZNF253	zinc finger protein_co	19	19865886	19894674	1 p13.11
ENSG00000123136	0.5286	1.4425	1.09E-07	1.19E-06 DDX39A	DEAD (Asp. protein_co	19	14408819	14419383	-1 p13.12
ENSG00000136710	0.5285	1.4425	5.02E-07	4.67E-06 CCDC115	coiled-coil protein_co	2	1.3E+08	1.3E+08	-1 q21.1
ENSG00000177058	0.5284	1.4423	0.0003	0.0017 SLC38A9	solute carrier protein_co	5	55625845	55773194	-1 q11.2
ENSG00000131732	0.5284	1.4423	0.0007	0.0032 ZCCHC9	zinc finger, protein_co	5	81301590	81313297	1 q14.1
ENSG00000108848	0.5281	1.442	5.84E-05	0.0003 LUC7L3	LUC7-like 3 protein_co	17	50719544	50756213	1 q21.33
ENSG00000162385	0.528	1.442	0.0002	0.0008 MAGOH	mago-nash protein_co	1	53226892	53238610	-1 p32.3
ENSG00000115091	0.5279	1.4418	6.66E-09	9.61E-08 ACTR3	ARP3 actin protein_co	2	1.14E+08	1.14E+08	1 q14.1
ENSG00000121058	0.5278	1.4417	4.21E-06	3.17E-05 COIL	coilin [Sour protein_co	17	56938187	56961054	-1 q22
ENSG00000075336	0.5278	1.4417	6.65E-06	4.83E-05 TIMM21	translocase protein_co	18	74148511	74160530	1 q22.3
ENSG00000169981	0.5274	1.4413	0.0001	0.0006 ZNF35	zinc finger protein_co	3	44648727	44660791	1 p21.31
ENSG00000198874	0.5272	1.4412	3.71E-06	2.83E-05 TYW1	tRNA-yW s protein_co	7	66995173	67239519	1 q11.21
ENSG00000004455	0.527	1.441	5.39E-09	7.89E-08 AK2	adenylate l protein_co	1	33007984	33080996	-1 p35.1
ENSG00000177628	0.5268	1.4407	2.63E-06	2.06E-05 GBA	glucosidase protein_co	1	1.55E+08	1.55E+08	-1 q22
ENSG00000109861	0.5266	1.4405	0.0037	0.0129 CTSC	cathepsin C protein_co	11	88293592	88337787	-1 q14.2
ENSG00000100347	0.5264	1.4403	2.39E-08	2.99E-07 SAMM50	SAMM50 s protein_co	22	43955421	44010531	1 q13.31
ENSG00000065154	0.5264	1.4403	0.0005	0.0021 OAT	ornithine a protein_co	10	1.24E+08	1.24E+08	-1 q26.13
ENSG00000184557	0.5264	1.4403	0.0056	0.0185 SOCS3	suppressor protein_co	17	78356778	78360077	-1 q25.3
ENSG00000183323	0.5264	1.4403	0.0109	0.0325 CCDC125	coiled-coil protein_co	5	69280175	69332809	-1 q13.2
ENSG00000213462	0.5264	1.4403	0.0152	0.0431 ERV3-1	endogenous protein_co	7	64990809	65006743	-1 q11.21
ENSG00000096401	0.5263	1.4402	4.48E-07	4.22E-06 CDC5L	cell division protein_co	6	44387525	44450426	1 p21.1
ENSG00000181218	0.5262	1.4401	0.0036	0.0127 HIST3H2A	histone h3 protein_co	1	2.28E+08	2.28E+08	-1 q42.13
ENSG00000118961	0.526	1.44	4.08E-10	7.65E-09 C2orf43	chromosome protein_co	2	20684014	20823130	-1 p24.1
ENSG00000153982	0.5261	1.44	0.0015	0.006 GDPD1	glycerophospho protein_co	17	59220467	59275967	1 q22
ENSG00000198677	0.5259	1.4399	1.09E-06	9.39E-06 TTC37	tetratricopeptide protein_co	5	95463895	95555007	-1 q15
ENSG00000145979	0.526	1.4399	0.0002	0.0009 TBC1D7	TBC1 domain protein_co	6	13266542	13328583	-1 p24.1
ENSG00000177889	0.5259	1.4398	2.16E-09	3.41E-08 UBE2N	ubiquitin-conjugating protein_co	12	93405673	93442262	-1 q22
ENSG00000140612	0.5255	1.4394	1.39E-06	1.17E-05 SEC11A	SEC11 homolog protein_co	15	84669538	84716716	-1 q25.3
ENSG00000128951	0.5254	1.4394	1.94E-05	0.0001 DUT	deoxyuridylyl transferase protein_co	15	48331011	48343373	1 q21.1
ENSG00000155755	0.5254	1.4394	0.0003	0.0013 TMEM237	transmembrane protein_co	2	2.02E+08	2.02E+08	-1 q33.1
ENSG00000122545	0.5254	1.4393	3.02E-06	2.34E-05	07-Sep septin 7 [Sc] protein_co	7	35800932	35907105	1 p14.2
ENSG00000171307	0.5248	1.4388	3.49E-05	0.0002 ZDHHC16	zinc finger, protein_co	10	97446131	97457370	1 q24.1
ENSG00000262814	0.5249	1.4388	0.0003	0.0013 MRPL12	mitochondrial protein_co	17	81703357	81707526	1 q25.3
ENSG00000123144	0.5242	1.4382	1.70E-07	1.77E-06 C19orf43	chromosome protein_co	19	12730640	12734775	-1 p13.13
ENSG00000132698	0.5242	1.4382	0.0015	0.006 RAB25	RAB25, member protein_co	1	1.56E+08	1.56E+08	1 q22
ENSG00000145354	0.5242	1.4381	2.98E-05	0.0002 CISD2	CDGSH iron-binding protein_co	4	1.03E+08	1.03E+08	1 q24
ENSG00000128654	0.5238	1.4377	1.56E-08	2.05E-07 MTX2	metaxin 2 [protein_co	2	1.76E+08	1.76E+08	1 q31.1

ENSG00000130255	0.5236	1.4375	0.0008	0.0033 RPL36	ribosomal l protein_co	19	5674947	5691876	1 p13.3
ENSG00000135930	0.5234	1.4373	1.11E-17	1.30E-15 EIF4E2	eukaryotic protein_co	2	2.33E+08	2.33E+08	1 q37.1
ENSG00000179988	0.5233	1.4373	0.0078	0.0243 PSTK	phosphose protein_co	10	1.23E+08	1.23E+08	1 q26.13
ENSG00000138413	0.5232	1.4372	0.0002	0.0009 IDH1	isocitrate d protein_co	2	2.08E+08	2.08E+08	-1 q34
ENSG00000116030	0.5229	1.4369	7.04E-08	8.00E-07 SUMO1	small ubiq protein_co	2	2.02E+08	2.02E+08	-1 q33.1
ENSG00000187601	0.523	1.4369	0.0094	0.0287 MAGEH1	melanoma protein_co X		55452105	55453566	1 p11.21
ENSG00000225526	0.5226	1.4365	0.0162	0.0452 MKRN2OS	MKRN2 op protein_co	3	12514934	12561059	-1 p25.2
ENSG00000132274	0.5225	1.4364	0.0006	0.0027 TRIM22	tripartite r protein_co	11	5689689	5737089	1 p15.4
ENSG00000152193	0.5224	1.4363	0.0003	0.0016 RNF219	ring finger protein_co	13	78614291	78659179	-1 q31.1
ENSG00000115661	0.522	1.436	0.0005	0.0023 STK16	serine/thre protein_co	2	2.19E+08	2.19E+08	1 q35
ENSG00000197265	0.5217	1.4357	3.51E-08	4.28E-07 GTF2E2	general tra protein_co	8	30578318	30658251	-1 p12
ENSG00000162604	0.5213	1.4353	0.0013	0.0054 TM2D1	TM2 doma protein_co	1	61681046	61725423	-1 p31.3
ENSG00000261740	0.5211	1.435	0.0167	0.0464 RP11-345J4.5	Bola-like p protein_co	16	29443056	29454651	-1 p11.2
ENSG00000187024	0.521	1.4349	0.0021	0.0078 PTRH1	peptidyl-tR protein_co	9	1.28E+08	1.28E+08	-1 q34.11
ENSG00000176014	0.5208	1.4348	0.0065	0.021 TUBB6	tubulin, be protein_co	18	12307669	12344320	1 p11.21
ENSG00000121988	0.5208	1.4347	0.0001	0.0006 ZRANB3	zinc finger, protein_co	2	1.35E+08	1.36E+08	-1 q21.3
ENSG0000013375	0.5206	1.4345	0.0001	0.0007 PGM3	phosphogl protein_co	6	83161150	83193936	-1 q14.1
ENSG00000085662	0.5202	1.4342	5.21E-05	0.0003 AKR1B1	aldo-keto r protein_co	7	1.34E+08	1.34E+08	-1 q33
ENSG00000042493	0.5203	1.4342	0.001	0.0043 CAPG	capping pr protein_co	2	85394748	85418432	-1 p11.2
ENSG00000134905	0.5201	1.4341	4.31E-08	5.17E-07 CARS2	cysteinyl-tf protein_co	13	1.11E+08	1.11E+08	-1 q34
ENSG00000125821	0.52	1.4339	3.21E-06	2.47E-05 DTD1	D-tyrosyl-tl protein_co	20	18567453	18763917	1 p11.23
ENSG00000151465	0.5192	1.4332	1.60E-10	3.29E-09 CDC123	cell divisior protein_co	10	12195965	12250589	1 p14
ENSG00000138942	0.5187	1.4327	2.10E-09	3.32E-08 RNF185	ring finger protein_co	22	31160183	31207019	1 q12.2
ENSG00000204616	0.5188	1.4327	0.0012	0.0048 TRIM31	tripartite r protein_co	6	30102897	30113106	-1 p22.1
ENSG00000246067	0.5186	1.4325	0.0177	0.0488 RAB30-AS1	RAB30 anti lincRNA	11	83072066	83106719	1 q14.1
ENSG00000087502	0.5184	1.4324	0.0003	0.0016 ERGIC2	ERGIC and protein_co	12	29337352	29381189	-1 p11.22
ENSG00000137133	0.5183	1.4323	0.0004	0.0017 HINT2	histidine tr protein_co	9	35812960	35815354	-1 p13.3
ENSG00000170222	0.5181	1.4321	0.0067	0.0214 ADPRM	ADP-ribose protein_co	17	10697594	10711233	1 p13.1
ENSG00000105583	0.5178	1.4317	2.16E-07	2.19E-06 WDR83OS	WD repeat protein_co	19	12668071	12671356	-1 p13.13
ENSG00000131013	0.5174	1.4314	6.88E-06	4.98E-05 PPIL4	peptidylprc protein_co	6	1.5E+08	1.5E+08	-1 q25.1
ENSG00000167325	0.5174	1.4314	0.0001	0.0006 RRM1	ribonucleo protein_co	11	4094707	4138876	1 p15.4
ENSG00000007255	0.517	1.431	0.0101	0.0304 TRAPPC6A	trafficking l protein_co	19	45162928	45178237	-1 q13.32
ENSG00000167766	0.5164	1.4304	0.0003	0.0016 ZNF83	zinc finger protein_co	19	52594060	52690581	-1 q13.41
ENSG00000173207	0.5164	1.4304	0.0028	0.0101 CKS1B	CDC28 proi protein_co	1	1.55E+08	1.55E+08	1 q21.3
ENSG00000165672	0.5157	1.4297	2.79E-06	2.17E-05 PRDX3	peroxiredo protein_co	10	1.19E+08	1.19E+08	-1 q26.11
ENSG00000101901	0.5157	1.4297	0.0014	0.0056 ALG13	ALG13, UD protein_co X		1.12E+08	1.12E+08	1 q23
ENSG00000170631	0.5152	1.4292	0.0015	0.006 ZNF16	zinc finger protein_co	8	1.45E+08	1.45E+08	-1 q24.3

ENSG00000196653	0.5152	1.4292	0.0028	0.01	ZNF502	zinc finger protein_co	3	44712643	44723831	1	p21.31
ENSG00000068697	0.5149	1.4289	4.01E-08	4.83E-07	LAPTM4A	lysosomal protein_co	2	20032650	20052028	-1	p24.1
ENSG00000126524	0.5149	1.4289	0.001	0.0041	SBDS	Shwachma protein_co	7	66987677	66995601	-1	q11.21
ENSG00000104231	0.5144	1.4284	4.28E-05	0.0003	ZFAND1	zinc finger, protein_co	8	81701334	81732903	-1	q21.13
ENSG00000109680	0.5144	1.4284	0.0059	0.0194	TBC1D19	TBC1 domain protein_co	4	26576437	26755351	1	p15.2
ENSG00000156976	0.5137	1.4277	9.81E-07	8.56E-06	EIF4A2	eukaryotic protein_co	3	1.87E+08	1.87E+08	1	q27.3
ENSG00000116171	0.5135	1.4275	1.30E-07	1.39E-06	SCP2	sterol carrier protein_co	1	52927229	53051703	1	p32.3
ENSG00000072422	0.5135	1.4275	0.0064	0.0205	RHOBTB1	Rho-related protein_co	10	60869438	61001440	-1	q21.2
ENSG00000167711	0.5127	1.4268	0.015	0.0427	SERPINF2	serpin peptidase protein_co	17	1742836	1755268	1	p13.3
ENSG00000240857	0.512	1.4261	4.59E-05	0.0003	RDH14	retinol dehydrogenase protein_co	2	18554723	18560680	-1	p24.2
ENSG00000106526	0.5121	1.4261	0.002	0.0076	ACTR3C	ARP3 actin-binding protein_co	7	1.5E+08	1.5E+08	-1	q36.1
ENSG00000136643	0.512	1.426	6.62E-09	9.55E-08	RPS6KC1	ribosomal protein_co	1	2.13E+08	2.13E+08	1	q32.3
ENSG00000103591	0.5119	1.4259	3.73E-10	7.04E-09	AAGAB	alpha-actinin protein_co	15	67201033	67255195	-1	q23
ENSG00000176024	0.5119	1.4259	0.0014	0.0055	ZNF613	zinc finger protein_co	19	51879872	51948759	1	q13.41
ENSG00000198886	0.5117	1.4258	4.31E-06	3.24E-05	MT-ND4	mitochondrial protein_co		10760	12137	1	
ENSG00000104763	0.5111	1.4251	0.0043	0.0146	ASAH1	N-acyl sphingosine protein_co	8	18056425	18084985	-1	p22
ENSG00000131849	0.5106	1.4247	0.0008	0.0036	ZNF132	zinc finger protein_co	19	58432814	58440222	-1	q13.43
ENSG00000138134	0.5106	1.4247	0.0097	0.0295	STAMBPL1	STAM binding protein_co	10	88879734	88975153	1	q23.31
ENSG00000023041	0.5105	1.4245	5.95E-06	4.36E-05	ZDHHC6	zinc finger, protein_co	10	1.12E+08	1.12E+08	-1	q25.2
ENSG00000114520	0.5105	1.4245	0.0005	0.0021	SNX4	sorting nexin protein_co	3	1.25E+08	1.26E+08	-1	q21.2
ENSG00000100744	0.5103	1.4244	0.0004	0.0017	GSKIP	GSK3B interacting protein_co	14	96363452	96387288	1	q32.2
ENSG00000076242	0.51	1.424	5.83E-07	5.35E-06	MLH1	mutL homolog protein_co	3	36993332	37050918	1	p22.2
ENSG00000120833	0.51	1.424	0.0013	0.0052	SOCS2	suppressor protein_co	12	93569814	93583487	1	q22
ENSG00000081665	0.5099	1.424	0.0089	0.0275	ZNF506	zinc finger protein_co	19	19785839	19821751	-1	p13.11
ENSG00000163510	0.5099	1.4239	9.92E-08	1.08E-06	CWC22	CWC22 splice protein_co	2	1.8E+08	1.8E+08	-1	q31.3
ENSG00000196591	0.5098	1.4238	3.66E-10	6.94E-09	HDAC2	histone deacetylase protein_co	6	1.14E+08	1.14E+08	-1	q21
ENSG00000092108	0.5098	1.4238	4.35E-06	3.27E-05	SCFD1	sec1 family protein_co	14	30622112	30735812	1	q12
ENSG00000245910	0.5097	1.4238	0.0017	0.0065	SNHG6	small nucleolar processed RNA protein_co	8	66921684	66926398	-1	q13.1
ENSG00000114416	0.5095	1.4235	4.88E-08	5.75E-07	FXR1	fragile X mental retardation protein_co	3	1.81E+08	1.81E+08	1	q26.33
ENSG00000107833	0.5094	1.4234	5.08E-05	0.0003	NPM3	nucleophosmin protein_co	10	1.02E+08	1.02E+08	-1	q24.32
ENSG00000127337	0.509	1.4231	0.0008	0.0035	YEATS4	YEATS domain protein_co	12	69359703	69390796	1	q15
ENSG00000173085	0.5089	1.423	6.18E-06	4.52E-05	COQ2	coenzyme Q2 protein_co	4	83261536	83284914	-1	q21.23
ENSG00000184508	0.5087	1.4228	0.0137	0.0394	HDHC3	HD domain protein_co	15	90929964	90932569	-1	q26.1
ENSG00000159322	0.5087	1.4227	1.69E-05	0.0001	ADPGK	ADP-dependent protein_co	15	72751369	72785846	-1	q24.1
ENSG00000139620	0.5085	1.4226	8.05E-05	0.0005	KANSL2	KAT8 regulated protein_co	12	48653401	48682238	-1	q13.11
ENSG00000102934	0.5084	1.4225	0.0012	0.005	PLLP	plasmalogen protein_co	16	57248547	57284687	-1	q13
ENSG00000121380	0.5084	1.4225	0.016	0.0448	BCL2L14	BCL2-like 1 protein_co	12	12049844	12211084	1	p13.2

ENSG00000100883	0.5075	1.4216	5.04E-08	5.91E-07	SRP54	signal reco;protein_co	14	34981957	35029567	1	q13.2
ENSG00000203724	0.5075	1.4216	0.0155	0.0438	C1orf53	chromosom protein_co	1	1.98E+08	1.98E+08	1	q31.3
ENSG00000071994	0.5074	1.4215	1.54E-06	1.28E-05	PDCD2	programm;protein_co	6	1.71E+08	1.71E+08	-1	q27
ENSG00000170917	0.5074	1.4214	0.017	0.0471	NUDT6	nudix (nucl protein_co	4	1.23E+08	1.23E+08	-1	q28.1
ENSG0000013275	0.5069	1.421	1.29E-09	2.14E-08	PSMC4	proteasom protein_co	19	39971005	39981441	1	q13.2
ENSG00000162976	0.5069	1.421	0.0009	0.0037	PQLC3	PQ loop re;protein_co	2	11155198	11178874	1	p25.1
ENSG00000070526	0.5068	1.4209	0.0025	0.0092	ST6GALNAC1	ST6 (alpha- protein_co	17	76624761	76643838	-1	q25.1
ENSG00000132967	0.5068	1.4209	0.0035	0.0124	HMGB1P5	high mobili transcribec	3	22381819	22382929	1	p24.3
ENSG00000050344	0.5066	1.4207	0.0022	0.0084	NFE2L3	nuclear fac protein_co	7	26152240	26187125	1	p15.2
ENSG00000171236	0.5063	1.4204	0.0057	0.0188	LRG1	leucine-ric;protein_co	19	4536409	4540474	-1	p13.3
ENSG00000177697	0.5062	1.4203	0.0049	0.0164	CD151	CD151 mol protein_co	11	832843	839831	1	p15.5
ENSG00000168876	0.5059	1.42	0.0006	0.0028	ANKRD49	ankyrin re; protein_co	11	94493629	94499583	1	q21
ENSG00000163738	0.5058	1.4199	0.005	0.0168	MTHFD2L	methylene; protein_co	4	74114174	74303099	1	q13.3
ENSG00000162222	0.5054	1.4195	1.07E-05	7.43E-05	TTC9C	tetratricop protein_co	11	62728069	62740293	1	q12.3
ENSG00000198429	0.5053	1.4194	0.0006	0.0026	ZNF69	zinc finger; protein_co	19	11887784	11914329	1	p13.2
ENSG00000135655	0.5051	1.4192	0.0001	0.0007	USP15	ubiquitin s; protein_co	12	62260338	62417431	1	q14.1
ENSG0000006530	0.505	1.4191	0.0007	0.0032	AGK	acylglycero protein_co	7	1.42E+08	1.42E+08	1	q34
ENSG00000172890	0.5048	1.4189	7.44E-09	1.06E-07	NADSYN1	NAD synth; protein_co	11	71453109	71524107	1	q13.4
ENSG00000121390	0.5047	1.4188	4.85E-08	5.72E-07	PSPC1	paraspeckl; protein_co	13	19674752	19783019	-1	q12.11
ENSG00000055044	0.5039	1.4181	6.50E-07	5.90E-06	NOP58	NOP58 ribc; protein_co	2	2.02E+08	2.02E+08	1	q33.1
ENSG00000065615	0.5038	1.418	0.0001	0.0007	CYB5R4	cytochrom; protein_co	6	83859643	83967424	1	q14.2
ENSG00000114988	0.5037	1.4178	0.0004	0.0018	LMAN2L	lectin, man; protein_co	2	96705929	96740064	-1	q11.2
ENSG00000176108	0.5034	1.4176	1.94E-05	0.0001	CHMP6	charged m; protein_co	17	80991598	81009517	1	q25.3
ENSG00000197548	0.5033	1.4174	3.25E-07	3.16E-06	ATG7	autophagy; protein_co	3	11272309	11557665	1	p25.3
ENSG00000183137	0.5029	1.4171	0.0002	0.001	CEP57L1	centrosom; protein_co	6	1.09E+08	1.09E+08	1	q21
ENSG00000106733	0.5025	1.4166	9.80E-08	1.07E-06	NMRK1	nicotinami; protein_co	9	75060573	75088217	-1	q21.13
ENSG00000112874	0.5025	1.4166	0.0008	0.0034	NUDT12	nudix (nucl protein_co	5	1.04E+08	1.04E+08	-1	q21.2
ENSG00000116251	0.5023	1.4165	0.0024	0.0088	RPL22	ribosomal; protein_co	1	6181269	6209389	-1	p36.31
ENSG00000128944	0.5023	1.4164	0.0017	0.0067	KNSTRN	kinetochor; protein_co	15	40382721	40394246	1	q15.1
ENSG00000127870	0.5021	1.4162	1.37E-05	9.26E-05	RNF6	ring finger; protein_co	13	26132115	26222493	-1	q12.13
ENSG00000254901	0.5019	1.4161	0.0026	0.0095	MEF2BNB	MEF2B nei; protein_co	19	19176903	19192591	-1	p13.11
ENSG00000182544	0.5018	1.416	4.44E-09	6.59E-08	MFSD5	major facili; protein_co	12	53251251	53254405	1	q13.13
ENSG00000136891	0.5018	1.416	2.43E-07	2.42E-06	TEX10	testis expr; protein_co	9	1E+08	1E+08	-1	q31.1
ENSG00000129696	0.5018	1.416	0.0005	0.0022	TTI2	TELO2 inte; protein_co	8	33473386	33513601	-1	p12
ENSG00000115947	0.5011	1.4153	0.0012	0.0049	ORC4	origin reco; protein_co	2	1.48E+08	1.48E+08	-1	q23.1
ENSG00000112796	0.5006	1.4148	0.0181	0.0497	ENPP5	ectonucleo; protein_co	6	46159187	46170971	-1	p21.1
ENSG00000125991	0.5005	1.4147	0.0017	0.0065	ERGIC3	ERGIC and; protein_co	20	35542021	35557634	1	q11.22



ENSG00000233901	0.5004	1.4146	0.0006	0.0027	LINC01503	long interg lincRNA	9	1.29E+08	1.29E+08	1	q34.11
ENSG00000168237	0.5004	1.4146	0.0095	0.0289	GLYCTK	glycerate k protein_co	3	52287089	52293476	1	p21.2
ENSG00000162972	0.5002	1.4145	7.58E-06	5.44E-05	C2orf47	chromoson protein_co	2	2E+08	2E+08	1	q33.1
ENSG00000188295	0.5003	1.4145	0.0001	0.0006	ZNF669	zinc finger protein_co	1	2.47E+08	2.47E+08	-1	q44
ENSG00000197223	0.5002	1.4144	7.07E-05	0.0004	C1D	C1D nuclea protein_co	2	68041130	68110948	-1	p14
ENSG00000121691	0.5002	1.4144	0.0011	0.0046	CAT	catalase [S] protein_co	11	34438925	34472062	1	p13
ENSG00000128789	0.5	1.4142	1.24E-05	8.42E-05	PSMG2	proteasom protein_co	18	12658043	12725740	1	p11.21
ENSG00000081721	0.4993	1.4135	6.68E-05	0.0004	DUSP12	dual specif protein_co	1	1.62E+08	1.62E+08	1	q23.3
ENSG00000137806	0.499	1.4132	0.0009	0.004	NDUFAF1	NADH dehy protein_co	15	41387349	41402519	-1	q15.1
ENSG00000068394	0.4983	1.4126	7.32E-05	0.0004	GPKOW	G patch do protein_co X		49113389	49123801	-1	p11.23
ENSG00000163026	0.4983	1.4125	1.98E-05	0.0001	C2orf44	chromoson protein_co	2	24029340	24049575	-1	p23.3
ENSG00000176422	0.4977	1.412	0.0009	0.004	SPRYD4	SPRY doma protein_co	12	56468567	56479707	1	q13.3
ENSG00000204264	0.4971	1.4114	3.78E-10	7.13E-09	PSMB8	proteasom protein_co	6	32840717	32844703	-1	p21.32
ENSG00000163875	0.4968	1.4111	1.45E-05	9.70E-05	MEAF6	MYST/Esa1 protein_co	1	37492575	37514774	-1	p34.3
ENSG00000068745	0.4966	1.4109	8.88E-08	9.83E-07	IP6K2	inositol he protein_co	3	48688003	48740353	-1	p21.31
ENSG00000233927	0.4967	1.4109	0.0025	0.0094	RPS28	ribosomal   protein_co	19	8321158	8323340	1	p13.2
ENSG00000111581	0.4964	1.4107	2.01E-06	1.62E-05	NUP107	nucleopori protein_co	12	68686734	68745809	1	q15
ENSG00000134152	0.4961	1.4104	0.0014	0.0057	KATNBL1	katanin p8 protein_co	15	34140674	34210096	-1	q14
ENSG00000067064	0.496	1.4103	0.0008	0.0036	IDI1	isopenty protein_co	10	1039908	1049170	-1	p15.3
ENSG00000243364	0.4959	1.4102	0.0013	0.0054	EFNA4	ephrin-A4   protein_co	1	1.55E+08	1.55E+08	1	q21.3
ENSG00000100029	0.4958	1.4101	2.79E-06	2.18E-05	PES1	pescadillo   protein_co	22	30576625	30607083	-1	q12.2
ENSG00000054282	0.4957	1.41	6.41E-08	7.34E-07	SDCCAG8	serological protein_co	1	2.43E+08	2.44E+08	1	q43
ENSG00000164414	0.4957	1.41	0.0067	0.0215	SLC35A1	solute carri protein_co	6	87470623	87512336	1	q15
ENSG00000213523	0.4956	1.4099	3.34E-08	4.09E-07	SRA1	steroid rec protein_co	5	1.41E+08	1.41E+08	-1	q31.3
ENSG00000183665	0.4956	1.4099	0.0009	0.0037	TRMT12	tRNA meth protein_co	8	1.24E+08	1.24E+08	1	q24.13
ENSG00000102103	0.4952	1.4095	1.27E-05	8.61E-05	PQBP1	polyglutam protein_co X		48897912	48903143	1	p11.23
ENSG00000083544	0.4949	1.4092	0.0022	0.0084	TDRD3	tudor dom protein_co	13	60396457	60573878	1	q21.2
ENSG00000197019	0.4948	1.4091	1.48E-07	1.56E-06	SERTAD1	SERTA dor protein_co	19	40421592	40426025	-1	q13.2
ENSG00000177556	0.4948	1.4091	4.65E-05	0.0003	ATOX1	antioxidant protein_co	5	1.52E+08	1.52E+08	-1	q33.1
ENSG00000154518	0.4946	1.4089	0.0004	0.0017	ATP5G3	ATP syntha protein_co	2	1.75E+08	1.75E+08	-1	q31.1
ENSG00000147535	0.4937	1.4081	1.02E-05	7.11E-05	PPAPDC1B	phosphatic protein_co	8	38263130	38269243	-1	p11.23
ENSG00000071243	0.4937	1.408	0.0004	0.0019	ING3	inhibitor of protein_co	7	1.21E+08	1.21E+08	1	q31.31
ENSG00000028116	0.4936	1.4079	7.65E-05	0.0004	VRK2	vaccinia rel protein_co	2	57907651	58159920	1	p16.1
ENSG00000147383	0.4933	1.4077	2.40E-05	0.0002	NSDHL	NAD(P) de protein_co X		1.53E+08	1.53E+08	1	q28
ENSG00000104356	0.4933	1.4076	0.0024	0.0089	POP1	processing protein_co	8	98117297	98159834	1	q22.2
ENSG00000141219	0.4931	1.4075	1.03E-05	7.16E-05	C17orf80	chromoson protein_co	17	73232233	73248947	1	q25.1
ENSG00000105197	0.4929	1.4073	8.65E-06	6.12E-05	TIMM50	translocase protein_co	19	39480412	39493785	1	q13.2

ENSG00000165259	0.4928	1.4071	0.0072	0.0229 HDX	highly dive protein_co X	84317874	84502479	-1 q21.1
ENSG00000183735	0.4924	1.4068	1.75E-05	0.0001 TBK1	TANK-bind protein_co	12 64451880	64502108	1 q14.2
ENSG00000154743	0.4921	1.4065	0.0173	0.0479 TSEN2	TSEN2 tRN.protein_co	3 12484432	12539623	1 p25.2
ENSG00000136631	0.492	1.4064	4.35E-08	5.21E-07 VPS45	vacuolar pr protein_co	1 1.5E+08	1.5E+08	1 q21.2
ENSG00000148925	0.492	1.4064	7.25E-06	5.22E-05 BTBD10	BTB (POZ) (protein_co	11 13388001	13463297	-1 p15.3
ENSG00000117143	0.492	1.4064	0.0039	0.0134 UAP1	UDP-N-ace protein_co	1 1.63E+08	1.63E+08	1 q23.3
ENSG00000151876	0.4918	1.4062	0.0138	0.0396 FBXO4	F-box prote protein_co	5 41925254	41941743	1 p13.1
ENSG00000131051	0.4916	1.406	7.87E-06	5.62E-05 RBM39	RNA bindin protein_co	20 35703609	35742312	-1 q11.22
ENSG00000169902	0.4915	1.4059	0.0125	0.0365 TPST1	tyrosylprot protein_co	7 66205199	66420543	1 q11.21
ENSG00000110060	0.4914	1.4058	0.0004	0.0021 PUS3	pseudouric protein_co	11 1.26E+08	1.26E+08	-1 q24.2
ENSG00000120688	0.4913	1.4057	5.96E-05	0.0003 WBP4	WW domai protein_co	13 41061274	41084006	1 q14.11
ENSG00000149761	0.4911	1.4055	0.0001	0.0006 NUDT22	nudix (nucl protein_co	11 64225941	64230686	1 q13.1
ENSG00000144744	0.491	1.4054	1.99E-05	0.0001 UBA3	ubiquitin-li protein_co	3 69054730	69080408	-1 p14.1
ENSG0000018610	0.4907	1.4051	0.0001	0.0006 CXorf56	chromoson protein_co X	1.2E+08	1.2E+08	-1 q24
ENSG00000175142	0.4906	1.4051	0.0025	0.0091 SRI	sorcin [Sou protein_co	7 88205118	88226993	-1 q21.12
ENSG00000129158	0.4907	1.4051	0.0029	0.0103 SERGEF	secretion r protein_co	11 17788048	18013162	-1 p15.1
ENSG00000256683	0.4905	1.405	0.0044	0.0149 ZNF350	zinc finger protein_co	19 51964343	51986856	-1 q13.41
ENSG00000136040	0.4902	1.4047	0.0083	0.0259 PLXNC1	plexin C1 [ protein_co	12 94148723	94307675	1 q22
ENSG00000215126	0.4903	1.4047	0.0088	0.0271 CBWD7	COBW dor protein_co	9 41131306	41199261	-1 p11.2
ENSG00000224597	0.4902	1.4046	5.70E-07	5.24E-06 SVIL-AS1	SVIL antisense	10 29409402	29487745	1 p11.23
ENSG00000136104	0.4902	1.4046	0.0002	0.0009 RNASEH2B	ribonuclea: protein_co	13 50909678	50973745	1 q14.3
ENSG00000155100	0.4901	1.4045	0.0062	0.0201 OTUD6B	OTU domai protein_co	8 91070196	91087095	1 q21.3
ENSG00000100983	0.49	1.4044	3.92E-09	5.90E-08 GSS	glutathione protein_co	20 34928430	34955817	-1 q11.22
ENSG00000166033	0.49	1.4044	0.0019	0.0073 HTRA1	HtrA serine protein_co	10 1.22E+08	1.23E+08	1 q26.13
ENSG00000167578	0.4898	1.4043	0.0015	0.0059 RAB4B	RAB4B, me protein_co	19 40778216	40796944	1 q13.2
ENSG00000115946	0.4897	1.4042	1.18E-08	1.59E-07 PNO1	partner of protein_co	2 68157844	68176238	1 p14
ENSG00000197956	0.4896	1.404	0.0053	0.0177 S100A6	S100 calciu protein_co	1 1.54E+08	1.54E+08	-1 q21.3
ENSG00000106588	0.4891	1.4036	0.0153	0.0434 PSMA2	proteasom protein_co	7 42916857	42932223	-1 p14.1
ENSG00000151092	0.4888	1.4033	1.46E-05	9.79E-05 NGLY1	N-glycanas protein_co	3 25718944	25790039	-1 p24.2
ENSG00000183172	0.4889	1.4033	0.0028	0.01 SMDT1	single-pass protein_co	22 42079691	42084284	1 q13.2
ENSG00000138639	0.4888	1.4032	0.0005	0.0022 ARHGAP24	Rho GTPasi protein_co	4 85475114	86002670	1 q21.23
ENSG00000101019	0.4886	1.4031	6.38E-12	1.78E-10 UQCC1	ubiquinol-c protein_co	20 35302566	35412141	-1 q11.22
ENSG00000129071	0.4884	1.4028	2.86E-07	2.80E-06 MBD4	methyl-Cp protein_co	3 1.29E+08	1.29E+08	-1 q21.3
ENSG00000100650	0.4882	1.4027	1.04E-06	9.05E-06 SRSF5	serine/argi protein_co	14 69726900	69772005	1 q24.1
ENSG00000167920	0.4882	1.4027	0.0024	0.009 TMEM99	transmemk protein_co	17 40819106	40836274	1 q21.2
ENSG00000139644	0.4879	1.4024	3.25E-07	3.15E-06 TMBIM6	transmemk protein_co	12 49707725	49764934	1 q13.12
ENSG00000204922	0.4876	1.4021	0.0058	0.019 UQCC3	ubiquinol-c protein_co	11 62670273	62673687	1 q12.3

ENSG00000167118	0.4874	1.4019	1.25E-11	3.27E-10	URM1	ubiquitin r protein_co	9	1.28E+08	1.28E+08	1	q34.11
ENSG00000185414	0.4872	1.4017	3.30E-05	0.0002	MRPL30	mitochond protein_co	2	99181079	99197626	1	q11.2
ENSG00000137692	0.4872	1.4017	0.0008	0.0035	DCUN1D5	DCN1, defe protein_co	11	1.03E+08	1.03E+08	-1	q22.3
ENSG00000078319	0.4867	1.4012	0.0007	0.0029	PMS2P1	postmeioti unprocesse	7	1E+08	1E+08	-1	q22.1
ENSG00000174173	0.4865	1.401	0.0008	0.0033	TRMT10C	tRNA meth protein_co	3	1.02E+08	1.02E+08	1	q12.3
ENSG00000158552	0.4862	1.4008	1.44E-05	9.68E-05	ZFAND2B	zinc finger, protein_co	2	2.19E+08	2.19E+08	1	q35
ENSG00000196295	0.4861	1.4006	0.0061	0.0198	AC005154.6	processed_	7	30516309	30594809	-1	p14.3
ENSG00000197841	0.4858	1.4004	0.0036	0.0125	ZNF181	zinc finger protein_co	19	34734155	34745378	1	q13.11
ENSG00000197457	0.4858	1.4003	0.0036	0.0126	STMN3	stathmin-li protein_co	20	63639705	63653427	-1	q13.33
ENSG00000002919	0.4855	1.4	3.29E-10	6.34E-09	SNX11	sorting nex protein_co	17	48103357	48123074	1	q21.32
ENSG00000121851	0.4854	1.4	1.97E-06	1.59E-05	POLR3GL	polymeras protein_co	1	1.46E+08	1.46E+08	1	q21.1
ENSG00000204764	0.4852	1.3998	0.0085	0.0264	RANBP17	RAN bindin protein_co	5	1.71E+08	1.71E+08	1	q35.1
ENSG00000018699	0.4851	1.3997	2.63E-07	2.60E-06	TTC27	tetratricop protein_co	2	32628032	32821051	1	p22.3
ENSG00000176142	0.485	1.3996	0.0002	0.0009	TMEM39A	transmemt protein_co	3	1.19E+08	1.19E+08	-1	q13.33
ENSG00000123159	0.4849	1.3995	6.77E-06	4.91E-05	GIPC1	GIPC PDZ d protein_co	19	14477760	14496149	-1	p13.12
ENSG00000101367	0.4847	1.3993	4.52E-11	1.04E-09	MAPRE1	microtubul protein_co	20	32819893	32850405	1	q11.21
ENSG00000070190	0.4846	1.3992	2.65E-05	0.0002	DAPP1	dual adapt protein_co	4	99816833	99870154	1	q23
ENSG00000119929	0.4844	1.399	0.0074	0.0234	CUTC	cutC coppe protein_co	10	99702558	99756134	1	q24.2
ENSG00000111596	0.484	1.3986	4.37E-07	4.12E-06	CNOT2	CCR4-NOT protein_co	12	70242994	70354993	1	q15
ENSG00000087263	0.4839	1.3985	2.55E-08	3.18E-07	OGFOD1	2-oxogluta protein_co	16	56451490	56479100	1	q13
ENSG00000120053	0.4835	1.3981	6.25E-07	5.69E-06	GOT1	glutamic-o: protein_co	10	99396870	99430624	-1	q24.2
ENSG00000046647	0.4832	1.3978	0.0169	0.0469	GEMIN8	gem (nucle protein_co X		14008279	14029893	-1	p22.2
ENSG00000165792	0.4831	1.3977	1.98E-08	2.53E-07	METTL17	methyltran protein_co	14	20989770	20997035	1	q11.2
ENSG00000011198	0.4829	1.3975	4.61E-06	3.45E-05	ABHD5	abhydrolas protein_co	3	43690113	43734371	1	p21.33
ENSG00000136933	0.4827	1.3973	8.36E-05	0.0005	RABEPK	Rab9 effect protein_co	9	1.25E+08	1.25E+08	1	q33.3
ENSG00000100216	0.4825	1.3972	3.11E-05	0.0002	TOMM22	translocase protein_co	22	38681948	38685421	1	q13.1
ENSG00000105058	0.4822	1.3969	1.50E-15	9.98E-14	FAM32A	family with protein_co	19	16185380	16192046	1	p13.11
ENSG00000168393	0.4822	1.3969	0.0007	0.003	DTYMK	deoxythym protein_co	2	2.42E+08	2.42E+08	-1	q37.3
ENSG00000206075	0.4821	1.3968	0.0003	0.0014	SERPINB5	serpin pepi protein_co	18	63476761	63505085	1	q21.33
ENSG00000131876	0.4818	1.3965	3.43E-08	4.20E-07	SNRPA1	small nucle protein_co	15	1.01E+08	1.01E+08	-1	q26.3
ENSG00000169131	0.4818	1.3964	0.0008	0.0036	ZNF354A	zinc finger protein_co	5	1.79E+08	1.79E+08	-1	q35.3
ENSG00000148450	0.4814	1.3961	1.45E-05	9.72E-05	MSRB2	methionine protein_co	10	23095506	23122013	1	p12.2
ENSG00000161526	0.4811	1.3958	1.51E-07	1.59E-06	SAP30BP	SAP30 binc protein_co	17	75667116	75708062	1	q25.1
ENSG00000115286	0.4809	1.3956	9.47E-07	8.30E-06	NDUFS7	NADH dehy protein_co	19	1383527	1395589	1	p13.3
ENSG00000145781	0.4808	1.3955	0.0069	0.022	COMMD10	COMM dor protein_co	5	1.16E+08	1.16E+08	1	q23.1
ENSG00000141076	0.4805	1.3952	3.35E-07	3.24E-06	CIRH1A	cirrrosis, a protein_co	16	69131291	69231130	1	q22.1
ENSG00000106853	0.4802	1.3949	0.0002	0.0008	PTGR1	prostaglan protein_co	9	1.12E+08	1.12E+08	-1	q31.3

ENSG00000170421	0.48	1.3947	5.16E-05	0.0003 KRT8	keratin 8 [S protein_co	12	52897187	52949954	-1	q13.13
ENSG00000112237	0.4799	1.3947	0.0028	0.0101 CCNC	cyclin C [Sc protein_co	6	99542380	99568973	-1	q16.2
ENSG00000169241	0.4795	1.3943	4.57E-07	4.29E-06 SLC50A1	solute carri protein_co	1	1.55E+08	1.55E+08	1	q22
ENSG00000128534	0.4791	1.3939	0.0015	0.0058 LSM8	LSM8 homi protein_co	7	1.18E+08	1.18E+08	1	q31.31
ENSG00000196230	0.4788	1.3936	1.78E-05	0.0001 TUBB	tubulin, be protein_co	6	30720201	30725426	1	p21.33
ENSG00000077232	0.4787	1.3935	0.0004	0.0018 DNAJC10	DnaJ (Hsp4 protein_co	2	1.83E+08	1.83E+08	1	q32.1
ENSG00000065600	0.4788	1.3935	0.0148	0.0422 TMEM206	transmemt protein_co	1	2.12E+08	2.12E+08	-1	q32.3
ENSG00000130347	0.4785	1.3933	0.0016	0.0063 RTN4IP1	reticulon 4 protein_co	6	1.07E+08	1.07E+08	-1	q21
ENSG00000069869	0.4785	1.3933	0.005	0.0166 NEDD4	neural prec protein_co	15	55826922	55993746	-1	q21.3
ENSG00000162735	0.4784	1.3932	1.40E-12	4.66E-11 PEX19	peroxisom: protein_co	1	1.6E+08	1.6E+08	-1	q23.2
ENSG00000119185	0.4785	1.3932	8.55E-05	0.0005 ITGB1BP1	integrin be protein_co	2	9403475	9423547	-1	p25.1
ENSG00000146729	0.4783	1.3931	0.0016	0.0062 GBAS	glioblaston protein_co	7	55951793	56000181	1	p11.2
ENSG00000112559	0.4782	1.393	0.0011	0.0047 MDFI	MyoD fami protein_co	6	41636882	41654246	1	p21.1
ENSG00000134440	0.478	1.3928	4.64E-10	8.56E-09 NARS	asparaginy protein_co	18	57600656	57622213	-1	q21.31
ENSG00000171204	0.4779	1.3927	0.0047	0.0159 TMEM126B	transmemt protein_co	11	85628573	85636539	1	q14.1
ENSG00000004766	0.4777	1.3926	9.92E-05	0.0005 CCDC132	coiled-coil protein_co	7	93232340	93361121	1	q21.2
ENSG00000146409	0.4775	1.3923	9.22E-05	0.0005 SLC18B1	solute carri protein_co	6	1.33E+08	1.33E+08	-1	q23.2
ENSG00000140259	0.4773	1.3921	5.05E-07	4.70E-06 MFAP1	microfibrill protein_co	15	43804492	43824802	-1	q15.3
ENSG00000102897	0.4773	1.3921	1.19E-05	8.12E-05 LYRM1	LYR motif c protein_co	16	20899868	20925006	1	p12.3
ENSG00000154153	0.4772	1.392	0.0148	0.0422 FAM134B	family with protein_co	5	16473038	16617058	-1	p15.1
ENSG00000165416	0.477	1.3919	0.0002	0.0011 SUGT1	SGT1, supp protein_co	13	52652709	52700909	1	q14.3
ENSG00000135452	0.4769	1.3917	3.83E-07	3.66E-06 TSPAN31	tetraspanin protein_co	12	57738013	57750211	1	q14.1
ENSG00000171824	0.4767	1.3915	1.33E-07	1.42E-06 EXOSC10	exosome c protein_co	1	11066618	11099881	-1	p36.22
ENSG00000160336	0.4765	1.3914	6.72E-05	0.0004 ZNF761	zinc finger protein_co	19	53431993	53458261	1	q13.42
ENSG00000066651	0.4764	1.3913	0.0009	0.0037 TRMT11	tRNA meth protein_co	6	1.26E+08	1.26E+08	1	q22.32
ENSG00000138138	0.4763	1.3912	0.0001	0.0008 ATAD1	ATPase fan protein_co	10	87751512	87841343	-1	q23.31
ENSG00000196284	0.4762	1.3911	0.0022	0.0081 SUPT3H	suppressor protein_co	6	44809317	45377953	-1	p21.1
ENSG00000129968	0.4761	1.391	1.71E-06	1.40E-05 ABHD17A	abhydrolas protein_co	19	1876810	1885547	-1	p13.3
ENSG00000240342	0.476	1.3909	0.0032	0.0115 RPS2P5	ribosomal j processed_	12	1.18E+08	1.18E+08	1	q24.23
ENSG00000142544	0.476	1.3909	0.0159	0.0446 CTU1	cytosolic th protein_co	19	51097606	51108370	-1	q13.41
ENSG00000143353	0.4752	1.3901	0.0006	0.0025 LYPLAL1	lysophosph protein_co	1	2.19E+08	2.19E+08	1	q41
ENSG00000094755	0.4752	1.3901	0.0048	0.016 GABRP	gamma-arr protein_co	5	1.71E+08	1.71E+08	1	q35.1
ENSG00000155876	0.475	1.3899	1.97E-07	2.02E-06 RRAGA	Ras-relatec protein_co	9	19049395	19050983	1	p22.1
ENSG00000168282	0.4749	1.3898	0.0001	0.0006 MGAT2	mannosyl ( protein_co	14	49620795	49623481	1	q21.3
ENSG00000135916	0.4748	1.3897	0.0074	0.0234 ITM2C	integral me protein_co	2	2.31E+08	2.31E+08	1	q37.1
ENSG00000088451	0.4745	1.3895	0.0011	0.0045 TGDS	TDP-glucos protein_co	13	94574051	94596257	-1	q32.1
ENSG00000188343	0.4745	1.3894	0.0045	0.0152 FAM92A1	family with protein_co	8	93698561	93731527	1	q22.1

ENSG00000114125	0.4743	1.3892	1.08E-08	1.48E-07	RNF7	ring finger protein_co	3	1.42E+08	1.42E+08	1	q23
ENSG00000177054	0.4743	1.3892	0.0009	0.0037	ZDHHC13	zinc finger, protein_co	11	19117099	19176422	1	p15.1
ENSG00000178035	0.4742	1.3891	0.0063	0.0203	IMPDH2	IMP (inosin protein_co	3	49024325	49029408	-1	p21.31
ENSG00000167196	0.4741	1.389	0.0006	0.0027	FBXO22	F-box prote protein_co	15	75903859	75942510	1	q24.2
ENSG00000259431	0.474	1.3889	0.0136	0.0391	THTPA	thiamine tr protein_co	14	23555988	23560271	1	q11.2
ENSG00000169403	0.4739	1.3888	7.61E-07	6.81E-06	PTAFR	platelet-aci protein_co	1	28147166	28193936	-1	p35.3
ENSG00000105701	0.4737	1.3886	1.71E-11	4.30E-10	FKBP8	FK506 bind protein_co	19	18531751	18544077	-1	p13.11
ENSG00000124802	0.4737	1.3886	0.0149	0.0423	EEF1E1	eukaryotic protein_co	6	8073360	8102578	-1	p24.3
ENSG00000169021	0.4734	1.3884	1.34E-05	9.07E-05	UQCRCFS1	ubiquinol-c protein_co	19	29205321	29213541	-1	q12
ENSG00000116874	0.4735	1.3884	0.0095	0.0291	WARS2	tryptophan protein_co	1	1.19E+08	1.19E+08	-1	p12
ENSG00000005175	0.4733	1.3883	5.46E-05	0.0003	RPAP3	RNA polym protein_co	12	47661249	47706061	-1	q13.11
ENSG00000187118	0.473	1.388	0.0012	0.0048	CMC1	C-x(9)-C mc protein_co	3	28241584	28325142	1	p24.1
ENSG00000100823	0.4721	1.3871	1.85E-07	1.90E-06	APEX1	APEX nucle protein_co	14	20455191	20457772	1	q11.2
ENSG0000013503	0.4718	1.3869	8.22E-05	0.0005	POLR3B	polymerase protein_co	12	1.06E+08	1.07E+08	1	q23.3
ENSG00000168556	0.4714	1.3865	0.0016	0.0063	ING2	inhibitor of protein_co	4	1.84E+08	1.84E+08	1	q35.1
ENSG00000102007	0.4709	1.386	0.0003	0.0016	PLP2	proteolipid protein_co X		49171926	49175239	1	p11.23
ENSG00000162642	0.4702	1.3853	0.0001	0.0007	C1orf52	chromosom protein_co	1	85249953	85259672	-1	p22.3
ENSG00000161016	0.4698	1.3849	0.0003	0.0016	RPL8	ribosomal l protein_co	8	1.45E+08	1.45E+08	-1	q24.3
ENSG00000269386	0.4695	1.3846	0.0053	0.0175	RAB11B-AS1	RAB11B an antisense	19	8374373	8390685	-1	p13.2
ENSG00000099901	0.4689	1.3841	0.0003	0.0016	RANBP1	RAN bindin protein_co	22	20115938	20127357	1	q11.21
ENSG00000165533	0.4688	1.384	0.0003	0.0013	TTC8	tetratricop protein_co	14	88824153	88881078	1	q31.3
ENSG00000168374	0.4685	1.3836	0.0028	0.0101	ARF4	ADP-ribosy protein_co	3	57571363	57598220	-1	p14.3
ENSG00000204070	0.4683	1.3835	0.0006	0.0028	SYS1	Sys1 golgi t protein_co	20	45361937	45376798	1	q13.12
ENSG00000109762	0.468	1.3832	0.0096	0.0291	SNX25	sorting nex protein_co	4	1.85E+08	1.85E+08	1	q35.1
ENSG00000198000	0.4672	1.3824	6.81E-07	6.15E-06	NOL8	nucleolar p protein_co	9	92297358	92325636	-1	q22.31
ENSG00000112130	0.4672	1.3824	4.08E-05	0.0002	RNF8	ring finger protein_co	6	37353972	37394738	1	p21.2
ENSG00000123595	0.4664	1.3817	1.54E-07	1.62E-06	RAB9A	RAB9A, me protein_co X		13689121	13710506	1	p22.2
ENSG00000082212	0.4663	1.3815	9.87E-08	1.08E-06	ME2	malic enzy protein_co	18	50879049	50954257	1	q21.2
ENSG00000134001	0.4662	1.3814	2.25E-12	7.01E-11	EIF2S1	eukaryotic protein_co	14	67359997	67386516	1	q23.3
ENSG00000183291	0.4661	1.3814	6.89E-06	4.99E-05		15-Sep 15 kDa sele protein_co	1	86862445	86914424	-1	p22.3
ENSG00000063854	0.4662	1.3814	0.0006	0.0026	HAGH	hydroxyacy protein_co	16	1795620	1827194	-1	p13.3
ENSG00000243678	0.4662	1.3814	0.0078	0.0243	NME1-NME2	NME1-NMI protein_co	17	51165435	51171747	1	q21.33
ENSG00000174780	0.4659	1.3812	7.45E-06	5.35E-05	SRP72	signal reco protein_co	4	56466915	56503680	1	q12
ENSG00000101391	0.4657	1.381	9.61E-06	6.74E-05	CDK5RAP1	CDK5 regul protein_co	20	33358839	33401561	-1	q11.21
ENSG00000125457	0.4656	1.3809	0.0002	0.001	MIF4GD	MIF4G don protein_co	17	75266228	75271227	-1	q25.1
ENSG00000174021	0.4653	1.3806	1.19E-08	1.60E-07	GNG5	guanine nu protein_co	1	84498325	84506565	-1	p22.3
ENSG00000122643	0.4653	1.3806	6.54E-05	0.0004	NT5C3A	5'-nucleoti protein_co	7	33014114	33062797	-1	p14.3



ENSG00000144635	0.4651	1.3805	1.18E-09	1.98E-08	DYNC1LI1	dynein, cyt protein_co	3	32525971	32570874	-1	p22.3
ENSG00000197808	0.4649	1.3802	0.0008	0.0035	ZNF461	zinc finger protein_co	19	36637192	36666853	-1	q13.12
ENSG00000137714	0.4648	1.3801	1.57E-08	2.06E-07	FDX1	ferredoxin protein_co	11	1.1E+08	1.1E+08	1	q22.3
ENSG00000276291	0.4647	1.38	0.0106	0.0318	RP11-87H9.2	transcribec	9	40992249	41217197	1	p11.2
ENSG00000177600	0.4645	1.3799	0.0008	0.0034	RPLP2	ribosomal protein_co	11	809647	812880	1	p15.5
ENSG00000196757	0.4645	1.3798	0.0022	0.0082	ZNF700	zinc finger protein_co	19	11925068	11950773	1	p13.2
ENSG00000131236	0.4643	1.3797	0.0001	0.0006	CAP1	CAP, adenyl protein_co	1	40040233	40072649	1	p34.2
ENSG00000072506	0.4642	1.3795	9.32E-05	0.0005	HSD17B10	hydroxyste protein_co X		53431258	53434373	-1	p11.22
ENSG00000143543	0.4632	1.3786	3.39E-07	3.28E-06	JTB	jumping tra protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000169964	0.463	1.3784	0.001	0.0043	TMEM42	transmeml protein_co	3	44861869	44865670	1	p21.31
ENSG00000114742	0.4628	1.3783	3.78E-05	0.0002	WDR48	WD repeat protein_co	3	39051998	39096671	1	p22.2
ENSG00000116752	0.4628	1.3782	7.52E-07	6.73E-06	BCAS2	breast carc protein_co	1	1.15E+08	1.15E+08	-1	p13.2
ENSG00000180573	0.4628	1.3782	0.0038	0.0132	HIST1H2AC	histone clu protein_co	6	26124145	26139116	1	p22.2
ENSG00000105829	0.4628	1.3782	0.0051	0.017	BET1	Bet1 golgi protein_co	7	93962762	94004382	-1	q21.3
ENSG00000242779	0.4619	1.3774	0.0021	0.0079	ZNF702P	zinc finger transcribec	19	52968251	53037898	-1	q13.41
ENSG00000170961	0.4619	1.3774	0.0026	0.0096	HAS2	hyaluronar protein_co	8	1.22E+08	1.22E+08	-1	q24.13
ENSG00000100814	0.4613	1.3768	0.0133	0.0386	CCNB1IP1	cyclin B1 in protein_co	14	20311368	20333312	-1	q11.2
ENSG00000141198	0.4613	1.3767	3.26E-05	0.0002	TOM1L1	target of m protein_co	17	54899387	54961956	1	q22
ENSG00000196204	0.4611	1.3765	0.0045	0.0153	RNF216P1	ring finger transcribec	7	4973988	5040675	1	p22.1
ENSG00000165660	0.4609	1.3764	2.46E-05	0.0002	FAM175B	family with protein_co	10	1.25E+08	1.25E+08	1	q26.13
ENSG00000115271	0.4609	1.3764	0.0003	0.0014	GCA	grancalcin, protein_co	2	1.62E+08	1.62E+08	1	q24.2
ENSG00000088766	0.4606	1.3762	0.0002	0.001	CRLS1	cardiolipin protein_co	20	6006090	6040053	1	p12.3
ENSG00000188641	0.4605	1.376	0.0034	0.0121	DPYD	dihydropyr protein_co	1	97077743	97921049	-1	p21.3
ENSG00000109775	0.4601	1.3756	6.39E-05	0.0004	UFSP2	UFM1-spec protein_co	4	1.85E+08	1.85E+08	-1	q35.1
ENSG00000143536	0.46	1.3756	0.0161	0.045	CRNN	cornulin [S] protein_co	1	1.52E+08	1.52E+08	-1	q21.3
ENSG00000117906	0.4596	1.3751	0.001	0.0043	RCN2	reticulocal protein_co	15	76931619	76954392	1	q24.3
ENSG00000026103	0.4594	1.375	0.0152	0.0432	FAS	Fas cell sur protein_co	10	88990531	89015785	1	q23.31
ENSG00000163611	0.4586	1.3742	0.0065	0.0208	SPICE1	spindle anc protein_co	3	1.13E+08	1.14E+08	-1	q13.2
ENSG00000110696	0.4585	1.3741	3.30E-06	2.54E-05	C11orf58	chromoson protein_co	11	16613132	16756881	1	p15.2
ENSG00000119616	0.4585	1.3741	6.26E-05	0.0004	FCF1	FCF1 rRNA- protein_co	14	74713144	74738620	1	q24.3
ENSG00000212907	0.4584	1.374	0.0005	0.0021	MT-ND4L	mitochond protein_co MT		10470	10766	1	
ENSG00000106305	0.4578	1.3734	2.51E-05	0.0002	AIMP2	aminoacyl protein_co	7	6009245	6023834	1	p22.1
ENSG00000198513	0.4576	1.3733	0.0011	0.0047	ATL1	atlastin GT protein_co	14	50532509	50633068	1	q22.1
ENSG00000136770	0.4577	1.3733	0.0024	0.0091	DNAJC1	DnaJ (Hsp4 protein_co	10	21756537	22003769	-1	p12.31
ENSG00000009307	0.4574	1.3731	2.50E-08	3.13E-07	CSDE1	cold shock protein_co	1	1.15E+08	1.15E+08	-1	p13.2
ENSG00000008869	0.4575	1.3731	3.88E-08	4.69E-07	HEATR5B	HEAT repe: protein_co	2	36968383	37084342	-1	p22.2
ENSG00000168275	0.4574	1.3731	0.0008	0.0036	COA6	cytochrom protein_co	1	2.34E+08	2.34E+08	1	q42.2

ENSG00000100722	0.4573	1.373	1.20E-05	8.21E-05	ZC3H14	zinc finger protein_co	14	88562909	88627596	1	q31.3
ENSG00000156170	0.4573	1.373	0.0015	0.006	NDUFAF6	NADH dehydrogenase protein_co	8	94895767	95116455	1	q22.1
ENSG00000004059	0.4569	1.3726	9.73E-07	8.51E-06	ARF5	ADP-ribosyltransferase protein_co	7	1.28E+08	1.28E+08	1	q32.1
ENSG00000121316	0.4569	1.3726	0.0159	0.0446	PLBD1	phospholipase protein_co	12	14503661	14568349	-1	p13.1
ENSG00000141349	0.4566	1.3723	1.29E-06	1.10E-05	G6PC3	glucose 6-phosphate protein_co	17	44070735	44076344	1	q21.31
ENSG00000153292	0.456	1.3717	6.35E-06	4.63E-05	GPR110	G-protein-coupled protein_co	6	46997703	47042363	-1	p12.3
ENSG00000117691	0.4554	1.3711	0.0004	0.0019	NENF	neudesin protein_co	1	2.12E+08	2.12E+08	1	q32.3
ENSG00000124275	0.4553	1.371	3.44E-05	0.0002	MTRR	5-methyltetrahydrofolate protein_co	5	7851186	7906025	1	p15.31
ENSG00000162144	0.4549	1.3707	0.002	0.0076	CYB561A3	cytochrome b5 protein_co	11	61348745	61362299	-1	q12.2
ENSG00000115548	0.4548	1.3706	7.74E-06	5.54E-05	KDM3A	lysine (K)-methyltransferase protein_co	2	86440647	86492716	1	p11.2
ENSG00000120158	0.4546	1.3704	0.001	0.0041	RCL1	RNA terminal phosphatase protein_co	9	4792834	4885917	1	p24.1
ENSG00000181315	0.4542	1.37	4.15E-06	3.13E-05	ZNF322	zinc finger protein_co	6	26634383	26659752	-1	p22.2
ENSG00000120333	0.4541	1.37	0.0001	0.0007	MRPS14	mitochondrial ribosomal protein_co	1	1.75E+08	1.75E+08	-1	q25.1
ENSG00000008952	0.4538	1.3696	0.0006	0.0026	SEC62	SEC62 homolog protein_co	3	1.7E+08	1.7E+08	1	q26.2
ENSG00000169249	0.4534	1.3693	0.0002	0.0009	ZRSR2	zinc finger protein_co X		15790472	15823260	1	p22.2
ENSG00000120837	0.4534	1.3693	0.0006	0.0026	NFYB	nuclear transcription factor protein_co	12	1.04E+08	1.04E+08	-1	q23.3
ENSG00000166477	0.4528	1.3687	8.59E-05	0.0005	LEO1	Leo1, Paf1C1 protein_co	15	51938025	51971806	-1	q21.2
ENSG00000149923	0.4525	1.3684	5.35E-12	1.52E-10	PPP4C	protein phosphatase protein_co	16	30075978	30085377	1	p11.2
ENSG00000240225	0.4525	1.3684	5.46E-06	4.02E-05	ZNF542P	zinc finger transcription factor protein_co	19	56368099	56379828	1	q13.43
ENSG00000120662	0.4525	1.3684	0.0031	0.0111	MTRF1	mitochondrial ribosomal protein_co	13	41216369	41263577	-1	q14.11
ENSG00000141429	0.4525	1.3684	0.0036	0.0124	GALNT1	polypeptide N-galactosyltransferase protein_co	18	35581117	35711834	1	q12.2
ENSG00000176473	0.4519	1.3679	0.0032	0.0113	WDR25	WD repeat domain protein_co	14	1E+08	1.01E+08	1	q32.2
ENSG00000196465	0.452	1.3679	0.0046	0.0155	MYL6B	myosin, light chain protein_co	12	56152256	56159647	1	q13.2
ENSG00000175455	0.4518	1.3677	0.0011	0.0045	CCDC14	coiled-coil domain protein_co	3	1.24E+08	1.24E+08	-1	q21.1
ENSG00000188612	0.4517	1.3676	8.53E-05	0.0005	SUMO2	small ubiquitin-like protein_co	17	75165586	75182983	-1	q25.1
ENSG00000143162	0.4515	1.3675	0.0007	0.003	CREG1	cellular repressor protein_co	1	1.68E+08	1.68E+08	-1	q24.2
ENSG00000100462	0.4515	1.3675	0.0052	0.0173	PRMT5	protein arginine methyltransferase protein_co	14	22920511	22929585	-1	q11.2
ENSG00000107798	0.4514	1.3673	4.65E-05	0.0003	LIPA	lipase A, cytosolic protein_co	10	89213569	89414557	-1	q23.31
ENSG00000100225	0.451	1.367	5.99E-14	2.77E-12	FBXO7	F-box protein protein_co	22	32474676	32498829	1	q12.3
ENSG00000083720	0.4509	1.3669	0.002	0.0077	OXCT1	3-oxoacid coenzyme A ligase protein_co	5	41730065	41870519	-1	p13.1
ENSG00000172183	0.4506	1.3666	0.0018	0.0069	ISG20	interferon gamma protein_co	15	88636153	88656483	1	q26.1
ENSG00000147121	0.4506	1.3666	0.0084	0.026	KRBOX4	KRAB box containing protein_co X		46446857	46497422	1	p11.3
ENSG00000133114	0.4504	1.3665	0.0003	0.0016	GPALPP1	GPALPP methyltransferase protein_co	13	44989529	45037669	1	q14.12
ENSG00000066557	0.4502	1.3662	0.0134	0.0388	LRRC40	leucine rich repeat protein_co	1	70144805	70205620	-1	p31.1
ENSG00000165359	0.4497	1.3658	0.0038	0.0132	DDX26B	DEAD/H box protein_co X		1.36E+08	1.36E+08	1	q26.3
ENSG00000176973	0.4497	1.3658	0.0177	0.0488	FAM89B	family with sequence similarity protein_co	11	65572349	65574198	1	q13.1
ENSG00000185825	0.4496	1.3657	1.26E-09	2.09E-08	BCAP31	B-cell receptor protein_co X		1.54E+08	1.54E+08	-1	q28

ENSG00000166598	0.4496	1.3657	0.0011	0.0044	HSP90B1	heat shock protein_co	12	1.04E+08	1.04E+08	1	q23.3
ENSG00000165704	0.4494	1.3655	5.51E-05	0.0003	HPRT1	hypoxanthi protein_co X		1.34E+08	1.35E+08	1	q26.2
ENSG00000176399	0.4481	1.3643	0.0033	0.0117	DMRTA1	DMRT-like protein_co	9	22446841	22455740	1	p21.3
ENSG00000079134	0.4479	1.364	0.0001	0.0006	THOC1	THO compl protein_co	18	214520	268050	-1	p11.32
ENSG00000106105	0.4472	1.3634	0.0002	0.0011	GARS	glycyl-tRNA <sup>Arg</sup> protein_co	7	30594681	30634033	1	p14.3
ENSG00000198093	0.447	1.3632	0.0069	0.022	ZNF649	zinc finger protein_co	19	51889224	51905040	-1	q13.41
ENSG00000064490	0.4467	1.3629	3.40E-05	0.0002	RFXANK	regulatory protein_co	19	19192229	19201869	1	p13.11
ENSG00000147533	0.4465	1.3627	7.48E-09	1.07E-07	GOLGA7	golgin A7 [1: protein_co	8	41490396	41510980	1	p11.21
ENSG00000104915	0.4462	1.3624	3.96E-06	3.00E-05	STX10	syntaxin 1C protein_co	19	13144058	13150383	-1	p13.13
ENSG00000117859	0.4459	1.3622	1.60E-05	0.0001	OSBPL9	oxysterol b protein_co	1	51577179	51798427	1	p32.3
ENSG00000133103	0.4455	1.3618	2.08E-06	1.67E-05	COG6	componen protein_co	13	39655627	39791665	1	q14.11
ENSG00000163191	0.4453	1.3616	3.62E-06	2.76E-05	S100A11	S100 calciu protein_co	1	1.52E+08	1.52E+08	-1	q21.3
ENSG00000158623	0.4453	1.3616	1.18E-05	8.12E-05	COPG2	coatomer $\zeta$ protein_co	7	1.31E+08	1.31E+08	-1	q32.2
ENSG00000078142	0.4449	1.3612	3.74E-07	3.58E-06	PIK3C3	phosphatic protein_co	18	41955206	42087830	1	q12.3
ENSG00000141504	0.4449	1.3612	0.0004	0.0018	SAT2	spermidine protein_co	17	7626234	7627876	-1	p13.1
ENSG00000135148	0.4448	1.3611	9.28E-09	1.29E-07	TRAFD1	TRAF-type protein_co	12	1.12E+08	1.12E+08	1	q24.13
ENSG00000001497	0.4446	1.3609	9.78E-06	6.83E-05	LAS1L	LAS1-like ( $\zeta$ ) protein_co X		65512582	65534775	-1	q12
ENSG00000135249	0.4446	1.3609	0.0001	0.0007	RINT1	RAD50 inte protein_co	7	1.06E+08	1.06E+08	1	q22.3
ENSG00000257267	0.4443	1.3607	1.50E-06	1.25E-05	ZNF271P	zinc finger unitary_psi	18	35290282	35310766	1	q12.2
ENSG00000184840	0.4444	1.3607	0.0017	0.0066	TMED9	transmemk protein_co	5	1.78E+08	1.78E+08	1	q35.3
ENSG00000131871	0.4442	1.3606	1.25E-05	8.52E-05	VIMP	VCP-intera protein_co	15	1.01E+08	1.01E+08	-1	q26.3
ENSG00000107745	0.4441	1.3605	5.42E-08	6.29E-07	MICU1	mitochond protein_co	10	72367327	72626191	-1	q22.1
ENSG00000103429	0.444	1.3604	0.0002	0.0009	BFAR	bifunctiona protein_co	16	14632815	14669236	1	p13.12
ENSG00000088832	0.4439	1.3603	3.54E-10	6.76E-09	FKBP1A	FK506 bind protein_co	20	1368978	1393172	-1	p13
ENSG00000107371	0.4437	1.3601	0.0008	0.0034	EXOSC3	exosome c1 protein_co	9	37766978	37801437	-1	p13.2
ENSG00000047230	0.4436	1.36	0.0037	0.0129	CTPS2	CTP syntha protein_co X		16588003	16712936	-1	p22.2
ENSG00000189280	0.4434	1.3598	0.0012	0.0049	GJB5	gap junctio protein_co	1	34755047	34758512	1	p34.3
ENSG00000276234	0.4429	1.3593	0.0055	0.0181	TADA2A	transcriptic protein_co	17	37406874	37479730	1	q12
ENSG00000241058	0.4424	1.3589	0.0032	0.0113	NSUN6	NOP2/Sun protein_co	10	18545561	18651622	-1	p12.31
ENSG00000198707	0.4424	1.3588	0.0074	0.0235	CEP290	centrosom protein_co	12	88049014	88142216	-1	q21.32
ENSG00000067221	0.4423	1.3587	0.0023	0.0087	STOML1	stomatin ( $\epsilon$ ) protein_co	15	73978923	73994622	-1	q24.1
ENSG00000147316	0.4414	1.3579	0.0004	0.0018	MCPH1	microceph; protein_co	8	6406592	6643623	1	p23.1
ENSG00000167747	0.4414	1.3579	0.0165	0.0461	C19orf48	chromosom protein_co	19	50797704	50804929	-1	q13.33
ENSG00000132305	0.4407	1.3573	1.08E-06	9.35E-06	IMMT	inner mem protein_co	2	86143932	86195770	-1	p11.2
ENSG00000105865	0.4408	1.3573	0.0027	0.0098	DUS4L	dihydrouric protein_co	7	1.08E+08	1.08E+08	1	q22.3
ENSG00000100558	0.4408	1.3573	0.0119	0.035	PLEK2	pleckstrin $\zeta$ protein_co	14	67386983	67412200	-1	q24.1
ENSG00000138029	0.4404	1.3569	1.50E-05	0.0001	HADHB	hydroxyacy protein_co	2	26243170	26290468	1	p23.3

ENSG00000206337	0.4397	1.3564	0.0009	0.004 HCP5	HLA compl sense_ove	6	31400702	31477506	1 p21.33
ENSG00000140988	0.4397	1.3563	0.003	0.0108 RPS2	ribosomal protein_co	16	1962052	1964860	-1 p13.3
ENSG00000182923	0.439	1.3556	0.0003	0.0013 CEP63	centrosom protein_co	3	1.34E+08	1.35E+08	1 q22.2
ENSG00000166529	0.4384	1.3551	0.0078	0.0244 ZSCAN21	zinc finger protein_co	7	1E+08	1E+08	1 q22.1
ENSG00000124380	0.4379	1.3546	0.0016	0.0062 SNRNP27	small nucle protein_co	2	69893560	69905575	1 p13.3
ENSG00000138744	0.4378	1.3546	0.0056	0.0183 NAAA	N-acyletha protein_co	4	75913657	75941051	-1 q21.1
ENSG00000153975	0.4377	1.3544	0.0015	0.0059 ZUFSP	zinc finger protein_co	6	1.17E+08	1.17E+08	-1 q22.1
ENSG00000137500	0.4376	1.3544	0.0022	0.0084 CCDC90B	coiled-coil protein_co	11	83259097	83286407	-1 q14.1
ENSG0000010244	0.4375	1.3542	7.98E-11	1.75E-09 ZNF207	zinc finger protein_co	17	32350117	32381886	1 q11.2
ENSG00000166200	0.4374	1.3541	0.0002	0.0011 COPS2	COP9 signa protein_co	15	49106068	49155661	-1 q21.1
ENSG00000139372	0.437	1.3538	0.0002	0.0009 TDG	thymine-DI protein_co	12	1.04E+08	1.04E+08	1 q23.3
ENSG00000106524	0.4367	1.3535	2.54E-06	2.00E-05 ANKMY2	ankyrin ref protein_co	7	16599776	16645817	-1 p21.1
ENSG00000177830	0.4362	1.3531	3.96E-07	3.77E-06 CHID1	chitinase d protein_co	11	867860	915058	-1 p15.5
ENSG00000132646	0.4363	1.3531	0.0003	0.0014 PCNA	proliferatin protein_co	20	5114953	5126626	-1 p12.3
ENSG00000035141	0.4361	1.3529	1.15E-07	1.24E-06 FAM136A	family with protein_co	2	70295975	70302090	-1 p13.3
ENSG00000132591	0.4357	1.3525	1.06E-05	7.39E-05 ERAL1	Era-like 12 protein_co	17	28854938	28861067	1 q11.2
ENSG00000171843	0.4355	1.3524	2.75E-05	0.0002 MLLT3	myeloid/ly protein_co	9	20341665	20622543	-1 p21.3
ENSG00000090612	0.4354	1.3523	5.43E-05	0.0003 ZNF268	zinc finger protein_co	12	1.33E+08	1.33E+08	1 q24.33
ENSG00000168090	0.4351	1.352	1.96E-06	1.59E-05 COPS6	COP9 signa protein_co	7	1E+08	1E+08	1 q22.1
ENSG00000138442	0.435	1.352	1.80E-05	0.0001 WDR12	WD repeat protein_co	2	2.03E+08	2.03E+08	-1 q33.2
ENSG00000124357	0.4348	1.3518	0.0001	0.0007 NAGK	N-acetyglu protein_co	2	71064344	71079805	1 p13.3
ENSG00000151881	0.4343	1.3513	0.0048	0.0161 C5orf28	chromoson protein_co	5	43444252	43483893	-1 p12
ENSG00000090054	0.4338	1.3508	1.20E-05	8.21E-05 SPTLC1	serine paln protein_co	9	92031999	92115384	-1 q22.31
ENSG00000113161	0.4337	1.3507	1.81E-06	1.47E-05 HMGCR	3-hydroxy- protein_co	5	75336329	75362104	1 q13.3
ENSG00000168938	0.4335	1.3505	0.0001	0.0007 PPIC	peptidylprc protein_co	5	1.23E+08	1.23E+08	-1 q23.2
ENSG00000100478	0.4333	1.3503	0.0096	0.0291 AP4S1	adaptor-re protein_co	14	31025106	31096450	1 q12
ENSG00000145687	0.4329	1.35	0.0038	0.0132 SSBP2	single-strar protein_co	5	81413021	81751797	-1 q14.1
ENSG00000132600	0.4329	1.35	0.005	0.0166 PRMT7	protein arg protein_co	16	68310974	68358563	1 q22.1
ENSG00000083099	0.4329	1.3499	1.40E-05	9.44E-05 LYRM2	LYR motif c protein_co	6	89568144	89638753	-1 q15
ENSG00000111875	0.4329	1.3499	5.98E-05	0.0003 ASF1A	anti-silenci protein_co	6	1.19E+08	1.19E+08	1 q22.31
ENSG00000132541	0.4323	1.3494	0.0064	0.0206 HRSP12	heat-respo protein_co	8	98102344	98117241	-1 q22.2
ENSG00000154814	0.4321	1.3492	0.0008	0.0034 OXNAD1	oxidoreduc protein_co	3	16265199	16350299	1 p25.1
ENSG00000123545	0.4318	1.3489	0.0029	0.0106 NDUFAF4	NADH deh protein_co	6	96889313	96897881	-1 q16.1
ENSG00000168522	0.4317	1.3488	2.33E-06	1.85E-05 FNNTA	farnesyltra protein_co	8	43034194	43085788	1 p11.21
ENSG00000244754	0.4316	1.3487	0.0004	0.0017 N4BP2L2	NEDD4 bin protein_co	13	32432417	32538885	-1 q13.1
ENSG00000120699	0.4314	1.3486	0.0007	0.0032 EXOSC8	exosome c protein_co	13	36998816	37009613	1 q13.3
ENSG00000104518	0.4313	1.3485	0.0004	0.0017 GSDMD	gasdermin protein_co	8	1.44E+08	1.44E+08	1 q24.3

ENSG00000233621	0.4311	1.3483	0.0139	0.0399	LINC01137	long interg antisense	1	37454879	37474411	-1	p34.3
ENSG00000124207	0.4309	1.3481	4.84E-05	0.0003	CSE1L	CSE1 chron protein_co	20	49046246	49096960	1	q13.13
ENSG00000134283	0.4305	1.3477	8.15E-07	7.24E-06	PPHLN1	periphilin 1 protein_co	12	42238447	42459715	1	q12
ENSG00000146232	0.4305	1.3477	0.0145	0.0413	NFKBIE	nuclear fac protein_co	6	44258166	44265788	-1	p21.1
ENSG00000122705	0.4303	1.3475	4.80E-07	4.48E-06	CLTA	clathrin, lig protein_co	9	36190856	36304781	1	p13.3
ENSG00000173409	0.4303	1.3475	0.0003	0.0016	ARV1	ARV1 hom protein_co	1	2.31E+08	2.31E+08	1	q42.2
ENSG00000132661	0.4303	1.3475	0.0006	0.0025	NXT1	nuclear tra protein_co	20	23350736	23354777	1	p11.21
ENSG00000111142	0.43	1.3473	2.35E-05	0.0002	METAP2	methionyl protein_co	12	95473520	95515839	1	q22
ENSG00000152219	0.43	1.3473	0.0007	0.0029	ARL14EP	ADP-ribosy protein_co	11	30323051	30338227	1	p14.1
ENSG00000189050	0.43	1.3472	0.0081	0.0252	RNFT1	ring finger protein_co	17	59952240	59964761	-1	q23.1
ENSG00000277972	0.4298	1.3471	0.0002	0.0012	CISD3	CDGSH iron protein_co	17	38730235	38735044	1	q12
ENSG00000148688	0.4298	1.347	0.0002	0.0011	RPP30	ribonuclea protein_co	10	90871716	90908553	1	q23.31
ENSG00000149792	0.4295	1.3467	0.0091	0.0279	MRPL49	mitochond protein_co	11	65122183	65127371	1	q13.1
ENSG00000092094	0.4292	1.3465	0.0005	0.0022	OSGEP	O-sialoglyc protein_co	14	20446411	20455105	-1	q11.2
ENSG00000092010	0.4291	1.3464	7.77E-09	1.11E-07	PSME1	proteasom protein_co	14	24136158	24138967	1	q12
ENSG00000196116	0.429	1.3463	5.51E-05	0.0003	TDRD7	tudor dom protein_co	9	97411950	97496125	1	q22.33
ENSG00000147439	0.4289	1.3462	8.19E-05	0.0005	BIN3	bridging in protein_co	8	22620418	22669148	-1	p21.3
ENSG00000144746	0.4289	1.3462	0.0161	0.0451	ARL6IP5	ADP-ribosy protein_co	3	69084944	69106066	1	p14.1
ENSG00000274605	0.4287	1.3461	0.0158	0.0445	RP11-12G12.7	lincRNA	13	1E+08	1E+08	-1	q32.3
ENSG00000242247	0.4286	1.346	2.38E-05	0.0002	ARFGAP3	ADP-ribosy protein_co	22	42796502	42858106	-1	q13.2
ENSG00000247828	0.4287	1.346	0.0116	0.0343	TMEM161B-AS1	TMEM161f antisense	5	88268895	88436685	1	q14.3
ENSG00000124356	0.4286	1.3459	7.56E-07	6.77E-06	STAMPB	STAM bind protein_co	2	73828916	73873659	1	p13.1
ENSG00000107537	0.4285	1.3458	0.0041	0.014	PHYH	phytanoyl protein_co	10	13277796	13302412	-1	p13
ENSG00000159596	0.4283	1.3457	1.05E-05	7.30E-05	TMEM69	transmemt protein_co	1	45687214	45694443	1	p34.1
ENSG00000152234	0.4283	1.3457	0.0001	0.0006	ATP5A1	ATP syntha protein_co	18	46080248	46104334	-1	q21.1
ENSG00000145912	0.4283	1.3456	0.0009	0.0037	NHP2	NHP2 ribor protein_co	5	1.78E+08	1.78E+08	-1	q35.3
ENSG00000000457	0.4283	1.3456	0.0032	0.0114	SCYL3	SCY1-like 3 protein_co	1	1.7E+08	1.7E+08	-1	q24.2
ENSG00000160948	0.4282	1.3455	2.52E-06	1.98E-05	VPS28	vacuolar pr protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000163479	0.428	1.3454	1.20E-06	1.02E-05	SSR2	signal sequ protein_co	1	1.56E+08	1.56E+08	-1	q22
ENSG00000109445	0.4278	1.3452	1.45E-05	9.74E-05	ZNF330	zinc finger protein_co	4	1.41E+08	1.41E+08	1	q31.21
ENSG00000196998	0.4278	1.3451	4.12E-06	3.11E-05	WDR45	WD repeat protein_co X		49074433	49101170	-1	p11.23
ENSG00000069812	0.4274	1.3448	0.0181	0.0496	HES2	hes family protein_co	1	6412418	6424670	-1	p36.31
ENSG00000160256	0.4271	1.3446	0.0023	0.0087	FAM207A	family with protein_co	21	44940010	44976989	1	q22.3
ENSG00000112367	0.4269	1.3444	2.36E-06	1.87E-05	FIG4	FIG4 phosp protein_co	6	1.1E+08	1.1E+08	1	q21
ENSG00000130165	0.4269	1.3444	0.0028	0.0102	ELOF1	elongation protein_co	19	11551147	11559236	-1	p13.2
ENSG00000153551	0.427	1.3444	0.0089	0.0275	CMTM7	CKLF-like IV protein_co	3	32391671	32483067	1	p22.3
ENSG00000150776	0.4267	1.3441	0.0004	0.0018	C11orf57	chromoson protein_co	11	1.12E+08	1.12E+08	1	q23.1



ENSG00000134602	0.4266	1.3441	0.0014	0.0057	STK26	serine/thre protein_co X	1.32E+08	1.32E+08	1 q26.2
ENSG00000116489	0.4265	1.3439	5.97E-05	0.0003	CAPZA1	capping pr protein_co	1 1.13E+08	1.13E+08	1 p13.2
ENSG00000103254	0.426	1.3435	0.004	0.0137	FAM173A	family with protein_co	16 720581	722601	1 p13.3
ENSG00000156026	0.4257	1.3433	9.43E-09	1.31E-07	MCU	mitochond protein_co	10 72692131	72887694	1 q22.1
ENSG00000061794	0.4258	1.3433	0.0005	0.0022	MRPS35	mitochond protein_co	12 27710773	27756295	1 p11.22
ENSG00000116353	0.4256	1.3431	0.0002	0.0012	MECR	mitochond protein_co	1 29192873	29230942	-1 p35.3
ENSG00000089127	0.4255	1.343	0.011	0.0327	OAS1	2'-5'-oligoa protein_co	12 1.13E+08	1.13E+08	1 q24.13
ENSG00000119559	0.425	1.3426	2.99E-06	2.32E-05	C19orf25	chromoson protein_co	19 1461143	1479556	-1 p13.3
ENSG00000134851	0.425	1.3425	0.0009	0.0036	TMEM165	transmeml protein_co	4 55395957	55453397	1 q12
ENSG00000138750	0.4248	1.3424	0.0006	0.0027	NUP54	nucleoporin protein_co	4 76114659	76148515	-1 q21.1
ENSG00000117335	0.4247	1.3423	0.0013	0.0054	CD46	CD46 mole protein_co	1 2.08E+08	2.08E+08	1 q32.2
ENSG00000205133	0.4241	1.3418	0.0051	0.0168	TRIQK	triple QxxK protein_co	8 92883530	93017673	-1 q22.1
ENSG00000171135	0.4238	1.3415	1.16E-05	7.97E-05	JAGN1	jagunal hor protein_co	3 9890554	9894349	1 p25.3
ENSG00000117592	0.4239	1.3415	1.38E-05	9.28E-05	PRDX6	peroxiredo protein_co	1 1.73E+08	1.73E+08	1 q25.1
ENSG00000091732	0.4239	1.3415	0.0005	0.0022	ZC3HC1	zinc finger, protein_co	7 1.3E+08	1.3E+08	-1 q32.2
ENSG00000164169	0.4239	1.3415	0.0025	0.0092	PRMT9	protein arg protein_co	4 1.48E+08	1.48E+08	-1 q31.23
ENSG00000099977	0.4237	1.3414	0.0002	0.0008	DDT	D-dopachr protein_co	22 23971365	23980469	-1 q11.23
ENSG00000115998	0.4233	1.341	0.0013	0.0051	C2orf42	chromoson protein_co	2 70149880	70248615	-1 p13.3
ENSG00000152348	0.4233	1.341	0.0021	0.0081	ATG10	autophagy protein_co	5 81972025	82276857	1 q14.1
ENSG00000205629	0.4231	1.3408	2.77E-06	2.16E-05	LCMT1	leucine car protein_co	16 25111729	25178231	1 p12.1
ENSG00000162623	0.4229	1.3406	5.47E-05	0.0003	TYW3	tRNA-yW s protein_co	1 74733152	74766678	1 p31.1
ENSG00000167720	0.4221	1.3399	0.0011	0.0047	SRR	serine race protein_co	17 2303383	2325260	1 p13.3
ENSG00000127980	0.4218	1.3396	0.0007	0.0032	PEX1	peroxisom protein_co	7 92487020	92528531	-1 q21.2
ENSG00000117751	0.4214	1.3392	7.89E-08	8.87E-07	PPP1R8	protein ph protein_co	1 27830778	27851676	1 p35.3
ENSG00000166004	0.4213	1.3391	0.0001	0.0006	CEP295	centrosom protein_co	11 93661639	93730358	1 q21
ENSG00000165669	0.4209	1.3387	5.65E-06	4.16E-05	FAM204A	family with protein_co	10 1.18E+08	1.18E+08	-1 q26.11
ENSG00000167705	0.4206	1.3385	0.0115	0.0339	RILP	Rab interac protein_co	17 1646145	1650077	-1 p13.3
ENSG00000198843	0.4204	1.3383	0.0009	0.0039	SELT	selenoprot protein_co	3 1.51E+08	1.51E+08	1 q25.1
ENSG00000145220	0.4204	1.3383	0.0148	0.0422	LYAR	Ly1 antibor protein_co	4 4267701	4290169	-1 p16.3
ENSG00000115211	0.4203	1.3382	4.04E-05	0.0002	EIF2B4	eukaryotic protein_co	2 27364352	27370486	-1 p23.3
ENSG00000139546	0.42	1.3379	0.0003	0.0016	TARBP2	TAR (HIV-1 protein_co	12 53500921	53506431	1 q13.13
ENSG00000100379	0.4197	1.3376	0.0162	0.0453	KCTD17	potassium protein_co	22 37051736	37063390	1 q12.3
ENSG00000112210	0.4196	1.3375	0.0006	0.0028	RAB23	RAB23, me protein_co	6 57186992	57222314	-1 p11.2
ENSG00000166012	0.4195	1.3374	0.0076	0.0238	TAF1D	TATA box t protein_co	11 93729948	93784391	-1 q21
ENSG00000150433	0.4191	1.3371	0.0081	0.0252	TMEM218	transmeml protein_co	11 1.25E+08	1.25E+08	-1 q24.2
ENSG00000128609	0.419	1.337	0.0017	0.0067	NDUFA5	NADH deh protein_co	7 1.24E+08	1.24E+08	-1 q31.32
ENSG00000124541	0.4188	1.3368	1.23E-05	8.37E-05	RRP36	ribosomal l protein_co	6 43021645	43034156	1 p21.1

ENSG00000078618	0.4187	1.3367	5.60E-07	5.17E-06	NRD1	nardilysin ( protein_co	1	51789191	51878937	-1	p32.3
ENSG00000109911	0.4183	1.3364	0.0017	0.0066	ELP4	elongator ε protein_co	11	31509750	31783998	1	p13
ENSG00000116791	0.4181	1.3362	0.0014	0.0056	CRYZ	crystallin, z protein_co	1	74705482	74733408	-1	p31.1
ENSG00000272888	0.4177	1.3358	0.0002	0.0008	AC013394.2	processed_	15	92882707	92899701	1	q26.1
ENSG00000166289	0.4175	1.3356	0.0094	0.0287	PLEKHF1	pleckstrin h protein_co	19	29665056	29675457	1	q12
ENSG00000014914	0.4174	1.3355	0.0082	0.0256	MTMR11	myotubula protein_co	1	1.5E+08	1.5E+08	-1	q21.2
ENSG00000184436	0.4171	1.3353	0.0005	0.0021	THAP7	THAP domain protein_co	22	20999104	21002196	-1	q11.21
ENSG00000135541	0.4172	1.3353	0.0041	0.0141	AHI1	Abelson h e protein_co	6	1.35E+08	1.35E+08	-1	q23.3
ENSG00000047315	0.417	1.3351	5.23E-10	9.51E-09	POLR2B	polymerase protein_co	4	56977722	57031168	1	q12
ENSG00000101457	0.4169	1.3351	0.0054	0.0178	DNTTIP1	deoxynucle protein_co	20	45791937	45811427	1	q13.12
ENSG00000066455	0.4167	1.3349	3.02E-05	0.0002	GOLGA5	golgin A5 [t protein_co	14	92794231	92839963	1	q32.12
ENSG00000159131	0.4166	1.3348	5.04E-07	4.68E-06	GART	phosphorik protein_co	21	33503931	33543491	-1	q22.11
ENSG00000034510	0.4166	1.3347	0.001	0.004	TMSB10	thymosin b protein_co	2	84905625	84906675	1	p11.2
ENSG00000166337	0.4164	1.3346	1.80E-07	1.85E-06	TAF10	TAF10 RNA protein_co	11	6606296	6612667	-1	p15.4
ENSG00000204237	0.416	1.3342	2.08E-05	0.0001	OXLD1	oxidoreduc protein_co	17	81665036	81666635	-1	q25.3
ENSG00000151065	0.4159	1.3341	0.0002	0.001	DCP1B	decapping protein_co	12	1946054	2004535	-1	p13.33
ENSG00000113595	0.4159	1.3341	0.0024	0.0089	TRIM23	tripartite r protein_co	5	65589680	65625975	-1	q12.3
ENSG00000110074	0.4157	1.334	0.0058	0.0189	FOXRED1	FAD-depen protein_co	11	1.26E+08	1.26E+08	1	q24.2
ENSG00000159884	0.4156	1.3339	0.0012	0.0049	CCDC107	coiled-coil protein_co	9	35658290	35661511	1	p13.3
ENSG00000160695	0.4154	1.3336	3.25E-05	0.0002	VPS11	vacuolar pr protein_co	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000257365	0.4153	1.3336	0.0159	0.0446	FNTB	farnesyltra protein_co	14	64986720	65062652	1	q23.3
ENSG00000134262	0.4148	1.3331	0.0018	0.0068	AP4B1	adaptor-re protein_co	1	1.14E+08	1.14E+08	-1	p13.2
ENSG00000133773	0.4147	1.333	0.0057	0.0186	CCDC59	coiled-coil protein_co	12	82223681	82358805	-1	q21.31
ENSG00000151657	0.4141	1.3325	0.0006	0.0028	KIN	Kin17 DNA protein_co	10	7750962	7787981	-1	p14
ENSG00000117362	0.414	1.3324	0.0002	0.0011	APH1A	APH1A gan protein_co	1	1.5E+08	1.5E+08	-1	q21.2
ENSG00000174851	0.4137	1.3321	0.0001	0.0006	YIF1A	Yip1 intera protein_co	11	66284580	66289170	-1	q13.2
ENSG00000156469	0.4136	1.332	0.0022	0.0083	MTERF3	mitochond protein_co	8	96239398	96261610	-1	q22.1
ENSG00000094914	0.4134	1.3319	6.22E-06	4.54E-05	AAAS	achalasia, ε protein_co	12	53307456	53324864	-1	q13.13
ENSG00000206562	0.4135	1.3319	0.0009	0.0037	METTL6	methyltran protein_co	3	15381275	15440566	-1	p25.1
ENSG00000075914	0.4127	1.3312	3.67E-05	0.0002	EXOSC7	exosome c protein_co	3	44975241	45036066	1	p21.31
ENSG00000163565	0.4125	1.331	3.57E-05	0.0002	IFI16	interferon, protein_co	1	1.59E+08	1.59E+08	1	q23.1
ENSG00000250903	0.4124	1.3309	0.0087	0.0268	GMDS-AS1	GMDS anti:lincRNA	6	2245748	2482022	1	p25.3
ENSG00000256294	0.4123	1.3308	0.0054	0.0178	ZNF225	zinc finger protein_co	19	44112181	44134816	1	q13.31
ENSG00000138050	0.4121	1.3307	0.0055	0.0181	THUMPD2	THUMP do protein_co	2	39736060	39779267	-1	p22.1
ENSG00000148229	0.4119	1.3304	0.0005	0.0021	POLE3	polymerase protein_co	9	1.13E+08	1.13E+08	-1	q32
ENSG00000101442	0.4119	1.3304	0.0052	0.0172	ACTR5	ARP5 actin protein_co	20	38748442	38772520	1	q11.23
ENSG00000187522	0.4112	1.3298	9.43E-06	6.63E-05	HSPA14	heat shock protein_co	10	14838164	14871741	1	p13

ENSG00000117308	0.4112	1.3298	0.001	0.0044	GALE	UDP-galact protein_co	1	23795599	23800804	-1	p36.11
ENSG00000140374	0.411	1.3296	7.73E-06	5.54E-05	ETFA	electron-tr protein_co	15	76215355	76311472	-1	q24.3
ENSG00000050405	0.4107	1.3293	0.0005	0.0023	LIMA1	LIM domain protein_co	12	50175788	50283546	-1	q13.12
ENSG00000173914	0.4104	1.329	4.99E-05	0.0003	RBM4B	RNA binding protein_co	11	66664998	66677921	-1	q13.2
ENSG00000173272	0.4102	1.3289	0.0017	0.0067	MZT2A	mitotic spind protein_co	2	1.31E+08	1.31E+08	-1	q21.1
ENSG00000151304	0.4102	1.3289	0.0029	0.0106	SRFBP1	serum response protein_co	5	1.22E+08	1.22E+08	1	q23.1
ENSG00000172315	0.4096	1.3283	3.80E-06	2.89E-05	TP53RK	TP53 regulator protein_co	20	46684365	46689779	-1	q13.12
ENSG00000111011	0.4095	1.3282	2.20E-05	0.0001	RSRC2	arginine/serine protein_co	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000115524	0.4094	1.3281	4.38E-07	4.13E-06	SF3B1	splicing factor protein_co	2	1.97E+08	1.97E+08	-1	q33.1
ENSG00000163933	0.4093	1.3281	0.0003	0.0016	RFT1	RFT1 homolog protein_co	3	53088483	53130462	-1	p21.1
ENSG00000129465	0.409	1.3278	0.001	0.0041	RIPK3	receptor-inter protein_co	14	24336021	24340045	-1	q12
ENSG0000010072	0.4089	1.3277	0.0004	0.002	SPRTN	SprT-like N protein_co	1	2.31E+08	2.31E+08	1	q42.2
ENSG00000213799	0.4088	1.3275	0.0048	0.0161	ZNF845	zinc finger protein_co	19	53333749	53354869	1	q13.42
ENSG00000164902	0.4084	1.3272	3.37E-07	3.26E-06	PHAX	phosphorylated protein_co	5	1.27E+08	1.27E+08	1	q23.2
ENSG00000041802	0.4083	1.3271	0.0002	0.0012	LSG1	large 60S subunit protein_co	3	1.95E+08	1.95E+08	-1	q29
ENSG00000105640	0.4083	1.3271	0.0108	0.0323	RPL18A	ribosomal protein_co	19	17859876	17864153	1	p13.11
ENSG00000167699	0.4081	1.327	0.0002	0.0012	GLOD4	glyoxalase protein_co	17	757097	783390	-1	p13.3
ENSG00000167770	0.4077	1.3266	2.45E-05	0.0002	OTUB1	OTU domain protein_co	11	63985853	64001811	1	q13.1
ENSG00000100028	0.4075	1.3264	4.03E-05	0.0002	SNRPD3	small nuclear protein_co	22	24555503	24609980	1	q11.23
ENSG00000099203	0.4071	1.326	5.97E-05	0.0003	TMED1	transmembrane protein_co	19	10832438	10836318	-1	p13.2
ENSG00000130303	0.4067	1.3257	0.0024	0.0088	BST2	bone marrow protein_co	19	17402939	17405648	-1	p13.11
ENSG00000167553	0.4063	1.3253	0.0014	0.0056	TUBA1C	tubulin, alpha protein_co	12	49188736	49274603	1	q13.12
ENSG00000165195	0.4063	1.3253	0.0026	0.0095	PIGA	phosphatidylinositol protein_co X		15319451	15335554	-1	p22.2
ENSG00000108961	0.406	1.325	0.0017	0.0066	RANGRF	RAN guanine protein_co	17	8288497	8290092	1	p13.1
ENSG00000147416	0.4056	1.3246	7.44E-08	8.41E-07	ATP6V1B2	ATPase, H+ protein_co	8	20197367	20226819	1	p21.3
ENSG00000130706	0.4051	1.3242	5.24E-07	4.85E-06	ADRM1	adhesion receptor protein_co	20	62302093	62308862	1	q13.33
ENSG00000147789	0.4052	1.3242	0.0019	0.0073	ZNF7	zinc finger protein_co	8	1.45E+08	1.45E+08	1	q24.3
ENSG00000145868	0.4045	1.3236	3.63E-10	6.91E-09	FBXO38	F-box protein protein_co	5	1.48E+08	1.48E+08	1	q32
ENSG00000099860	0.404	1.3232	0.0005	0.0023	GADD45B	growth arrest protein_co	19	2476122	2478259	1	p13.3
ENSG00000114850	0.4041	1.3232	0.0143	0.0409	SSR3	signal sequence protein_co	3	1.57E+08	1.57E+08	-1	q25.31
ENSG00000154781	0.4034	1.3226	1.98E-05	0.0001	CCDC174	coiled-coil protein_co	3	14651746	14672659	1	p25.1
ENSG00000065057	0.4034	1.3226	0.0078	0.0245	NTHL1	nucleoside triphosphatase protein_co	16	2039815	2047866	-1	p13.3
ENSG00000169193	0.4032	1.3224	0.0171	0.0475	CCDC126	coiled-coil protein_co	7	23597379	23644708	1	p15.3
ENSG00000131778	0.4027	1.322	0.0005	0.0023	CHD1L	chromodomain protein_co	1	1.47E+08	1.47E+08	1	q21.1
ENSG00000152944	0.4027	1.3219	0.0036	0.0125	MED21	mediator complex protein_co	12	27022546	27066343	1	p11.23
ENSG00000111196	0.4025	1.3218	0.0092	0.0282	MAGOHB	mago-nashi protein_co	12	10604190	10613623	-1	p13.2
ENSG00000189190	0.4022	1.3215	0.0071	0.0224	ZNF600	zinc finger protein_co	19	52764195	52818004	-1	q13.41

ENSG00000118564	0.4012	1.3206	5.28E-07	4.89E-06	FBXL5	F-box and I protein_co	4	15604539	15681679	-1	p15.32
ENSG00000141376	0.4002	1.3197	0.0127	0.0371	BCAS3	breast carc protein_co	17	60677453	61392838	1	q23.2
ENSG00000140598	0.3999	1.3194	7.98E-07	7.11E-06	EFTUD1	elongation protein_co	15	82130230	82262763	-1	q25.2
ENSG00000153037	0.3998	1.3194	0.0018	0.0068	SRP19	signal reco protein_co	5	1.13E+08	1.13E+08	1	q22.2
ENSG00000129515	0.3998	1.3193	0.0002	0.0011	SNX6	sorting nex protein_co	14	34561094	34630183	-1	q13.1
ENSG00000211455	0.3996	1.3191	0.0118	0.0348	STK38L	serine/thre protein_co	12	27243968	27325959	1	p11.23
ENSG00000172775	0.3989	1.3185	2.26E-09	3.55E-08	FAM192A	family with protein_co	16	57152466	57186116	-1	q13
ENSG00000102359	0.3989	1.3185	0.0027	0.0099	SRPX2	sushi-repe protein_co X		1.01E+08	1.01E+08	1	q22.1
ENSG00000121964	0.3986	1.3183	3.29E-06	2.53E-05	GTDC1	glycosyltra protein_co	2	1.44E+08	1.44E+08	-1	q22.3
ENSG00000169217	0.3984	1.3181	9.57E-09	1.33E-07	CD2BP2	CD2 (cytop protein_co	16	30350766	30355361	-1	p11.2
ENSG00000128228	0.3984	1.318	0.0109	0.0326	SDF2L1	stromal cel protein_co	22	21642261	21644298	1	q11.21
ENSG00000123130	0.3981	1.3178	0.0014	0.0055	ACOT9	acyl-CoA th protein_co X		23702253	23766475	-1	p22.11
ENSG00000213096	0.3981	1.3177	0.0027	0.0098	ZNF254	zinc finger protein_co	19	24033405	24129961	1	p12
ENSG00000130150	0.3974	1.3172	0.0031	0.0112	MOSPD2	motile sper protein_co X		14873441	14922327	1	p22.2
ENSG00000164597	0.3971	1.3169	0.0002	0.001	COG5	componen protein_co	7	1.07E+08	1.08E+08	-1	q22.3
ENSG00000155330	0.3969	1.3167	0.0111	0.033	C16orf87	chromosom protein_co	16	46796607	46831411	-1	q11.2
ENSG00000255398	0.3963	1.3161	0.0174	0.048	HCAR3	hydroxycar protein_co	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000075292	0.396	1.3159	1.23E-05	8.37E-05	ZNF638	zinc finger protein_co	2	71276561	71435069	1	p13.3
ENSG00000128294	0.3956	1.3155	0.0006	0.0028	TPST2	tyrosylprot protein_co	22	26525492	26596717	-1	q12.1
ENSG00000119977	0.3955	1.3154	3.48E-06	2.66E-05	TCTN3	tectonic fai protein_co	10	95663396	95694143	-1	q24.1
ENSG00000136261	0.3955	1.3154	0.0002	0.0008	BZW2	basic leucir protein_co	7	16646131	16706523	1	p21.1
ENSG00000103018	0.3954	1.3153	2.50E-05	0.0002	CYB5B	cytochrom protein_co	16	69424525	69466266	1	q22.1
ENSG00000183520	0.3954	1.3153	0.0002	0.0008	UTP11L	UTP11-like protein_co	1	38009258	38024824	1	p34.3
ENSG00000079462	0.3953	1.3153	0.0014	0.0057	PAFAH1B3	platelet-aci protein_co	19	42297033	42303546	-1	q13.2
ENSG00000077348	0.3954	1.3153	0.0144	0.0411	EXOSC5	exosome ci protein_co	19	41386374	41397479	-1	q13.2
ENSG00000117226	0.3947	1.3146	0.0002	0.0011	GBP3	guanylate t protein_co	1	89006666	89022894	-1	p22.2
ENSG00000088682	0.3946	1.3146	0.0009	0.0036	COQ9	coenzyme i protein_co	16	57447425	57461275	1	q21
ENSG00000148335	0.3943	1.3143	7.13E-05	0.0004	NTMT1	N-terminal protein_co	9	1.3E+08	1.3E+08	1	q34.11
ENSG00000101310	0.3941	1.3142	1.41E-05	9.48E-05	SEC23B	Sec23 hom protein_co	20	18507493	18561415	1	p11.23
ENSG00000087053	0.3942	1.3142	0.0052	0.0173	MTMR2	myotubula protein_co	11	95832882	95925315	-1	q21
ENSG00000105700	0.3939	1.314	3.11E-07	3.03E-06	KXD1	KxDL motif protein_co	19	18557762	18569387	1	p13.11
ENSG00000171928	0.394	1.314	0.0044	0.0151	TVP23B	trans-golgi protein_co	17	18780995	18806714	1	p11.2
ENSG00000130414	0.3939	1.3139	0.0004	0.0019	NDUFA10	NADH deh protein_co	2	2.4E+08	2.4E+08	-1	q37.3
ENSG00000162627	0.3935	1.3136	1.24E-05	8.42E-05	SNX7	sorting nex protein_co	1	98661701	98760500	1	p21.3
ENSG00000198464	0.3934	1.3135	0.0061	0.0199	ZNF480	zinc finger protein_co	19	52297177	52325922	1	q13.41
ENSG00000138398	0.3933	1.3134	1.00E-05	6.98E-05	PIIG	peptidylprc protein_co	2	1.7E+08	1.7E+08	1	q31.1
ENSG00000118600	0.3929	1.3131	0.0002	0.0011	TMEM5	transmemt protein_co	12	63779803	63809558	1	q14.2

ENSG00000051596	0.3925	1.3127	0.0048	0.016 THOC3	THO compl protein_co	5	1.76E+08	1.76E+08	-1 q35.2
ENSG00000175575	0.392	1.3122	0.016	0.0449 PAAF1	proteasom protein_co	11	73876699	73927745	1 q13.4
ENSG00000242516	0.3913	1.3116	0.0072	0.0229 LINC00960	long interg lincRNA	3	75672391	75679303	1 p12.3
ENSG00000105835	0.3912	1.3115	0.0034	0.0119 NAMPT	nicotinami protein_co	7	1.06E+08	1.06E+08	-1 q22.3
ENSG00000164081	0.3911	1.3114	4.45E-06	3.33E-05 TEX264	testis expr protein_co	3	51662693	51704323	1 p21.2
ENSG00000064726	0.3909	1.3112	2.57E-06	2.02E-05 BTBD1	BTB (POZ) protein_co	15	83016422	83067354	-1 q25.2
ENSG00000081692	0.3909	1.3112	0.0006	0.0028 JMJD4	jumonji do protein_co	1	2.28E+08	2.28E+08	-1 q42.13
ENSG00000197566	0.3907	1.3111	0.0052	0.0173 ZNF624	zinc finger protein_co	17	16620737	16653856	-1 p11.2
ENSG00000080822	0.3906	1.311	0.0029	0.0105 CLDND1	claudin dor protein_co	3	98497912	98523066	-1 q11.2
ENSG00000099800	0.3903	1.3106	0.0002	0.0008 TIMM13	translocase protein_co	19	2425624	2427894	-1 p13.3
ENSG00000112855	0.3902	1.3106	0.0003	0.0015 HARS2	histidyl-tRNA protein_co	5	1.41E+08	1.41E+08	1 q31.3
ENSG00000120616	0.3901	1.3105	0.0002	0.0008 EPC1	enhancer c protein_co	10	32267751	32378798	-1 p11.22
ENSG00000137509	0.39	1.3104	3.09E-06	2.39E-05 PRCP	prolylcarb protein_co	11	82823502	82970584	-1 q14.1
ENSG00000130349	0.3897	1.3101	0.0022	0.0082 C6orf203	chromoson protein_co	6	1.07E+08	1.07E+08	1 q21
ENSG00000165475	0.3896	1.3101	0.0142	0.0406 CRYL1	crystallin, li protein_co	13	20403667	20525857	-1 q12.11
ENSG00000139323	0.3895	1.31	0.002	0.0077 POC1B	POC1 centr protein_co	12	89419718	89526024	-1 q21.33
ENSG00000119203	0.3894	1.3099	9.98E-05	0.0005 CPSF3	cleavage ar protein_co	2	9423568	9473101	1 p25.1
ENSG00000135317	0.3892	1.3097	0.0003	0.0013 SNX14	sorting nex protein_co	6	85505496	85594156	-1 q14.3
ENSG00000138430	0.3891	1.3096	6.34E-07	5.76E-06 OLA1	Obg-like A1 protein_co	2	1.74E+08	1.74E+08	-1 q31.1
ENSG00000137106	0.3887	1.3092	2.25E-07	2.27E-06 GRHPR	glyoxylate protein_co	9	37422666	37436990	1 p13.2
ENSG00000064703	0.3885	1.309	9.09E-06	6.41E-05 DDX20	DEAD (Asp- protein_co	1	1.12E+08	1.12E+08	1 p13.2
ENSG00000182149	0.3883	1.3089	1.17E-06	9.99E-06 IST1	increased s protein_co	16	71845996	71931199	1 q22.2
ENSG00000138780	0.3884	1.3089	0.0009	0.0037 GSTCD	glutathione protein_co	4	1.06E+08	1.06E+08	1 q24
ENSG00000113621	0.3882	1.3088	0.0002	0.0011 TXNDC15	thioredoxin protein_co	5	1.35E+08	1.35E+08	1 q31.1
ENSG00000134255	0.388	1.3086	0.0012	0.0049 CEPT1	choline/etf protein_co	1	1.11E+08	1.11E+08	1 p13.3
ENSG00000130733	0.388	1.3086	0.0029	0.0106 YIPF2	Yip1 domai protein_co	19	10922185	10928681	-1 p13.2
ENSG00000094880	0.3879	1.3085	0.0002	0.0012 CDC23	cell divisior protein_co	5	1.38E+08	1.38E+08	-1 q31.2
ENSG00000172977	0.3878	1.3084	1.92E-05	0.0001 KAT5	K(lysine) ac protein_co	11	65711996	65719604	1 q13.1
ENSG00000106554	0.3879	1.3084	2.54E-05	0.0002 CHCHD3	coiled-coil- protein_co	7	1.33E+08	1.33E+08	-1 q33
ENSG00000122068	0.3873	1.308	0.0003	0.0014 FYTDD1	forty-two-t protein_co	3	1.98E+08	1.98E+08	1 q29
ENSG00000099785	0.3873	1.3079	0.0004	0.0019 MARCH2	membrane protein_co	19	8413270	8439017	1 p13.2
ENSG00000168303	0.3871	1.3078	0.0041	0.014 MPLKIP	M-phase s protein_co	7	40126023	40134659	-1 p14.1
ENSG00000103245	0.3868	1.3075	0.0001	0.0007 NARFL	nuclear pre protein_co	16	729753	741329	-1 p13.3
ENSG00000114902	0.3866	1.3073	0.0006	0.0028 SPCS1	signal pept protein_co	3	52704955	52711146	1 p21.1
ENSG00000149231	0.3862	1.307	0.004	0.0137 CCDC82	coiled-coil protein_co	11	96352769	96389923	-1 q21
ENSG00000089050	0.3862	1.3069	0.0081	0.0251 RBBP9	retinoblast protein_co	20	18486540	18497243	-1 p11.23
ENSG00000182534	0.3856	1.3064	0.0002	0.0009 MXRA7	matrix-rem protein_co	17	76672551	76711016	-1 q25.1



ENSG00000135211	0.3854	1.3062	0.004	0.0138 TMEM60	transmembr protein_co	7	77793728	77798580	-1	q11.23
ENSG00000143155	0.3852	1.3061	0.0004	0.0018 TIPRL	TOR signal protein_co	1	1.68E+08	1.68E+08	1	q24.2
ENSG00000245556	0.385	1.3059	0.0077	0.0243 SCAMP1-AS1	SCAMP1 ar lincRNA	5	78342365	78360507	-1	q14.1
ENSG00000089063	0.3848	1.3057	4.04E-05	0.0002 TMEM230	transmembr protein_co	20	5068232	5113103	-1	p12.3
ENSG00000155324	0.3848	1.3057	0.0018	0.0071 GRAMD3	GRAM dom protein_co	5	1.26E+08	1.26E+08	1	q23.2
ENSG00000148120	0.384	1.305	0.0001	0.0008 C9orf3	chromosom protein_co	9	94726701	95087218	1	q22.32
ENSG00000175216	0.3841	1.305	0.0002	0.0008 CKAP5	cytoskeletc protein_co	11	46743048	46846308	-1	p11.2
ENSG00000111615	0.3837	1.3047	0.0003	0.0014 KRR1	KRR1, smal protein_co	12	75490861	75511636	-1	q21.2
ENSG00000198839	0.3837	1.3047	0.001	0.004 ZNF277	zinc finger protein_co	7	1.12E+08	1.12E+08	1	q31.1
ENSG00000158019	0.3834	1.3044	4.27E-05	0.0003 BRE	brain and r protein_co	2	27889941	28338901	1	p23.2
ENSG00000196510	0.3833	1.3043	0.0006	0.0029 ANAPC7	anaphase p protein_co	12	1.1E+08	1.1E+08	-1	q24.11
ENSG00000137312	0.383	1.304	4.14E-05	0.0002 FLOT1	flotillin 1 [S protein_co	6	30727709	30742733	-1	p21.33
ENSG00000150756	0.383	1.304	0.0007	0.0031 FAM173B	family with protein_co	5	10226330	10249897	-1	p15.2
ENSG00000113328	0.3829	1.304	0.0107	0.032 CCNG1	cyclin G1 [S protein_co	5	1.63E+08	1.63E+08	1	q34
ENSG00000182180	0.3828	1.3039	2.70E-10	5.30E-09 MRPS16	mitochond protein_co	10	73248843	73252693	-1	q22.2
ENSG00000100941	0.3827	1.3038	0.0021	0.0081 PNN	pinin, desn protein_co	14	39175183	39183218	1	q21.1
ENSG0000010256	0.3822	1.3034	0.0007	0.0033 UQCRC1	ubiquinol-c protein_co	3	48599002	48610976	-1	p21.31
ENSG00000138363	0.3819	1.303	0.0006	0.0026 ATIC	5-aminoim protein_co	2	2.15E+08	2.15E+08	1	q35
ENSG00000120756	0.3817	1.3029	0.0059	0.0194 PLS1	plastin 1 [S protein_co	3	1.43E+08	1.43E+08	1	q23
ENSG00000107960	0.3815	1.3027	7.18E-05	0.0004 OBFC1	oligonuclec protein_co	10	1.04E+08	1.04E+08	-1	q24.33
ENSG00000204387	0.3808	1.3021	0.0173	0.0478 C6orf48	chromosom protein_co	6	31834608	31839766	1	p21.33
ENSG00000158864	0.3803	1.3016	0.0005	0.0023 NDUFS2	NADH dehy protein_co	1	1.61E+08	1.61E+08	1	q23.3
ENSG00000161203	0.3801	1.3015	2.88E-07	2.83E-06 AP2M1	adaptor-re protein_co	3	1.84E+08	1.84E+08	1	q27.1
ENSG00000114767	0.3793	1.3007	0.0135	0.0391 RRP9	ribosomal l protein_co	3	51933430	51941941	-1	p21.2
ENSG00000121749	0.3791	1.3006	0.0019	0.0072 TBC1D15	TBC1 doma protein_co	12	71839707	71927248	1	q21.1
ENSG00000101558	0.3785	1.3	5.77E-07	5.30E-06 VAPA	VAMP (ves protein_co	18	9914002	9960021	1	p11.22
ENSG00000117419	0.3785	1.3	0.0001	0.0008 ERI3	ERI1 exorit protein_co	1	44221070	44355260	-1	p34.1
ENSG00000183431	0.3784	1.2999	3.64E-06	2.78E-05 SF3A3	splicing fac protein_co	1	37956975	37990921	-1	p34.3
ENSG00000130935	0.3784	1.2999	0.002	0.0077 NOL11	nucleolar p protein_co	17	67717833	67744531	1	q24.2
ENSG00000172409	0.3778	1.2994	0.0003	0.0013 CLP1	cleavage ar protein_co	11	57648992	57661868	1	q12.1
ENSG00000102038	0.3778	1.2994	0.0049	0.0164 SMARCA1	SWI/SNF re protein_co X		1.29E+08	1.3E+08	-1	q26.1
ENSG00000232677	0.3776	1.2992	0.0175	0.0483 LINC00665	long interg lincRNA	19	36313067	36331718	-1	q13.12
ENSG00000132406	0.3771	1.2987	0.001	0.0042 TMEM128	transmembr protein_co	4	4235542	4248212	-1	p16.3
ENSG00000186300	0.377	1.2987	0.0046	0.0156 ZNF555	zinc finger protein_co	19	2841435	2860484	1	p13.3
ENSG00000159128	0.3766	1.2983	0.0105	0.0314 IFNGR2	interferon p protein_co	21	33402896	33479348	1	q22.11
ENSG00000143436	0.3765	1.2982	0.0027	0.0099 MRPL9	mitochond protein_co	1	1.52E+08	1.52E+08	-1	q21.3
ENSG00000125877	0.3764	1.2981	0.0011	0.0045 ITPA	inosine triph protein_co	20	3208868	3223870	1	p13

ENSG00000105669	0.3761	1.2978	1.08E-05	7.45E-05	COPE	coatomer $\zeta$ protein_co	19	18899514	18919397	-1	p13.11
ENSG00000145293	0.3754	1.2972	8.59E-05	0.0005	ENOPH1	enolase-ph protein_co	4	82430562	82461091	1	q21.22
ENSG00000124383	0.3755	1.2972	0.0001	0.0007	MPHOSPH10	M-phase pl protein_co	2	71130314	71150101	1	p13.3
ENSG00000113597	0.3741	1.2961	0.0002	0.0011	TRAPPC13	trafficking   protein_co	5	65624716	65666233	1	q12.3
ENSG00000164941	0.3741	1.296	0.0053	0.0174	INTS8	integrator $\rho$ protein_co	8	94813311	94881746	1	q22.1
ENSG00000065559	0.374	1.2959	4.67E-06	3.49E-05	MAP2K4	mitogen-ac protein_co	17	12020824	12143830	1	p12
ENSG00000196387	0.3738	1.2958	0.0002	0.0009	ZNF140	zinc finger protein_co	12	1.33E+08	1.33E+08	1	q24.33
ENSG00000134910	0.3739	1.2958	0.0006	0.0027	STT3A	STT3A, sub protein_co	11	1.26E+08	1.26E+08	1	q24.2
ENSG00000055950	0.3738	1.2958	0.0017	0.0065	MRPL43	mitochond protein_co	10	1.01E+08	1.01E+08	-1	q24.31
ENSG00000125868	0.3736	1.2956	7.76E-06	5.56E-05	DSTN	destrin (act) protein_co	20	17569863	17609919	1	p12.1
ENSG00000155959	0.3736	1.2956	0.0004	0.0017	VBP1	von Hippel protein_co X		1.55E+08	1.55E+08	1	q28
ENSG00000141040	0.3734	1.2954	0.0056	0.0185	ZNF287	zinc finger protein_co	17	16551387	16569206	-1	p11.2
ENSG00000138686	0.3734	1.2954	0.0125	0.0365	BBS7	Bardet-Biei protein_co	4	1.22E+08	1.22E+08	-1	q27
ENSG00000126261	0.3733	1.2953	5.42E-08	6.29E-07	UBA2	ubiquitin-li protein_co	19	34428352	34471251	1	q13.11
ENSG00000114098	0.3733	1.2953	5.29E-05	0.0003	ARMC8	armadillo r protein_co	3	1.38E+08	1.38E+08	1	q22.3
ENSG00000171953	0.3733	1.2953	0.0025	0.0093	ATPAF2	ATP syntha protein_co	17	17977409	18039209	-1	p11.2
ENSG00000179091	0.3732	1.2952	0.0064	0.0206	CYC1	cytochrom protein_co	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000170142	0.3728	1.2949	0.0012	0.005	UBE2E1	ubiquitin-c protein_co	3	23805903	23891316	1	p24.2
ENSG00000153006	0.3729	1.2949	0.0021	0.008	SREK1IP1	SREK1-inte protein_co	5	64718144	64768685	-1	q12.3
ENSG00000021776	0.3729	1.2949	0.0063	0.0204	AQR	aquarius in protein_co	15	34851782	34969839	-1	q14
ENSG00000228300	0.3727	1.2948	0.0014	0.0056	C19orf24	chromosom protein_co	19	1275438	1279249	1	p13.3
ENSG00000164904	0.3726	1.2947	0.0019	0.0072	ALDH7A1	aldehyde d protein_co	5	1.27E+08	1.27E+08	-1	q23.2
ENSG00000099282	0.3722	1.2943	0.0138	0.0397	TSPAN15	tetraspanin protein_co	10	69451473	69507669	1	q22.1
ENSG00000111726	0.3719	1.2941	0.0004	0.0019	CMAS	cytidine m $\rho$ protein_co	12	22046174	22065674	1	p12.1
ENSG00000126247	0.3717	1.2939	2.89E-07	2.83E-06	CAPNS1	calpain, sm protein_co	19	36139575	36150353	1	q13.12
ENSG00000245060	0.3717	1.2939	0.0103	0.0309	LINC00847	long interg lincRNA	5	1.81E+08	1.81E+08	1	q35.3
ENSG00000178935	0.3716	1.2937	0.0055	0.0183	ZNF552	zinc finger protein_co	19	57803841	57814913	-1	q13.43
ENSG00000167740	0.3711	1.2934	0.0004	0.0019	CYB5D2	cytochrom protein_co	17	4143168	4187310	1	p13.2
ENSG00000146574	0.371	1.2933	0.0013	0.0054	CCZ1B	CCZ1 vacuc protein_co	7	6794134	6826770	-1	p22.1
ENSG00000157593	0.3704	1.2927	0.0005	0.0023	SLC35B2	solute carri protein_co	6	44254096	44257890	-1	p21.1
ENSG00000014123	0.3702	1.2925	0.0011	0.0046	UFL1	UFM1-spec protein_co	6	96521595	96555276	1	q16.1
ENSG00000170854	0.3702	1.2925	0.0023	0.0087	MINA	MYC induc protein_co	3	97941818	97972457	-1	q11.2
ENSG00000187778	0.3691	1.2915	1.51E-06	1.26E-05	MCRS1	microspher protein_co	12	49556544	49568153	-1	q13.12
ENSG00000114316	0.3689	1.2914	1.75E-06	1.44E-05	USP4	ubiquitin s $\rho$ protein_co	3	49277831	49340712	-1	p21.31
ENSG00000136270	0.3689	1.2914	0.0007	0.0031	TBRG4	transformin protein_co	7	45100100	45112047	-1	p13
ENSG00000108654	0.3688	1.2913	0.0035	0.0123	DDX5	DEAD (Asp) protein_co	17	64499616	64508199	-1	q23.3
ENSG00000106636	0.3681	1.2906	0.001	0.0042	YKT6	YKT6 v-SN $\rho$ protein_co	7	44200968	44214294	1	p13

ENSG00000110536	0.3679	1.2905	0.0021	0.0079	PTPMT1	protein tyr protein_co	11	47565430	47573461	1	p11.2
ENSG00000162851	0.3678	1.2904	0.0008	0.0034	TFB2M	transcripti protein_co	1	2.47E+08	2.47E+08	-1	q44
ENSG00000087191	0.3676	1.2902	5.64E-05	0.0003	PSMC5	proteasom protein_co	17	63827152	63832026	1	q23.3
ENSG00000251381	0.3676	1.2902	0.0018	0.0068	LINC00958	long interg lincRNA	11	12962510	12989548	-1	p15.3
ENSG00000119801	0.3673	1.29	0.0008	0.0033	YPEL5	yippee-like protein_co	2	30146941	30160533	1	p23.1
ENSG00000188321	0.3674	1.29	0.0162	0.0452	ZNF559	zinc finger protein_co	19	9323772	9351162	1	p13.2
ENSG00000108788	0.3672	1.2898	3.25E-06	2.50E-05	MLX	MLX, MAX protein_co	17	42567068	42573239	1	q21.2
ENSG00000170634	0.3672	1.2898	0.0011	0.0047	ACYP2	acylphosph protein_co	2	53970838	54305300	1	p16.2
ENSG00000100612	0.3671	1.2898	0.0033	0.0116	DHR57	dehydroge protein_co	14	60144120	60169856	-1	q23.1
ENSG00000105341	0.3671	1.2897	2.28E-05	0.0001	ATP5SL	ATP5S-like protein_co	19	41431318	41440717	-1	q13.2
ENSG00000104904	0.367	1.2897	3.27E-05	0.0002	OAZ1	ornithine d protein_co	19	2269509	2273490	1	p13.3
ENSG00000114026	0.367	1.2897	0.0073	0.023	OGG1	8-oxoguan protein_co	3	9749944	9788219	1	p25.3
ENSG00000185917	0.3669	1.2896	0.006	0.0196	SETD4	SET domair protein_co	21	36034541	36079389	-1	q22.12
ENSG00000139350	0.3666	1.2893	0.0007	0.0031	NEDD1	neural prec protein_co	12	96907223	96953777	1	q23.1
ENSG00000107937	0.3665	1.2892	3.29E-05	0.0002	GTPBP4	GTP bindin protein_co	10	988019	1019936	1	p15.3
ENSG00000110330	0.3663	1.289	0.0145	0.0415	BIRC2	baculoviral protein_co	11	1.02E+08	1.02E+08	1	q22.2
ENSG00000095261	0.3659	1.2887	0.0001	0.0006	PSMD5	proteasom protein_co	9	1.21E+08	1.21E+08	-1	q33.2
ENSG00000185973	0.3654	1.2882	0.0025	0.0091	TMLHE	trimethylly protein_co X		1.55E+08	1.56E+08	-1	q28
ENSG00000141971	0.3651	1.2879	0.0009	0.0037	MVB12A	multivesicu protein_co	19	17405722	17433724	1	p13.11
ENSG00000167183	0.3649	1.2878	0.017	0.0472	PRR15L	proline rich protein_co	17	47951967	47957878	-1	q21.32
ENSG00000105393	0.3647	1.2877	0.0027	0.01	BABAM1	BRISC and I protein_co	19	17267350	17281249	1	p13.11
ENSG00000076650	0.3648	1.2877	0.0048	0.0161	GPATCH1	G patch do protein_co	19	33080880	33130542	1	q13.11
ENSG00000162613	0.3646	1.2875	3.50E-08	4.27E-07	FUBP1	far upstrea protein_co	1	77944055	77979110	-1	p31.1
ENSG00000049769	0.3643	1.2873	0.008	0.0249	PPP1R3F	protein ph protein_co X		49269843	49301461	1	p11.23
ENSG00000214046	0.3641	1.2871	0.0018	0.0071	SMIM7	small integ protein_co	19	16630751	16660442	-1	p13.11
ENSG00000064012	0.3639	1.2869	0.0001	0.0006	CASP8	caspase 8, protein_co	2	2.01E+08	2.01E+08	1	q33.1
ENSG00000198168	0.3633	1.2864	0.0106	0.0318	SVIP	small VCP/ protein_co	11	22813799	22830299	-1	p14.3
ENSG00000132300	0.3632	1.2863	2.63E-06	2.06E-05	PTCD3	pentatricof protein_co	2	86106182	86142157	1	p11.2
ENSG00000082258	0.363	1.2861	0.0025	0.0091	CCNT2	cyclin T2 [S protein_co	2	1.35E+08	1.35E+08	1	q21.3
ENSG00000158773	0.3627	1.2859	5.34E-06	3.94E-05	USF1	upstream t protein_co	1	1.61E+08	1.61E+08	-1	q23.3
ENSG00000185787	0.3622	1.2854	1.56E-06	1.29E-05	MORF4L1	mortality f protein_co	15	78810487	78898133	1	q25.1
ENSG00000176623	0.3619	1.2851	8.37E-05	0.0005	RMDN1	regulator o protein_co	8	86468257	86514357	-1	q21.3
ENSG00000039319	0.3618	1.2851	0.0016	0.0061	ZFYVE16	zinc finger, protein_co	5	80408013	80479350	1	q14.1
ENSG00000147099	0.3617	1.2849	1.79E-05	0.0001	HDAC8	histone de protein_co X		72329516	72573103	-1	q13.1
ENSG00000178537	0.3613	1.2846	0.0003	0.0014	SLC25A20	solute carri protein_co	3	48856931	48898993	-1	p21.31
ENSG00000127081	0.3611	1.2844	0.0087	0.027	ZNF484	zinc finger protein_co	9	92845031	92878038	-1	q22.31
ENSG00000104886	0.3608	1.2841	0.0051	0.017	PLEKHJ1	pleckstrin I protein_co	19	2230084	2237704	-1	p13.3

ENSG00000101138	0.3607	1.284	0.0002	0.0012	CSTF1	cleavage st protein_co	20	56392371	56406369	1	q13.2
ENSG00000169242	0.3607	1.284	0.0154	0.0436	EFNA1	ephrin-A1  protein_co	1	1.55E+08	1.55E+08	1	q22
ENSG00000136243	0.3605	1.2839	0.0003	0.0014	NUPL2	nucleopori protein_co	7	23181827	23201011	1	p15.3
ENSG00000108107	0.3605	1.2839	0.002	0.0077	RPL28	ribosomal  protein_co	19	55385345	55403250	1	q13.42
ENSG00000167635	0.3601	1.2835	0.0034	0.0121	ZNF146	zinc finger protein_co	19	36214602	36238774	1	q13.12
ENSG00000132952	0.3598	1.2832	0.0052	0.0172	USPL1	ubiquitin s protein_co	13	30617693	30660770	1	q12.3
ENSG00000067248	0.3596	1.2831	0.0017	0.0068	DHX29	DEAH (Asp- protein_co	5	55256245	55307722	-1	q11.2
ENSG00000215712	0.3595	1.283	0.0009	0.004	TMEM242	transmemk protein_co	6	1.57E+08	1.57E+08	-1	q25.3
ENSG00000105379	0.3593	1.2828	0.0003	0.0017	ETFB	electron-tr protein_co	19	51345169	51366418	-1	q13.41
ENSG00000170089	0.3593	1.2828	0.0082	0.0255	RP11-423H2.1	transcribec	5	1.78E+08	1.78E+08	1	q35.3
ENSG00000109065	0.3591	1.2826	0.0045	0.0153	NAT9	N-acetyltra protein_co	17	74770547	74776367	-1	q25.1
ENSG00000050426	0.3584	1.282	0.0044	0.0149	LETMD1	LETM1 don protein_co	12	51047962	51060424	1	q13.12
ENSG00000168802	0.3583	1.2819	6.72E-05	0.0004	CTHF8	CTF8, chroi protein_co	16	69118010	69132584	-1	q22.1
ENSG00000108465	0.3582	1.2818	0.0005	0.0024	CDK5RAP3	CDK5 regul protein_co	17	47967810	47981774	1	q21.32
ENSG00000171490	0.3581	1.2817	0.0025	0.0093	RSL1D1	ribosomal l protein_co	16	11833850	11851585	-1	p13.13
ENSG00000170892	0.3578	1.2814	0.0001	0.0007	TSEN34	TSEN34 tRI protein_co	19	54189938	54194536	1	q13.42
ENSG00000023287	0.3574	1.2811	0.0013	0.0053	RB1CC1	RB1-induci protein_co	8	52622456	52745843	-1	q11.23
ENSG00000162076	0.3573	1.281	0.0012	0.0051	FLYWCH2	FLYWCH fa protein_co	16	2883186	2899382	1	p13.3
ENSG00000163754	0.3571	1.2808	2.37E-05	0.0002	GYG1	glycogenin protein_co	3	1.49E+08	1.49E+08	1	q24
ENSG00000102362	0.3571	1.2808	0.0161	0.0451	SYTL4	synaptotag protein_co X		1.01E+08	1.01E+08	-1	q22.1
ENSG00000123268	0.3568	1.2806	0.0066	0.0211	ATF1	activating t protein_co	12	50763710	50821122	1	q13.12
ENSG00000148341	0.3566	1.2804	0.0054	0.0179	SH3GLB2	SH3-domai protein_co	9	1.29E+08	1.29E+08	-1	q34.11
ENSG00000136271	0.3558	1.2797	3.04E-05	0.0002	DDX56	DEAD (Asp- protein_co	7	44565417	44575051	-1	p13
ENSG00000213551	0.3558	1.2797	0.0125	0.0365	DNAJC9	DnaJ (Hsp4 protein_co	10	73183362	73248862	-1	q22.2
ENSG00000100528	0.3554	1.2793	0.0003	0.0015	CNIH1	cornichon f protein_co	14	54423560	54441431	-1	q22.2
ENSG00000205413	0.3554	1.2793	0.0112	0.0333	SAMD9	sterile alph protein_co	7	93099513	93118023	-1	q21.2
ENSG00000102871	0.3553	1.2792	0.0022	0.0082	TRADD	TNFRSF1A- protein_co	16	67154180	67160298	-1	q22.1
ENSG00000131408	0.3549	1.2789	1.91E-07	1.96E-06	NR1H2	nuclear rec protein_co	19	50329653	50382982	1	q13.33
ENSG00000186470	0.3549	1.2789	0.0001	0.0007	BTN3A2	butyrophili protein_co	6	26365159	26378320	1	p22.2
ENSG00000155329	0.3548	1.2788	0.0136	0.0393	ZCCHC10	zinc finger, protein_co	5	1.33E+08	1.33E+08	-1	q31.1
ENSG00000110756	0.3545	1.2785	0.0001	0.0008	HPS5	Hermansky protein_co	11	18278668	18322198	-1	p15.1
ENSG00000117151	0.3545	1.2785	0.0014	0.0056	CTBS	chitobiase, protein_co	1	84549606	84574480	-1	p22.3
ENSG00000155906	0.3539	1.2781	0.0034	0.0121	RMND1	required fc protein_co	6	1.51E+08	1.51E+08	-1	q25.1
ENSG00000121350	0.3534	1.2776	0.0058	0.0189	PYROXD1	pyridine nu protein_co	12	21437615	21471252	1	p12.1
ENSG00000141698	0.3534	1.2776	0.0133	0.0385	NT5C3B	5'-nucleoti protein_co	17	41825181	41836263	-1	q21.2
ENSG00000135845	0.3525	1.2768	4.33E-05	0.0003	PIGC	phosphatic protein_co	1	1.72E+08	1.72E+08	-1	q24.3
ENSG00000046651	0.3521	1.2764	1.24E-05	8.46E-05	OFD1	oral-facial- protein_co X		13734745	13769353	1	p22.2

ENSG00000035928	0.3521	1.2764	0.0008	0.0034 RFC1	replication protein_co	4	39287456	39366375	-1 p14
ENSG00000139579	0.352	1.2763	0.0002	0.001 NABP2	nucleic acid protein_co	12	56222015	56229854	1 q13.3
ENSG00000173715	0.3517	1.276	0.0056	0.0185 C11orf80	chromosome protein_co	11	66744451	66843324	1 q13.2
ENSG00000248049	0.3514	1.2758	0.0016	0.0063 UBA6-AS1	UBA6 antisense	4	67701280	68080952	1 q13.2
ENSG00000173614	0.3507	1.2752	0.0013	0.0053 NMNAT1	nicotinamide protein_co	1	9943428	9985501	1 p36.22
ENSG00000135070	0.3507	1.2752	0.0061	0.0199 ISCA1	iron-sulfur protein_co	9	86264546	86282538	-1 q21.33
ENSG00000013374	0.3505	1.275	7.86E-06	5.62E-05 NUB1	negative regulator protein_co	7	1.51E+08	1.51E+08	1 q36.1
ENSG00000175334	0.3503	1.2749	0.005	0.0167 BANF1	barrier to apoptosis protein_co	11	66002079	66004149	1 q13.1
ENSG00000237765	0.3503	1.2748	0.017	0.0471 FAM200B	family with protein_co	4	15681662	15705565	1 p15.32
ENSG00000172262	0.35	1.2746	0.0034	0.0121 ZNF131	zinc finger protein_co	5	43065176	43192021	1 p12
ENSG00000125863	0.3499	1.2744	8.58E-05	0.0005 MKKS	McKusick-like protein_co	20	10401009	10434222	-1 p12.2
ENSG00000119431	0.3498	1.2744	0.0001	0.0006 HDHD3	haloacid dehalogenase protein_co	9	1.13E+08	1.13E+08	-1 q32
ENSG00000080546	0.3493	1.2739	0.0001	0.0007 SESN1	sestrin 1 [S protein_co	6	1.09E+08	1.09E+08	-1 q21
ENSG00000133706	0.3493	1.2739	0.0002	0.001 LARS	leucyl-tRNA <sup>Leu</sup> protein_co	5	1.46E+08	1.46E+08	-1 q32
ENSG00000186106	0.3493	1.2739	0.0033	0.0116 ANKRD46	ankyrin repeat protein_co	8	1.01E+08	1.01E+08	-1 q22.3
ENSG00000071794	0.3491	1.2737	0.0017	0.0066 HLTF	helicase-like protein_co	3	1.49E+08	1.49E+08	-1 q24
ENSG00000183527	0.3489	1.2736	0.0001	0.0007 PSMG1	proteasome protein_co	21	39174769	39183851	-1 q22.2
ENSG00000151327	0.3486	1.2734	0.0002	0.0011 FAM177A1	family with protein_co	14	35044907	35113130	1 q13.2
ENSG00000136273	0.3487	1.2734	0.0007	0.0029 HUS1	HUS1 check point protein_co	7	47695730	47979581	-1 p12.3
ENSG00000165355	0.3476	1.2724	0.0031	0.011 FBXO33	F-box protein protein_co	14	39397669	39432500	-1 q21.1
ENSG00000166295	0.3475	1.2723	0.0003	0.0016 ANAPC16	anaphase promoting complex protein_co	10	72216000	72235860	1 q22.1
ENSG00000006451	0.3472	1.2721	0.0027	0.0099 RALA	v-ras like protein_co	7	39623483	39708124	1 p14.1
ENSG00000196504	0.3471	1.272	3.37E-05	0.0002 PRPF40A	PRP40 pre-mRNA splicing protein_co	2	1.53E+08	1.53E+08	-1 q23.3
ENSG00000165526	0.3471	1.272	0.0062	0.02 RPUSD4	RNA pseudouridine C-to-U dinucleotide-specific protein_co	11	1.26E+08	1.26E+08	-1 q24.2
ENSG00000004700	0.347	1.2719	0.016	0.0448 RECQL	RecQ helicase protein_co	12	21468911	21501669	-1 p12.1
ENSG00000081386	0.3461	1.2712	0.004	0.0138 ZNF510	zinc finger protein_co	9	96755865	96778129	-1 q22.33
ENSG00000102900	0.3458	1.2708	0.0074	0.0233 NUP93	nucleoporin protein_co	16	56730105	56850286	1 q13
ENSG00000055130	0.3456	1.2707	9.54E-05	0.0005 CUL1	cullin 1 [So protein_co	7	1.49E+08	1.49E+08	1 q36.1
ENSG00000029725	0.3454	1.2705	0.0079	0.0248 RABEP1	rabaptin, R protein_co	17	5282265	5385812	1 p13.2
ENSG00000133142	0.345	1.2701	0.0001	0.0007 TCEAL4	transcription factor protein_co X		1.04E+08	1.04E+08	1 q22.2
ENSG00000111802	0.345	1.2701	0.0011	0.0045 TDP2	tyrosyl-DNA phosphatase protein_co	6	24649977	24667033	-1 p22.3
ENSG00000172239	0.3447	1.2699	0.0006	0.0027 PAIP1	poly(A) binding protein_co	5	43526267	43557758	-1 p12
ENSG00000173436	0.3446	1.2698	0.0004	0.002 MINOS1	mitochondrial protein_co	1	19596977	19629821	1 p36.13
ENSG00000142230	0.3444	1.2696	7.80E-07	6.96E-06 SAE1	SUMO1 activator protein_co	19	47113274	47210636	1 q13.32
ENSG00000175348	0.3444	1.2696	0.0026	0.0096 TMEM9B	TMEM9 domain protein_co	11	8947294	8965011	-1 p15.4
ENSG00000008394	0.3444	1.2696	0.0102	0.0307 MGST1	microsomal protein_co	12	16347142	16609259	1 p12.3
ENSG00000005194	0.3443	1.2695	8.16E-06	5.81E-05 CIAPIN1	cytokine inhibitor protein_co	16	57428169	57447528	-1 q21



ENSG00000198040	0.3442	1.2695	0.0012	0.005 ZNF84	zinc finger protein_co	12	1.33E+08	1.33E+08	1 q24.33
ENSG00000010539	0.3442	1.2694	0.0056	0.0184 ZNF200	zinc finger protein_co	16	3222325	3236221	-1 p13.3
ENSG00000111231	0.3439	1.2692	0.0074	0.0233 GPN3	GPN-loop C protein_co	12	1.1E+08	1.1E+08	-1 q24.11
ENSG00000170619	0.3432	1.2686	0.0006	0.0027 COMMD5	COMM dor protein_co	8	1.45E+08	1.45E+08	-1 q24.3
ENSG00000101856	0.3426	1.268	8.32E-06	5.91E-05 PGRMC1	progesterone protein_co X		1.19E+08	1.19E+08	1 q24
ENSG00000204592	0.3425	1.2679	2.74E-06	2.14E-05 HLA-E	major histc protein_co	6	30489406	30494205	1 p22.1
ENSG00000157181	0.3425	1.2679	0.0016	0.0064 C1orf27	chromosom protein_co	1	1.86E+08	1.86E+08	1 q31.1
ENSG00000177981	0.3422	1.2677	0.0011	0.0046 ASB8	ankyrin re protein_co	12	48147788	48181213	-1 q13.11
ENSG00000225470	0.342	1.2675	0.0091	0.0279 JPX	JPX transcr lincRNA X		73944324	74070408	1 q13.2
ENSG00000160813	0.3418	1.2674	0.013	0.0377 PPP1R35	protein ph protein_co	7	1E+08	1E+08	-1 q22.1
ENSG00000213930	0.3419	1.2674	0.0177	0.0487 GALT	galactose-1 protein_co	9	34638133	34651035	1 p13.3
ENSG00000013561	0.3417	1.2673	3.92E-05	0.0002 RNF14	ring finger protein_co	5	1.42E+08	1.42E+08	1 q31.3
ENSG00000115317	0.3417	1.2673	0.0044	0.0151 HTRA2	HtrA serine protein_co	2	74529377	74533348	1 p13.1
ENSG00000196975	0.3411	1.2667	8.00E-05	0.0005 ANXA4	annexin A4 protein_co	2	69644425	69826464	1 p13.3
ENSG00000116473	0.3411	1.2667	0.0066	0.0213 RAP1A	RAP1A, me protein_co	1	1.12E+08	1.12E+08	1 p13.2
ENSG00000070718	0.3409	1.2665	0.0009	0.004 AP3M2	adaptor-re protein_co	8	42152946	42171673	1 p11.21
ENSG00000188938	0.3408	1.2665	0.0025	0.0093 FAM120AOS	family with protein_co	9	93446494	93453592	-1 q22.31
ENSG00000203667	0.3405	1.2662	0.0039	0.0135 COX20	COX20 cytc protein_co	1	2.45E+08	2.45E+08	1 q44
ENSG00000112081	0.3397	1.2655	6.27E-05	0.0004 SRSF3	serine/argi protein_co	6	36594353	36605600	1 p21.31
ENSG00000151914	0.3394	1.2652	0.0151	0.0428 DST	dystonin [S protein_co	6	56457987	56954628	-1 p12.1
ENSG00000112763	0.3394	1.2652	0.0173	0.0479 BTN2A1	butyrophili protein_co	6	26457904	26476621	1 p22.2
ENSG00000104221	0.3383	1.2642	0.0068	0.0216 BRF2	BRF2, RNA protein_co	8	37843268	37849904	-1 p11.23
ENSG00000170365	0.3381	1.2641	0.0006	0.0027 SMAD1	SMAD fami protein_co	4	1.45E+08	1.46E+08	1 q31.21
ENSG00000164253	0.3372	1.2633	0.0054	0.0177 WDR41	WD repeat protein_co	5	77425970	77620611	-1 q14.1
ENSG00000145390	0.3368	1.263	0.0019	0.0073 USP53	ubiquitin s protein_co	4	1.19E+08	1.19E+08	1 q26
ENSG00000145741	0.3369	1.263	0.0019	0.0074 BTF3	basic trans protein_co	5	73498408	73505635	1 q13.2
ENSG00000185651	0.3367	1.2629	4.53E-08	5.39E-07 UBE2L3	ubiquitin-c protein_co	22	21549447	21624034	1 q11.21
ENSG00000003393	0.3362	1.2624	0.0089	0.0273 ALS2	amyotroph protein_co	2	2.02E+08	2.02E+08	-1 q33.1
ENSG00000197006	0.336	1.2623	0.0006	0.0029 METTL9	methyltran protein_co	16	21597218	21657473	1 p12.2
ENSG00000154845	0.3358	1.2621	1.76E-06	1.44E-05 PPP4R1	protein ph protein_co	18	9546791	9615240	-1 p11.22
ENSG00000060642	0.3359	1.2621	2.52E-05	0.0002 PIGV	phosphatic protein_co	1	26787472	26798398	1 p36.11
ENSG00000135164	0.3358	1.262	0.0052	0.0172 DMTF1	cyclin D bir protein_co	7	87152361	87196337	1 q21.12
ENSG00000168785	0.3355	1.2618	0.0037	0.0128 TSPAN5	tetraspanin protein_co	4	98470367	98658629	-1 q23
ENSG00000174718	0.3355	1.2618	0.0099	0.0299 KIAA1551	KIAA1551 [ protein_co	12	31959370	31993107	1 p11.21
ENSG00000198715	0.3355	1.2618	0.0103	0.0309 C1orf85	chromosom protein_co	1	1.56E+08	1.56E+08	-1 q22
ENSG00000105849	0.3352	1.2616	0.0087	0.0268 TWISTNB	TWIST neig protein_co	7	19695462	19709087	-1 p21.1
ENSG00000062370	0.3348	1.2612	0.0056	0.0185 ZNF112	zinc finger protein_co	19	44326555	44367217	-1 q13.31

ENSG00000156795	0.3347	1.2611	0.0139	0.0398 WDYHV1	WDYHV mcprotein_co	8	1.23E+08	1.23E+08	1 q24.13
ENSG00000170266	0.3341	1.2606	0.0032	0.0114 GLB1	galactosida protein_co	3	32996608	33097230	-1 p22.3
ENSG00000176102	0.3337	1.2602	0.0005	0.0025 CSTF3	cleavage st protein_co	11	33077188	33162371	-1 p13
ENSG00000142556	0.3337	1.2602	0.0107	0.0321 ZNF614	zinc finger protein_co	19	52012765	52030240	-1 q13.41
ENSG00000166037	0.3332	1.2598	0.0078	0.0244 CEP57	centrosom protein_co	11	95789965	95832693	1 q21
ENSG00000164002	0.3331	1.2597	0.0106	0.0317 EXO5	exonucleas protein_co	1	40508741	40516556	1 p34.2
ENSG00000142188	0.3329	1.2595	0.0004	0.0019 TMEM50B	transmemt protein_co	21	33432485	33480011	-1 q22.11
ENSG00000163866	0.3325	1.2592	0.0003	0.0016 SMIM12	small integ protein_co	1	34712737	34859816	-1 p34.3
ENSG00000180329	0.3323	1.2591	4.78E-05	0.0003 CCDC43	coiled-coil protein_co	17	44673069	44689779	-1 q21.31
ENSG00000143570	0.3322	1.259	0.0035	0.0123 SLC39A1	solute carri protein_co	1	1.54E+08	1.54E+08	-1 q21.3
ENSG00000169299	0.3314	1.2582	0.0012	0.005 PGM2	phosphogl protein_co	4	37826633	37862937	1 p14
ENSG00000160194	0.3313	1.2582	0.0019	0.0072 NDUFV3	NADH dehy protein_co	21	42879644	42913304	1 q22.3
ENSG00000183828	0.3313	1.2581	0.0094	0.0286 NUDT14	nudix (nucl protein_co	14	1.05E+08	1.05E+08	-1 q32.33
ENSG00000036054	0.3309	1.2578	0.011	0.0328 TBC1D23	TBC1 doma protein_co	3	1E+08	1E+08	1 q12.1
ENSG00000244045	0.3306	1.2576	0.0015	0.006 TMEM199	transmemt protein_co	17	28357581	28363683	1 q11.2
ENSG00000163029	0.3306	1.2576	0.0034	0.012 SMC6	structural r protein_co	2	17663812	17800242	-1 p24.2
ENSG00000127554	0.3301	1.2571	0.0076	0.0239 GFER	growth fac protein_co	16	1984207	1987749	1 p13.3
ENSG00000133835	0.3299	1.257	1.48E-05	9.92E-05 HSD17B4	hydroxyste protein_co	5	1.19E+08	1.2E+08	1 q23.1
ENSG00000115866	0.33	1.257	8.67E-05	0.0005 DARS	aspartyl-tR protein_co	2	1.36E+08	1.36E+08	-1 q21.3
ENSG00000131069	0.33	1.257	0.0014	0.0055 ACS2	acyl-CoA sy protein_co	20	34872146	34927962	1 q11.22
ENSG00000155975	0.3297	1.2567	0.0027	0.0097 VPS37A	vacuolar pr protein_co	8	17246571	17302427	1 p22
ENSG00000140995	0.3291	1.2563	0.0009	0.004 DEF8	differential protein_co	16	89947925	89968060	1 q24.3
ENSG00000130177	0.3289	1.2561	0.0008	0.0033 CDC16	cell divisior protein_co	13	1.14E+08	1.14E+08	1 q34
ENSG00000108061	0.3284	1.2557	7.18E-06	5.18E-05 SHOC2	soc-2 suppl protein_co	10	1.11E+08	1.11E+08	1 q25.2
ENSG00000257218	0.3284	1.2556	0.0001	0.0006 GATC	glutamyl-tf protein_co	12	1.2E+08	1.2E+08	1 q24.31
ENSG00000162191	0.3284	1.2556	0.0004	0.0018 UBXN1	UBX domai protein_co	11	62676498	62679117	-1 q12.3
ENSG00000122565	0.3279	1.2552	4.89E-05	0.0003 CBX3	chromobo protein_co	7	26201162	26213356	1 p15.2
ENSG00000138073	0.3279	1.2551	0.0028	0.0102 PREB	prolactin r protein_co	2	27130756	27134675	-1 p23.3
ENSG00000064313	0.3277	1.255	0.0003	0.0015 TAF2	TAF2 RNA protein_co	8	1.2E+08	1.2E+08	-1 q24.12
ENSG00000099385	0.3275	1.2549	0.007	0.0222 BCL7C	B-cell CLL/l protein_co	16	30833626	30894960	-1 p11.2
ENSG00000063241	0.3273	1.2547	0.001	0.0042 ISOC2	isochorism protein_co	19	55452985	55462343	-1 q13.42
ENSG00000179152	0.3268	1.2542	0.0001	0.0008 TCAIM	T cell activ protein_co	3	44338119	44409451	1 p21.31
ENSG00000205581	0.3264	1.2539	0.0004	0.0018 HMGN1	high mobili protein_co	21	39342315	39349647	-1 q22.2
ENSG00000169727	0.3263	1.2538	0.0001	0.0006 GPS1	G protein protein_co	17	82050691	82057470	1 q25.3
ENSG00000136147	0.3256	1.2532	0.0013	0.0051 PHF11	PHD finger protein_co	13	49495610	49528987	1 q14.2
ENSG00000170545	0.3256	1.2532	0.0045	0.0152 SMAGP	small cell a protein_co	12	51244558	51270890	-1 q13.13
ENSG00000106615	0.3255	1.2531	0.0015	0.0061 RHEB	Ras homok protein_co	7	1.51E+08	1.52E+08	-1 q36.1

ENSG00000170242	0.3252	1.2529	0.0035	0.0124	USP47	ubiquitin s protein_co	11	11841423	11959323	1	p15.3
ENSG00000125124	0.3253	1.2529	0.0108	0.0323	BBS2	Bardet-Biei protein_co	16	56466836	56520283	-1	q13
ENSG00000256043	0.3252	1.2528	0.0004	0.0019	CTSO	cathepsin C protein_co	4	1.56E+08	1.56E+08	-1	q32.1
ENSG00000151239	0.3252	1.2528	0.015	0.0426	TWF1	twinfilin ac protein_co	12	43793723	43806375	-1	q12
ENSG00000056097	0.325	1.2527	0.0001	0.0008	ZFR	zinc finger protein_co	5	32354350	32444761	-1	p13.3
ENSG00000149357	0.3248	1.2525	2.39E-05	0.0002	LAMTOR1	late endosc protein_co	11	72085895	72103387	-1	q13.4
ENSG00000137171	0.3242	1.252	0.0019	0.0073	KLC4	kinesin ligh protein_co	6	43040777	43075099	1	p21.1
ENSG00000065150	0.324	1.2518	8.67E-05	0.0005	IPO5	importin 5 protein_co	13	97953658	98024297	1	q32.2
ENSG00000175550	0.3239	1.2517	0.0085	0.0263	DRAP1	DR1-associ protein_co	11	65919257	65921561	1	q13.1
ENSG00000180228	0.3236	1.2514	1.19E-05	8.15E-05	PRKRA	protein kin protein_co	2	1.78E+08	1.78E+08	-1	q31.2
ENSG00000186184	0.3234	1.2513	7.43E-05	0.0004	POLR1D	polymerase protein_co	13	27620743	27667422	1	q12.2
ENSG00000171735	0.3233	1.2512	0.0027	0.0098	CAMTA1	calmodulin protein_co	1	6785324	7769706	1	p36.31
ENSG00000130313	0.3226	1.2506	2.83E-05	0.0002	PGLS	6-phospho protein_co	19	17511629	17521288	1	p13.11
ENSG00000151883	0.3221	1.2501	4.77E-06	3.55E-05	PARP8	poly (ADP-i protein_co	5	50665899	50846522	1	q11.1
ENSG00000126581	0.322	1.2501	2.21E-05	0.0001	BECN1	beclin 1, ac protein_co	17	42810134	42833350	-1	q21.31
ENSG00000155229	0.322	1.2501	5.08E-05	0.0003	MMS19	MMS19 nu protein_co	10	97458324	97498794	-1	q24.1
ENSG00000214530	0.3219	1.2499	0.0167	0.0465	STARD10	StAR-relate protein_co	11	72754729	72794168	-1	q13.4
ENSG00000151247	0.3215	1.2497	0.0047	0.0158	EIF4E	eukaryotic protein_co	4	98871684	98930637	-1	q23
ENSG00000177352	0.3214	1.2496	0.0012	0.0049	CCDC71	coiled-coil protein_co	3	49162535	49166321	-1	p21.31
ENSG00000117360	0.3215	1.2496	0.0025	0.0091	PRPF3	pre-mRNA protein_co	1	1.5E+08	1.5E+08	1	q21.2
ENSG00000183077	0.3214	1.2496	0.0161	0.0451	AFMID	arylforman protein_co	17	78187317	78207701	1	q25.3
ENSG00000183258	0.3209	1.2491	0.0014	0.0058	DDX41	DEAD (Asp. protein_co	5	1.78E+08	1.78E+08	-1	q35.3
ENSG00000086827	0.3194	1.2478	0.0005	0.0024	ZW10	zw10 kinet protein_co	11	1.14E+08	1.14E+08	-1	q23.2
ENSG00000138286	0.3193	1.2478	0.0009	0.0037	FAM149B1	family with protein_co	10	73168166	73244504	1	q22.2
ENSG00000171314	0.3192	1.2476	0.0036	0.0127	PGAM1	phosphogl protein_co	10	97426160	97433441	1	q24.1
ENSG00000162236	0.3189	1.2474	0.0016	0.0063	STX5	syntaxin 5  protein_co	11	62806897	62832088	-1	q12.3
ENSG00000135829	0.3187	1.2472	0.002	0.0076	DHX9	DEAH (Asp. protein_co	1	1.83E+08	1.83E+08	1	q25.3
ENSG00000148481	0.3186	1.2471	0.0039	0.0135	FAM188A	family with protein_co	10	15778170	15860520	-1	p13
ENSG00000134717	0.3179	1.2465	0.0013	0.0051	BTF3L4	basic trans protein_co	1	52056125	52090716	1	p32.3
ENSG00000106049	0.3178	1.2464	1.81E-06	1.48E-05	HIBADH	3-hydroxy  protein_co	7	27525442	27662995	-1	p15.2
ENSG00000090487	0.3173	1.246	1.64E-08	2.14E-07	SPG21	spastic par. protein_co	15	64963021	64990310	-1	q22.31
ENSG00000159593	0.3172	1.2459	0.0013	0.0051	NAE1	NEDD8 acti protein_co	16	66802875	66873256	-1	q22.1
ENSG00000083750	0.3167	1.2455	0.0076	0.0238	RRAGB	Ras-relatec protein_co X		55717739	55758774	1	p11.21
ENSG00000111727	0.3163	1.2452	0.0063	0.0204	HCFC2	host cell fa protein_co	12	1.04E+08	1.04E+08	1	q23.3
ENSG00000163798	0.316	1.2449	2.60E-05	0.0002	SLC4A1AP	solute carri protein_co	2	27663471	27694976	1	p23.3
ENSG00000167842	0.3157	1.2447	0.0044	0.0148	MIS12	MIS12 kine protein_co	17	5486285	5490814	1	p13.2
ENSG00000176978	0.3156	1.2446	0.0025	0.0093	DPP7	dipeptidyl- protein_co	9	1.37E+08	1.37E+08	-1	q34.3

ENSG00000137700	0.3153	1.2443	0.0066	0.0211	SLC37A4	solute carrier protein_co	11	1.19E+08	1.19E+08	-1	q23.3
ENSG00000111671	0.315	1.244	0.0177	0.0487	SPSB2	splA/ryano protein_co	12	6870935	6889358	-1	p13.31
ENSG00000126653	0.3149	1.2439	0.0002	0.0012	NSRP1	nuclear spe protein_co	17	30115521	30186475	1	q11.2
ENSG00000175054	0.3148	1.2438	0.0006	0.0026	ATR	ATR serine, protein_co	3	1.42E+08	1.43E+08	-1	q23
ENSG00000110013	0.3144	1.2435	0.0058	0.0191	SIAE	sialic acid a protein_co	11	1.25E+08	1.25E+08	-1	q24.2
ENSG00000103266	0.3143	1.2434	0.0017	0.0066	STUB1	STIP1 homi protein_co	16	680224	682870	1	p13.3
ENSG00000230124	0.3139	1.243	0.0004	0.0019	LHX4-AS1	LHX4 antis protein_co	1	1.8E+08	1.81E+08	-1	q25.3
ENSG00000040633	0.3136	1.2428	0.0005	0.0024	PHF23	PHD finger protein_co	17	7235028	7239722	-1	p13.1
ENSG00000075651	0.3132	1.2425	3.25E-05	0.0002	PLD1	phospholip protein_co	3	1.72E+08	1.72E+08	-1	q26.31
ENSG00000198931	0.3133	1.2425	0.003	0.0109	APRT	adenine ph protein_co	16	88809339	88811944	-1	q24.3
ENSG00000137513	0.3126	1.2419	0.0076	0.0238	NARS2	asparaginy protein_co	11	78435961	78574874	-1	q14.1
ENSG00000145494	0.3122	1.2416	0.0007	0.0031	NDUFS6	NADH dehy protein_co	5	1801400	1816605	1	p15.33
ENSG00000159256	0.3114	1.2409	0.002	0.0075	MORC3	MORC fam protein_co	21	36320189	36386148	1	q22.12
ENSG00000137040	0.3114	1.2409	0.0162	0.0452	RANBP6	RAN bindin protein_co	9	6011043	6015625	-1	p24.1
ENSG00000110429	0.311	1.2406	0.0041	0.014	FBXO3	F-box prote protein_co	11	33740939	33774543	-1	p13
ENSG00000197119	0.3108	1.2404	0.0056	0.0184	SLC25A29	solute carrier protein_co	14	1E+08	1E+08	-1	q32.2
ENSG00000069248	0.3101	1.2398	0.0029	0.0104	NUP133	nucleopori protein_co	1	2.29E+08	2.3E+08	-1	q42.13
ENSG00000089006	0.3097	1.2395	0.0005	0.0021	SNX5	sorting nex protein_co	20	17941597	17968980	-1	p11.23
ENSG00000178988	0.3094	1.2392	0.002	0.0078	MRFAP1L1	Morf4 fami protein_co	4	6707701	6709880	-1	p16.1
ENSG00000119979	0.3092	1.239	0.0029	0.0105	FAM45A	family with protein_co	10	1.19E+08	1.19E+08	1	q26.11
ENSG00000138592	0.309	1.2388	0.0031	0.011	USP8	ubiquitin s protein_co	15	50424380	50514419	1	q21.2
ENSG00000100296	0.3087	1.2386	0.001	0.004	THOC5	THO compl protein_co	22	29505879	29555216	-1	q12.2
ENSG00000171103	0.3087	1.2386	0.0021	0.008	TRMT61B	tRNA meth protein_co	2	28849821	28870301	-1	p23.2
ENSG00000114745	0.3082	1.2382	0.0009	0.0038	GORASP1	golgi reass protein_co	3	39096659	39108363	-1	p22.2
ENSG00000039123	0.3076	1.2376	0.0007	0.0029	SKIV2L2	superkiller protein_co	5	55307760	55425581	1	q11.2
ENSG00000115761	0.307	1.2371	0.0017	0.0065	NOL10	nucleolar p protein_co	2	10570766	10689987	-1	p25.1
ENSG00000125827	0.307	1.2371	0.0045	0.0153	TMX4	thioredoxir protein_co	20	7977348	8019829	-1	p12.3
ENSG00000173230	0.3068	1.237	0.0038	0.0131	GOLGB1	golgin B1 [ protein_co	3	1.22E+08	1.22E+08	-1	q13.33
ENSG00000048544	0.3062	1.2365	0.0005	0.0021	MRPS10	mitochond protein_co	6	42206801	42217865	-1	p21.1
ENSG00000146085	0.3062	1.2365	0.0035	0.0123	MUT	methylmal protein_co	6	49430360	49463191	-1	p12.3
ENSG00000120910	0.3061	1.2364	0.0093	0.0283	PPP3CC	protein ph protein_co	8	22440819	22541142	1	p21.3
ENSG00000118217	0.3059	1.2362	4.46E-05	0.0003	ATF6	activating t protein_co	1	1.62E+08	1.62E+08	1	q23.3
ENSG00000102317	0.3058	1.2361	0.0009	0.0039	RBM3	RNA bindin protein_co X		48574449	48579066	1	p11.23
ENSG00000119723	0.3053	1.2357	0.0052	0.0172	COQ6	coenzyme i protein_co	14	73949926	73963670	1	q24.3
ENSG00000112335	0.3052	1.2356	0.0014	0.0055	SNX3	sorting nex protein_co	6	1.08E+08	1.08E+08	-1	q21
ENSG00000086666	0.3051	1.2355	0.0126	0.0367	ZFAND6	zinc finger, protein_co	15	80059568	80138393	1	q25.1
ENSG00000110911	0.305	1.2354	0.0016	0.0063	SLC11A2	solute carrier protein_co	12	50979401	51028566	-1	q13.12

ENSG00000155957	0.3049	1.2354	0.0098	0.0297	TMBIM4	transmembr protein_co	12	66135846	66170072	-1	q14.3
ENSG00000143149	0.3049	1.2353	0.0085	0.0263	ALDH9A1	aldehyde d protein_co	1	1.66E+08	1.66E+08	-1	q24.1
ENSG00000138801	0.3043	1.2348	2.25E-05	0.0001	PAPSS1	3'-phosphc protein_co	4	1.08E+08	1.08E+08	-1	q25
ENSG00000125970	0.3039	1.2345	4.26E-06	3.21E-05	RALY	RALY heter protein_co	20	33993646	34108308	1	q11.22
ENSG00000181852	0.3036	1.2343	0.0001	0.0007	RNF41	ring finger protein_co	12	56202175	56221933	-1	q13.3
ENSG00000275835	0.3036	1.2342	0.0106	0.0318	TUBGCP5	tubulin, gai protein_co	15	22983192	23039673	-1	q11.2
ENSG00000115446	0.3033	1.234	0.0036	0.0126	UNC50	unc-50 hor protein_co	2	98608579	98618515	1	q11.2
ENSG00000065809	0.3032	1.2339	0.0144	0.0411	FAM107B	family with protein_co	10	14518557	14774897	-1	p13
ENSG00000101166	0.3027	1.2335	0.0031	0.0112	SLMO2	slowmo ho protein_co	20	59033145	59042909	-1	q13.32
ENSG00000165119	0.3023	1.2331	2.99E-05	0.0002	HNRNPK	heterogenε protein_co	9	83968083	83980616	-1	q21.32
ENSG00000156873	0.3015	1.2324	0.0044	0.015	PHKG2	phosphoryl protein_co	16	30748270	30761176	1	p11.2
ENSG00000183155	0.3011	1.2321	0.0011	0.0044	RABIF	RAB intera protein_co	1	2.03E+08	2.03E+08	-1	q32.1
ENSG00000119899	0.301	1.232	0.0117	0.0345	SLC17A5	solute carri protein_co	6	73593379	73654155	-1	q13
ENSG00000166847	0.3009	1.2319	0.0004	0.0017	DCTN5	dynactin 5 protein_co	16	23641392	23677455	1	p12.2
ENSG00000243927	0.3007	1.2318	0.006	0.0194	MRPS6	mitochond protein_co	21	34073224	34143034	1	q22.11
ENSG00000178078	0.3007	1.2317	0.0148	0.0421	STAP2	signal trans protein_co	19	4324043	4342786	-1	p13.3
ENSG00000176783	0.3003	1.2314	0.0003	0.0013	RUFY1	RUN and F protein_co	5	1.8E+08	1.8E+08	1	q35.3
ENSG00000135900	0.3003	1.2314	0.0028	0.0102	MRPL44	mitochond protein_co	2	2.24E+08	2.24E+08	1	q36.1
ENSG00000062194	0.2999	1.2311	0.0046	0.0157	GPBP1	GC-rich prc protein_co	5	57173948	57264679	1	q11.2
ENSG00000214013	0.2997	1.2309	0.0018	0.0071	GANC	glucosidase protein_co	15	42273233	42356935	1	q15.1
ENSG00000169714	0.2997	1.2309	0.002	0.0076	CNBP	CCHC-type protein_co	3	1.29E+08	1.29E+08	-1	q21.3
ENSG00000153113	0.2995	1.2307	0.0022	0.0082	CAST	calpastatin protein_co	5	96525267	96779595	1	q15
ENSG00000107872	0.2994	1.2306	0.0145	0.0415	FBXL15	F-box and I protein_co	10	1.02E+08	1.02E+08	1	q24.32
ENSG00000111652	0.299	1.2303	0.0004	0.0019	COPS7A	COP9 signa protein_co	12	6723741	6731875	1	p13.31
ENSG00000189266	0.299	1.2303	0.0122	0.0358	PNRC2	proline-rich protein_co	1	23959109	23963462	1	p36.11
ENSG00000198171	0.2988	1.2301	0.0004	0.002	DDRGK1	DDRGK dor protein_co	20	3190350	3204685	-1	p13
ENSG00000115840	0.2983	1.2297	0.0178	0.049	SLC25A12	solute carri protein_co	2	1.72E+08	1.72E+08	-1	q31.1
ENSG00000204611	0.2982	1.2296	0.0153	0.0432	ZNF616	zinc finger protein_co	19	52113091	52139922	-1	q13.41
ENSG00000112514	0.2974	1.2289	0.0006	0.0026	CUTA	cutA divale protein_co	6	33416442	33418317	-1	p21.32
ENSG00000138629	0.2973	1.2288	0.0021	0.0078	UBL7	ubiquitin-li protein_co	15	74445977	74461182	-1	q24.1
ENSG00000117411	0.2973	1.2288	0.0086	0.0266	B4GALT2	UDP-Gal:βε protein_co	1	43978943	43991170	1	p34.1
ENSG00000168944	0.2969	1.2285	0.0171	0.0474	CEP120	centrosom protein_co	5	1.23E+08	1.23E+08	-1	q23.2
ENSG00000165832	0.2967	1.2283	0.0132	0.0384	TRUB1	TruB pseuc protein_co	10	1.15E+08	1.15E+08	1	q25.3
ENSG00000119599	0.2963	1.228	0.0132	0.0382	DCAF4	DDB1 and (protein_co	14	72926332	72959703	1	q24.2
ENSG00000123472	0.2956	1.2274	0.004	0.0138	ATPAF1	ATP syntha protein_co	1	46632737	46673867	-1	p33
ENSG00000171469	0.2955	1.2273	5.10E-06	3.78E-05	ZNF561	zinc finger protein_co	19	9604680	9621399	-1	p13.2
ENSG00000083937	0.2947	1.2266	0.0037	0.0128	CHMP2B	charged mi protein_co	3	87227271	87255548	1	p11.2



ENSG00000124702	0.2941	1.2262	0.0144	0.0412 KLHDC3	kelch domain protein_co	6	43014103	43021298	1 p21.1
ENSG00000170633	0.2938	1.2259	0.0011	0.0045 RNF34	ring finger protein_co	12	1.21E+08	1.21E+08	1 q24.31
ENSG00000120798	0.293	1.2252	0.0073	0.023 NR2C1	nuclear receptor protein_co	12	95020229	95073703	-1 q22
ENSG00000122550	0.2928	1.2251	0.0048	0.0162 KLHL7	kelch-like family protein_co	7	23105758	23177914	1 p15.3
ENSG00000110955	0.2926	1.2249	0.0043	0.0148 ATP5B	ATP synthase protein_co	12	56638175	56646068	-1 q13.3
ENSG00000105612	0.2924	1.2247	0.0003	0.0015 DNASE2	deoxyribose protein_co	19	12875211	12881468	-1 p13.13
ENSG00000137814	0.2916	1.224	0.0024	0.0091 HAUS2	HAUS augmin protein_co	15	42548810	42569994	1 q15.2
ENSG00000198001	0.2916	1.224	0.005	0.0166 IRAK4	interleukin protein_co	12	43758944	43789543	1 q12
ENSG00000162777	0.2911	1.2236	0.0024	0.009 DENND2D	DENN/MAL protein_co	1	1.11E+08	1.11E+08	-1 p13.2
ENSG00000096384	0.2911	1.2236	0.0047	0.0157 HSP90AB1	heat shock protein_co	6	44246166	44253888	1 p21.1
ENSG00000165516	0.291	1.2235	0.0088	0.0272 KLHDC2	kelch domain protein_co	14	49767608	49786385	1 q21.3
ENSG00000130638	0.2898	1.2225	1.02E-05	7.11E-05 ATXN10	ataxin 10 protein_co	22	45671798	45845307	1 q13.31
ENSG00000175634	0.2898	1.2225	0.0038	0.0133 RPS6KB2	ribosomal protein_co	11	67428460	67435408	1 q13.2
ENSG00000075415	0.2891	1.2219	8.10E-06	5.77E-05 SLC25A3	solute carrier protein_co	12	98593591	98606379	1 q23.1
ENSG00000198961	0.2889	1.2217	0.012	0.0351 PJA2	praja ring finger protein_co	5	1.09E+08	1.09E+08	-1 q21.3
ENSG00000198642	0.2887	1.2215	0.0027	0.01 KLHL9	kelch-like family protein_co	9	21329671	21335380	-1 p21.3
ENSG00000162585	0.2875	1.2206	0.0171	0.0474 C1orf86	chromosome protein_co	1	2184461	2212720	-1 p36.33
ENSG00000168101	0.2875	1.2205	0.0017	0.0065 NUDT16L1	nudix (nucleoside diphosphate) protein_co	16	4693694	4695859	1 p13.3
ENSG00000103051	0.2874	1.2204	0.001	0.0043 COG4	component protein_co	16	70480568	70523565	-1 q22.1
ENSG00000198538	0.2869	1.22	0.0091	0.0278 ZNF28	zinc finger protein_co	19	52797409	52857600	-1 q13.41
ENSG00000109606	0.2868	1.2199	6.38E-05	0.0004 DHX15	DEAH (Asp) protein_co	4	24517441	24584550	-1 p15.2
ENSG00000113013	0.2866	1.2198	0.0032	0.0115 HSPA9	heat shock protein_co	5	1.39E+08	1.39E+08	-1 q31.2
ENSG00000132475	0.2864	1.2196	9.78E-07	8.54E-06 H3F3B	H3 histone protein_co	17	75776434	75785893	-1 q25.1
ENSG00000145388	0.2858	1.2191	0.0068	0.0216 METTL4	methyltransferase protein_co	4	1.19E+08	1.19E+08	1 q26
ENSG00000136819	0.2856	1.219	0.0003	0.0014 C9orf78	chromosome protein_co	9	1.3E+08	1.3E+08	-1 q34.11
ENSG00000114480	0.2847	1.2182	0.0054	0.0179 GBE1	glucan (1,4) protein_co	3	81489699	81762161	-1 p12.2
ENSG00000158793	0.2848	1.2182	0.0154	0.0435 NIT1	nitrilase 1 protein_co	1	1.61E+08	1.61E+08	1 q23.3
ENSG00000124532	0.2846	1.2181	0.0001	0.0007 MRS2	MRS2 magister protein_co	6	24402908	24426194	1 p22.3
ENSG00000164338	0.2843	1.2178	0.0164	0.0458 UTP15	UTP15, U3 protein_co	5	73565443	73583377	1 q13.2
ENSG00000137575	0.284	1.2176	0.0112	0.0332 SDCBP	syndecan binding protein_co	8	58552924	58582860	1 q12.1
ENSG00000108395	0.2836	1.2172	0.0097	0.0294 TRIM37	tripartite repeat protein_co	17	58982638	59106921	-1 q22
ENSG00000163512	0.283	1.2167	0.002	0.0076 AZI2	5-azacytidine protein_co	3	28315003	28349127	-1 p24.1
ENSG00000185475	0.2828	1.2166	0.002	0.0075 TMEM179B	transmembrane protein_co	11	62787415	62790405	1 q12.3
ENSG00000112584	0.2826	1.2164	0.0174	0.048 FAM120B	family with protein_co	6	1.7E+08	1.7E+08	1 q27
ENSG00000040341	0.2823	1.2162	0.0071	0.0226 STAU2	staufen domain protein_co	8	73420369	73747708	-1 q21.11
ENSG00000132313	0.2822	1.2161	0.0035	0.0124 MRPL35	mitochondrial protein_co	2	86199355	86213794	1 p11.2
ENSG00000116863	0.2808	1.2149	0.0108	0.0324 ADPRHL2	ADP-ribosyl protein_co	1	36088875	36093932	1 p34.3

ENSG00000165525	0.2806	1.2147	0.0008	0.0034 NEMF	nuclear ex $\zeta$ protein_co	14	49782083	49853203	-1 q21.3
ENSG00000091140	0.2803	1.2145	0.0016	0.0062 DLD	dihydrolipe protein_co	7	1.08E+08	1.08E+08	1 q31.1
ENSG00000164695	0.28	1.2142	0.0013	0.0052 CHMP4C	charged mi protein_co	8	81732434	81759515	1 q21.13
ENSG00000136925	0.2787	1.2131	0.0011	0.0047 TSTD2	thiosulfate protein_co	9	97600080	97633575	-1 q22.33
ENSG00000134014	0.2782	1.2127	0.0036	0.0125 ELP3	elongator $\epsilon$ protein_co	8	28089673	28191156	1 p21.1
ENSG00000136436	0.2778	1.2124	0.0004	0.0019 CALCOCO2	calcium bir protein_co	17	48830988	48866522	1 q21.32
ENSG00000124596	0.2773	1.2119	0.018	0.0495 OARD1	O-acyl-ADP protein_co	6	41033627	41097787	-1 p21.1
ENSG00000141425	0.2764	1.2112	0.0003	0.0015 RPRD1A	regulation protein_co	18	35984387	36067576	-1 q12.2
ENSG00000179918	0.2763	1.2111	0.0012	0.0049 SEPHS2	selenophos protein_co	16	30443631	30446181	-1 p11.2
ENSG00000164896	0.276	1.2108	0.0017	0.0066 FASTK	Fas-activat protein_co	7	1.51E+08	1.51E+08	-1 q36.1
ENSG00000095059	0.276	1.2108	0.0023	0.0087 DHPS	deoxyhypu protein_co	19	12675717	12681902	-1 p13.13
ENSG00000138660	0.276	1.2108	0.0075	0.0237 AP1AR	adaptor-re protein_co	4	1.12E+08	1.12E+08	1 q25
ENSG00000172466	0.2756	1.2105	0.001	0.0041 ZNF24	zinc finger protein_co	18	35332212	35345482	-1 q12.2
ENSG00000085721	0.2751	1.2101	0.0069	0.0219 RRN3	RRN3 RNA protein_co	16	15060022	15094317	-1 p13.11
ENSG00000115484	0.2746	1.2097	0.0012	0.0049 CCT4	chaperonir protein_co	2	61868089	61888804	-1 p15
ENSG00000164163	0.2747	1.2097	0.0045	0.0152 ABCE1	ATP-bindin protein_co	4	1.45E+08	1.45E+08	1 q31.21
ENSG00000060140	0.2747	1.2097	0.0141	0.0405 STYK1	serine/thre protein_co	12	10618939	10674318	-1 p13.2
ENSG00000265808	0.2746	1.2097	0.0175	0.0483 SEC22B	SEC22 vesii protein_co	1	1.2E+08	1.2E+08	-1 p12
ENSG00000117758	0.2741	1.2092	0.0001	0.0006 STX12	syntaxin 12 protein_co	1	27773183	27824452	1 p35.3
ENSG00000133398	0.2741	1.2092	0.0063	0.0203 MED10	mediator c protein_co	5	6371881	6378594	-1 p15.31
ENSG00000134882	0.2736	1.2088	0.0002	0.0012 UBAC2	UBA domai protein_co	13	99200774	99386434	1 q32.3
ENSG00000184281	0.2735	1.2087	0.0024	0.0088 TSSC4	tumor sup $\zeta$ protein_co	11	2400488	2403878	1 p15.5
ENSG00000179632	0.2732	1.2085	0.0016	0.0063 MAF1	MAF1 hom protein_co	8	1.44E+08	1.44E+08	1 q24.3
ENSG00000114541	0.2732	1.2085	0.003	0.0109 FRMD4B	FERM dom protein_co	3	69169990	69542583	-1 p14.1
ENSG00000147155	0.2733	1.2085	0.0054	0.0177 EBP	emopamil I protein_co X		48521158	48528716	1 p11.23
ENSG00000123106	0.2732	1.2084	0.0033	0.0118 CCDC91	coiled-coil protein_co	12	28133249	28581511	1 p11.22
ENSG00000134759	0.2729	1.2082	0.0031	0.0112 ELP2	elongator $\epsilon$ protein_co	18	36129444	36180556	1 q12.2
ENSG00000160058	0.2723	1.2077	0.0104	0.0312 BSDC1	BSD domai protein_co	1	32365103	32394731	-1 p35.1
ENSG00000017260	0.2721	1.2075	0.0145	0.0414 ATP2C1	ATPase, Ca protein_co	3	1.31E+08	1.31E+08	1 q22.1
ENSG00000186283	0.2706	1.2063	3.62E-05	0.0002 TOR3A	torsin fami protein_co	1	1.79E+08	1.79E+08	1 q25.2
ENSG00000015479	0.2699	1.2057	0.0005	0.0022 MATR3	matrin 3 [S protein_co	5	1.39E+08	1.39E+08	1 q31.2
ENSG00000089220	0.2699	1.2057	0.0109	0.0326 PEBP1	phosphatic protein_co	12	1.18E+08	1.18E+08	1 q24.23
ENSG00000147854	0.2693	1.2052	0.018	0.0494 UHRF2	ubiquitin-li protein_co	9	6413151	6507054	1 p24.1
ENSG00000116667	0.269	1.205	0.0144	0.0411 C1orf21	chromoson protein_co	1	1.84E+08	1.85E+08	1 q25.3
ENSG00000108561	0.2688	1.2048	0.0012	0.0048 C1QBP	complemei protein_co	17	5432777	5448830	-1 p13.2
ENSG00000182481	0.2683	1.2044	0.0013	0.0053 KPNA2	karyopheri protein_co	17	68035519	68046842	1 q24.2
ENSG00000113460	0.2666	1.203	0.0175	0.0482 BRX1	BRX1, biog. protein_co	5	34915376	34925996	1 p13.2

ENSG00000014824	0.2659	1.2024	0.0061	0.0197	SLC30A9	solute carrier protein_co	4	41990472	42090457	1	p13
ENSG00000237190	0.2629	1.1999	0.0134	0.0387	CDKN2AIPNL	CDKN2A inhibitor protein_co	5	1.34E+08	1.34E+08	-1	q31.1
ENSG00000103356	0.262	1.1991	0.0114	0.0336	EARS2	glutamyl-tRNA synthetase_co	16	23522014	23557731	-1	p12.2
ENSG00000143207	0.2615	1.1987	0.0001	0.0007	RFWD2	ring finger protein_co	1	1.76E+08	1.76E+08	-1	q25.2
ENSG00000170540	0.2614	1.1987	0.0057	0.0187	ARL6IP1	ADP-ribosyltransferase_co	16	18791667	18801678	-1	p12.3
ENSG00000213341	0.2603	1.1977	0.0018	0.0069	CHUK	conserved protein_co	10	1E+08	1E+08	-1	q24.31
ENSG00000172936	0.2602	1.1976	0.0008	0.0033	MYD88	myeloid differentiation factor protein_co	3	38138478	38143022	1	p22.2
ENSG00000172057	0.2589	1.1966	0.0118	0.0347	ORMDL3	ORMDL family protein_co	17	39921041	39927601	-1	q21.1
ENSG00000162441	0.2589	1.1965	0.0164	0.0458	LZIC	leucine zipper protein_co	1	9922113	9943407	-1	p36.22
ENSG00000087206	0.2585	1.1962	0.0147	0.0418	UIMC1	ubiquitin interacting protein_co	5	1.77E+08	1.77E+08	-1	q35.2
ENSG00000164615	0.2583	1.1961	0.0115	0.0339	CAMLG	calcium modulator protein_co	5	1.35E+08	1.35E+08	1	q31.1
ENSG00000165637	0.2573	1.1952	7.45E-06	5.35E-05	VDAC2	voltage-dependent anion channel protein_co	10	75210154	75231448	1	q22.2
ENSG00000136108	0.2573	1.1952	0.0122	0.0357	CKAP2	cytoskeletal protein_co	13	52455429	52476628	1	q14.3
ENSG00000122783	0.2572	1.1951	0.0133	0.0384	C7orf49	chromosome protein_co	7	1.35E+08	1.35E+08	-1	q33
ENSG00000155561	0.2561	1.1943	0.0015	0.0058	NUP205	nucleoporin protein_co	7	1.36E+08	1.36E+08	1	q33
ENSG00000085491	0.2558	1.194	0.0168	0.0468	SLC25A24	solute carrier protein_co	1	1.08E+08	1.08E+08	-1	p13.3
ENSG00000074201	0.2553	1.1936	0.0013	0.0051	CLNS1A	chloride channel protein_co	11	77514936	77637805	-1	q14.1
ENSG00000131375	0.2553	1.1936	0.0087	0.027	CAPN7	calpain 7 protein_co	3	15206152	15252918	1	p25.1
ENSG00000139505	0.2552	1.1935	0.0027	0.0098	MTMR6	myotubularin protein_co	13	25246201	25288009	-1	q12.13
ENSG00000165782	0.2551	1.1935	0.0165	0.046	TMEM55B	transmembrane protein_co	14	20457719	20461612	-1	q11.2
ENSG00000138768	0.2551	1.1934	0.0032	0.0114	USO1	USO1 vesicle protein_co	4	75724593	75814286	1	q21.1
ENSG00000083223	0.2543	1.1927	0.0055	0.018	ZCCHC6	zinc finger protein_co	9	86287733	86354454	-1	q21.33
ENSG00000162836	0.2533	1.192	0.0167	0.0466	ACP6	acid phosphatase protein_co	1	1.48E+08	1.48E+08	-1	q21.2
ENSG00000003756	0.2532	1.1919	0.0016	0.0062	RBM5	RNA binding protein_co	3	50088908	50119021	1	p21.31
ENSG00000169062	0.2528	1.1915	0.0019	0.0074	UPF3A	UPF3 regulator protein_co	13	1.14E+08	1.14E+08	1	q34
ENSG00000092330	0.2526	1.1913	0.0012	0.0048	TINF2	TERF1 (TRF) protein_co	14	24239643	24242674	-1	q12
ENSG00000145833	0.2525	1.1913	0.0043	0.0148	DDX46	DEAD (Asp) protein_co	5	1.35E+08	1.35E+08	1	q31.1
ENSG00000023228	0.2522	1.1911	0.0049	0.0164	NDUFS1	NADH dehydrogenase protein_co	2	2.06E+08	2.06E+08	-1	q33.3
ENSG00000116266	0.252	1.1908	0.0176	0.0486	STXBP3	syntrophin beta protein_co	1	1.09E+08	1.09E+08	1	p13.3
ENSG00000126777	0.251	1.1901	0.0007	0.0032	KTN1	kinectin 1 (protein_co	14	55559072	55701526	1	q22.3
ENSG00000145348	0.2499	1.1891	0.0079	0.0247	TBCK	TBC1 domain protein_co	4	1.06E+08	1.06E+08	-1	q24
ENSG00000076321	0.2496	1.1889	0.0112	0.0332	KLHL20	kelch-like family protein_co	1	1.74E+08	1.74E+08	1	q25.1
ENSG00000120705	0.2494	1.1887	1.09E-05	7.52E-05	ETF1	eukaryotic protein_co	5	1.39E+08	1.39E+08	-1	q31.2
ENSG00000198833	0.249	1.1884	0.0099	0.0299	UBE2J1	ubiquitin-conjugating protein_co	6	89326625	89352848	-1	q15
ENSG00000090989	0.2484	1.1879	1.77E-05	0.0001	EXOC1	exocyst core protein_co	4	55853616	55905034	1	q12
ENSG00000227057	0.248	1.1875	0.0023	0.0087	WDR46	WD repeat protein_co	6	33279108	33289527	-1	p21.32
ENSG00000275700	0.2477	1.1873	0.0055	0.0181	AATF	apoptosis regulator protein_co	17	36948875	37056871	1	q12

ENSG00000051620	0.2476	1.1872	0.001	0.0042	HEBP2	heme bind protein_co	6	1.38E+08	1.38E+08	1	q24.1
ENSG00000182179	0.2474	1.1871	0.0013	0.0053	UBA7	ubiquitin-li protein_co	3	49805207	49813946	-1	p21.31
ENSG00000196305	0.2472	1.1869	0.0017	0.0067	IARS	isoleucyl-tf protein_co	9	92210207	92293716	-1	q22.31
ENSG00000084623	0.2463	1.1862	0.0066	0.0211	EIF3I	eukaryotic protein_co	1	32221928	32231604	1	p35.2
ENSG00000183576	0.2457	1.1856	0.0049	0.0164	SETD3	SET domair protein_co	14	99397746	99480879	-1	q32.2
ENSG00000164930	0.245	1.1851	0.0052	0.0171	FZD6	frizzled cla: protein_co	8	1.03E+08	1.03E+08	1	q22.3
ENSG00000103061	0.2439	1.1842	0.0115	0.0339	SLC7A6OS	solute carri protein_co	16	68284503	68310951	-1	q22.1
ENSG00000101363	0.2435	1.1839	0.007	0.0222	MANBAL	mannosida protein_co	20	37289638	37317260	1	q11.23
ENSG00000127022	0.2431	1.1836	0.0081	0.0253	CANX	calnexin [S] protein_co	5	1.8E+08	1.8E+08	1	q35.3
ENSG00000119383	0.2424	1.183	3.70E-05	0.0002	PPP2R4	protein phi protein_co	9	1.29E+08	1.29E+08	1	q34.11
ENSG00000082213	0.2414	1.1821	0.0038	0.0132	C5orf22	chromoson protein_co	5	31532266	31555058	1	p13.3
ENSG00000136940	0.241	1.1818	0.0137	0.0394	PDCL	phosducin- protein_co	9	1.23E+08	1.23E+08	-1	q33.2
ENSG00000157895	0.2405	1.1814	0.0166	0.0462	C12orf43	chromoson protein_co	12	1.21E+08	1.21E+08	-1	q24.31
ENSG00000035687	0.2389	1.1801	0.0022	0.0084	ADSS	adenylosuc protein_co	1	2.44E+08	2.44E+08	-1	q44
ENSG00000155097	0.2388	1.18	0.004	0.0136	ATP6V1C1	ATPase, H+ protein_co	8	1.03E+08	1.03E+08	1	q22.3
ENSG00000115234	0.2384	1.1797	0.0014	0.0055	SNX17	sorting nex protein_co	2	27370496	27377533	1	p23.3
ENSG00000069956	0.2381	1.1794	0.0138	0.0396	MAPK6	mitogen-ac protein_co	15	51952106	52067372	1	q21.2
ENSG00000052841	0.2375	1.179	0.0024	0.0088	TTC17	tetratricop protein_co	11	43358932	43494933	1	p12
ENSG00000117640	0.2375	1.179	0.0031	0.011	MTFR1L	mitochond protein_co	1	25818640	25832942	1	p36.11
ENSG00000064995	0.2374	1.1789	0.0144	0.0411	TAF11	TAF11 RNA protein_co	6	34877778	34888089	-1	p21.31
ENSG00000129625	0.2369	1.1784	0.0123	0.036	REEP5	receptor ac protein_co	5	1.13E+08	1.13E+08	-1	q22.2
ENSG00000179010	0.2363	1.178	2.89E-05	0.0002	MRFAP1	Morf4 fami protein_co	4	6640091	6642745	1	p16.1
ENSG00000093144	0.2356	1.1774	0.0125	0.0365	ECHDC1	enoyl CoA l protein_co	6	1.27E+08	1.27E+08	-1	q22.33
ENSG00000166411	0.2349	1.1768	0.0175	0.0483	IDH3A	isocitrate d protein_co	15	78131498	78171949	1	q25.1
ENSG00000164654	0.2345	1.1765	0.0056	0.0183	MIOS	missing ooi protein_co	7	7566872	7608929	1	p21.3
ENSG00000136146	0.2342	1.1763	0.0011	0.0046	MED4	mediator c protein_co	13	48053323	48095131	-1	q14.2
ENSG00000156931	0.234	1.1761	0.0017	0.0067	VPS8	vacuolar pr protein_co	3	1.85E+08	1.85E+08	1	q27.2
ENSG00000134996	0.2339	1.176	0.0047	0.0159	OSTF1	osteoclast : protein_co	9	75088543	75147265	1	q21.13
ENSG00000171159	0.2338	1.1759	0.0159	0.0446	C9orf16	chromoson protein_co	9	1.28E+08	1.28E+08	1	q34.11
ENSG00000084733	0.2335	1.1757	0.0004	0.002	RAB10	RAB10, me protein_co	2	26034107	26137454	1	p23.3
ENSG00000181885	0.2335	1.1757	0.003	0.0109	CLDN7	claudin 7 [S] protein_co	17	7259903	7263983	-1	p13.1
ENSG00000126062	0.2331	1.1753	0.0059	0.0191	TMEM115	transmemt protein_co	3	50354749	50359610	-1	p21.31
ENSG00000003400	0.2325	1.1749	0.0115	0.034	CASP10	caspase 10 protein_co	2	2.01E+08	2.01E+08	1	q33.1
ENSG00000116679	0.2323	1.1747	0.006	0.0195	IVNS1ABP	influenza v protein_co	1	1.85E+08	1.85E+08	-1	q25.3
ENSG00000012822	0.2318	1.1743	0.0065	0.0208	CALCOCO1	calcium bir protein_co	12	53708517	53727745	-1	q13.13
ENSG00000164366	0.2301	1.1729	0.0116	0.0342	CCDC127	coiled-coil protein_co	5	196871	218215	-1	p15.33
ENSG00000213995	0.2297	1.1726	0.0007	0.0029	CARKD	carbohydr protein_co	13	1.11E+08	1.11E+08	1	q34

ENSG00000115145	0.2287	1.1718	0.0045	0.0152	STAM2	signal trans protein_co	2	1.52E+08	1.52E+08	-1	q23.3
ENSG00000164609	0.2255	1.1692	0.0174	0.048	SLU7	SLU7 splicin protein_co	5	1.6E+08	1.6E+08	-1	q33.3
ENSG00000182199	0.2254	1.1691	0.0019	0.0073	SHMT2	serine hydr protein_co	12	57229327	57234935	1	q13.3
ENSG00000160310	0.2251	1.1689	5.62E-05	0.0003	PRMT2	protein arg protein_co	21	46635167	46665124	1	q22.3
ENSG00000167671	0.2252	1.1689	0.0016	0.0061	UBXN6	UBX domai protein_co	19	4444999	4457822	-1	p13.3
ENSG00000135040	0.2246	1.1684	0.0117	0.0345	NAA35	N(alpha)-a protein_co	9	85941146	86022298	1	q21.33
ENSG00000225921	0.2229	1.167	0.0016	0.0062	NOL7	nucleolar p protein_co	6	13615327	13632739	1	p23
ENSG00000171988	0.2229	1.167	0.0154	0.0436	JMJD1C	jumonji do protein_co	10	63167221	63465881	-1	q21.3
ENSG00000204713	0.2219	1.1662	0.0008	0.0036	TRIM27	tripartite r protein_co	6	28903002	28923989	-1	p22.1
ENSG00000103769	0.2211	1.1656	0.0023	0.0087	RAB11A	RAB11A, m protein_co	15	65726054	65891991	1	q22.31
ENSG00000176407	0.221	1.1655	0.0002	0.0009	KCMF1	potassium protein_co	2	84971093	85059472	1	p11.2
ENSG00000170502	0.2207	1.1653	0.0032	0.0114	NUDT9	nudix (nucl protein_co	4	87422582	87459454	1	q22.1
ENSG00000146223	0.2194	1.1643	0.0112	0.0333	RPL7L1	ribosomal l protein_co	6	42879618	42889925	1	p21.1
ENSG00000136758	0.2182	1.1633	0.0039	0.0136	YME1L1	YME1-like : protein_co	10	27110112	27155266	-1	p12.1
ENSG00000129691	0.2181	1.1632	0.0023	0.0084	ASH2L	ash2 (absei protein_co	8	38105242	38144076	1	p11.23
ENSG00000163950	0.218	1.1631	0.0159	0.0446	SLBP	stem-loop protein_co	4	1692800	1712555	-1	p16.3
ENSG00000112739	0.2176	1.1628	0.0039	0.0134	PRPF4B	pre-mRNA protein_co	6	4021267	4064983	1	p25.2
ENSG00000122203	0.2165	1.1619	0.0031	0.011	KIAA1191	KIAA1191 [ protein_co	5	1.76E+08	1.76E+08	-1	q35.2
ENSG00000108094	0.2158	1.1613	0.0051	0.0168	CUL2	cullin 2 [So protein_co	10	35008551	35090642	-1	p11.21
ENSG00000168538	0.2157	1.1612	0.0025	0.0093	TRAPPC11	trafficking l protein_co	4	1.84E+08	1.84E+08	1	q35.1
ENSG00000140575	0.2155	1.1611	0.0006	0.0025	IQGAP1	IQ motif co protein_co	15	90388218	90502243	1	q26.1
ENSG00000140350	0.214	1.1599	0.0139	0.0399	ANP32A	acidic (leuc protein_co	15	68778535	68820897	-1	q23
ENSG00000132434	0.2138	1.1597	0.0139	0.04	LANCL2	LanC lantib protein_co	7	55365448	55433742	1	p11.2
ENSG00000100281	0.2112	1.1577	0.0166	0.0464	HMGXB4	HMG box d protein_co	22	35257452	35295807	1	q12.3
ENSG00000065135	0.2111	1.1575	0.006	0.0194	GNAI3	guanine nu protein_co	1	1.1E+08	1.1E+08	1	p13.3
ENSG00000148153	0.2111	1.1575	0.0063	0.0204	INIP	INTS3 and l protein_co	9	1.13E+08	1.13E+08	-1	q32
ENSG00000100284	0.2105	1.1571	0.0131	0.0379	TOM1	target of m protein_co	22	35299275	35347994	1	q12.3
ENSG00000110321	0.2091	1.1559	3.66E-06	2.79E-05	EIF4G2	eukaryotic protein_co	11	10797050	10809110	-1	p15.4
ENSG00000086544	0.209	1.1559	0.0034	0.0121	ITPKC	inositol-tris protein_co	19	40717103	40740860	1	q13.2
ENSG00000164144	0.2079	1.155	0.0108	0.0323	ARFIP1	ADP-ribosy protein_co	4	1.53E+08	1.53E+08	1	q31.3
ENSG00000119689	0.207	1.1543	0.0045	0.0154	DLST	dihydrolicp protein_co	14	74881891	74903745	1	q24.3
ENSG00000083097	0.2068	1.1541	0.0171	0.0475	DOPEY1	dopey fami protein_co	6	83067666	83171350	1	q14.1
ENSG00000101639	0.2033	1.1514	0.0139	0.04	CEP192	centrosom protein_co	18	12991362	13125052	1	p11.21
ENSG00000136527	0.2022	1.1505	0.0161	0.0452	TRA2B	transforme protein_co	3	1.86E+08	1.86E+08	-1	q27.2
ENSG00000060339	0.2022	1.1504	0.002	0.0077	CCAR1	cell divisior protein_co	10	68721012	68792377	1	q21.3
ENSG00000105993	0.2009	1.1494	0.0056	0.0185	DNAJB6	DnaJ (Hsp4 protein_co	7	1.57E+08	1.57E+08	1	q36.3
ENSG00000104695	0.2	1.1487	0.0024	0.0088	PPP2CB	protein ph protein_co	8	30774457	30814314	-1	p12



ENSG00000182541	0.1981	1.1472	0.0057	0.0188 LIMK2	LIM domain protein_co	22	31212239	31280080	1	q12.2
ENSG00000144224	0.1961	1.1456	0.0033	0.0118 UBXN4	UBX domain protein_co	2	1.36E+08	1.36E+08	1	q21.3
ENSG00000158604	0.1947	1.1445	0.003	0.0108 TMED4	transmembrane protein_co	7	44577894	44582287	-1	p13
ENSG00000057935	0.1944	1.1443	0.008	0.025 MTA3	metastasis protein_co	2	42494569	42756947	1	p21
ENSG00000129354	0.1914	1.1419	0.0036	0.0126 AP1M2	adaptor-receptor protein_co	19	10572671	10587315	-1	p13.2
ENSG00000092531	0.1908	1.1414	0.0157	0.0442 SNAP23	synaptosomal protein_co	15	42491233	42545356	1	q15.1
ENSG00000136950	0.187	1.1384	0.0104	0.0312 ARPC5L	actin related protein_co	9	1.25E+08	1.25E+08	1	q33.3
ENSG00000213585	0.1855	1.1372	0.0051	0.017 VDAC1	voltage-dependent protein_co	5	1.34E+08	1.34E+08	-1	q31.1
ENSG00000113812	0.1832	1.1354	0.0155	0.0437 ACTR8	ARP8 actin protein_co	3	53867066	53882202	-1	p21.1
ENSG00000136193	0.1822	1.1346	0.0046	0.0156 SCRNI	secernin 1 protein_co	7	29920103	29990289	-1	p14.3
ENSG00000089818	0.1807	1.1334	0.0114	0.0337 NECAP1	NECAP end protein_co	12	8082211	8097771	1	p13.31
ENSG00000102699	0.1777	1.1311	0.0151	0.0429 PARP4	poly (ADP-ribose) protein_co	13	24420926	24512810	-1	q12.12
ENSG00000157916	0.1682	1.1237	0.0149	0.0425 RER1	retention in protein_co	1	2391775	2405444	1	p36.32
ENSG00000006715	0.1643	1.1206	0.0076	0.0239 VPS41	vacuolar protein_co	7	38722963	38932394	-1	p14.1
ENSG00000090060	0.1612	1.1182	0.0095	0.0289 PAPOLA	poly(A) polymerase protein_co	14	96501433	96567111	1	q32.2
ENSG00000175387	0.1607	1.1178	0.0113	0.0335 SMAD2	SMAD family protein_co	18	47808957	47931146	-1	q21.1
ENSG00000028528	0.1517	1.1109	0.0062	0.02 SNX1	sorting nexin protein_co	15	64094123	64146090	1	q22.31
ENSG00000058673	-0.1689	-1.1242	0.0058	0.0189 ZC3H11A	zinc finger protein_co	1	2.04E+08	2.04E+08	1	q32.1
ENSG00000121644	-0.1714	-1.1262	0.0147	0.042 DESI2	desumoylation protein_co	1	2.45E+08	2.45E+08	1	q44
ENSG00000136450	-0.1719	-1.1265	0.0022	0.0081 SRSF1	serine/arginine protein_co	17	58003360	58007346	-1	q22
ENSG00000164506	-0.1807	-1.1334	0.0159	0.0446 STXBPS	syntaxin binding protein_co	6	1.47E+08	1.47E+08	1	q24.3
ENSG00000099622	-0.1814	-1.134	0.0032	0.0114 CIRBP	cold induced protein_co	19	1259384	1274880	1	p13.3
ENSG00000145907	-0.1817	-1.1342	0.005	0.0168 G3BP1	GTPase actin protein_co	5	1.52E+08	1.52E+08	1	q33.1
ENSG00000124535	-0.1825	-1.1349	0.0181	0.0497 WRNIP1	Werner helicase protein_co	6	2765414	2786952	1	p25.2
ENSG00000164329	-0.1827	-1.135	0.0051	0.017 PAPD4	PAP associated protein_co	5	79612120	79686648	1	q14.1
ENSG00000017797	-0.1868	-1.1383	0.003	0.0109 RALBP1	ralA binding protein_co	18	9475009	9538116	1	p11.22
ENSG00000003402	-0.1919	-1.1423	0.0024	0.0089 CFLAR	CASP8 and protein_co	2	2.01E+08	2.01E+08	1	q33.1
ENSG00000104361	-0.1942	-1.1441	0.0064	0.0206 NIPAL2	NIPA-like domain protein_co	8	98189833	98294393	-1	q22.2
ENSG00000100711	-0.1948	-1.1445	0.0158	0.0445 ZFYVE21	zinc finger, protein_co	14	1.04E+08	1.04E+08	1	q32.33
ENSG00000077254	-0.2013	-1.1497	0.0116	0.0343 USP33	ubiquitin specific protein_co	1	77695987	77759852	-1	p31.1
ENSG00000111786	-0.2065	-1.1539	0.0023	0.0085 SRSF9	serine/arginine protein_co	12	1.2E+08	1.2E+08	-1	q24.31
ENSG00000162368	-0.2069	-1.1542	0.0122	0.0358 CMPK1	cytidine monophosphate protein_co	1	47333797	47378839	1	p33
ENSG00000112062	-0.2083	-1.1553	0.0048	0.0162 MAPK14	mitogen-activated protein_co	6	36027677	36111236	1	p21.31
ENSG00000101266	-0.2083	-1.1553	0.0124	0.0363 CSNK2A1	casein kinase protein_co	20	473591	543821	-1	p13
ENSG00000113580	-0.2104	-1.157	0.0176	0.0485 NR3C1	nuclear receptor protein_co	5	1.43E+08	1.43E+08	-1	q31.3
ENSG00000166167	-0.2122	-1.1584	0.0135	0.039 BTRC	beta-transcription protein_co	10	1.01E+08	1.02E+08	1	q24.32
ENSG00000198663	-0.2146	-1.1604	0.0087	0.0268 C6orf89	chromosomal protein_co	6	36871870	36928964	1	p21.2

ENSG00000148358	-0.2178	-1.1629	0.0171	0.0473	GPR107	G protein-c protein_co	9	1.3E+08	1.3E+08	1 q34.11
ENSG00000084090	-0.2179	-1.163	0.0015	0.0061	STARD7	StAR-relate protein_co	2	96184859	96208825	-1 q11.2
ENSG00000132912	-0.2198	-1.1646	0.0012	0.0048	DCTN4	dynactin 4 protein_co	5	1.51E+08	1.51E+08	-1 q33.1
ENSG00000198231	-0.22	-1.1647	0.0086	0.0265	DDX42	DEAD (Asp- protein_co	17	63773603	63819317	1 q23.3
ENSG00000005812	-0.2199	-1.1647	0.0109	0.0326	FBXL3	F-box and I protein_co	13	76992598	77027195	-1 q22.3
ENSG00000111328	-0.2202	-1.1649	0.0073	0.0232	CDK2AP1	cyclin-depe protein_co	12	1.23E+08	1.23E+08	-1 q24.31
ENSG00000015171	-0.2203	-1.165	0.0107	0.0321	ZMYND11	zinc finger, protein_co	10	134465	254637	1 p15.3
ENSG00000184860	-0.2205	-1.1651	0.009	0.0278	SDR42E1	short chain protein_co	16	81988855	82011488	-1 q23.3
ENSG00000132849	-0.2204	-1.1651	0.0097	0.0295	INADL	InaD-like (I protein_co	1	61742477	62163920	1 p31.3
ENSG00000066933	-0.2219	-1.1663	0.017	0.0471	MYO9A	myosin IXA protein_co	15	71822289	72118577	-1 q23
ENSG00000166747	-0.2239	-1.1679	0.001	0.0043	AP1G1	adaptor-re protein_co	16	71729000	71809201	-1 q22.2
ENSG00000166801	-0.2279	-1.1711	0.0112	0.0332	FAM111A	family with protein_co	11	59142748	59155039	1 q12.1
ENSG00000161204	-0.2281	-1.1713	0.0133	0.0385	ABCF3	ATP-bindin protein_co	3	1.84E+08	1.84E+08	1 q27.1
ENSG00000163904	-0.2304	-1.1731	0.014	0.0402	SEN2	SUMO1/se protein_co	3	1.86E+08	1.86E+08	1 q27.2
ENSG00000062725	-0.2309	-1.1736	0.0043	0.0146	APPBP2	amyloid be protein_co	17	60443149	60526219	-1 q23.2
ENSG00000125347	-0.2319	-1.1744	0.0178	0.049	IRF1	interferon protein_co	5	1.32E+08	1.32E+08	-1 q31.1
ENSG00000253352	-0.232	-1.1745	0.0128	0.0373	TUG1	taurine up- antisense	22	30970677	30979395	1 q12.2
ENSG00000087077	-0.2321	-1.1745	0.0155	0.0438	TRIP6	thyroid hor protein_co	7	1.01E+08	1.01E+08	1 q22.1
ENSG00000255112	-0.2334	-1.1756	0.0064	0.0207	CHMP1B	charged m protein_co	18	11851396	11854449	1 p11.21
ENSG00000167986	-0.2334	-1.1756	0.0067	0.0215	DDB1	damage-sp protein_co	11	61299451	61342596	-1 q12.2
ENSG00000187866	-0.2349	-1.1768	0.0084	0.0259	FAM122A	family with protein_co	9	68780055	68784608	1 q21.11
ENSG00000204439	-0.2359	-1.1776	0.0143	0.0409	C6orf47	chromoson protein_co	6	31658298	31660772	-1 p21.33
ENSG00000116560	-0.2399	-1.1809	0.0003	0.0014	SFPQ	splicing fac protein_co	1	35176378	35193148	-1 p34.3
ENSG00000019995	-0.2414	-1.1822	0.0045	0.0152	ZRANB1	zinc finger, protein_co	10	1.25E+08	1.25E+08	1 q26.13
ENSG00000198399	-0.2417	-1.1824	0.0018	0.0069	ITSN2	intersectin protein_co	2	24202864	24360714	-1 p23.3
ENSG00000163946	-0.242	-1.1827	0.0004	0.0019	FAM208A	family with protein_co	3	56620133	56683237	-1 p14.3
ENSG00000073711	-0.2423	-1.1829	0.0105	0.0316	PPP2R3A	protein ph protein_co	3	1.36E+08	1.36E+08	1 q22.2
ENSG00000169410	-0.243	-1.1835	0.0177	0.0487	PTPN9	protein tyr protein_co	15	75463251	75579289	-1 q24.2
ENSG00000174373	-0.2437	-1.184	0.0178	0.049	RALGAPA1	Ral GTPase protein_co	14	35538352	35809304	-1 q13.2
ENSG00000102910	-0.2438	-1.1841	0.0114	0.0339	LONP2	lon peptid protein_co	16	48244296	48363122	1 q12.1
ENSG00000164244	-0.2441	-1.1844	0.013	0.0378	PRRC1	proline-ric protein_co	5	1.28E+08	1.28E+08	1 q23.2
ENSG00000080345	-0.2443	-1.1846	0.0088	0.0271	RIF1	replication protein_co	2	1.51E+08	1.52E+08	1 q23.3
ENSG00000166913	-0.2464	-1.1862	0.0018	0.0069	YWHAB	tyrosine 3- protein_co	20	44885676	44908532	1 q13.12
ENSG00000164024	-0.2465	-1.1863	0.0173	0.0478	METAP1	methionyl protein_co	4	98995620	99062813	1 q23
ENSG00000177885	-0.2474	-1.1871	0.0015	0.006	GRB2	growth fac protein_co	17	75318076	75405709	-1 q25.1
ENSG00000088179	-0.2486	-1.188	0.009	0.0278	PTPN4	protein tyr protein_co	2	1.2E+08	1.2E+08	1 q14.2
ENSG00000180901	-0.2486	-1.188	0.0125	0.0365	KCTD2	potassium protein_co	17	75032575	75065889	1 q25.1

ENSG00000215193	-0.2488	-1.1882	0.0023	0.0085 PEX26	peroxisom:protein_co	22	18077920	18131138	1 q11.21
ENSG00000170113	-0.2492	-1.1886	0.0137	0.0395 NIPA1	non imprin protein_co	15	22773063	22829791	1 q11.2
ENSG00000188895	-0.2503	-1.1894	0.0087	0.0268 MSL1	male-speci protein_co	17	40122298	40136916	1 q21.1
ENSG00000168724	-0.2511	-1.1901	0.0034	0.0121 DNAJC21	DnaJ (Hsp4 protein_co	5	34929593	34958964	1 p13.2
ENSG00000132549	-0.2511	-1.1901	0.0097	0.0294 VPS13B	vacuolar pr protein_co	8	99013266	99877580	1 q22.2
ENSG00000073921	-0.252	-1.1909	0.0033	0.0116 PICALM	phosphatic protein_co	11	85957684	86069882	-1 q14.2
ENSG00000050748	-0.2525	-1.1912	0.004	0.0138 MAPK9	mitogen-ac protein_co	5	1.8E+08	1.8E+08	-1 q35.3
ENSG00000168092	-0.2528	-1.1915	0.0005	0.0021 PAFAH1B2	platelet-ac protein_co	11	1.17E+08	1.17E+08	1 q23.3
ENSG00000063244	-0.2527	-1.1915	0.0012	0.0049 U2AF2	U2 small ni protein_co	19	55654146	55674715	1 q13.42
ENSG00000173726	-0.2529	-1.1916	0.0003	0.0014 TOMM20	translocase protein_co	1	2.35E+08	2.35E+08	-1 q42.3
ENSG00000106344	-0.2529	-1.1916	0.0103	0.0311 RBM28	RNA bindin protein_co	7	1.28E+08	1.28E+08	-1 q32.1
ENSG00000215301	-0.2531	-1.1917	0.0002	0.0008 DDX3X	DEAD (Asp- protein_co X		41333348	41364472	1 p11.4
ENSG00000083896	-0.2531	-1.1918	0.0032	0.0115 YTHDC1	YTH domai protein_co	4	68310387	68350089	-1 q13.2
ENSG00000118260	-0.2536	-1.1922	0.0007	0.003 CREB1	cAMP resp protein_co	2	2.08E+08	2.08E+08	1 q33.3
ENSG00000198887	-0.2539	-1.1924	0.0034	0.0119 SMC5	structural r protein_co	9	70258962	70354888	1 q21.12
ENSG00000164754	-0.2552	-1.1935	0.0001	0.0007 RAD21	RAD21 hon protein_co	8	1.17E+08	1.17E+08	-1 q24.11
ENSG00000025796	-0.2561	-1.1943	0.0069	0.0221 SEC63	SEC63 hom protein_co	6	1.08E+08	1.08E+08	-1 q21
ENSG00000077097	-0.2564	-1.1945	0.0004	0.002 TOP2B	topoisome protein_co	3	25597905	25664907	-1 p24.2
ENSG00000107897	-0.2565	-1.1946	0.0106	0.0317 ACBD5	acyl-CoA bi protein_co	10	27195214	27242130	-1 p12.1
ENSG00000138095	-0.2571	-1.1951	0.0026	0.0096 LRPPRC	leucine-ricl protein_co	2	43886508	43996005	-1 p21
ENSG00000083642	-0.2585	-1.1962	0.0166	0.0462 PDS5B	PDS5, regu protein_co	13	32586427	32778019	1 q13.1
ENSG00000182150	-0.2589	-1.1966	0.0144	0.0412 ERCC6L2	excision re protein_co	9	95875701	96014571	1 q22.32
ENSG00000136153	-0.259	-1.1967	0.0084	0.0261 LMO7	LIM domai protein_co	13	75620434	75859870	1 q22.2
ENSG00000145740	-0.2608	-1.1981	0.0002	0.0009 SLC30A5	solute carri protein_co	5	69093646	69131069	1 q13.1
ENSG00000157954	-0.2607	-1.1981	0.0073	0.023 WIPI2	WD repeat protein_co	7	5190188	5233826	1 p22.1
ENSG00000106244	-0.2608	-1.1982	0.0022	0.0082 PDAP1	PDGFA assi protein_co	7	99392048	99408829	-1 q22.1
ENSG00000120137	-0.2624	-1.1995	0.0053	0.0174 PANK3	pantothen: protein_co	5	1.69E+08	1.69E+08	-1 q34
ENSG00000109920	-0.2626	-1.1996	0.0032	0.0114 FNBP4	formin bin protein_co	11	47716517	47767443	-1 p11.2
ENSG00000112305	-0.2625	-1.1996	0.0096	0.0292 SMAP1	small ArfG protein_co	6	70667776	70862015	1 q13
ENSG00000204304	-0.2642	-1.201	0.0015	0.006 PBX2	pre-B-cell l protein_co	6	32184741	32190186	-1 p21.32
ENSG00000107854	-0.2643	-1.2011	0.0012	0.0051 TNKS2	tankyrase, protein_co	10	91798312	91865276	1 q23.32
ENSG00000169967	-0.2654	-1.2019	0.0015	0.0059 MAP3K2	mitogen-ac protein_co	2	1.27E+08	1.27E+08	-1 q14.3
ENSG00000203880	-0.2672	-1.2035	0.0167	0.0465 PCMTD2	protein-L-i protein_co	20	64255695	64287821	1 q13.33
ENSG00000126934	-0.2674	-1.2036	0.011	0.0328 MAP2K2	mitogen-ac protein_co	19	4090321	4124129	-1 p13.3
ENSG00000137177	-0.2677	-1.2039	0.0001	0.0007 KIF13A	kinesin far protein_co	6	17759183	17987623	-1 p22.3
ENSG00000108468	-0.2687	-1.2047	0.0051	0.0171 CBX1	chromobo protein_co	17	48070052	48101521	-1 q21.32
ENSG00000197702	-0.2688	-1.2048	0.0164	0.0459 PARVA	parvin, alpl protein_co	11	12377185	12530801	1 p15.3

ENSG00000067900	-0.2692	-1.2052	0.0101	0.0304	ROCK1	Rho-associ:protein_co	18	20946906	21111851	-1	q11.1
ENSG00000068400	-0.2693	-1.2052	0.0126	0.0367	GRIPAP1	GRIP1 asso protein_co X		48973720	49002264	-1	p11.23
ENSG00000124571	-0.2698	-1.2056	0.0058	0.0188	XPO5	exportin 5 protein_co	6	43522330	43576075	-1	p21.1
ENSG00000135932	-0.2709	-1.2066	0.0008	0.0035	CAB39	calcium bir protein_co	2	2.31E+08	2.31E+08	1	q37.1
ENSG00000111911	-0.2716	-1.2071	0.0064	0.0206	HINT3	histidine tr protein_co	6	1.26E+08	1.26E+08	1	q22.32
ENSG00000175826	-0.2722	-1.2077	0.0035	0.0122	CTDNBP1	CTD nuclea protein_co	17	7243591	7252491	-1	p13.1
ENSG00000263465	-0.273	-1.2084	0.0018	0.0071	SRSF8	serine/argi protein_co	11	95067197	95071224	1	q21
ENSG00000071537	-0.2735	-1.2087	0.0158	0.0445	SEL1L	sel-1 suppr protein_co	14	81471549	81533861	-1	q31.1
ENSG00000065243	-0.2736	-1.2088	0.005	0.0166	PKN2	protein kin protein_co	1	88684222	88836255	1	p22.2
ENSG00000100239	-0.2738	-1.209	0.0032	0.0114	PPP6R2	protein pho protein_co	22	50343304	50445090	1	q13.33
ENSG00000174606	-0.2746	-1.2096	0.009	0.0276	ANGEL2	angel homi protein_co	1	2.13E+08	2.13E+08	-1	q32.3
ENSG00000085449	-0.2747	-1.2097	1.08E-05	7.46E-05	WDFY1	WD repeat protein_co	2	2.24E+08	2.24E+08	-1	q36.1
ENSG00000055208	-0.2748	-1.2098	0.0037	0.013	TAB2	TGF-beta a protein_co	6	1.49E+08	1.49E+08	1	q25.1
ENSG00000204120	-0.2751	-1.21	0.0116	0.0342	GIGYF2	GRB10 inte protein_co	2	2.33E+08	2.33E+08	1	q37.1
ENSG00000153147	-0.2759	-1.2108	0.0015	0.0059	SMARCA5	SWI/SNF re protein_co	4	1.44E+08	1.44E+08	1	q31.21
ENSG00000135837	-0.2759	-1.2108	0.0037	0.013	CEP350	centrosom protein_co	1	1.8E+08	1.8E+08	1	q25.2
ENSG00000113384	-0.2766	-1.2113	0.0001	0.0007	GOLPH3	golgi phosf protein_co	5	32124704	32174350	-1	p13.3
ENSG00000100614	-0.2779	-1.2125	0.0013	0.0052	PPM1A	protein pho protein_co	14	60245752	60299087	1	q23.1
ENSG00000107771	-0.2782	-1.2127	0.0024	0.0088	CCSER2	coiled-coil : protein_co	10	84328586	84518521	1	q23.1
ENSG00000115884	-0.2783	-1.2128	0.0084	0.0262	SDC1	syndecan 1 protein_co	2	20200797	20225433	-1	p24.1
ENSG00000100201	-0.2785	-1.2129	0.0052	0.0173	DDX17	DEAD (Asp- protein_co	22	38483440	38507660	-1	q13.1
ENSG00000171862	-0.2797	-1.214	0.0035	0.0124	PTEN	phosphata: protein_co	10	87863113	87971930	1	q23.31
ENSG00000155008	-0.2802	-1.2143	0.0035	0.0122	APOOL	apolipopro protein_co X		85003826	85093316	1	q21.1
ENSG00000142961	-0.2804	-1.2146	0.0096	0.0291	MOB3C	MOB kinas protein_co	1	46607715	46616891	-1	p33
ENSG00000081923	-0.2807	-1.2148	0.0085	0.0262	ATP8B1	ATPase, an protein_co	18	57646426	57803101	-1	q21.31
ENSG00000184208	-0.2808	-1.2149	0.0122	0.0358	C22orf46	chromoson protein_co	22	41688939	41698136	1	q13.2
ENSG00000101596	-0.281	-1.2151	0.0031	0.0112	SMCHD1	structural r protein_co	18	2655738	2805017	1	p11.32
ENSG00000213047	-0.281	-1.2151	0.01	0.0301	DENND1B	DENN/MAI protein_co	1	1.98E+08	1.98E+08	-1	q31.3
ENSG00000166439	-0.2817	-1.2156	0.0075	0.0235	RNF169	ring finger protein_co	11	74748868	74842413	1	q13.4
ENSG00000119541	-0.2827	-1.2165	1.73E-07	1.79E-06	VPS4B	vacuolar pr protein_co	18	63389190	63422483	-1	q21.33
ENSG00000189308	-0.2828	-1.2166	0.017	0.0471	LIN54	lin-54 DRE/ protein_co	4	82909973	83012926	-1	q21.22
ENSG00000185344	-0.283	-1.2167	0.0034	0.012	ATP6VOA2	ATPase, H+ protein_co	12	1.24E+08	1.24E+08	1	q24.31
ENSG00000158435	-0.283	-1.2168	0.0164	0.0458	CNOT11	CCR4-NOT protein_co	2	1.01E+08	1.01E+08	1	q11.2
ENSG00000112511	-0.2841	-1.2176	0.0129	0.0374	PHF1	PHD finger protein_co	6	33410399	33416453	1	p21.32
ENSG00000121864	-0.2846	-1.2181	0.0024	0.0089	ZNF639	zinc finger protein_co	3	1.79E+08	1.79E+08	1	q26.33
ENSG00000179295	-0.2846	-1.2181	0.005	0.0167	PTPN11	protein tyr protein_co	12	1.12E+08	1.13E+08	1	q24.13
ENSG00000143924	-0.2846	-1.2181	0.0119	0.0351	EML4	echinoderr protein_co	2	42169350	42332548	1	p21

ENSG00000273749	-0.285	-1.2184	0.0035	0.0123	CYFIP1	cytoplasmic protein_co	15	22867052	22981063	-1	q11.2
ENSG00000122257	-0.2855	-1.2188	0.0024	0.0088	RBBP6	retinoblast protein_co	16	24537693	24572863	1	p12.1
ENSG00000123200	-0.2855	-1.2189	0.0014	0.0058	ZC3H13	zinc finger protein_co	13	45954465	46052759	-1	q14.13
ENSG00000143761	-0.2858	-1.2191	0.0002	0.0012	ARF1	ADP-ribosyl protein_co	1	2.28E+08	2.28E+08	1	q42.13
ENSG00000170144	-0.2862	-1.2195	0.001	0.004	HNRNPA3	heterogeneous protein_co	2	1.77E+08	1.77E+08	1	q31.2
ENSG00000146247	-0.2866	-1.2198	0.0025	0.0092	PHIP	pleckstrin homology protein_co	6	78935867	79078236	-1	q14.1
ENSG00000136156	-0.2871	-1.2202	0.0006	0.0028	ITM2B	integral membrane protein_co	13	48233158	48270357	1	q14.2
ENSG00000089916	-0.2882	-1.2211	0.0029	0.0104	GPATCH2L	G patch domain protein_co	14	76151916	76254342	1	q24.3
ENSG00000129474	-0.2885	-1.2214	0.0088	0.0271	AJUBA	ajuba LIM domain protein_co	14	22971174	22982642	-1	q11.2
ENSG00000166135	-0.2889	-1.2217	0.0002	0.0009	HIF1AN	hypoxia inducible protein_co	10	1.01E+08	1.01E+08	1	q24.31
ENSG00000006712	-0.2893	-1.222	0.0096	0.0291	PAF1	Paf1, RNA polymerase protein_co	19	39385852	39391195	-1	q13.2
ENSG00000095139	-0.2902	-1.2228	0.0067	0.0215	ARCN1	archaic 1 like protein_co	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000163517	-0.2903	-1.2229	0.0073	0.023	HDAC11	histone deacetylase protein_co	3	13479724	13506424	1	p25.1
ENSG00000104969	-0.2906	-1.2232	0.0058	0.0191	SGTA	small glutathione protein_co	19	2754714	2783371	-1	p13.3
ENSG00000124608	-0.2908	-1.2233	0.0157	0.0441	AARS2	alanyl-tRNA synthetase protein_co	6	44299654	44313326	-1	p21.1
ENSG00000105968	-0.2911	-1.2236	0.0016	0.0064	H2AFV	H2A histone protein_co	7	44826791	44848083	-1	p13
ENSG00000136279	-0.2915	-1.2239	0.008	0.0249	DBNL	drebrin-like protein_co	7	44044640	44069456	1	p13
ENSG00000089597	-0.2917	-1.2241	0.0069	0.022	GANAB	glucosylase protein_co	11	62624826	62646726	-1	q12.3
ENSG00000139697	-0.2918	-1.2242	4.39E-05	0.0003	SBNO1	strawberry protein_co	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000197530	-0.2918	-1.2242	0.0047	0.0158	MIB2	mindbomb protein_co	1	1615415	1630610	1	p36.33
ENSG00000065491	-0.292	-1.2243	0.0085	0.0264	TBC1D22B	TBC1 domain protein_co	6	37257772	37332970	1	p21.2
ENSG00000105186	-0.2921	-1.2245	0.0009	0.0038	ANKRD27	ankyrin repeat protein_co	19	32597007	32676597	-1	q13.11
ENSG00000160551	-0.2922	-1.2245	0.0026	0.0096	TAOK1	TAO kinase protein_co	17	29390464	29551904	1	q11.2
ENSG00000168710	-0.2924	-1.2246	0.0006	0.0025	AHCYL1	adenosylhomocysteine protein_co	1	1.1E+08	1.1E+08	1	p13.3
ENSG00000143669	-0.2928	-1.225	0.0117	0.0345	LYST	lysosomal trafficking protein_co	1	2.36E+08	2.36E+08	-1	q42.3
ENSG00000100325	-0.293	-1.2252	0.0011	0.0046	ASCC2	activating signal protein_co	22	29788608	29838304	-1	q12.2
ENSG00000069275	-0.2931	-1.2253	0.0001	0.0006	NUCKS1	nuclear casein protein_co	1	2.06E+08	2.06E+08	-1	q32.1
ENSG0000012174	-0.2935	-1.2256	0.013	0.0376	MBTPS2	membrane protein_co X		21839636	21885424	1	p22.12
ENSG00000198585	-0.2936	-1.2257	0.003	0.0109	NUDT16	nudix (nucleoside diphosphate) protein_co	3	1.31E+08	1.31E+08	1	q22.1
ENSG00000075539	-0.2938	-1.2259	0.0013	0.0053	FRYL	FRY-like [Saccharomyces cerevisiae] protein_co	4	48497361	48780322	-1	p11
ENSG00000101752	-0.294	-1.226	0.0032	0.0114	MIB1	mindbomb protein_co	18	21704957	21870957	1	q11.2
ENSG00000166233	-0.2943	-1.2263	0.0007	0.003	ARIH1	ariadne repeat protein_co	15	72474326	72602985	1	q24.1
ENSG00000157450	-0.2947	-1.2266	0.0002	0.001	RNF111	ring finger protein_co	15	58865175	59097419	1	q22.1
ENSG00000170836	-0.2956	-1.2274	0.0123	0.036	PPM1D	protein phosphatase protein_co	17	60600183	60666280	1	q23.2
ENSG00000011454	-0.2969	-1.2285	0.0153	0.0434	RABGAP1	RAB GTPase protein_co	9	1.23E+08	1.23E+08	1	q33.2
ENSG00000102221	-0.2973	-1.2288	0.0152	0.043	JADE3	jade family protein_co X		46912276	47061242	1	p11.3
ENSG00000153207	-0.2979	-1.2294	0.0008	0.0033	AHCTF1	AT hook coiled-coil protein_co	1	2.47E+08	2.47E+08	-1	q44



ENSG00000149930	-0.298	-1.2294	0.0033	0.0116	TAOK2	TAO kinase protein_co	16	29973641	29992261	1	p11.2
ENSG00000139218	-0.2984	-1.2298	0.0016	0.0061	SCAF11	SR-related protein_co	12	45919131	45992120	-1	q12
ENSG00000162885	-0.2984	-1.2298	0.0107	0.0321	B3GALNT2	beta-1,3-N- protein_co	1	2.35E+08	2.36E+08	-1	q42.3
ENSG00000054267	-0.2988	-1.2301	0.0005	0.0022	ARID4B	AT rich inte protein_co	1	2.35E+08	2.35E+08	-1	q42.3
ENSG00000157353	-0.299	-1.2303	0.0153	0.0432	FUK	fucokinase protein_co	16	70454421	70480274	1	q22.1
ENSG00000106263	-0.2991	-1.2304	0.0004	0.0018	EIF3B	eukaryotic protein_co	7	2354086	2380745	1	p22.3
ENSG00000115942	-0.3009	-1.2319	0.0045	0.0154	ORC2	origin reco; protein_co	2	2.01E+08	2.01E+08	-1	q33.1
ENSG00000107938	-0.3013	-1.2323	0.0093	0.0284	EDRF1	erythroid d protein_co	10	1.26E+08	1.26E+08	1	q26.2
ENSG00000181904	-0.3015	-1.2325	0.0135	0.0389	C5orf24	chromoson protein_co	5	1.35E+08	1.35E+08	1	q31.1
ENSG00000247077	-0.3026	-1.2334	0.0028	0.01	PGAM5	phosphogly protein_co	12	1.33E+08	1.33E+08	1	q24.33
ENSG00000244509	-0.3028	-1.2335	0.0043	0.0148	APOBEC3C	apolipopro protein_co	22	39014083	39020352	1	q13.1
ENSG00000132356	-0.3029	-1.2336	0.0002	0.0011	PRKAA1	protein kin protein_co	5	40759379	40798374	-1	p13.1
ENSG00000225484	-0.3036	-1.2342	0.0151	0.0428	NUTM2B-AS1	NUTM2B a antisense	10	79663088	79826594	-1	q22.3
ENSG00000115365	-0.3043	-1.2348	0.0013	0.0051	LANCL1	LanC lantib protein_co	2	2.1E+08	2.1E+08	-1	q34
ENSG00000172939	-0.3042	-1.2348	0.003	0.0109	OXSR1	oxidative si protein_co	3	38165089	38255488	1	p22.2
ENSG00000168234	-0.3045	-1.235	0.0095	0.0289	TTC39C	tetratricop protein_co	18	23992773	24135610	1	q11.2
ENSG00000074603	-0.3048	-1.2352	4.19E-05	0.0003	DPP8	dipeptidyl- protein_co	15	65442463	65517704	-1	q22.31
ENSG00000168172	-0.3049	-1.2353	0.0048	0.0162	HOOK3	hook micrc protein_co	8	42896932	43030539	1	p11.21
ENSG00000134698	-0.3062	-1.2365	0.0006	0.0026	AGO4	argonaute protein_co	1	35808172	35857890	1	p34.3
ENSG00000143319	-0.3067	-1.2369	0.0027	0.0099	ISG20L2	interferon ; protein_co	1	1.57E+08	1.57E+08	-1	q23.1
ENSG00000196372	-0.3075	-1.2376	0.0158	0.0445	ASB13	ankyrin re; protein_co	10	5638867	5666595	-1	p15.1
ENSG00000111412	-0.3077	-1.2377	0.0054	0.0177	C12orf49	chromoson protein_co	12	1.17E+08	1.17E+08	-1	q24.22
ENSG00000164096	-0.3076	-1.2377	0.018	0.0495	C4orf3	chromoson protein_co	4	1.19E+08	1.19E+08	-1	q26
ENSG00000158769	-0.3078	-1.2378	0.0033	0.0116	F11R	F11 recept; protein_co	1	1.61E+08	1.61E+08	-1	q23.3
ENSG00000153561	-0.3084	-1.2383	0.0073	0.0232	RMND5A	required fo protein_co	2	86720173	86778041	1	p11.2
ENSG00000172661	-0.3092	-1.239	0.0131	0.038	FAM21C	family with protein_co	10	45727200	45792964	1	q11.22
ENSG00000100243	-0.3092	-1.2391	0.0118	0.0347	CYB5R3	cytochrom; protein_co	22	42617840	42649568	-1	q13.2
ENSG00000180182	-0.3095	-1.2393	0.0001	0.0006	MED14	mediator c protein_co X		40648306	40735858	-1	p11.4
ENSG00000104765	-0.3097	-1.2394	5.40E-05	0.0003	BNIP3L	BCL2/aden protein_co	8	26382898	26505636	1	p21.2
ENSG00000196705	-0.3102	-1.2398	0.0113	0.0335	ZNF431	zinc finger protein_co	19	21142024	21196053	1	p12
ENSG00000107521	-0.3101	-1.2398	0.0123	0.0361	HPS1	Hermansky protein_co	10	98416198	98446947	-1	q24.2
ENSG00000198786	-0.3106	-1.2403	0.0089	0.0273	MT-ND5	mitochond protein_co MT		12337	14148	1	
ENSG00000117620	-0.311	-1.2406	0.012	0.0351	SLC35A3	solute carri protein_co	1	99969789	1E+08	1	p21.2
ENSG0000010165	-0.3113	-1.2409	0.0095	0.0288	METTL13	methyltran protein_co	1	1.72E+08	1.72E+08	1	q24.3
ENSG00000107679	-0.3115	-1.241	0.0032	0.0113	PLEKHA1	pleckstrin t protein_co	10	1.22E+08	1.22E+08	1	q26.13
ENSG00000112658	-0.3116	-1.241	0.0123	0.036	SRF	serum resp protein_co	6	43171299	43181507	1	p21.1
ENSG00000172992	-0.3115	-1.241	0.0173	0.0479	DCAKD	dephosphc protein_co	17	45023340	45061109	-1	q21.31

ENSG00000164099	-0.3127	-1.242	0.0013	0.0053 PRSS12	protease, s protein_co	4	1.18E+08	1.18E+08	-1 q26
ENSG00000272886	-0.3131	-1.2424	0.0024	0.009 DCP1A	decapping protein_co	3	53283428	53347610	-1 p21.1
ENSG00000197971	-0.3137	-1.2429	4.97E-08	5.84E-07 MBP	myelin basi protein_co	18	76978827	77133683	-1 q23
ENSG00000101193	-0.3142	-1.2433	0.0006	0.0025 GID8	GID compl protein_co	20	62938119	62948475	1 q13.33
ENSG00000197912	-0.3159	-1.2448	0.0012	0.005 SPG7	spastic par. protein_co	16	89490917	89557768	1 q24.3
ENSG00000171853	-0.3161	-1.245	0.0099	0.0299 TRAPPC12	trafficking   protein_co	2	3379675	3485094	1 p25.3
ENSG00000052723	-0.3176	-1.2463	0.0024	0.0091 SIKE1	suppressor protein_co	1	1.15E+08	1.15E+08	-1 p13.2
ENSG00000196628	-0.3178	-1.2464	0.0157	0.0441 TCF4	transcripti protein_co	18	55222331	55664787	-1 q21.2
ENSG00000186001	-0.318	-1.2466	0.0076	0.0238 LRCH3	leucine-ric protein_co	3	1.98E+08	1.98E+08	1 q29
ENSG00000160953	-0.3181	-1.2467	0.0049	0.0164 MUM1	melanoma protein_co	19	1354711	1378431	1 p13.3
ENSG00000164402	-0.3184	-1.247	0.0156	0.0441	08-Sep septin 8 [S protein_co	5	1.33E+08	1.33E+08	-1 q31.1
ENSG00000185963	-0.3186	-1.2471	0.0064	0.0205 BICD2	bicaudal D protein_co	9	92711363	92764812	-1 q22.31
ENSG00000119514	-0.3188	-1.2473	0.0139	0.04 GALNT12	polypeptid protein_co	9	98807699	98850081	1 q22.33
ENSG00000183808	-0.3189	-1.2474	0.0018	0.0071 RBM12B	RNA bindin protein_co	8	93729356	93741017	-1 q22.1
ENSG00000111199	-0.3189	-1.2474	0.0137	0.0395 TRPV4	transient r protein_co	12	1.1E+08	1.1E+08	-1 q24.11
ENSG00000143179	-0.3191	-1.2476	0.0059	0.0194 UCK2	uridine-cyt protein_co	1	1.66E+08	1.66E+08	1 q24.1
ENSG00000112414	-0.3196	-1.248	0.0129	0.0375 GPR126	G protein-c protein_co	6	1.42E+08	1.42E+08	1 q24.2
ENSG00000245680	-0.3199	-1.2483	0.0056	0.0184 ZNF585B	zinc finger protein_co	19	37181579	37218153	-1 q13.12
ENSG00000114315	-0.3201	-1.2484	0.0022	0.0084 HES1	hes family   protein_co	3	1.94E+08	1.94E+08	1 q29
ENSG00000058600	-0.3203	-1.2486	0.0012	0.005 POLR3E	polymerase protein_co	16	22297375	22335103	1 p12.2
ENSG00000090372	-0.3215	-1.2497	1.52E-05	0.0001 STRN4	striatin, cal protein_co	19	46719507	46746994	-1 q13.32
ENSG00000081760	-0.3216	-1.2497	0.001	0.0041 AACS	acetoacety protein_co	12	1.25E+08	1.25E+08	1 q24.31
ENSG00000182606	-0.3218	-1.2499	0.0016	0.0063 TRAK1	trafficking   protein_co	3	42013802	42225889	1 p22.1
ENSG00000144468	-0.3218	-1.2499	0.0058	0.0189 RHBDD1	rhomboid c protein_co	2	2.27E+08	2.27E+08	1 q36.3
ENSG00000116830	-0.3226	-1.2505	0.0034	0.012 TTF2	transcripti protein_co	1	1.17E+08	1.17E+08	1 p13.1
ENSG00000135525	-0.323	-1.2509	0.0016	0.0063 MAP7	microtubul protein_co	6	1.36E+08	1.37E+08	-1 q23.3
ENSG00000147649	-0.3233	-1.2512	0.0023	0.0086 MTDH	metadheri protein_co	8	97644179	97728770	1 q22.1
ENSG00000163412	-0.3233	-1.2512	0.0083	0.0258 EIF4E3	eukaryotic protein_co	3	71675416	71754773	-1 p13
ENSG00000173327	-0.3237	-1.2515	0.0004	0.0019 MAP3K11	mitogen-ac protein_co	11	65597755	65615382	-1 q13.1
ENSG00000104884	-0.324	-1.2518	0.007	0.0222 ERCC2	excision re protein_co	19	45349837	45370918	-1 q13.32
ENSG00000108344	-0.3244	-1.2521	0.0021	0.0078 PSMD3	proteasom protein_co	17	39980797	39997960	1 q21.1
ENSG00000132670	-0.3251	-1.2527	0.0002	0.0009 PTPRA	protein tyr protein_co	20	2864184	3039076	1 p13
ENSG00000157823	-0.3258	-1.2534	0.0058	0.0191 AP3S2	adaptor-re protein_co	15	89830599	89894638	-1 q26.1
ENSG00000119682	-0.326	-1.2535	0.0027	0.0098 AREL1	apoptosis r protein_co	14	74653437	74713115	-1 q24.3
ENSG00000112996	-0.3264	-1.2538	5.68E-05	0.0003 MRPS30	mitochond protein_co	5	44808925	44820428	1 p12
ENSG00000101161	-0.3274	-1.2547	0.0163	0.0455 PRPF6	pre-mRNA protein_co	20	63981135	64033100	1 q13.33
ENSG00000087460	-0.3286	-1.2558	0.0004	0.0018 GNAS	GNAS com   protein_co	20	58839718	58911192	1 q13.32

ENSG00000168256	-0.3292	-1.2563	0.0115	0.0339	NKIRAS2	NFKB inhib protein_co	17	42011382	42025644	1	q21.2
ENSG00000112977	-0.3297	-1.2567	0.0095	0.029	DAP	death-asso protein_co	5	10679230	10761272	-1	p15.2
ENSG00000177302	-0.3297	-1.2568	0.0165	0.0461	TOP3A	topoisome protein_co	17	18271428	18315007	-1	p11.2
ENSG00000006756	-0.3302	-1.2571	0.0179	0.0492	ARSD	arylsulfata:protein_co X		2903970	2929351	-1	p22.33
ENSG00000143379	-0.3303	-1.2573	0.0019	0.0073	SETDB1	SET domair protein_co	1	1.51E+08	1.51E+08	1	q21.3
ENSG00000171161	-0.3305	-1.2575	0.0018	0.007	ZNF672	zinc finger protein_co	1	2.49E+08	2.49E+08	1	q44
ENSG00000170275	-0.3309	-1.2578	0.0046	0.0155	CRTAP	cartilage as protein_co	3	33113979	33147773	1	p22.3
ENSG00000148660	-0.3311	-1.258	0.0011	0.0046	CAMK2G	calcium/ca protein_co	10	73812501	73874591	-1	q22.2
ENSG00000109756	-0.3315	-1.2583	0.0046	0.0155	RAPGEF2	Rap guanin protein_co	4	1.59E+08	1.59E+08	1	q32.1
ENSG00000115806	-0.3318	-1.2586	0.0024	0.0089	GORASP2	golgi reass protein_co	2	1.71E+08	1.71E+08	1	q31.1
ENSG00000062650	-0.332	-1.2587	7.27E-06	5.23E-05	WAPAL	wings apar protein_co	10	86435256	86521815	-1	q23.2
ENSG00000122557	-0.3333	-1.2599	0.0031	0.0112	HERPUD2	HERPUD fa protein_co	7	35632659	35695571	-1	p14.2
ENSG00000133789	-0.3334	-1.26	0.0001	0.0007	SWAP70	SWAP swit protein_co	11	9664077	9752991	1	p15.4
ENSG00000196642	-0.3335	-1.2601	4.14E-05	0.0002	RABL6	RAB, meml protein_co	9	1.37E+08	1.37E+08	1	q34.3
ENSG00000109133	-0.3336	-1.2602	0.0007	0.003	TMEM33	transmeml protein_co	4	41935120	41960572	1	p13
ENSG00000121104	-0.3338	-1.2603	0.0131	0.0379	FAM117A	family with protein_co	17	49710332	49789180	-1	q21.33
ENSG00000122390	-0.3341	-1.2606	0.0181	0.0497	NAA60	N(alpha)-a protein_co	16	3443611	3486963	1	p13.3
ENSG00000166435	-0.3346	-1.261	0.004	0.0137	XRRA1	X-ray radia protein_co	11	74807739	74949200	-1	q13.4
ENSG00000144560	-0.3347	-1.2612	0.0033	0.0117	VGLL4	vestigial-lik protein_co	3	11556070	11771350	-1	p25.2
ENSG00000162736	-0.3349	-1.2613	0.0069	0.0219	NCSTN	nicastrin [S protein_co	1	1.6E+08	1.6E+08	1	q23.2
ENSG00000158985	-0.3352	-1.2615	0.0001	0.0006	CDC42SE2	CDC42 sma protein_co	5	1.31E+08	1.31E+08	1	q31.1
ENSG00000166734	-0.3351	-1.2615	0.0002	0.0012	CASC4	cancer sus protein_co	15	44288729	44415758	1	q15.3
ENSG00000137275	-0.3357	-1.262	0.0019	0.0073	RIPK1	receptor (T protein_co	6	3063991	3115187	1	p25.2
ENSG00000141034	-0.3357	-1.262	0.0106	0.0317	GID4	GID compl protein_co	17	18039292	18068404	1	p11.2
ENSG00000130985	-0.3365	-1.2627	0.0015	0.006	UBA1	ubiquitin-li protein_co X		47190861	47215128	1	p11.3
ENSG00000143756	-0.3366	-1.2628	0.0036	0.0125	FBXO28	F-box prot protein_co	1	2.24E+08	2.24E+08	1	q42.11
ENSG00000075303	-0.3366	-1.2628	0.017	0.0472	SLC25A40	solute carri protein_co	7	87833568	87876357	-1	q21.12
ENSG00000140400	-0.3373	-1.2634	0.0096	0.0291	MAN2C1	mannosida protein_co	15	75355207	75368630	-1	q24.2
ENSG00000131626	-0.3375	-1.2635	0.0053	0.0175	PPFIA1	protein tyr protein_co	11	70270700	70384403	1	q13.3
ENSG00000073792	-0.3374	-1.2635	0.0093	0.0284	IGF2BP2	insulin-like protein_co	3	1.86E+08	1.86E+08	-1	q27.2
ENSG00000126778	-0.3376	-1.2636	0.0125	0.0366	SIX1	SIX homeol protein_co	14	60643415	60658259	-1	q23.1
ENSG00000157764	-0.338	-1.264	0.0018	0.007	BRAF	B-Raf prot protein_co	7	1.41E+08	1.41E+08	-1	q34
ENSG00000113282	-0.3382	-1.2641	0.0033	0.0118	CLINT1	clathrin int protein_co	5	1.58E+08	1.58E+08	-1	q33.3
ENSG00000005810	-0.3383	-1.2642	0.0002	0.0012	MYCBP2	MYC bindir protein_co	13	77044655	77327050	-1	q22.3
ENSG00000197976	-0.3382	-1.2642	0.0113	0.0334	AKAP17A	A kinase (P protein_co X		1591593	1602514	1	p22.33
ENSG00000130402	-0.3387	-1.2646	0.0015	0.0059	ACTN4	actinin, alp protein_co	19	38647649	38731583	1	q13.2
ENSG00000198408	-0.3389	-1.2648	3.54E-07	3.41E-06	MGEA5	meningiom protein_co	10	1.02E+08	1.02E+08	-1	q24.32

ENSG00000100485	-0.3391	-1.265	0.0004	0.002	SOS2	son of seven protein_co	14	50117120	50231558	-1	q21.3
ENSG00000142186	-0.3393	-1.2651	0.0005	0.0021	SCYL1	SCY1-like 1 protein_co	11	65525077	65538704	1	q13.1
ENSG00000114573	-0.3398	-1.2656	1.14E-05	7.84E-05	ATP6V1A	ATPase, H+ protein_co	3	1.14E+08	1.14E+08	1	q13.31
ENSG00000106351	-0.34	-1.2658	0.0026	0.0095	AGFG2	ArfGAP wit protein_co	7	1.01E+08	1.01E+08	1	q22.1
ENSG00000005486	-0.3404	-1.2661	0.0086	0.0265	RHBDD2	rhomboid (protein_co	7	75842602	75888926	1	q11.23
ENSG00000110367	-0.3406	-1.2663	0.0002	0.0011	DDX6	DEAD (Asp. protein_co	11	1.19E+08	1.19E+08	-1	q23.3
ENSG00000152818	-0.3407	-1.2664	0.0038	0.0133	UTRN	utrophin [S protein_co	6	1.44E+08	1.45E+08	1	q24.2
ENSG00000122140	-0.3412	-1.2668	0.0081	0.0251	MRPS2	mitochond protein_co	9	1.35E+08	1.36E+08	1	q34.3
ENSG00000263753	-0.3419	-1.2674	0.0012	0.0048	LINC00667	long interg lincRNA	18	5237826	5246508	1	p11.31
ENSG00000006831	-0.3428	-1.2682	0.0019	0.0071	ADIPOR2	adiponectin protein_co	12	1688574	1788678	1	p13.33
ENSG00000177485	-0.3429	-1.2683	3.15E-05	0.0002	ZBTB33	zinc finger protein_co X		1.2E+08	1.2E+08	1	q24
ENSG00000171302	-0.343	-1.2684	0.0062	0.0201	CANT1	calcium act protein_co	17	78991717	79009867	-1	q25.3
ENSG00000120063	-0.3433	-1.2686	0.0018	0.0069	GNA13	guanine nu protein_co	17	65010715	65056839	-1	q24.1
ENSG00000177119	-0.3436	-1.2689	0.0112	0.0331	ANO6	anoctamin protein_co	12	45215987	45440404	1	q12
ENSG00000136238	-0.3436	-1.269	3.09E-05	0.0002	RAC1	ras-related protein_co	7	6374523	6403977	1	p22.1
ENSG00000128989	-0.3437	-1.269	0.0004	0.0018	ARPP19	cAMP-regu protein_co	15	52547045	52569883	-1	q21.2
ENSG00000081019	-0.3437	-1.269	0.0008	0.0036	RSBN1	round sper protein_co	1	1.14E+08	1.14E+08	-1	p13.2
ENSG00000067606	-0.3436	-1.269	0.0095	0.0289	PRKCZ	protein kin protein_co	1	2050470	2185395	1	p36.33
ENSG00000153936	-0.3439	-1.2691	0.0144	0.0411	HS2ST1	heparan su protein_co	1	86914648	87109998	1	p22.3
ENSG00000163435	-0.3438	-1.2691	0.0149	0.0424	ELF3	E74-like fac protein_co	1	2.02E+08	2.02E+08	1	q32.1
ENSG00000149925	-0.3441	-1.2694	0.0044	0.015	ALDOA	aldolase A, protein_co	16	30053090	30070457	1	p11.2
ENSG00000197712	-0.3448	-1.27	0.0019	0.0073	FAM114A1	family with protein_co	4	38867677	38945739	1	p14
ENSG00000122299	-0.345	-1.2701	0.0028	0.0101	ZC3H7A	zinc finger protein_co	16	11750586	11797267	-1	p13.13
ENSG00000189091	-0.3454	-1.2705	0.0091	0.028	SF3B3	splicing fac protein_co	16	70523788	70577670	1	q22.1
ENSG00000143995	-0.3454	-1.2705	0.0141	0.0404	MEIS1	Meis home protein_co	2	66433452	66573869	1	p14
ENSG00000125651	-0.3455	-1.2706	0.0041	0.0139	GTF2F1	general tra protein_co	19	6379569	6393981	-1	p13.3
ENSG00000072415	-0.346	-1.271	0.001	0.0042	MPP5	membrane protein_co	14	67241109	67335819	1	q23.3
ENSG00000154144	-0.3467	-1.2717	0.0003	0.0015	TBRG1	transformii protein_co	11	1.25E+08	1.25E+08	1	q24.2
ENSG00000147140	-0.3471	-1.272	0.0005	0.0021	NONO	non-POU d protein_co X		71283192	71301168	1	q13.1
ENSG00000109654	-0.3473	-1.2721	3.69E-05	0.0002	TRIM2	tripartite r protein_co	4	1.53E+08	1.53E+08	1	q31.3
ENSG00000160993	-0.3472	-1.2721	0.0154	0.0435	ALKBH4	alkB, alkyla protein_co	7	1.02E+08	1.02E+08	-1	q22.1
ENSG00000155090	-0.3477	-1.2726	0.0075	0.0235	KLF10	Kruppel-lik protein_co	8	1.03E+08	1.03E+08	-1	q22.3
ENSG00000104960	-0.3482	-1.273	0.0007	0.0032	PTOV1	prostate tu protein_co	19	49850735	49860744	1	q13.33
ENSG00000116191	-0.3483	-1.2731	0.0092	0.028	RALGPS2	Ral GEF wit protein_co	1	1.79E+08	1.79E+08	1	q25.2
ENSG00000071626	-0.3485	-1.2732	7.59E-05	0.0004	DAZAP1	DAZ associ. protein_co	19	1407569	1435687	1	p13.3
ENSG00000168159	-0.3485	-1.2732	0.0028	0.0102	RNF187	ring finger protein_co	1	2.28E+08	2.28E+08	1	q42.13
ENSG00000162521	-0.3488	-1.2735	7.36E-07	6.61E-06	RBBP4	retinoblast protein_co	1	32651142	32686211	1	p35.1

ENSG00000170677	-0.3488	-1.2735	0.0033	0.0116 SOCS6	suppressor protein_co	18	70288901	70330200	1 q22.2
ENSG00000105402	-0.3492	-1.2738	0.0014	0.0055 NAPA	N-ethylmal protein_co	19	47487637	47515240	-1 q13.33
ENSG00000136381	-0.3493	-1.2739	2.60E-08	3.24E-07 IREB2	iron-respor protein_co	15	78437431	78501456	1 q25.1
ENSG00000103275	-0.35	-1.2746	0.0043	0.0148 UBE2I	ubiquitin-c protein_co	16	1308880	1327018	1 p13.3
ENSG00000112640	-0.35	-1.2746	0.0135	0.0391 PPP2R5D	protein ph protein_co	6	42984499	43012342	1 p21.1
ENSG00000160789	-0.3505	-1.275	0.0017	0.0067 LMNA	lamin A/C [ protein_co	1	1.56E+08	1.56E+08	1 q22
ENSG00000108510	-0.3506	-1.2751	6.97E-07	6.29E-06 MED13	mediator c protein_co	17	61942605	62065282	-1 q23.2
ENSG00000079805	-0.3507	-1.2752	0.004	0.0139 DNM2	dynamina 2 protein_co	19	10718079	10833488	1 p13.2
ENSG00000144567	-0.3508	-1.2753	5.12E-05	0.0003 FAM134A	family with protein_co	2	2.19E+08	2.19E+08	1 q35
ENSG00000176715	-0.3511	-1.2755	0.0039	0.0133 ACSF3	acyl-CoA sy protein_co	16	89088375	89155846	1 q24.3
ENSG00000225733	-0.3513	-1.2757	3.75E-06	2.86E-05 FGD5-AS1	FGD5 antis antisense	3	14920347	14948424	-1 p25.1
ENSG00000076944	-0.3514	-1.2758	0.0135	0.039 STXBP2	syntaxin bi protein_co	19	7636881	7647873	1 p13.2
ENSG00000169045	-0.3515	-1.2759	1.54E-05	0.0001 HNRNPH1	heterogene protein_co	5	1.8E+08	1.8E+08	-1 q35.3
ENSG00000163931	-0.3516	-1.276	0.0002	0.0012 TKT	transketolase protein_co	3	53224707	53256052	-1 p21.1
ENSG00000108469	-0.3517	-1.2761	0.0159	0.0447 RECQL5	RecQ prote protein_co	17	75626845	75667189	-1 q25.1
ENSG00000173786	-0.3519	-1.2762	0.0088	0.0271 CNP	2',3'-cyclic protein_co	17	41966741	41977731	1 q21.2
ENSG00000198780	-0.3527	-1.2769	0.0068	0.0217 FAM169A	family with protein_co	5	74777574	74866951	-1 q13.3
ENSG00000198728	-0.3531	-1.2773	0.0029	0.0106 LDB1	LIM domain protein_co	10	1.02E+08	1.02E+08	-1 q24.32
ENSG00000064607	-0.3534	-1.2776	0.0003	0.0014 SUGP2	SURP and C protein_co	19	18990888	19034023	-1 p13.11
ENSG00000198060	-0.3535	-1.2776	0.0007	0.0032 MARCH5	membrane protein_co	10	92291163	92353964	1 q23.32
ENSG00000104517	-0.3537	-1.2779	0.0005	0.0023 UBR5	ubiquitin p protein_co	8	1.02E+08	1.02E+08	-1 q22.3
ENSG00000197016	-0.3538	-1.2779	0.0182	0.05 ZNF470	zinc finger protein_co	19	56567511	56588911	1 q13.43
ENSG00000115464	-0.354	-1.2781	7.33E-07	6.58E-06 USP34	ubiquitin sj protein_co	2	61187463	61470769	-1 p15
ENSG00000156599	-0.3542	-1.2782	0.0011	0.0046 ZDHHC5	zinc finger, protein_co	11	57667747	57701187	1 q12.1
ENSG00000204160	-0.3541	-1.2782	0.0057	0.0188 ZDHHC18	zinc finger, protein_co	1	26826710	26857602	1 p36.11
ENSG00000167608	-0.3547	-1.2787	0.0097	0.0295 TMC4	transmembr protein_co	19	54160108	54173250	-1 q13.42
ENSG00000204209	-0.3549	-1.2789	0.0015	0.006 DAXX	death-dom protein_co	6	33318558	33329269	-1 p21.32
ENSG00000185236	-0.3551	-1.2791	0.0033	0.0118 RAB11B	RAB11B, m protein_co	19	8389981	8404434	1 p13.2
ENSG00000100030	-0.3555	-1.2794	9.21E-08	1.02E-06 MAPK1	mitogen-ac protein_co	22	21754500	21867680	-1 q11.22
ENSG00000158161	-0.3556	-1.2795	0.0022	0.0082 EYA3	EYA transcr protein_co	1	27970344	28088696	-1 p35.3
ENSG00000159335	-0.3555	-1.2795	0.0172	0.0477 PTMS	parathymo protein_co	12	6765516	6770952	1 p13.31
ENSG00000179627	-0.3557	-1.2796	0.0098	0.0297 ZBTB42	zinc finger protein_co	14	1.05E+08	1.05E+08	1 q32.33
ENSG00000100949	-0.3558	-1.2797	0.005	0.0167 RABGGTA	Rab gerany protein_co	14	24265538	24271739	-1 q12
ENSG00000175938	-0.3561	-1.28	0.0072	0.0229 ORAI3	ORAI calciu protein_co	16	30949066	30956461	1 p11.2
ENSG00000103495	-0.3562	-1.2801	0.0007	0.003 MAZ	MYC-assoc protein_co	16	29806106	29812328	1 p11.2
ENSG00000135373	-0.3563	-1.2801	0.0145	0.0414 EHF	ets homolc protein_co	11	34621093	34661057	1 p13
ENSG00000152601	-0.3564	-1.2802	0.0005	0.0025 MBNL1	muscleblin protein_co	3	1.52E+08	1.52E+08	1 q25.1



ENSG00000176055	-0.3566	-1.2804	0.0175	0.0483	MBLAC2	metallo-be protein_co	5	90458203	90474768	-1	q14.3
ENSG00000158805	-0.3573	-1.281	0.0137	0.0393	ZNF276	zinc finger protein_co	16	89720400	89740903	1	q24.3
ENSG00000135766	-0.3574	-1.2811	0.0003	0.0013	EGLN1	egl-9 family protein_co	1	2.31E+08	2.31E+08	-1	q42.2
ENSG00000125875	-0.3576	-1.2813	1.58E-07	1.66E-06	TBC1D20	TBC1 domain protein_co	20	435480	462553	-1	p13
ENSG00000051009	-0.3579	-1.2816	0.0017	0.0067	FAM160A2	family with protein_co	11	6211335	6234711	-1	p15.4
ENSG00000113658	-0.359	-1.2826	0.001	0.0043	SMAD5	SMAD family protein_co	5	1.36E+08	1.36E+08	1	q31.1
ENSG00000164068	-0.3591	-1.2826	0.0016	0.0064	RNF123	ring finger protein_co	3	49689499	49721529	1	p21.31
ENSG00000161048	-0.3592	-1.2827	0.0016	0.0064	NAPEPLD	N-acyl phospho protein_co	7	1.03E+08	1.03E+08	-1	q22.1
ENSG00000198799	-0.3597	-1.2832	0.0002	0.0012	LRIG2	leucine-rich protein_co	1	1.13E+08	1.13E+08	1	p13.2
ENSG00000184216	-0.3598	-1.2832	0.0004	0.0021	IRAK1	interleukin protein_co X		1.54E+08	1.54E+08	-1	q28
ENSG00000180011	-0.3598	-1.2832	0.0007	0.0031	ZADH2	zinc binding protein_co	18	75195108	75209348	-1	q22.3
ENSG00000141985	-0.3602	-1.2836	0.0025	0.0093	SH3GL1	SH3-domain protein_co	19	4360370	4400547	-1	p13.3
ENSG00000101109	-0.361	-1.2843	0.0002	0.0011	STK4	serine/threonine protein_co	20	44966474	45079959	1	q13.12
ENSG00000154832	-0.361	-1.2843	0.0014	0.0055	CXXC1	CXXC finger protein_co	18	50282343	50288304	-1	q21.1
ENSG00000159023	-0.3611	-1.2844	0.0011	0.0045	EPB41	erythrocyte protein_co	1	28887091	29120046	1	p35.3
ENSG00000184363	-0.3616	-1.2849	0.0004	0.0018	PKP3	plakophilin protein_co	11	392614	404908	1	p15.5
ENSG00000106266	-0.3618	-1.285	0.0105	0.0315	SNX8	sorting nexin protein_co	7	2251770	2354318	-1	p22.3
ENSG00000109323	-0.3618	-1.285	0.0175	0.0483	MANBA	mannosidase protein_co	4	1.03E+08	1.03E+08	-1	q24
ENSG00000111110	-0.3618	-1.2851	0.002	0.0077	PPM1H	protein phosphatase protein_co	12	62643982	62935037	-1	q14.2
ENSG00000169914	-0.3619	-1.2851	0.0111	0.033	OTUD3	OTU deubiquitinase protein_co	1	19882513	19912945	1	p36.13
ENSG00000162688	-0.3622	-1.2854	0.0013	0.0053	AGL	amyloid-like protein_co	1	99850084	99924023	1	p21.2
ENSG00000169919	-0.3625	-1.2856	0.0078	0.0243	GUSB	glucuronidase protein_co	7	65960684	65982314	-1	q11.21
ENSG00000099364	-0.3628	-1.2859	0.0109	0.0325	FBXL19	F-box and L protein_co	16	30923055	30948783	1	p11.2
ENSG00000177570	-0.3628	-1.286	0.0086	0.0267	SAMD12	sterile alpha protein_co	8	1.18E+08	1.19E+08	-1	q24.12
ENSG00000175376	-0.363	-1.2861	0.0006	0.0028	EIF1AD	eukaryotic protein_co	11	65996545	66002176	-1	q13.1
ENSG00000165861	-0.363	-1.2861	0.0015	0.006	ZFYVE1	zinc finger, protein_co	14	72969451	73027212	-1	q24.2
ENSG00000213463	-0.3635	-1.2865	1.03E-08	1.42E-07	SYNJ2BP	synaptojanin protein_co	14	70366496	70417061	-1	q24.2
ENSG00000141367	-0.3639	-1.2869	9.70E-06	6.79E-05	CLTC	clathrin, heavy protein_co	17	59619689	59696956	1	q23.1
ENSG00000197162	-0.364	-1.287	0.0089	0.0273	ZNF785	zinc finger protein_co	16	30573740	30585771	-1	p11.2
ENSG00000184731	-0.3644	-1.2874	0.0122	0.0359	FAM110C	family with protein_co	2	38814	46870	-1	p25.3
ENSG00000124222	-0.3646	-1.2875	0.0002	0.0008	STX16	syntaxin 16 protein_co	20	58651253	58679526	1	q13.32
ENSG00000165714	-0.3647	-1.2876	0.0057	0.0188	LOH12CR1	loss of heterozygosity protein_co	12	12357079	12469694	1	p13.2
ENSG00000188706	-0.3648	-1.2877	0.0161	0.045	ZDHHC9	zinc finger, protein_co X		1.3E+08	1.3E+08	-1	q26.1
ENSG00000100242	-0.365	-1.2879	0.0012	0.0048	SUN2	Sad1 and U protein_co	22	38734725	38794143	-1	q13.1
ENSG00000162889	-0.3651	-1.288	0.0024	0.0089	MAPKAPK2	mitogen-activated protein_co	1	2.07E+08	2.07E+08	1	q32.1
ENSG0000013523	-0.3654	-1.2882	0.0032	0.0114	ANGEL1	angel homology protein_co	14	76787243	76826246	-1	q24.3
ENSG00000115053	-0.3657	-1.2885	3.28E-05	0.0002	NCL	nucleolin [c] protein_co	2	2.31E+08	2.31E+08	-1	q37.1

ENSG00000140299	-0.3658	-1.2886	0.0027	0.0098	BNIP2	BCL2/aden protein_co	15	59659146	59689534	-1	q22.2
ENSG00000060069	-0.366	-1.2887	0.0004	0.0018	CTDP1	CTD (carbo protein_co	18	79679801	79756623	1	q23
ENSG00000111203	-0.366	-1.2888	0.0151	0.0429	ITFG2	integrin al $\beta$ protein_co	12	2812622	2859791	1	p13.33
ENSG00000173020	-0.367	-1.2897	1.74E-05	0.0001	ADRBK1	adrenergic protein_co	11	67266410	67286556	1	q13.2
ENSG00000185619	-0.3673	-1.2899	0.0015	0.0061	PCGF3	polycomb $\xi$ protein_co	4	705748	770640	1	p16.3
ENSG00000031823	-0.3681	-1.2907	0.0003	0.0015	RANBP3	RAN bindin protein_co	19	5916139	5978142	-1	p13.3
ENSG00000163681	-0.3682	-1.2908	4.22E-08	5.06E-07	SLMAP	sarcolemm protein_co	3	57755450	57929168	1	p14.3
ENSG00000139517	-0.3683	-1.2908	0.0005	0.0022	LNX2	ligand of n $\beta$ protein_co	13	27545911	27620404	-1	q12.2
ENSG00000198722	-0.3683	-1.2909	6.05E-05	0.0003	UNC13B	unc-13 hor protein_co	9	35161992	35405338	1	p13.3
ENSG00000112773	-0.369	-1.2914	0.0107	0.0321	FAM46A	family with protein_co	6	81491439	81752774	-1	q14.1
ENSG00000107140	-0.369	-1.2915	0.0012	0.005	TESK1	testis-speci protein_co	9	35605305	35610041	1	p13.3
ENSG00000185085	-0.3694	-1.2918	0.0063	0.0205	INTS5	integrator $\alpha$ protein_co	11	62646848	62653302	-1	q12.3
ENSG00000198952	-0.3694	-1.2919	0.0015	0.006	SMG5	SMG5 non $\beta$ protein_co	1	1.56E+08	1.56E+08	-1	q22
ENSG00000147010	-0.3697	-1.2921	0.0051	0.0169	SH3KBP1	SH3-domai protein_co X		19533975	19887601	-1	p22.12
ENSG00000124226	-0.3698	-1.2922	0.0158	0.0445	RNF114	ring finger protein_co	20	49936336	49953892	1	q13.13
ENSG00000066777	-0.3699	-1.2923	2.53E-06	1.99E-05	ARFGEF1	ADP-ribosy protein_co	8	67173512	67343677	-1	q13.2
ENSG00000095066	-0.37	-1.2923	0.0117	0.0344	HOOK2	hook micrc protein_co	19	12763003	12872740	-1	p13.13
ENSG00000106086	-0.3706	-1.2929	0.0006	0.0029	PLEKHA8	pleckstrin $\beta$ protein_co	7	30027404	30130483	1	p14.3
ENSG00000121989	-0.371	-1.2932	0.0013	0.0052	ACVR2A	activin A re protein_co	2	1.48E+08	1.48E+08	1	q22.3
ENSG00000156052	-0.3711	-1.2933	0.0003	0.0013	GNAQ	guanine nu protein_co	9	77716087	78031458	-1	q21.2
ENSG00000114999	-0.3711	-1.2933	0.0037	0.0127	TTL	tubulin tyr $\alpha$ protein_co	2	1.12E+08	1.13E+08	1	q14.1
ENSG00000074356	-0.3712	-1.2934	0.0043	0.0148	C17orf85	chromoson protein_co	17	3811523	3846251	-1	p13.2
ENSG00000149418	-0.3713	-1.2935	0.0014	0.0057	ST14	suppressio protein_co	11	1.3E+08	1.3E+08	1	q24.3
ENSG00000144677	-0.3714	-1.2936	0.0022	0.0081	CTDSPL	CTD (carbo protein_co	3	37861960	37984469	1	p22.2
ENSG00000105289	-0.3715	-1.2937	0.0179	0.0493	TJP3	tight juncti protein_co	19	3708109	3750813	1	p13.3
ENSG00000149212	-0.3716	-1.2938	0.0067	0.0215	SESN3	sestrin 3 [S protein_co	11	95165540	95232541	-1	q21
ENSG00000139266	-0.3721	-1.2942	0.0088	0.027	MARCH9	membrane protein_co	12	57755098	57760407	1	q14.1
ENSG00000139132	-0.3723	-1.2944	0.0004	0.0017	FGD4	FYVE, Rho $\zeta$ protein_co	12	32399529	32646050	1	p11.21
ENSG00000163082	-0.3723	-1.2944	0.0005	0.0022	SGPP2	sphingosin $\beta$ protein_co	2	2.22E+08	2.23E+08	1	q36.1
ENSG00000184009	-0.3725	-1.2946	0.0153	0.0434	ACTG1	actin, gam $\alpha$ protein_co	17	81509971	81523847	-1	q25.3
ENSG00000159788	-0.3726	-1.2947	0.0016	0.0062	RGS12	regulator o protein_co	4	3293028	3439913	1	p16.3
ENSG00000100600	-0.3727	-1.2948	0.0128	0.0372	LGMN	legumain [ $\beta$ protein_co	14	92703807	92748702	-1	q32.12
ENSG00000054611	-0.3732	-1.2952	0.0008	0.0035	TBC1D22A	TBC1 dom $\alpha$ protein_co	22	46762617	47175699	1	q13.31
ENSG00000146909	-0.3741	-1.296	0.002	0.0076	NOM1	nucleolar p protein_co	7	1.57E+08	1.57E+08	1	q36.3
ENSG00000173214	-0.3752	-1.2971	0.0063	0.0204	KIAA1919	KIAA1919 [ protein_co	6	1.11E+08	1.11E+08	1	q21
ENSG00000198380	-0.3755	-1.2973	0.0008	0.0034	GFPT1	glutamine- protein_co	2	69319769	69387254	-1	p13.3
ENSG00000115170	-0.3756	-1.2974	0.0036	0.0126	ACVR1	activin A re protein_co	2	1.58E+08	1.58E+08	-1	q24.1

ENSG00000148218	-0.3761	-1.2979	0.0013	0.0052	ALAD	aminolevul protein_co	9	1.13E+08	1.13E+08	-1	q32
ENSG00000197296	-0.3762	-1.2979	0.0068	0.0216	FITM2	fat storage protein_co	20	44302838	44311169	-1	q13.12
ENSG00000177106	-0.3763	-1.298	0.0003	0.0013	EPS8L2	EPS8-like 2 protein_co	11	694438	727727	1	p15.5
ENSG00000162302	-0.377	-1.2986	0.0001	0.0008	RPS6KA4	ribosomal l protein_co	11	64359148	64372215	1	q13.1
ENSG00000214078	-0.377	-1.2986	0.0007	0.0032	CPNE1	copine I [Sc protein_co	20	35626031	35664956	-1	q11.22
ENSG00000151718	-0.3772	-1.2988	0.014	0.0402	WWC2	WW and C: protein_co	4	1.83E+08	1.83E+08	1	q35.1
ENSG00000170846	-0.3772	-1.2989	0.0118	0.0348	AC093323.3	lincRNA	4	6673451	6676047	1	p16.1
ENSG00000188986	-0.3774	-1.299	9.46E-05	0.0005	NELFB	negative el protein_co	9	1.37E+08	1.37E+08	1	q34.3
ENSG00000198900	-0.3775	-1.2991	0.0044	0.0151	TOP1	topoisome protein_co	20	41028818	41124487	1	q12
ENSG00000189362	-0.3779	-1.2995	0.016	0.0449	TMEM194B	transmeml protein_co	2	1.91E+08	1.91E+08	-1	q32.2
ENSG00000198695	-0.3782	-1.2997	0.0011	0.0047	MT-ND6	mitochond protein_co	MT	14149	14673	-1	
ENSG00000137776	-0.3784	-1.2999	5.68E-05	0.0003	SLTM	SAFB-like, t protein_co	15	58879045	58933653	-1	q22.1
ENSG00000100731	-0.3784	-1.2999	0.0019	0.0073	PCNX	pecanex hc protein_co	14	70907405	71115382	1	q24.2
ENSG00000154222	-0.3785	-1.2999	0.0099	0.0298	CC2D1B	coiled-coil protein_co	1	52345723	52366193	-1	p32.3
ENSG00000102580	-0.3787	-1.3002	0.0158	0.0445	DNAJC3	DnaJ (Hsp4 protein_co	13	95677139	95794989	1	q32.1
ENSG00000127334	-0.3797	-1.3011	0.0004	0.0019	DYRK2	dual-specif protein_co	12	67648338	67665406	1	q15
ENSG00000093000	-0.3802	-1.3015	0.0011	0.0047	NUP50	nucleopori protein_co	22	45163841	45188015	1	q13.31
ENSG00000185728	-0.3804	-1.3017	1.18E-06	1.01E-05	YTHDF3	YTH domai protein_co	8	63168553	63212786	1	q12.3
ENSG00000100077	-0.3804	-1.3017	0.0009	0.0039	ADRBK2	adrenergic protein_co	22	25564849	25729294	1	q12.1
ENSG00000169564	-0.3815	-1.3027	7.04E-06	5.08E-05	PCBP1	poly(rC) bir protein_co	2	70087454	70089203	1	p13.3
ENSG00000160209	-0.3816	-1.3028	0.0035	0.0122	PDXK	pyridoxal (l protein_co	21	43719094	43762307	1	q22.3
ENSG00000168758	-0.3818	-1.303	0.0023	0.0085	SEMA4C	sema dom: protein_co	2	96859716	96870757	-1	q11.2
ENSG00000198816	-0.3821	-1.3033	0.0106	0.0318	ZNF358	zinc finger protein_co	19	7515292	7521026	1	p13.2
ENSG00000105699	-0.3828	-1.3038	0.004	0.0137	LSR	lipolysis sti protein_co	19	35248330	35267964	1	q13.12
ENSG00000248092	-0.3829	-1.304	0.0094	0.0286	NNT-AS1	NNT antise antisense	5	43571594	43603230	-1	p12
ENSG00000159461	-0.3833	-1.3044	0.0017	0.0066	AMFR	autocrine r protein_co	16	56361452	56425538	-1	q13
ENSG00000151726	-0.3835	-1.3045	0.0007	0.0032	ACSL1	acyl-CoA sy protein_co	4	1.85E+08	1.85E+08	-1	q35.1
ENSG00000169118	-0.3841	-1.305	0.0001	0.0007	CSNK1G1	casein kina protein_co	15	64165517	64356187	-1	q22.31
ENSG00000183475	-0.3841	-1.3051	0.0005	0.0025	ASB7	ankyrin ref protein_co	15	1.01E+08	1.01E+08	1	q26.3
ENSG00000126351	-0.3842	-1.3051	0.0135	0.0391	THRA	thyroid hor protein_co	17	40058290	40093867	1	q21.1
ENSG00000137815	-0.3842	-1.3052	0.0001	0.0007	RTF1	Rtf1, Paf1/ protein_co	15	41408408	41483563	1	q15.1
ENSG00000078369	-0.3845	-1.3054	0.0033	0.0117	GNB1	guanine nu protein_co	1	1785285	1891117	-1	p36.33
ENSG00000157259	-0.3852	-1.3061	2.89E-05	0.0002	GATAD1	GATA zinc l protein_co	7	92447453	92458836	1	q21.2
ENSG00000105229	-0.3852	-1.3061	0.0012	0.005	PIAS4	protein inh protein_co	19	4007646	4039386	1	p13.3
ENSG00000156735	-0.3856	-1.3064	0.0001	0.0006	BAG4	BCL2-assoc protein_co	8	38176533	38213301	1	p11.23
ENSG00000151150	-0.3856	-1.3064	0.0024	0.009	ANK3	ankyrin 3, r protein_co	10	60026298	60733490	-1	q21.2
ENSG00000234127	-0.3861	-1.3069	0.0013	0.0054	TRIM26	tripartite r protein_co	6	30184455	30213427	-1	p22.1

ENSG00000118200	-0.3862	-1.307	0.0005	0.0022	CAMSAP2	calmodulin protein_co	1	2.01E+08	2.01E+08	1	q32.1
ENSG00000125952	-0.3864	-1.3071	7.01E-05	0.0004	MAX	MYC associ protein_co	14	65006174	65102695	-1	q23.3
ENSG00000088812	-0.3871	-1.3078	0.0001	0.0007	ATRN	attractin [S protein_co	20	3471040	3651122	1	p13
ENSG00000144535	-0.3871	-1.3078	0.0115	0.034	DIS3L2	DIS3 like 3' protein_co	2	2.32E+08	2.32E+08	1	q37.1
ENSG00000138594	-0.3872	-1.3079	1.22E-06	1.04E-05	TMOD3	tropomodl protein_co	15	51829628	51947295	1	q21.2
ENSG00000147548	-0.3873	-1.308	0.0003	0.0015	WHSC1L1	Wolf-Hirscl protein_co	8	38269697	38382272	-1	p11.23
ENSG00000182512	-0.3873	-1.308	0.0072	0.0229	GLRX5	glutaredox protein_co	14	95533503	9544724	1	q32.13
ENSG00000047249	-0.3873	-1.308	0.0091	0.0278	ATP6V1H	ATPase, H+ protein_co	8	53715557	53843558	-1	q11.23
ENSG00000177189	-0.3875	-1.3081	4.58E-08	5.44E-07	RPS6KA3	ribosomal j protein_co X		20149911	20267100	-1	p22.12
ENSG00000152642	-0.3875	-1.3082	0.0028	0.0101	GPD1L	glycerol-3-j protein_co	3	32105689	32168713	1	p22.3
ENSG00000099194	-0.3884	-1.3089	0.0002	0.001	SCD	stearoyl-Cc protein_co	10	1E+08	1E+08	1	q24.31
ENSG00000100014	-0.3886	-1.3091	0.0005	0.0024	SPECC1L	sperm anti; protein_co	22	24270817	24417740	1	q11.23
ENSG00000148943	-0.3888	-1.3093	2.05E-07	2.08E-06	LIN7C	lin-7 homo protein_co	11	27494576	27506773	-1	p14.1
ENSG00000176248	-0.389	-1.3095	0.0003	0.0015	ANAPC2	anaphase f protein_co	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000008382	-0.3892	-1.3096	0.0075	0.0236	MPND	MPN doma protein_co	19	4343527	4360086	1	p13.3
ENSG00000125818	-0.3894	-1.3098	0.0002	0.001	PSMF1	proteasom protein_co	20	1113263	1189415	1	p13
ENSG00000214717	-0.3895	-1.3099	2.58E-05	0.0002	ZBED1	zinc finger, protein_co X		2486414	2500967	-1	p22.33
ENSG00000169435	-0.3897	-1.3101	0.0151	0.0428	RASSF6	Ras associa protein_co	4	73571550	73620631	-1	q13.3
ENSG00000180628	-0.3899	-1.3103	0.0008	0.0033	PCGF5	polycomb ξ protein_co	10	91163012	91284331	1	q23.32
ENSG00000111605	-0.39	-1.3104	8.60E-09	1.21E-07	CPSF6	cleavage ar protein_co	12	69239537	69274358	1	q15
ENSG00000172071	-0.3904	-1.3108	0.0012	0.0049	EIF2AK3	eukaryotic protein_co	2	88556741	88627576	-1	p11.2
ENSG00000219481	-0.3913	-1.3116	0.0007	0.003	NBPF1	neuroblast protein_co	1	16562319	16613562	-1	p36.13
ENSG00000078140	-0.3915	-1.3117	5.16E-07	4.79E-06	UBE2K	ubiquitin-c protein_co	4	39698044	39782792	1	p14
ENSG00000152413	-0.3919	-1.3121	0.0052	0.0173	HOMER1	homer hon protein_co	5	79372636	79514217	-1	q14.1
ENSG00000135052	-0.3919	-1.3121	0.0083	0.0258	GOLM1	golgi meml protein_co	9	86026146	86100173	-1	q21.33
ENSG00000087299	-0.3925	-1.3127	0.0045	0.0153	L2HGDH	L-2-hydrox protein_co	14	50237563	50312548	-1	q21.3
ENSG00000204843	-0.3928	-1.3129	7.09E-05	0.0004	DCTN1	dynactin 1 protein_co	2	74361154	74392087	-1	p13.1
ENSG00000087269	-0.393	-1.3131	0.0024	0.0089	NOP14	NOP14 nuc protein_co	4	2937933	2963385	-1	p16.3
ENSG00000118046	-0.3931	-1.3132	0.0002	0.001	STK11	serine/thre protein_co	19	1177558	1228435	1	p13.3
ENSG00000162378	-0.3934	-1.3135	1.13E-05	7.79E-05	ZYG11B	zyg-11 fam protein_co	1	52726467	52827342	1	p32.3
ENSG00000141965	-0.3934	-1.3135	0.0028	0.0101	FEM1A	fem-1 hom protein_co	19	4791681	4801273	1	p13.3
ENSG00000162542	-0.3935	-1.3135	0.0038	0.0132	TMCO4	transmeml protein_co	1	19682213	19799945	-1	p36.13
ENSG00000104365	-0.3935	-1.3136	0.0004	0.0018	IKBKB	inhibitor of protein_co	8	42271302	42332653	1	p11.21
ENSG00000144426	-0.3936	-1.3137	0.0014	0.0057	NBEAL1	neurobeacl protein_co	2	2.03E+08	2.03E+08	1	q33.2
ENSG00000117481	-0.3938	-1.3139	0.0001	0.0007	NSUN4	NOP2/Sun protein_co	1	46340177	46365152	1	p33
ENSG00000136938	-0.3938	-1.3139	0.0007	0.0032	ANP32B	acidic (leuc protein_co	9	97983361	98015943	1	q22.33
ENSG00000136731	-0.3942	-1.3142	0.0003	0.0015	UGGT1	UDP-glucos: protein_co	2	1.28E+08	1.28E+08	1	q14.3

ENSG00000112079	-0.3947	-1.3147	1.76E-06	1.44E-05	STK38	serine/thre protein_co	6	36493892	36547470	-1	p21.31
ENSG00000138760	-0.3948	-1.3147	0.0117	0.0344	SCARB2	scavenger protein_co	4	76158737	76213893	-1	q21.1
ENSG00000156011	-0.3951	-1.315	2.21E-06	1.76E-05	PSD3	pleckstrin protein_co	8	18527301	19084730	-1	p22
ENSG00000186660	-0.3952	-1.3151	3.65E-07	3.51E-06	ZFP91	ZFP91 zinc protein_co	11	58579111	58621042	1	q12.1
ENSG00000152242	-0.3952	-1.3152	3.18E-05	0.0002	C18orf25	chromosom protein_co	18	46173553	46266991	1	q21.1
ENSG00000117114	-0.3953	-1.3152	0.0147	0.0418	LPHN2	latrophilin protein_co	1	81306160	81992436	1	p31.1
ENSG00000100083	-0.3955	-1.3154	0.0005	0.0025	GGA1	golgi-assoc protein_co	22	37608475	37633564	1	q13.1
ENSG00000182795	-0.3955	-1.3154	0.0012	0.0049	C1orf116	chromosom protein_co	1	2.07E+08	2.07E+08	-1	q32.1
ENSG00000099810	-0.3961	-1.3159	2.52E-05	0.0002	MTAP	methythio protein_co	9	21802543	21937651	1	p21.3
ENSG00000136936	-0.3964	-1.3162	0.007	0.0223	XPA	xeroderma protein_co	9	97674909	97697357	-1	q22.33
ENSG00000025800	-0.3966	-1.3164	1.13E-05	7.79E-05	KPNA6	karyopheri protein_co	1	32108038	32176568	1	p35.2
ENSG00000113391	-0.3966	-1.3164	0.0004	0.002	FAM172A	family with protein_co	5	93618069	94111699	-1	q15
ENSG00000125741	-0.3966	-1.3164	0.0007	0.0033	OPA3	optic atrop protein_co	19	45527427	45602212	-1	q13.32
ENSG00000164054	-0.3966	-1.3164	0.0061	0.0198	SHISA5	shisa family protein_co	3	48467798	48504826	-1	p21.31
ENSG00000109189	-0.3967	-1.3165	2.11E-07	2.14E-06	USP46	ubiquitin protein_co	4	52590972	52659335	-1	q12
ENSG00000116580	-0.3971	-1.3169	0.0015	0.006	GON4L	gon-4-like protein_co	1	1.56E+08	1.56E+08	-1	q22
ENSG00000104805	-0.3971	-1.3169	0.003	0.0108	NUCB1	nucleobind protein_co	19	48900050	48923372	1	q13.33
ENSG00000119778	-0.3982	-1.3178	0.0008	0.0035	ATAD2B	ATPase fan protein_co	2	23748664	23927114	-1	p23.3
ENSG00000107816	-0.3982	-1.3178	0.0048	0.0161	LZTS2	leucine zip protein_co	10	1.01E+08	1.01E+08	1	q24.31
ENSG00000031003	-0.3983	-1.3179	3.03E-06	2.35E-05	FAM13B	family with protein_co	5	1.38E+08	1.38E+08	-1	q31.2
ENSG00000132535	-0.3986	-1.3183	0.0087	0.027	DLG4	discs, large protein_co	17	7189890	7219702	-1	p13.1
ENSG00000182446	-0.3987	-1.3184	0.0011	0.0046	NPLOC4	nuclear prc protein_co	17	81556887	81648465	-1	q25.3
ENSG00000159267	-0.3992	-1.3188	6.66E-05	0.0004	HLCS	holocarbox protein_co	21	36750888	36990236	-1	q22.13
ENSG00000143799	-0.3996	-1.3191	0.0013	0.0053	PARP1	poly (ADP-ri protein_co	1	2.26E+08	2.26E+08	-1	q42.12
ENSG00000162924	-0.4002	-1.3197	0.0123	0.036	REL	v-rel avian protein_co	2	60881521	60931610	1	p16.1
ENSG00000135372	-0.4003	-1.3198	0.0019	0.0073	NAT10	N-acetyltra protein_co	11	34105602	34147670	1	p13
ENSG00000100330	-0.401	-1.3204	2.81E-06	2.19E-05	MTMR3	myotubula protein_co	22	29883155	30030866	1	q12.2
ENSG00000055070	-0.401	-1.3205	0.0019	0.0072	SZRD1	SUZ RNA bi protein_co	1	16352575	16398145	1	p36.13
ENSG00000145214	-0.4012	-1.3206	0.0053	0.0175	DGKQ	diacyglyce protein_co	4	958885	986895	-1	p16.3
ENSG00000106546	-0.4013	-1.3207	0.0002	0.001	AHR	aryl hydroc protein_co	7	17298622	17346152	1	p21.1
ENSG00000145916	-0.4013	-1.3207	0.0038	0.0132	RMND5B	required fc protein_co	5	1.78E+08	1.78E+08	1	q35.3
ENSG00000129473	-0.4015	-1.3209	2.06E-05	0.0001	BCL2L2	BCL2-like 2 protein_co	14	23298790	23311759	1	q11.2
ENSG00000078114	-0.4016	-1.321	0.0041	0.0139	NEBL	nebullette protein_co	10	20779973	21174187	-1	p12.31
ENSG00000204116	-0.4017	-1.321	0.0129	0.0374	CHIC1	cysteine-ric protein_co X		73563200	73687102	1	q13.2
ENSG00000102606	-0.4019	-1.3212	0.0005	0.0023	ARHGEF7	Rho guanin protein_co	13	1.11E+08	1.11E+08	1	q34
ENSG00000110108	-0.4023	-1.3216	0.0006	0.0025	TMEM109	transmemk protein_co	11	60913874	60923443	1	q12.2
ENSG00000138764	-0.4024	-1.3217	0.007	0.0221	CCNG2	cyclin G2 protein_co	4	77157151	77433388	1	q21.1



ENSG00000138092	-0.4023	-1.3217	0.01	0.0303	CENPO	centromere protein_co	2	24793136	24822376	1	p23.3
ENSG00000134049	-0.4025	-1.3218	0.0066	0.021	IER3IP1	immediate protein_co	18	47152998	47176374	-1	q21.1
ENSG00000160613	-0.4025	-1.3218	0.0119	0.035	PCSK7	proprotein protein_co	11	1.17E+08	1.17E+08	-1	q23.3
ENSG00000013364	-0.4031	-1.3223	0.0003	0.0016	MVP	major vault protein_co	16	29820394	29848039	1	p11.2
ENSG00000143061	-0.4031	-1.3224	0.002	0.0076	IGSF3	immunoglobulin protein_co	1	1.17E+08	1.17E+08	-1	p13.1
ENSG00000073536	-0.4033	-1.3225	0.0154	0.0435	NLE1	notchless homolog protein_co	17	35128753	35142315	-1	q12
ENSG00000134107	-0.4035	-1.3227	0.0019	0.0073	BHLHE40	basic helix-loop protein_co	3	4979116	4985323	1	p26.1
ENSG00000008130	-0.4036	-1.3228	0.0006	0.0028	NADK	NAD kinase protein_co	1	1751232	1780457	-1	p36.33
ENSG00000160685	-0.4038	-1.323	0.0003	0.0013	ZBTB7B	zinc finger protein_co	1	1.55E+08	1.55E+08	1	q21.3
ENSG00000102401	-0.4043	-1.3234	0.0133	0.0386	ARMCX3	armadillo repeat protein_co X		1.02E+08	1.02E+08	1	q22.1
ENSG00000135720	-0.4044	-1.3235	7.44E-09	1.06E-07	DYNC1LI2	dynein, cytoplasmic protein_co	16	66720893	66751798	-1	q22.1
ENSG00000096060	-0.4049	-1.324	0.0028	0.0101	FKBP5	FK506 binding protein_co	6	35573585	35728583	-1	p21.31
ENSG00000276293	-0.4051	-1.3242	3.06E-05	0.0002	PIP4K2B	phosphatidylinositol protein_co	17	38765689	38800126	-1	q12
ENSG00000048405	-0.4055	-1.3246	3.31E-05	0.0002	ZNF800	zinc finger protein_co	7	1.27E+08	1.27E+08	-1	q31.33
ENSG00000040531	-0.4059	-1.3249	0.0018	0.007	CTNS	cystinosis, protein_co	17	3636468	3661542	1	p13.2
ENSG00000140455	-0.4059	-1.325	6.25E-06	4.56E-05	USP3	ubiquitin specific protein_co	15	63504511	63594640	1	q22.31
ENSG00000156381	-0.4063	-1.3252	0.0014	0.0057	ANKRD9	ankyrin repeat protein_co	14	1.03E+08	1.03E+08	-1	q32.31
ENSG00000100364	-0.4064	-1.3253	0.007	0.0222	KIAA0930	KIAA0930 [ protein_co	22	45190338	45240769	-1	q13.31
ENSG00000127527	-0.4065	-1.3255	0.0012	0.0051	EPS15L1	epidermal protein_co	19	16355239	16472085	-1	p13.11
ENSG00000110274	-0.4068	-1.3257	0.0018	0.0068	CEP164	centrosome protein_co	11	1.17E+08	1.17E+08	1	q23.3
ENSG00000100221	-0.4069	-1.3258	0.0015	0.0059	JOSD1	Josephin domain protein_co	22	38685543	38701556	-1	q13.1
ENSG00000184481	-0.4072	-1.3261	0.0042	0.0145	FOXO4	forkhead box protein_co X		71096197	71103535	1	q13.1
ENSG00000165240	-0.4073	-1.3262	0.0003	0.0013	ATP7A	ATPase, copper protein_co X		77910656	78050395	1	q21.1
ENSG00000143797	-0.4079	-1.3267	5.80E-05	0.0003	MBOAT2	membrane protein_co	2	8852690	9003813	-1	p25.1
ENSG00000118596	-0.4083	-1.3271	0.0009	0.0038	SLC16A7	solute carrier protein_co	12	59596067	59789855	1	q14.1
ENSG00000078902	-0.4082	-1.3271	0.0029	0.0105	TOLLIP	toll interaction protein_co	11	1274371	1309654	-1	p15.5
ENSG00000174953	-0.4085	-1.3273	4.40E-06	3.30E-05	DHX36	DEAH (Asp) protein_co	3	1.54E+08	1.54E+08	-1	q25.2
ENSG00000081320	-0.4085	-1.3273	0.0023	0.0087	STK17B	serine/threonine protein_co	2	1.96E+08	1.96E+08	-1	q32.3
ENSG00000102921	-0.4086	-1.3274	0.0005	0.0022	N4BP1	NEDD4 binding protein_co	16	48538726	48620148	-1	q12.1
ENSG00000143458	-0.4087	-1.3275	0.0182	0.0499	GABPB2	GA binding protein_co	1	1.51E+08	1.51E+08	1	q21.3
ENSG00000100395	-0.4088	-1.3276	0.0037	0.0128	L3MBTL2	l(3)mbt-like protein_co	22	41205205	41231271	1	q13.2
ENSG00000138386	-0.4089	-1.3277	1.48E-06	1.23E-05	NAB1	NGFI-A binding protein_co	2	1.91E+08	1.91E+08	1	q32.2
ENSG00000159314	-0.409	-1.3277	0.0014	0.0056	ARHGAP27	Rho GTPase protein_co	17	45393902	45434421	-1	q21.31
ENSG00000128274	-0.409	-1.3278	0.0001	0.0006	A4GALT	alpha 1,4-galactosyl protein_co	22	42692121	42721298	-1	q13.2
ENSG00000110651	-0.4093	-1.3281	0.0024	0.0088	CD81	CD81 molecule protein_co	11	2376177	2397419	1	p15.5
ENSG00000184307	-0.4094	-1.3282	0.0117	0.0344	ZDHHC23	zinc finger, protein_co	3	1.14E+08	1.14E+08	1	q13.31
ENSG00000180104	-0.4097	-1.3284	0.0016	0.0064	EXOC3	exocyst core protein_co	5	443158	471937	1	p15.33

ENSG00000135457	-0.4098	-1.3285	0.0005	0.0025	TFCP2	transcriptic protein_co	12	51093663	51173134	-1	q13.13
ENSG00000151458	-0.4098	-1.3285	0.0067	0.0214	ANKRD50	ankyrin reꝑ protein_co	4	1.25E+08	1.25E+08	-1	q28.1
ENSG00000107758	-0.41	-1.3287	0.0003	0.0015	PPP3CB	protein phꝑ protein_co	10	73436428	73496024	-1	q22.2
ENSG00000153179	-0.4102	-1.3289	0.0027	0.0098	RASSF3	Ras associa protein_co	12	64610513	64697567	1	q14.2
ENSG00000105325	-0.4104	-1.329	0.002	0.0077	FZR1	fizzy/cell di protein_co	19	3506273	3538330	1	p13.3
ENSG00000100065	-0.4103	-1.329	0.0073	0.023	CARD10	caspase rec protein_co	22	37490362	37519542	-1	q13.1
ENSG00000163655	-0.4104	-1.3291	0.0002	0.001	GMPS	guanine mꝑ protein_co	3	1.56E+08	1.56E+08	1	q25.31
ENSG00000172216	-0.4119	-1.3304	0.0029	0.0104	CEBPB	CCAAT/enꝑ protein_co	20	50190734	50192689	1	q13.13
ENSG00000139990	-0.4119	-1.3305	0.0005	0.0021	DCAF5	DDB1 and ꝑ protein_co	14	69050881	69153150	-1	q24.1
ENSG00000116688	-0.4122	-1.3307	0.0001	0.0006	MFN2	mitofusin 2 protein_co	1	11980181	12013514	1	p36.22
ENSG00000173575	-0.4128	-1.3312	1.27E-05	8.64E-05	CHD2	chromodor protein_co	15	92900321	93028003	1	q26.1
ENSG00000160214	-0.4129	-1.3314	0.0035	0.0122	RRP1	ribosomal l protein_co	21	43789513	43805293	1	q22.3
ENSG00000151233	-0.4132	-1.3316	0.0005	0.0021	GXYLT1	glucoside x protein_co	12	42081845	42144879	-1	q12
ENSG00000173757	-0.4135	-1.3319	0.0006	0.0026	STAT5B	signal trans: protein_co	17	42199168	42276707	-1	q21.2
ENSG00000124574	-0.4135	-1.3319	0.0022	0.0081	ABCC10	ATP-bindin protein_co	6	43427366	43450430	1	p21.1
ENSG00000068383	-0.4135	-1.3319	0.0047	0.0157	INPP5A	inositol pol protein_co	10	1.33E+08	1.33E+08	1	q26.3
ENSG00000100304	-0.4139	-1.3323	0.0039	0.0133	TTLL12	tubulin tyrꝑ protein_co	22	43166622	43187133	-1	q13.2
ENSG00000130024	-0.4145	-1.3328	0.0001	0.0007	PHF10	PHD finger protein_co	6	1.7E+08	1.7E+08	-1	q27
ENSG00000146904	-0.4148	-1.3331	0.0041	0.014	EPHA1	EPH recept protein_co	7	1.43E+08	1.43E+08	-1	q35
ENSG00000122779	-0.4148	-1.3332	0.0002	0.001	TRIM24	tripartite rꝑ protein_co	7	1.38E+08	1.39E+08	1	q33
ENSG00000101346	-0.415	-1.3333	0.0012	0.0048	POFUT1	protein O-f protein_co	20	32207880	32238667	1	q11.21
ENSG00000135823	-0.4151	-1.3334	2.57E-06	2.02E-05	STX6	syntaxin 6 ꝑ protein_co	1	1.81E+08	1.81E+08	-1	q25.3
ENSG00000163110	-0.4153	-1.3335	1.58E-05	0.0001	PDLIM5	PDZ and LII protein_co	4	94451857	94668227	1	q22.3
ENSG00000197442	-0.4156	-1.3339	0.0002	0.0008	MAP3K5	mitogen-ac protein_co	6	1.37E+08	1.37E+08	-1	q23.3
ENSG00000112699	-0.4159	-1.3341	0.0085	0.0262	GMDS	GDP-mann protein_co	6	1623806	2245692	-1	p25.3
ENSG00000179943	-0.4159	-1.3342	0.0078	0.0245	FIZ1	FLT3-interꝑ protein_co	19	55591371	55601970	-1	q13.42
ENSG00000166887	-0.4162	-1.3344	2.90E-06	2.26E-05	VPS39	vacuolar pr protein_co	15	42158701	42208316	-1	q15.1
ENSG00000128928	-0.4162	-1.3344	6.06E-05	0.0003	IVD	isovaleryl-C protein_co	15	40405795	40435947	1	q15.1
ENSG00000173456	-0.4162	-1.3344	0.0003	0.0015	RNF26	ring finger protein_co	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000117505	-0.4168	-1.3349	1.30E-05	8.79E-05	DR1	down-regu protein_co	1	93345888	93369498	1	p22.1
ENSG00000119900	-0.4169	-1.3351	0.001	0.0042	OGFRL1	opioid grov protein_co	6	71288803	71308950	1	q13
ENSG00000162231	-0.4171	-1.3353	0.0003	0.0014	NXF1	nuclear RN protein_co	11	62792123	62806302	-1	q12.3
ENSG00000023516	-0.4174	-1.3355	1.40E-09	2.31E-08	AKAP11	A kinase (P protein_co	13	42272153	42323267	1	q14.11
ENSG00000198825	-0.4175	-1.3356	6.35E-06	4.63E-05	INPP5F	inositol pol protein_co	10	1.2E+08	1.2E+08	1	q26.11
ENSG00000100813	-0.4176	-1.3357	9.74E-06	6.81E-05	ACIN1	apoptotic c protein_co	14	23058564	23095614	-1	q11.2
ENSG00000114503	-0.4178	-1.3359	3.86E-08	4.67E-07	NCPB2	nuclear caꝑ protein_co	3	1.97E+08	1.97E+08	-1	q29
ENSG00000159140	-0.418	-1.3361	5.59E-06	4.12E-05	SON	SON DNA ꝑ protein_co	21	33542618	33577481	1	q22.11

ENSG00000131504	-0.4184	-1.3365	4.52E-05	0.0003	DIAPH1	diaphanou:protein_co	5	1.42E+08	1.42E+08	-1	q31.3
ENSG00000175029	-0.4187	-1.3367	2.75E-05	0.0002	CTBP2	C-terminal protein_co	10	1.25E+08	1.25E+08	-1	q26.13
ENSG00000162419	-0.4186	-1.3367	0.0013	0.0054	GMEB1	glucocortic protein_co	1	28668732	28719353	1	p35.3
ENSG00000164190	-0.4188	-1.3368	2.12E-06	1.69E-05	NIPBL	Nipped-B hprotein_co	5	36876759	37066413	1	p13.2
ENSG00000130147	-0.4189	-1.3369	0.0005	0.0022	SH3BP4	SH3-domai protein_co	2	2.35E+08	2.35E+08	1	q37.2
ENSG00000272520	-0.4188	-1.3369	0.0087	0.0268	CTD-2044J15.2	lincRNA	5	6671106	6674386	1	p15.31
ENSG00000166340	-0.4188	-1.3369	0.0181	0.0496	TPP1	tripeptidyl protein_co	11	6612763	6619461	-1	p15.4
ENSG00000143217	-0.4192	-1.3372	0.0004	0.0018	PVRL4	poliovirus r protein_co	1	1.61E+08	1.61E+08	-1	q23.3
ENSG00000174197	-0.4201	-1.338	0.0008	0.0034	MGA	MGA, MAX protein_co	15	41621224	41773081	1	q15.1
ENSG00000133943	-0.4202	-1.3381	0.0021	0.0079	C14orf159	chromosom protein_co	14	91060333	91225632	1	q32.11
ENSG00000175582	-0.4204	-1.3383	0.0002	0.0009	RAB6A	RAB6A, me protein_co	11	73675638	73761137	-1	q13.4
ENSG00000087448	-0.4205	-1.3384	0.0001	0.0006	KLHL42	kelch-like f. protein_co	12	27780020	27803040	1	p11.22
ENSG00000257742	-0.4205	-1.3384	0.0167	0.0465	RP11-350F4.2	lincRNA	12	43718993	43724000	-1	q12
ENSG00000119318	-0.4207	-1.3386	1.39E-06	1.17E-05	RAD23B	RAD23 hon protein_co	9	1.07E+08	1.07E+08	1	q31.2
ENSG00000144320	-0.4207	-1.3386	0.0036	0.0126	KIAA1715	KIAA1715 [ protein_co	2	1.76E+08	1.76E+08	-1	q31.1
ENSG00000182934	-0.4208	-1.3387	0.0024	0.0089	SRPR	signal recoi protein_co	11	1.26E+08	1.26E+08	-1	q24.2
ENSG00000225830	-0.421	-1.3389	4.78E-05	0.0003	ERCC6	excision rej protein_co	10	49455368	49539538	-1	q11.23
ENSG00000169756	-0.4213	-1.3391	0.0059	0.0194	LIMS1	LIM and se protein_co	2	1.09E+08	1.09E+08	1	q12.3
ENSG00000154328	-0.4216	-1.3394	0.0063	0.0204	NEIL2	nei endonu protein_co	8	11769639	11787346	1	p23.1
ENSG00000176058	-0.4227	-1.3404	0.015	0.0425	TPRN	taperin [So protein_co	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000136240	-0.4228	-1.3405	0.0017	0.0065	KDELR2	KDEL (Lys-/ protein_co	7	6445953	6484242	-1	p22.1
ENSG00000154930	-0.423	-1.3407	0.0107	0.032	ACSS1	acyl-CoA sy protein_co	20	25006230	25058980	-1	p11.21
ENSG00000135597	-0.4234	-1.341	0.0004	0.0018	REPS1	RALBP1 ass protein_co	6	1.39E+08	1.39E+08	-1	q24.1
ENSG00000197147	-0.4236	-1.3412	1.66E-06	1.37E-05	LRR8B	leucine rich protein_co	1	89524836	89597864	1	p22.2
ENSG00000132294	-0.4241	-1.3417	4.63E-06	3.46E-05	EFR3A	EFR3 homc protein_co	8	1.32E+08	1.32E+08	1	q24.22
ENSG00000134318	-0.4243	-1.3419	3.82E-06	2.91E-05	ROCK2	Rho-associ protein_co	2	11179761	11348330	-1	p25.1
ENSG00000040933	-0.4243	-1.3419	0.0058	0.019	INPP4A	inositol pol protein_co	2	98444854	98594390	1	q11.2
ENSG00000133858	-0.4244	-1.3421	0.0009	0.0038	ZFC3H1	zinc finger, protein_co	12	71609472	71667725	-1	q21.1
ENSG00000104866	-0.4246	-1.3422	0.0002	0.001	PPP1R37	protein ph protein_co	19	45091396	45148077	1	q13.32
ENSG00000135473	-0.4246	-1.3422	0.0035	0.0122	PAN2	PAN2 poly( protein_co	12	56316223	56334053	-1	q13.3
ENSG00000120314	-0.4248	-1.3423	0.0019	0.0073	WDR55	WD repeat protein_co	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000146842	-0.4248	-1.3424	0.0002	0.0012	TMEM209	transmemt protein_co	7	1.3E+08	1.3E+08	-1	q32.2
ENSG00000119638	-0.425	-1.3425	0.0011	0.0046	NEK9	NIMA-relat protein_co	14	75079353	75127344	-1	q24.3
ENSG00000133639	-0.425	-1.3426	2.30E-06	1.83E-05	BTG1	B-cell trans protein_co	12	92140278	92145897	-1	q21.33
ENSG00000170647	-0.425	-1.3426	0.0111	0.0331	TMEM133	transmemt protein_co	11	1.01E+08	1.01E+08	1	q22.1
ENSG00000111684	-0.4259	-1.3434	0.0004	0.0019	LPCAT3	lysophosph protein_co	12	6976186	7018510	-1	p13.31
ENSG00000126107	-0.4258	-1.3434	0.0039	0.0133	HECTD3	HECT domc protein_co	1	45002540	45011329	-1	p34.1

ENSG00000163347	-0.4259	-1.3434	0.0116	0.0342	CLDN1	claudin 1 [protein_co	3	1.9E+08	1.9E+08	-1	q28
ENSG00000145391	-0.426	-1.3435	0.0006	0.0025	SETD7	SET domain protein_co	4	1.39E+08	1.4E+08	-1	q31.1
ENSG00000141644	-0.4263	-1.3438	0.0005	0.0024	MBD1	methyl-CpG protein_co	18	50266882	50281774	-1	q21.1
ENSG00000186635	-0.4266	-1.344	1.19E-05	8.14E-05	ARAP1	ArfGAP with protein_co	11	72685069	72793599	-1	q13.4
ENSG0000036257	-0.4266	-1.3441	1.88E-07	1.93E-06	CUL3	cullin 3 [So protein_co	2	2.24E+08	2.25E+08	-1	q36.2
ENSG00000204406	-0.4266	-1.3441	0.0004	0.0017	MBD5	methyl-CpG protein_co	2	1.48E+08	1.49E+08	1	q23.1
ENSG00000106723	-0.4268	-1.3442	9.92E-05	0.0005	SPIN1	spindlin 1 [ protein_co	9	88388419	88478694	1	q22.1
ENSG00000160404	-0.4267	-1.3442	0.0023	0.0086	TOR2A	torsin family protein_co	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000169499	-0.4268	-1.3442	0.0047	0.0159	PLEKHA2	pleckstrin family protein_co	8	38901235	38973909	1	p11.22
ENSG00000169570	-0.4269	-1.3443	0.0021	0.0078	DTWD2	DTW domain protein_co	5	1.19E+08	1.19E+08	-1	q23.1
ENSG00000100150	-0.4269	-1.3443	0.0069	0.0221	DEPDC5	DEP domain protein_co	22	31753951	31907034	1	q12.2
ENSG00000150867	-0.4268	-1.3443	0.0156	0.0439	PIP4K2A	phosphatidylinositol protein_co	10	22534849	22714555	-1	p12.2
ENSG00000086848	-0.4271	-1.3445	0.0172	0.0477	ALG9	ALG9, alpha protein_co	11	1.12E+08	1.12E+08	-1	q23.1
ENSG00000112118	-0.4277	-1.3451	0.0063	0.0203	MCM3	minichromosome protein_co	6	52264009	52284881	-1	p12.2
ENSG00000224051	-0.4281	-1.3455	0.0034	0.012	CPTP	ceramide-1 protein_co	1	1324756	1328897	1	p36.33
ENSG00000187239	-0.4285	-1.3458	0.0006	0.0027	FNBP1	formin binding protein_co	9	1.3E+08	1.3E+08	-1	q34.11
ENSG00000169446	-0.4287	-1.346	0.0001	0.0006	MMGT1	membrane protein_co X		1.36E+08	1.36E+08	-1	q26.3
ENSG00000132466	-0.4291	-1.3464	2.33E-06	1.85E-05	ANKRD17	ankyrin repeat protein_co	4	73073376	73258798	-1	q13.3
ENSG00000179889	-0.4292	-1.3465	0.0004	0.002	PDXDC1	pyridoxal-dependent protein_co	16	14974591	15139339	1	p13.11
ENSG00000100982	-0.4295	-1.3468	0.0016	0.0064	PCIF1	PDX1 C-terminal protein_co	20	45934628	45948023	1	q13.12
ENSG00000183354	-0.4298	-1.3471	4.20E-05	0.0003	KIAA2026	KIAA2026 [ protein_co	9	5881596	6007901	-1	p24.1
ENSG00000135414	-0.43	-1.3472	0.0108	0.0324	GDF11	growth differentiation protein_co	12	55743280	55757278	1	q13.2
ENSG00000170638	-0.4301	-1.3473	1.65E-05	0.0001	TRABD	TraB domain protein_co	22	50185915	50199598	1	q13.33
ENSG00000144655	-0.4307	-1.3479	0.0097	0.0294	CSRNP1	cysteine-sequence protein_co	3	39141855	39154562	-1	p22.2
ENSG00000107372	-0.432	-1.3491	1.41E-06	1.18E-05	ZFAND5	zinc finger, protein_co	9	72351425	72365235	-1	q21.13
ENSG00000181396	-0.4327	-1.3498	4.04E-05	0.0002	OGFOD3	2-oxoglutarate protein_co	17	82389223	82418637	-1	q25.3
ENSG00000160190	-0.4327	-1.3498	0.0005	0.0025	SLC37A1	solute carrier protein_co	21	42496008	42581440	1	q22.3
ENSG00000144589	-0.4328	-1.3499	0.0169	0.0469	STK11IP	serine/threonine protein_co	2	2.2E+08	2.2E+08	1	q35
ENSG00000101158	-0.4333	-1.3504	0.0002	0.0008	NELFCD	negative elongation protein_co	20	58981208	58995133	1	q13.32
ENSG00000152939	-0.4341	-1.3511	0.0002	0.0012	MARVELD2	MARVEL domain protein_co	5	69415112	69444330	1	q13.2
ENSG00000102225	-0.4345	-1.3515	0.0009	0.0037	CDK16	cyclin-dependent protein_co X		47217860	47229997	1	p11.3
ENSG00000165152	-0.435	-1.3519	0.0035	0.0122	TMEM246	transmembrane protein_co	9	1.01E+08	1.02E+08	-1	q31.1
ENSG0000010017	-0.4351	-1.352	7.11E-05	0.0004	RANBP9	RAN binding protein_co	6	13621498	13711564	-1	p23
ENSG00000105127	-0.4353	-1.3522	4.39E-05	0.0003	AKAP8	A kinase (P) protein_co	19	15353385	15379798	-1	p13.12
ENSG00000141542	-0.4353	-1.3522	0.0033	0.0117	RAB40B	RAB40B, membrane protein_co	17	82654973	82698728	-1	q25.3
ENSG00000178074	-0.4356	-1.3525	0.005	0.0168	C2orf69	chromosome protein_co	2	2E+08	2E+08	1	q33.1
ENSG00000119414	-0.4361	-1.353	3.94E-06	2.98E-05	PPP6C	protein phosphatase protein_co	9	1.25E+08	1.25E+08	-1	q33.3

ENSG00000139998	-0.4366	-1.3534	0.0054	0.0177 RAB15	RAB15, me protein_co	14	64945814	64972776	-1	q23.3
ENSG00000185015	-0.4367	-1.3535	0.001	0.0043 CA13	carbonic anhydrase protein_co	8	85220587	85284073	1	q21.2
ENSG00000005889	-0.4368	-1.3536	6.61E-14	3.02E-12 ZFX	zinc finger protein_co X		24149173	24216255	1	p22.11
ENSG00000134086	-0.4369	-1.3537	1.80E-05	0.0001 VHL	von Hippel-Lindau protein_co	3	10141008	10152220	1	p25.3
ENSG00000011258	-0.437	-1.3537	0.0012	0.0049 MBTD1	mbt domain protein_co	17	51177425	51260163	-1	q21.33
ENSG00000168672	-0.437	-1.3538	0.0002	0.0011 FAM84B	family with sequence similarity 84B protein_co	8	1.27E+08	1.27E+08	-1	q24.21
ENSG00000185716	-0.4375	-1.3543	0.0103	0.0309 C16orf52	chromosome 16 open reading frame 52 protein_co	16	22007638	22087534	1	p12.2
ENSG00000115486	-0.4379	-1.3546	0.0003	0.0013 GG CX	gamma-glutamyl transaminase protein_co	2	85544723	85561547	-1	p11.2
ENSG00000182704	-0.438	-1.3547	0.0069	0.0219 TSKU	tsukushi, signal transducer protein_co	11	76782251	76798154	1	q13.5
ENSG00000171940	-0.438	-1.3548	2.17E-06	1.73E-05 ZNF217	zinc finger protein_co	20	53567065	53609907	-1	q13.2
ENSG00000157600	-0.4384	-1.3551	0.0005	0.0024 TMEM164	transmembrane protein_co X		1.1E+08	1.1E+08	1	q23
ENSG00000104413	-0.4391	-1.3558	4.80E-07	4.48E-06 ESRP1	epithelial splicing regulatory protein_co	8	94641074	94707466	1	q22.1
ENSG00000170265	-0.4393	-1.356	0.0011	0.0044 ZNF282	zinc finger protein_co	7	1.49E+08	1.49E+08	1	q36.1
ENSG00000061936	-0.4395	-1.3561	0.0004	0.002 SFSWAP	splicing factor protein_co	12	1.32E+08	1.32E+08	1	q24.33
ENSG00000177225	-0.4399	-1.3565	4.90E-05	0.0003 PDDC1	Parkinson domain containing protein_co	11	767220	777488	-1	p15.5
ENSG00000204946	-0.4404	-1.3569	0.0128	0.0372 ZNF783	zinc finger protein_co	7	1.49E+08	1.49E+08	1	q36.1
ENSG00000130204	-0.4405	-1.357	8.18E-06	5.81E-05 TOMM40	translocase protein_co	19	44890569	44903689	1	q13.32
ENSG00000059122	-0.4409	-1.3575	0.0039	0.0135 FLYWCH1	FLYWCH-tyrosine phosphatase protein_co	16	2911937	2951208	1	p13.3
ENSG00000125107	-0.4414	-1.358	0.0002	0.0009 CNOT1	CCR4-NOT complex protein_co	16	58519951	58629886	-1	q21
ENSG00000144231	-0.4419	-1.3584	0.0031	0.0111 POLR2D	polymerase II protein_co	2	1.28E+08	1.28E+08	-1	q14.3
ENSG00000105483	-0.442	-1.3585	4.72E-05	0.0003 CARD8	caspase recruitment protein_co	19	48180770	48255946	-1	q13.33
ENSG00000161533	-0.442	-1.3585	0.0003	0.0013 ACOX1	acyl-CoA oxidase protein_co	17	75941507	75979363	-1	q25.1
ENSG00000164828	-0.4426	-1.3591	0.0001	0.0006 SUN1	Sad1 and Ubr1 protein_co	7	816615	896435	1	p22.3
ENSG00000163694	-0.4428	-1.3592	0.0002	0.0008 RBM47	RNA binding protein_co	4	40423267	40630875	-1	p14
ENSG00000268858	-0.443	-1.3594	0.013	0.0376 RP4-591C20.9	antisense	20	63861212	63864293	-1	q13.33
ENSG00000159592	-0.4432	-1.3596	7.88E-07	7.03E-06 GPBP1L1	GC-rich pre-mRNA binding protein_co	1	45627304	45688113	-1	p34.1
ENSG00000113649	-0.4434	-1.3598	8.29E-06	5.89E-05 TCERG1	transcript elongation factor protein_co	5	1.46E+08	1.47E+08	1	q32
ENSG00000188976	-0.4437	-1.36	3.19E-06	2.46E-05 NOC2L	nucleolar cap protein_co	1	944204	959309	-1	p36.33
ENSG00000204310	-0.4439	-1.3603	1.90E-05	0.0001 AGPAT1	1-acylglycerol phosphate transferase protein_co	6	32168212	32178096	-1	p21.32
ENSG00000100099	-0.444	-1.3604	0.0005	0.0024 HPS4	Hermansky-Pudlak syndrome 4 protein_co	22	26443423	26483837	-1	q12.1
ENSG00000160218	-0.4443	-1.3606	1.09E-05	7.53E-05 TRAPPC10	trafficking protein complex component 10 protein_co	21	44012319	44106552	1	q22.3
ENSG00000123091	-0.4442	-1.3606	0.0007	0.0031 RNF11	ring finger protein_co	1	51236271	51273455	1	p32.3
ENSG00000153989	-0.4446	-1.3609	3.84E-05	0.0002 NUS1	nuclear cap binding protein_co	6	1.18E+08	1.18E+08	1	q22.1
ENSG00000187079	-0.4445	-1.3609	0.0005	0.0025 TEAD1	TEA domain protein_co	11	12674591	12944483	1	p15.3
ENSG00000077147	-0.4448	-1.3611	0.0001	0.0006 TM9SF3	transmembrane protein_co	10	96518109	96587452	-1	q24.1
ENSG00000068120	-0.4449	-1.3612	0.0014	0.0055 COASY	CoA synthase protein_co	17	42561467	42566277	1	q21.2
ENSG00000186591	-0.445	-1.3613	0.0009	0.0038 UBE2H	ubiquitin-conjugating enzyme protein_co	7	1.3E+08	1.3E+08	-1	q32.2



ENSG00000131584	-0.445	-1.3613	0.0044	0.0151 ACAP3	ArfGAP wit protein_co	1	1292376	1309609	-1 p36.33
ENSG00000196715	-0.4453	-1.3616	2.89E-05	0.0002 VKORC1L1	vitamin K e protein_co	7	65873267	65959563	1 q11.21
ENSG00000174206	-0.4454	-1.3616	0.0179	0.0491 C12orf66	chromoson protein_co	12	64186316	64222296	-1 q14.2
ENSG00000158941	-0.4458	-1.3621	0.0002	0.0008 CCAR2	cell cycle ai protein_co	8	22604632	22621514	1 p21.3
ENSG00000140199	-0.4459	-1.3621	0.0003	0.0014 SLC12A6	solute carri protein_co	15	34229996	34338060	-1 q14
ENSG00000158636	-0.446	-1.3623	0.0012	0.0048 C11orf30	chromoson protein_co	11	76444923	76553025	1 q13.5
ENSG00000134954	-0.4461	-1.3623	0.005	0.0168 ETS1	v-ets avian protein_co	11	1.28E+08	1.29E+08	-1 q24.3
ENSG00000135392	-0.4461	-1.3624	0.0001	0.0006 DNAJC14	DnaJ (Hsp4 protein_co	12	55820960	55830824	-1 q13.2
ENSG00000134897	-0.4463	-1.3625	0.0004	0.0017 BIVM	basic, imm protein_co	13	1.03E+08	1.03E+08	1 q33.1
ENSG00000074964	-0.4463	-1.3626	0.0012	0.0049 ARHGEF10L	Rho guanin protein_co	1	17539835	17697874	1 p36.13
ENSG00000174996	-0.4463	-1.3626	0.003	0.0108 KLC2	kinesin ligh protein_co	11	66257294	66267860	1 q13.2
ENSG00000198252	-0.4465	-1.3627	5.90E-05	0.0003 STYX	serine/thre protein_co	14	52730180	52774998	1 q22.1
ENSG00000137269	-0.4466	-1.3628	1.28E-06	1.09E-05 LRRC1	leucine ricf protein_co	6	53794497	53924121	1 p12.1
ENSG00000224531	-0.4468	-1.363	0.004	0.0137 SMIM13	small integ protein_co	6	11094033	11138733	1 p24.2
ENSG00000120913	-0.4469	-1.3631	0.0134	0.0386 PDLIM2	PDZ and LII protein_co	8	22578279	22598025	1 p21.3
ENSG00000130522	-0.4471	-1.3633	9.18E-05	0.0005 JUND	jun D protc protein_co	19	18279760	18281622	-1 p13.11
ENSG00000131507	-0.4474	-1.3636	1.10E-08	1.50E-07 NDFIP1	Nedd4 fam protein_co	5	1.42E+08	1.42E+08	1 q31.3
ENSG00000105855	-0.4474	-1.3636	0.0075	0.0237 ITGB8	integrin, bε protein_co	7	20330702	20415754	1 p21.1
ENSG00000185024	-0.4478	-1.3639	0.0008	0.0034 BRF1	BRF1, RNA protein_co	14	1.05E+08	1.05E+08	-1 q32.33
ENSG00000183751	-0.4479	-1.364	7.91E-05	0.0004 TBL3	transducin protein_co	16	1972037	1982933	1 p13.3
ENSG00000006704	-0.4481	-1.3642	0.0001	0.0007 GTF2IRD1	GTF2I repe protein_co	7	74453790	74602604	1 q11.23
ENSG00000135749	-0.4481	-1.3643	0.0029	0.0106 PCNXL2	pecanex-lik protein_co	1	2.33E+08	2.33E+08	-1 q42.2
ENSG00000182872	-0.4482	-1.3644	0.0003	0.0016 RBM10	RNA bindin protein_co X		47144869	47186813	1 p11.3
ENSG00000132471	-0.4485	-1.3646	0.0015	0.006 WBP2	WW domai protein_co	17	75845699	75856507	-1 q25.1
ENSG00000248175	-0.4487	-1.3649	0.0097	0.0293 CTC-428G20.3	lincRNA	5	1.15E+08	1.15E+08	-1 q22.3
ENSG00000185252	-0.4491	-1.3651	0.0091	0.0279 ZNF74	zinc finger protein_co	22	20394115	20408461	1 q11.21
ENSG00000106714	-0.4493	-1.3654	0.0002	0.0011 CNTNAP3	contactin a protein_co	9	39072767	39288315	-1 p12
ENSG00000132153	-0.4495	-1.3655	9.22E-05	0.0005 DHX30	DEAH (Asp. protein_co	3	47802909	47850195	1 p21.31
ENSG00000145495	-0.4496	-1.3656	2.65E-08	3.30E-07 MARCH6	membrane protein_co	5	10353703	10440388	1 p15.2
ENSG00000164442	-0.4495	-1.3656	0.0008	0.0036 CITED2	Cbp/p300-i protein_co	6	1.39E+08	1.39E+08	-1 q24.1
ENSG00000131370	-0.45	-1.3661	0.0022	0.0084 SH3BP5	SH3-domai protein_co	3	15254853	15341368	-1 p25.1
ENSG00000101079	-0.4503	-1.3663	5.21E-05	0.0003 NDRG3	NDRG fami protein_co	20	36651766	36746078	-1 q11.23
ENSG00000142039	-0.4503	-1.3664	0.0003	0.0015 CCDC97	coiled-coil protein_co	19	41310189	41324883	1 q13.2
ENSG00000105866	-0.4508	-1.3668	0.0127	0.0371 SP4	Sp4 transcr protein_co	7	21428034	21514822	1 p15.3
ENSG00000257103	-0.451	-1.3669	8.18E-08	9.16E-07 LSM14A	LSM14A, St protein_co	19	34172504	34229515	1 q13.11
ENSG00000196943	-0.4509	-1.3669	3.34E-05	0.0002 NOP9	NOP9 nucl protein_co	14	24299862	24309124	1 q12
ENSG00000152620	-0.4516	-1.3676	0.0001	0.0008 NADK2	NAD kinase protein_co	5	36192592	36242279	-1 p13.2

ENSG00000102804	-0.4518	-1.3678	0.0005	0.0024 TSC22D1	TSC22 dom protein_co	13	44432143	44577147	-1	q14.11
ENSG00000150054	-0.452	-1.368	0.0004	0.0017 MPP7	membrane protein_co	10	28050993	28334486	-1	p12.1
ENSG00000178719	-0.4523	-1.3682	0.0028	0.0103 GRINA	glutamate protein_co	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000101966	-0.4524	-1.3683	7.89E-06	5.63E-05 XIAP	X-linked inl protein_co X		1.24E+08	1.24E+08	1	q25
ENSG00000160877	-0.4526	-1.3685	7.24E-05	0.0004 NACC1	nucleus acc protein_co	19	13118103	13141141	1	p13.13
ENSG00000179163	-0.4526	-1.3685	0.0023	0.0087 FUCA1	fucosidase, protein_co	1	23845077	23868294	-1	p36.11
ENSG00000128191	-0.4527	-1.3686	2.56E-05	0.0002 DGCR8	DGCR8 mic protein_co	22	20080232	20111877	1	q11.21
ENSG00000160087	-0.4527	-1.3686	0.0004	0.0017 UBE2J2	ubiquitin-c protein_co	1	1253909	1273885	-1	p36.33
ENSG00000100307	-0.4527	-1.3686	0.0014	0.0055 CBX7	chromobox protein_co	22	39120167	39152674	-1	q13.1
ENSG00000179222	-0.4527	-1.3686	0.0058	0.0188 MAGED1	melanoma protein_co X		51803007	51902357	1	p11.22
ENSG00000204351	-0.4528	-1.3687	0.0007	0.003 SKIV2L	superkiller protein_co	6	31959080	31969755	1	p21.33
ENSG00000131381	-0.453	-1.3689	1.17E-05	8.02E-05 ZFYVE20	zinc finger, protein_co	3	15070073	15099163	-1	p25.1
ENSG00000125746	-0.4533	-1.3692	0.0133	0.0386 EML2	echinoderr protein_co	19	45606994	45645629	-1	q13.32
ENSG00000205808	-0.4535	-1.3694	0.0153	0.0432 PPAPDC2	phosphatic protein_co	9	4662315	4665258	1	p24.1
ENSG00000116747	-0.4542	-1.37	7.50E-05	0.0004 TROVE2	TROVE don protein_co	1	1.93E+08	1.93E+08	1	q31.2
ENSG00000080802	-0.4546	-1.3704	0.0003	0.0014 CNOT4	CCR4-NOT protein_co	7	1.35E+08	1.36E+08	-1	q33
ENSG00000141699	-0.4551	-1.3709	6.56E-05	0.0004 FAM134C	family with protein_co	17	42579513	42610623	-1	q21.2
ENSG00000269905	-0.4551	-1.3709	8.49E-05	0.0005 TFDP2	transcriptic protein_co	3	1.42E+08	1.42E+08	-1	q23
ENSG00000164010	-0.4552	-1.371	0.0003	0.0013 ERMAP	erythrobla: protein_co	1	42817124	42844989	1	p34.2
ENSG00000101935	-0.4557	-1.3715	6.21E-07	5.67E-06 AMMECR1	Alport sync protein_co X		1.1E+08	1.1E+08	-1	q23
ENSG00000070882	-0.4558	-1.3715	0.0015	0.0061 OSBPL3	oxysterol b protein_co	7	24796539	24981634	-1	p15.3
ENSG00000135801	-0.4559	-1.3716	0.0002	0.001 TAF5L	TAF5-like R protein_co	1	2.3E+08	2.3E+08	-1	q42.13
ENSG00000068354	-0.456	-1.3717	0.0002	0.0012 TBC1D25	TBC1 dom: protein_co X		48539457	48562609	1	p11.23
ENSG00000116871	-0.4561	-1.3719	0.0127	0.037 MAP7D1	MAP7 dom protein_co	1	36155579	36180849	1	p34.3
ENSG00000130299	-0.4562	-1.372	0.0093	0.0283 GTPBP3	GTP bindin protein_co	19	17334920	17342735	1	p13.11
ENSG00000136830	-0.4564	-1.3721	7.21E-08	8.16E-07 FAM129B	family with protein_co	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000145349	-0.4565	-1.3722	0.0046	0.0154 CAMK2D	calcium/ca protein_co	4	1.13E+08	1.14E+08	-1	q26
ENSG00000170027	-0.4572	-1.3728	0.0023	0.0086 YWHAG	tyrosine 3-i protein_co	7	76326794	76359031	-1	q11.23
ENSG00000125505	-0.4573	-1.373	0.0113	0.0334 MBOAT7	membrane protein_co	19	54173412	54189882	-1	q13.42
ENSG00000131037	-0.4574	-1.3731	4.63E-05	0.0003 EPS8L1	EPS8-like 1 protein_co	19	55072020	55087923	1	q13.42
ENSG00000078061	-0.4574	-1.3731	0.0014	0.0057 ARAF	A-Raf protc protein_co X		47561100	47571920	1	p11.3
ENSG00000128607	-0.4579	-1.3735	7.81E-08	8.80E-07 KLHDC10	kelch dom: protein_co	7	1.3E+08	1.3E+08	1	q32.2
ENSG00000129932	-0.4579	-1.3736	0.0107	0.032 DOHH	deoxyhypu protein_co	19	3490821	3500940	-1	p13.3
ENSG00000198162	-0.4584	-1.374	4.09E-13	1.54E-11 MAN1A2	mannosida protein_co	1	1.17E+08	1.18E+08	1	p12
ENSG00000189060	-0.4586	-1.3742	0.0011	0.0046 H1FO	H1 histone protein_co	22	37805093	37807436	1	q13.1
ENSG00000196586	-0.4587	-1.3743	3.10E-09	4.75E-08 MYO6	myosin VI [ protein_co	6	75749192	75919537	1	q14.1
ENSG00000105298	-0.4587	-1.3743	0.0003	0.0015 CACTIN	cactin, splir protein_co	19	3610641	3626815	-1	p13.3

ENSG00000110917	-0.459	-1.3746	0.001	0.0043 MLEC	malectin [S protein_co	12	1.21E+08	1.21E+08	1 q24.31
ENSG00000213676	-0.4595	-1.3751	3.22E-06	2.48E-05 ATF6B	activating t protein_co	6	32098176	32128253	-1 p21.32
ENSG00000070018	-0.4595	-1.3751	0.0004	0.002 LRP6	low density protein_co	12	12116025	12267012	-1 p13.2
ENSG00000100796	-0.4597	-1.3753	6.00E-09	8.73E-08 SMEK1	SMEK hom protein_co	14	91457611	91510554	-1 q32.12
ENSG00000259673	-0.4603	-1.3759	0.0084	0.0261 IQCH-AS1	IQCH antisense lincRNA	15	67403619	67521844	-1 q23
ENSG00000143507	-0.461	-1.3765	0.0026	0.0095 DUSP10	dual specific protein_co	1	2.22E+08	2.22E+08	-1 q41
ENSG00000077312	-0.4621	-1.3775	0.0019	0.0073 SNRPA	small nucle protein_co	19	40750637	40765389	1 q13.2
ENSG00000183955	-0.4622	-1.3777	5.02E-05	0.0003 SETD8	SET domain protein_co	12	1.23E+08	1.23E+08	1 q24.31
ENSG00000173681	-0.4626	-1.378	0.0001	0.0006 CXorf23	chromosome protein_co X		19912860	19970298	-1 p22.12
ENSG00000170100	-0.4634	-1.3788	0.0113	0.0334 ZNF778	zinc finger protein_co	16	89217703	89237071	1 q24.3
ENSG00000215114	-0.4637	-1.3791	4.86E-07	4.54E-06 UBXN2B	UBX domain protein_co	8	58411264	58451501	1 q12.1
ENSG00000198218	-0.4639	-1.3793	1.32E-06	1.12E-05 QRICH1	glutamine- protein_co	3	49029707	49094363	-1 p21.31
ENSG00000174738	-0.464	-1.3794	7.33E-05	0.0004 NR1D2	nuclear rec protein_co	3	23945260	23980618	1 p24.2
ENSG00000157500	-0.4643	-1.3796	1.85E-05	0.0001 APPL1	adaptor protein protein_co	3	57227737	57273468	1 p14.3
ENSG00000196440	-0.4648	-1.3801	0.0159	0.0446 ARMCX4	armadillo protein_co X		1.01E+08	1.02E+08	1 q22.1
ENSG00000001461	-0.4649	-1.3803	0.0004	0.002 NIPAL3	NIPA-like domain protein_co	1	24415794	24472976	1 p36.11
ENSG00000163293	-0.4656	-1.3809	0.0036	0.0124 NIPAL1	NIPA-like domain protein_co	4	47914142	48040173	1 p12
ENSG00000074054	-0.4658	-1.381	0.0155	0.0436 CLASP1	cytoplasmic protein_co	2	1.21E+08	1.22E+08	-1 q14.3
ENSG00000005882	-0.4664	-1.3816	0.0003	0.0014 PDK2	pyruvate domain protein_co	17	50094737	50112152	1 q21.33
ENSG00000164050	-0.4665	-1.3817	3.46E-05	0.0002 PLXNB1	plexin B1 [S protein_co	3	48403854	48430051	-1 p21.31
ENSG00000116786	-0.4666	-1.3819	0.0014	0.0054 PLEKHM2	pleckstrin homology protein_co	1	15684332	15734769	1 p36.21
ENSG00000177565	-0.4668	-1.382	0.0014	0.0055 TBL1XR1	transducin protein_co	3	1.77E+08	1.77E+08	-1 q26.32
ENSG00000127948	-0.4669	-1.3822	0.0001	0.0007 POR	P450 (cytochrome) protein_co	7	75899200	75986855	1 q11.23
ENSG00000116350	-0.4669	-1.3822	0.0002	0.0011 SRSF4	serine/arginine protein_co	1	29147743	29181987	-1 p35.3
ENSG00000062485	-0.4673	-1.3825	1.26E-05	8.57E-05 CS	citrate synthase protein_co	12	56271699	56300392	-1 q13.3
ENSG00000116337	-0.4673	-1.3825	0.0064	0.0206 AMPD2	adenosine protein_co	1	1.1E+08	1.1E+08	1 p13.3
ENSG00000215421	-0.4674	-1.3827	1.37E-06	1.16E-05 ZNF407	zinc finger protein_co	18	74597870	75065671	1 q22.3
ENSG00000164091	-0.4675	-1.3827	6.92E-06	5.00E-05 WDR82	WD repeat protein_co	3	52254421	52288020	-1 p21.2
ENSG00000120696	-0.4675	-1.3827	5.64E-05	0.0003 KBTBD7	kelch repeat protein_co	13	41189833	41194566	-1 q14.11
ENSG00000271383	-0.4674	-1.3827	0.0026	0.0096 NBPFL4	neuroblast protein_co	1	1.49E+08	1.5E+08	1 q21.2
ENSG00000119574	-0.4679	-1.3831	0.004	0.0136 ZBTB45	zinc finger protein_co	19	58513530	58538911	-1 q13.43
ENSG00000116138	-0.468	-1.3832	9.08E-07	7.99E-06 DNAJC16	DnaJ (Hsp40) protein_co	1	15526813	15592379	1 p36.21
ENSG00000092098	-0.4682	-1.3834	0.0017	0.0066 RNF31	ring finger protein_co	14	24146683	24160661	1 q12
ENSG00000136213	-0.4684	-1.3835	0.0009	0.0038 CHST12	carbohydrate protein_co	7	2403560	2434607	1 p22.3
ENSG00000197111	-0.4688	-1.3839	8.02E-07	7.14E-06 PCBP2	poly(rC) binding protein_co	12	53452102	53481162	1 q13.13
ENSG00000119242	-0.469	-1.3842	0.0027	0.0099 CCDC92	coiled-coil protein_co	12	1.24E+08	1.24E+08	-1 q24.31
ENSG00000181467	-0.4691	-1.3842	0.0168	0.0467 RAP2B	RAP2B, membrane protein_co	3	1.53E+08	1.53E+08	1 q25.2

ENSG00000124198	-0.47	-1.3851	1.65E-09	2.66E-08	ARFGEF2	ADP-ribosy protein_co	20	48921890	49036693	1	q13.13
ENSG00000242086	-0.4701	-1.3852	0.0121	0.0355	LINC00969	long interg lincRNA	3	1.96E+08	1.96E+08	1	q29
ENSG00000113645	-0.4702	-1.3853	0.0001	0.0006	WWC1	WW and C:protein_co	5	1.68E+08	1.68E+08	1	q34
ENSG00000266028	-0.4707	-1.3858	0.001	0.0042	SRGAP2	SLIT-ROBO protein_co	1	2.06E+08	2.06E+08	1	q32.1
ENSG00000111602	-0.4707	-1.3858	0.0035	0.0123	TIMELESS	timeless cir protein_co	12	56416373	56449403	-1	q13.3
ENSG00000108819	-0.4711	-1.3862	4.38E-06	3.29E-05	PPP1R9B	protein phr protein_co	17	50133735	50150630	-1	q21.33
ENSG00000099219	-0.4714	-1.3865	9.51E-05	0.0005	ERMP1	endoplasm protein_co	9	5765076	5833117	-1	p24.1
ENSG00000112531	-0.4717	-1.3868	0.0014	0.0057	QKI	QKI, KH do protein_co	6	1.63E+08	1.64E+08	1	q26
ENSG00000144357	-0.472	-1.387	1.07E-08	1.47E-07	UBR3	ubiquitin p protein_co	2	1.7E+08	1.7E+08	1	q31.1
ENSG00000114978	-0.4723	-1.3874	4.15E-09	6.20E-08	MOB1A	MOB kinas protein_co	2	74152528	74178898	-1	p13.1
ENSG00000115207	-0.4724	-1.3874	1.11E-05	7.68E-05	GTF3C2	general tra protein_co	2	27325849	27357034	-1	p23.3
ENSG00000198492	-0.4725	-1.3875	1.59E-07	1.66E-06	YTHDF2	YTH domai protein_co	1	28736621	28769775	1	p35.3
ENSG00000103226	-0.4727	-1.3877	0.0097	0.0295	NOMO3	NODAL mo protein_co	16	16232495	16294814	1	p13.11
ENSG00000177873	-0.4728	-1.3878	0.0136	0.0391	ZNF619	zinc finger protein_co	3	40477113	40490236	1	p22.1
ENSG00000164048	-0.4731	-1.3881	0.0171	0.0473	ZNF589	zinc finger protein_co	3	48241100	48299253	1	p21.31
ENSG00000187257	-0.4732	-1.3882	1.15E-05	7.92E-05	RSBN1L	round sper protein_co	7	77696443	77783022	1	q11.23
ENSG00000168246	-0.4735	-1.3885	1.00E-06	8.72E-06	UBTD2	ubiquitin d protein_co	5	1.72E+08	1.72E+08	-1	q35.1
ENSG00000103549	-0.4736	-1.3886	1.40E-05	9.43E-05	RNF40	ring finger protein_co	16	30761745	30776307	1	p11.2
ENSG00000130762	-0.4741	-1.389	0.0013	0.0053	ARHGEF16	Rho guanin protein_co	1	3454426	3481113	1	p36.32
ENSG00000122126	-0.4746	-1.3895	5.87E-06	4.30E-05	OCRL	oculocereb protein_co X		1.3E+08	1.3E+08	1	q26.1
ENSG00000205765	-0.4747	-1.3896	3.95E-05	0.0002	C5orf51	chromoson protein_co	5	41904188	41921636	1	p13.1
ENSG00000104976	-0.4747	-1.3896	0.0097	0.0295	SNAPC2	small nucle protein_co	19	7920316	7923250	1	p13.2
ENSG00000248333	-0.4749	-1.3898	6.68E-06	4.85E-05	CDK11B	cyclin-depe protein_co	1	1635227	1722818	-1	p36.33
ENSG00000100625	-0.4749	-1.3898	0.0004	0.0017	SIX4	SIX homeol protein_co	14	60709528	60724348	-1	q23.1
ENSG00000100023	-0.4754	-1.3903	7.45E-06	5.35E-05	PPIL2	peptidylprc protein_co	22	21652270	21700015	1	q11.21
ENSG00000112701	-0.4756	-1.3905	1.12E-07	1.21E-06	SENP6	SUMO1/se protein_co	6	75601509	75718278	1	q14.1
ENSG00000177383	-0.4759	-1.3908	5.49E-05	0.0003	MAGEF1	melanoma protein_co	3	1.85E+08	1.85E+08	-1	q27.1
ENSG00000100376	-0.4759	-1.3908	0.0017	0.0065	FAM118A	family with protein_co	22	45308968	45341955	1	q13.31
ENSG00000100321	-0.476	-1.3909	0.0016	0.0062	SYNGR1	synaptogyr protein_co	22	39349925	39385588	1	q13.1
ENSG00000101544	-0.4765	-1.3913	1.61E-05	0.0001	ADNP2	ADNP hom protein_co	18	80109031	80147523	1	q23
ENSG00000167110	-0.4764	-1.3913	7.03E-05	0.0004	GOLGA2	golgin A2 [:protein_co	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000100320	-0.477	-1.3919	9.98E-06	6.97E-05	RBFOX2	RNA bindin protein_co	22	35738736	36028425	-1	q12.3
ENSG00000118762	-0.4774	-1.3923	0.0095	0.029	PKD2	polycystic t protein_co	4	88007668	88077777	1	q22.1
ENSG00000198363	-0.4778	-1.3926	0.0121	0.0355	ASPH	aspartate t protein_co	8	61500556	61714640	-1	q12.3
ENSG00000109062	-0.4787	-1.3935	0.0001	0.0007	SLC9A3R1	solute carri protein_co	17	74748652	74769353	1	q25.1
ENSG00000185019	-0.479	-1.3938	0.0062	0.02	UBOX5	U-box dom protein_co	20	3107573	3160196	-1	p13
ENSG00000106609	-0.4796	-1.3944	1.62E-05	0.0001	TMEM248	transmemt protein_co	7	66921225	66958551	1	q11.21

ENSG00000172795	-0.4797	-1.3945	1.75E-05	0.0001 DCP2	decapping protein_co	5	1.13E+08	1.13E+08	1 q22.2
ENSG00000155974	-0.4797	-1.3945	0.0128	0.0372 GRIP1	glutamate protein_co	12	66347431	66804186	-1 q14.3
ENSG00000150712	-0.4801	-1.3948	0.0019	0.0073 MTMR12	myotubula protein_co	5	32226994	32313009	-1 p13.3
ENSG00000149499	-0.4805	-1.3953	6.78E-06	4.91E-05 EML3	echinoderr protein_co	11	62602218	62612765	-1 q12.3
ENSG00000154639	-0.4808	-1.3955	0.0006	0.0027 CXADR	coxsackie v protein_co	21	17512382	17593579	1 q21.1
ENSG00000204560	-0.4814	-1.3961	1.04E-06	9.01E-06 DHX16	DEAH (Asp. protein_co	6	30653119	30673037	-1 p21.33
ENSG00000151148	-0.4818	-1.3965	5.61E-07	5.17E-06 UBE3B	ubiquitin p protein_co	12	1.09E+08	1.1E+08	1 q24.11
ENSG00000090905	-0.4818	-1.3965	3.84E-06	2.92E-05 TNRC6A	trinucleotic protein_co	16	24729695	24827632	1 p12.1
ENSG00000119906	-0.4823	-1.397	8.48E-06	6.01E-05 FAM178A	family with protein_co	10	1.01E+08	1.01E+08	1 q24.31
ENSG00000175390	-0.4823	-1.397	0.0002	0.0008 EIF3F	eukaryotic protein_co	11	7970251	8001862	1 p15.4
ENSG00000163545	-0.4828	-1.3975	0.0037	0.0129 NUAQ2	NUAK fami protein_co	1	2.05E+08	2.05E+08	-1 q32.1
ENSG00000130764	-0.4834	-1.398	2.34E-08	2.95E-07 LRRC47	leucine rich protein_co	1	3778558	3796504	-1 p36.32
ENSG00000182858	-0.4833	-1.398	0.0038	0.0131 ALG12	ALG12, alpi protein_co	22	49900229	49918458	-1 q13.33
ENSG00000095585	-0.4836	-1.3982	0.0005	0.0022 BLNK	B-cell linke protein_co	10	96191702	96271587	-1 q24.1
ENSG00000111275	-0.4841	-1.3987	0.001	0.004 ALDH2	aldehyde d protein_co	12	1.12E+08	1.12E+08	1 q24.12
ENSG00000100441	-0.4842	-1.3988	4.03E-08	4.84E-07 KHNYN	KH and NYI protein_co	14	24429286	24441834	1 q12
ENSG00000075151	-0.4842	-1.3988	0.0001	0.0007 EIF4G3	eukaryotic protein_co	1	20806292	21176888	-1 p36.12
ENSG00000185122	-0.4842	-1.3988	0.0011	0.0045 HSF1	heat shock protein_co	8	1.44E+08	1.44E+08	1 q24.3
ENSG00000180008	-0.4846	-1.3992	2.48E-06	1.96E-05 SOCS4	suppressor protein_co	14	55027230	55049488	1 q22.3
ENSG00000146414	-0.4848	-1.3994	1.77E-05	0.0001 SHPRH	SNF2 histo protein_co	6	1.46E+08	1.46E+08	-1 q24.3
ENSG00000176105	-0.4853	-1.3999	6.20E-08	7.12E-07 YES1	YES proto-c protein_co	18	721588	812546	-1 p11.32
ENSG00000070159	-0.4859	-1.4005	0.0002	0.0008 PTPN3	protein tyr protein_co	9	1.09E+08	1.09E+08	-1 q31.3
ENSG00000175866	-0.4861	-1.4006	0.0176	0.0485 BAIAP2	BAI1-assoc protein_co	17	81035122	81117432	1 q25.3
ENSG00000025039	-0.4863	-1.4008	0.0042	0.0142 RRAGD	Ras-relatec protein_co	6	89364636	89412270	-1 q15
ENSG00000061987	-0.4867	-1.4012	7.86E-08	8.84E-07 MON2	MON2 hon protein_co	12	62466817	62600479	1 q14.1
ENSG00000130856	-0.4867	-1.4013	6.90E-05	0.0004 ZNF236	zinc finger protein_co	18	76822607	76970727	1 q23
ENSG00000231365	-0.4874	-1.402	0.0029	0.0106 RP11-418J17.1	antisense	1	1.19E+08	1.19E+08	1 p12
ENSG00000197928	-0.4875	-1.402	0.0159	0.0446 ZNF677	zinc finger protein_co	19	53235381	53254898	-1 q13.42
ENSG00000143093	-0.4876	-1.4021	9.31E-07	8.17E-06 STRIP1	striatin inte protein_co	1	1.1E+08	1.1E+08	1 p13.3
ENSG00000186432	-0.4875	-1.4021	1.78E-05	0.0001 KPNA4	karyopheri protein_co	3	1.6E+08	1.61E+08	-1 q25.33
ENSG00000204227	-0.4877	-1.4022	5.46E-06	4.03E-05 RING1	ring finger protein_co	6	33208495	33212722	1 p21.32
ENSG00000153560	-0.4883	-1.4027	5.75E-06	4.22E-05 UBP1	upstream t protein_co	3	33388336	33441371	-1 p22.3
ENSG00000080819	-0.4886	-1.4031	2.21E-06	1.76E-05 CPOX	coproporpl protein_co	3	98521132	98593723	-1 q11.2
ENSG00000184402	-0.489	-1.4035	9.95E-06	6.95E-05 SS18L1	synovial sa protein_co	20	62143795	62182484	1 q13.33
ENSG00000254087	-0.489	-1.4035	2.12E-05	0.0001 LYN	LYN proto-i protein_co	8	55879813	56011381	1 q12.1
ENSG00000105323	-0.4892	-1.4036	1.51E-05	0.0001 HNRNPUL1	heterogen protein_co	19	41262496	41307598	1 q13.2
ENSG00000143315	-0.4896	-1.4041	4.34E-06	3.26E-05 PIGM	phosphatic protein_co	1	1.6E+08	1.6E+08	-1 q23.2



ENSG00000185591	-0.4902	-1.4046	5.56E-06	4.09E-05 SP1	Sp1 transcr protein_co	12	53380176	53416446	1 q13.13
ENSG00000167962	-0.4904	-1.4049	4.42E-06	3.32E-05 ZNF598	zinc finger protein_co	16	1997654	2009823	-1 p13.3
ENSG00000103353	-0.491	-1.4054	4.92E-07	4.58E-06 UBFD1	ubiquitin fε protein_co	16	23557362	23574389	1 p12.2
ENSG00000081014	-0.4911	-1.4055	0.0029	0.0106 AP4E1	adaptor-re protein_co	15	50908672	51005900	1 q21.2
ENSG00000115306	-0.4912	-1.4056	0.0036	0.0124 SPTBN1	spectrin, b1 protein_co	2	54456285	54671445	1 p16.2
ENSG00000164663	-0.4912	-1.4056	0.0072	0.0228 USP49	ubiquitin s1 protein_co	6	41789896	41895361	-1 p21.1
ENSG00000072954	-0.4913	-1.4057	0.0006	0.0026 TMEM38A	transmem1 protein_co	19	16661127	16690029	1 p13.11
ENSG00000136720	-0.4914	-1.4058	0.0009	0.0037 HS6ST1	heparan su protein_co	2	1.28E+08	1.28E+08	-1 q14.3
ENSG00000173320	-0.4915	-1.4059	0.0024	0.0089 STOX2	storkhead l protein_co	4	1.84E+08	1.84E+08	1 q35.1
ENSG00000142687	-0.4916	-1.406	0.0009	0.0039 KIAA0319L	KIAA0319-l protein_co	1	35433490	35557950	-1 p34.3
ENSG00000070778	-0.492	-1.4063	0.0006	0.0027 PTPN21	protein tyr protein_co	14	88465778	88554733	-1 q31.3
ENSG00000196187	-0.492	-1.4064	0.0019	0.0074 TMEM63A	transmem1 protein_co	1	2.26E+08	2.26E+08	-1 q42.12
ENSG00000128159	-0.4922	-1.4066	0.0021	0.008 TUBGCP6	tubulin, gai protein_co	22	50217689	50244992	-1 q13.33
ENSG00000105732	-0.4923	-1.4066	0.0027	0.01 ZNF574	zinc finger protein_co	19	42068477	42081565	1 q13.2
ENSG00000123836	-0.4923	-1.4067	1.35E-07	1.44E-06 PFKFB2	6-phospho protein_co	1	2.07E+08	2.07E+08	1 q32.1
ENSG00000172046	-0.4925	-1.4069	0.0002	0.0011 USP19	ubiquitin s1 protein_co	3	49108046	49120938	-1 p21.31
ENSG00000213024	-0.4926	-1.407	3.15E-05	0.0002 NUP62	nucleopori protein_co	19	49906825	49929763	-1 q13.33
ENSG00000170604	-0.4928	-1.4072	0.0006	0.0027 IRF2BP1	interferon protein_co	19	45883607	45886170	-1 q13.32
ENSG00000152223	-0.493	-1.4074	4.24E-05	0.0003 EPG5	ectopic P-g protein_co	18	45847609	45967274	-1 q21.1
ENSG00000120278	-0.4931	-1.4075	5.84E-05	0.0003 PLEKHG1	pleckstrin l protein_co	6	1.51E+08	1.51E+08	1 q25.1
ENSG00000271122	-0.4933	-1.4077	0.0004	0.0018 RP11-379H18.1	antisense	7	35695214	35699413	1 p14.2
ENSG00000104936	-0.4935	-1.4078	0.0072	0.0227 DMPK	dystrophia protein_co	19	45769717	45782552	-1 q13.32
ENSG00000104946	-0.4936	-1.4079	0.0038	0.0133 TBC1D17	TBC1 doma protein_co	19	49877425	49888749	1 q13.33
ENSG00000033100	-0.4943	-1.4087	0.0091	0.0279 CHPF2	chondroitir protein_co	7	1.51E+08	1.51E+08	1 q36.1
ENSG00000164164	-0.4944	-1.4088	0.0001	0.0006 OTUD4	OTU deubi protein_co	4	1.45E+08	1.45E+08	-1 q31.21
ENSG00000139722	-0.4947	-1.409	3.01E-05	0.0002 VPS37B	vacuolar pr protein_co	12	1.23E+08	1.23E+08	-1 q24.31
ENSG00000165997	-0.4952	-1.4095	3.96E-05	0.0002 ARL5B	ADP-ribosy protein_co	10	18659405	18681639	1 p12.31
ENSG00000066117	-0.4961	-1.4104	0.0005	0.0021 SMARCD1	SWI/SNF rε protein_co	12	50084972	50100712	1 q13.12
ENSG00000086015	-0.4964	-1.4107	0.0017	0.0067 MAST2	microtubul protein_co	1	45786987	46036124	1 p34.1
ENSG00000068323	-0.4969	-1.4111	0.0021	0.008 TFE3	transcriptic protein_co X		49028726	49043486	-1 p11.23
ENSG00000178188	-0.4969	-1.4112	3.33E-05	0.0002 SH2B1	SH2B adap protein_co	16	28846600	28874212	1 p11.2
ENSG00000176087	-0.4973	-1.4116	0.0002	0.0011 SLC35A4	solute carri protein_co	5	1.41E+08	1.41E+08	1 q31.3
ENSG00000120162	-0.4976	-1.4118	0.0062	0.0201 MOB3B	MOB kinas protein_co	9	27325209	27529781	-1 p21.2
ENSG00000142867	-0.4981	-1.4124	1.80E-05	0.0001 BCL10	B-cell CLL/l protein_co	1	85266248	85277090	-1 p22.3
ENSG00000277161	-0.4983	-1.4126	0.0035	0.0123 PIGW	phosphatic protein_co	17	36535020	36539310	1 q12
ENSG00000138081	-0.4986	-1.4128	7.09E-06	5.11E-05 FBXO11	F-box prote protein_co	2	47789316	47905793	-1 p16.3
ENSG00000130787	-0.4988	-1.413	1.31E-06	1.11E-05 HIP1R	huntingtin protein_co	12	1.23E+08	1.23E+08	1 q24.31

ENSG00000153443	-0.4987	-1.413	0.002	0.0076 UBALD1	UBA-like d( protein_co	16	4608883	4615027	-1 p13.3
ENSG00000197056	-0.499	-1.4133	0.0016	0.0063 ZMYM1	zinc finger, protein_co	1	35059786	35115859	1 p34.3
ENSG00000160193	-0.4992	-1.4134	0.0031	0.011 WDR4	WD repeat protein_co	21	42843094	42879568	-1 q22.3
ENSG00000130304	-0.4991	-1.4134	0.0077	0.0242 SLC27A1	solute carri protein_co	19	17468769	17506168	1 p13.11
ENSG00000164086	-0.4991	-1.4134	0.0113	0.0334 DUSP7	dual specif protein_co	3	52048919	52056550	-1 p21.2
ENSG00000189067	-0.4994	-1.4137	0.0013	0.0053 LITAF	lipopolysac protein_co	16	11547722	11636381	-1 p13.13
ENSG00000084652	-0.5003	-1.4145	2.80E-07	2.76E-06 TXLNA	taxilin alph protein_co	1	32179686	32198285	1 p35.2
ENSG00000068724	-0.5005	-1.4147	3.68E-05	0.0002 TTC7A	tetratricop protein_co	2	46916157	47076137	1 p21
ENSG00000155111	-0.5006	-1.4148	1.48E-05	9.92E-05 CDK19	cyclin-depe protein_co	6	1.11E+08	1.11E+08	-1 q21
ENSG00000100580	-0.5007	-1.4149	1.18E-07	1.27E-06 TMED8	transmemt protein_co	14	77335021	77377109	-1 q24.3
ENSG00000131899	-0.5008	-1.415	7.13E-05	0.0004 LLGL1	lethal giant protein_co	17	18225587	18244875	1 p11.2
ENSG00000110931	-0.5011	-1.4153	0.0005	0.0021 CAMKK2	calcium/ca protein_co	12	1.21E+08	1.21E+08	-1 q24.31
ENSG00000110721	-0.5017	-1.4159	6.79E-05	0.0004 CHKA	choline kin protein_co	11	68052859	68121444	-1 q13.2
ENSG00000163558	-0.5018	-1.416	5.82E-08	6.72E-07 PRKCI	protein kin protein_co	3	1.7E+08	1.7E+08	1 q26.2
ENSG00000149480	-0.5019	-1.4161	0.0004	0.0018 MTA2	metastasis protein_co	11	62593214	62601840	-1 q12.3
ENSG00000139437	-0.5019	-1.4161	0.0048	0.0161 TCHP	trichoplein protein_co	12	1.1E+08	1.1E+08	1 q24.11
ENSG00000133065	-0.5021	-1.4162	0.0012	0.0049 SLC41A1	solute carri protein_co	1	2.06E+08	2.06E+08	-1 q32.1
ENSG00000007168	-0.5024	-1.4166	9.50E-11	2.06E-09 PAFAH1B1	platelet-ac( protein_co	17	2593210	2685615	1 p13.3
ENSG00000108021	-0.5026	-1.4168	7.53E-08	8.51E-07 FAM208B	family with protein_co	10	5684838	5763740	1 p15.1
ENSG00000166224	-0.5027	-1.4168	4.03E-05	0.0002 SGPL1	sphingosin( protein_co	10	70815961	70881173	1 q22.1
ENSG00000205189	-0.5027	-1.4168	9.27E-05	0.0005 ZBTB10	zinc finger protein_co	8	80485619	80526265	1 q21.13
ENSG00000182979	-0.5028	-1.4169	1.74E-05	0.0001 MTA1	metastasis protein_co	14	1.05E+08	1.05E+08	1 q32.33
ENSG00000005483	-0.5032	-1.4173	3.83E-06	2.91E-05 KMT2E	lysine (K)-s protein_co	7	1.05E+08	1.05E+08	1 q22.3
ENSG00000196365	-0.5032	-1.4174	9.22E-05	0.0005 LONP1	lon peptid( protein_co	19	5691834	5720572	-1 p13.3
ENSG00000135679	-0.5034	-1.4176	4.44E-06	3.33E-05 MDM2	MDM2 pro protein_co	12	68808172	68850686	1 q15
ENSG00000079999	-0.5037	-1.4178	1.86E-08	2.38E-07 KEAP1	kelch-like E protein_co	19	10486120	10503741	-1 p13.2
ENSG00000092871	-0.5039	-1.418	0.0032	0.0115 RFFL	ring finger protein_co	17	35005990	35089319	-1 q12
ENSG00000173334	-0.504	-1.4181	0.0011	0.0046 TRIB1	tribbles ps( protein_co	8	1.25E+08	1.25E+08	1 q24.13
ENSG00000109534	-0.5043	-1.4184	4.33E-05	0.0003 GAR1	GAR1 ribor protein_co	4	1.1E+08	1.1E+08	1 q25
ENSG00000108439	-0.5045	-1.4186	3.87E-05	0.0002 PNPO	pyridoxami protein_co	17	47941506	47948288	1 q21.32
ENSG00000142166	-0.5045	-1.4187	6.17E-08	7.10E-07 IFNAR1	interferon protein_co	21	33324477	33359862	1 q22.11
ENSG00000146828	-0.5048	-1.4189	7.66E-06	5.49E-05 SLC12A9	solute carri protein_co	7	1.01E+08	1.01E+08	1 q22.1
ENSG00000197375	-0.5048	-1.4189	0.0001	0.0007 SLC22A5	solute carri protein_co	5	1.32E+08	1.32E+08	1 q31.1
ENSG00000107738	-0.5048	-1.4189	0.0005	0.0024 C10orf54	chromoson protein_co	10	71747559	71773498	-1 q22.1
ENSG00000272636	-0.5049	-1.419	0.0128	0.0372 DOC2B	double C2- protein_co	17	142789	181636	-1 p13.3
ENSG00000117984	-0.505	-1.4191	8.97E-05	0.0005 CTSD	cathepsin [( protein_co	11	1752752	1763992	-1 p15.5
ENSG00000174010	-0.5054	-1.4195	0.0005	0.0022 KLHL15	kelch-like f protein_co X		23983720	24027186	-1 p22.11

ENSG00000176986	-0.5055	-1.4196	0.0002	0.0012 SEC24C	SEC24 fami protein_co	10	73744384	73772161	1	q22.2
ENSG00000101945	-0.5055	-1.4196	0.013	0.0377 SUV39H1	suppressor protein_co X		48695554	48709012	1	p11.23
ENSG00000146834	-0.5063	-1.4204	0.0005	0.0022 MEPCE	methylpho protein_co	7	1E+08	1E+08	1	q22.1
ENSG00000065308	-0.5063	-1.4204	0.0147	0.0418 TRAM2	translocati protein_co	6	52497402	52576915	-1	p12.2
ENSG00000172292	-0.5068	-1.4209	5.79E-05	0.0003 CERS6	ceramide s protein_co	2	1.68E+08	1.69E+08	1	q24.3
ENSG00000154001	-0.5069	-1.421	6.81E-07	6.15E-06 PPP2R5E	protein ph protein_co	14	63371357	63543374	-1	q23.2
ENSG00000105778	-0.507	-1.4211	6.31E-09	9.15E-08 AVL9	AVL9 homc protein_co	7	32495426	32588721	1	p14.3
ENSG00000196850	-0.5072	-1.4213	6.07E-07	5.55E-06 PPTC7	PTC7 prote protein_co	12	1.11E+08	1.11E+08	-1	q24.11
ENSG00000147689	-0.5072	-1.4213	0.0032	0.0115 FAM83A	family with protein_co	8	1.23E+08	1.23E+08	1	q24.13
ENSG00000177683	-0.5074	-1.4215	0.0003	0.0016 THAP5	THAP dom: protein_co	7	1.09E+08	1.09E+08	-1	q31.1
ENSG00000091073	-0.5076	-1.4216	5.04E-05	0.0003 DTX2	deltex 2, E: protein_co	7	76461676	76505995	1	q11.23
ENSG00000009335	-0.5076	-1.4217	6.46E-06	4.71E-05 UBE3C	ubiquitin p protein_co	7	1.57E+08	1.57E+08	1	q36.3
ENSG00000070214	-0.508	-1.4221	9.91E-08	1.08E-06 SLC44A1	solute carri protein_co	9	1.05E+08	1.05E+08	1	q31.1
ENSG00000157240	-0.5081	-1.4222	0.0001	0.0006 FZD1	frizzled cla: protein_co	7	91264364	91271326	1	q21.13
ENSG00000050820	-0.5082	-1.4223	0.0061	0.0198 BCAR1	breast canc protein_co	16	75228187	75268053	-1	q23.1
ENSG00000129595	-0.5087	-1.4227	1.62E-09	2.62E-08 EPB41L4A	erythrocyt protein_co	5	1.12E+08	1.12E+08	-1	q22.2
ENSG00000122359	-0.5086	-1.4227	2.41E-05	0.0002 ANXA11	annexin A1 protein_co	10	80150889	80205572	-1	q22.3
ENSG00000165476	-0.5087	-1.4227	0.0019	0.0072 REEP3	receptor ac protein_co	10	63521363	63625123	1	q21.3
ENSG00000075426	-0.5092	-1.4233	0.0008	0.0033 FOSL2	FOS-like an protein_co	2	28392448	28417312	1	p23.2
ENSG00000011275	-0.5097	-1.4238	8.02E-07	7.14E-06 RNF216	ring finger protein_co	7	5620047	5781739	-1	p22.1
ENSG00000105063	-0.5099	-1.4239	0.0023	0.0085 PPP6R1	protein ph protein_co	19	55229780	55258995	-1	q13.42
ENSG00000139433	-0.5103	-1.4244	8.01E-05	0.0005 GLTP	glycolipid t protein_co	12	1.1E+08	1.1E+08	-1	q24.11
ENSG00000105991	-0.511	-1.425	0.0009	0.0037 HOXA1	homeobox protein_co	7	27092993	27095996	-1	p15.2
ENSG00000134575	-0.5117	-1.4257	0.0008	0.0034 ACP2	acid phosp protein_co	11	47239302	47248906	-1	p11.2
ENSG00000157110	-0.5118	-1.4258	0.0001	0.0006 RBPMS	RNA bindin protein_co	8	30384479	30572261	1	p12
ENSG00000166398	-0.5118	-1.4258	0.0001	0.0006 KIAA0355	KIAA0355 [ protein_co	19	34254537	34355586	1	q13.11
ENSG00000119777	-0.5118	-1.4259	0.0003	0.0015 TMEM214	transmemt protein_co	2	27032910	27041695	1	p23.3
ENSG00000075407	-0.5121	-1.4262	0.0001	0.0006 ZNF37A	zinc finger protein_co	10	38094336	38125544	1	p11.1
ENSG00000213588	-0.5122	-1.4263	0.0037	0.0127 ZBTB9	zinc finger protein_co	6	33453970	33457548	1	p21.32
ENSG00000141458	-0.5123	-1.4263	0.0075	0.0237 NPC1	Niemann-P protein_co	18	23506184	23586898	-1	q11.2
ENSG00000105438	-0.5125	-1.4265	3.45E-05	0.0002 KDELR1	KDEL (Lys-/ protein_co	19	48382570	48391553	-1	q13.33
ENSG00000154945	-0.5125	-1.4265	9.47E-05	0.0005 ANKRD40	ankyrin re protein_co	17	50693190	50707924	-1	q21.33
ENSG00000088280	-0.5124	-1.4265	0.0064	0.0206 ASAP3	ArfGAP wit protein_co	1	23428563	23484568	-1	p36.12
ENSG00000125912	-0.5126	-1.4266	0.0115	0.034 NCLN	nicalin [So protein_co	19	3185563	3209575	1	p13.3
ENSG00000107104	-0.5126	-1.4267	8.05E-07	7.16E-06 KANK1	KN motif ai protein_co	9	470291	746106	1	p24.3
ENSG00000117036	-0.5127	-1.4268	9.67E-09	1.34E-07 ETV3	ets variant protein_co	1	1.57E+08	1.57E+08	-1	q23.1
ENSG00000177425	-0.5129	-1.4269	1.56E-06	1.29E-05 PAWR	PRKC, apo protein_co	12	79574979	79691097	-1	q21.2

ENSG00000198689	-0.513	-1.427	0.0001	0.0007	SLC9A6	solute carrier protein_co X	1.36E+08	1.36E+08	1	q26.3
ENSG00000139163	-0.5131	-1.4271	9.03E-05	0.0005	ETNK1	ethanolamine protein_co	12 22625075	22690665	1	p12.1
ENSG00000059145	-0.5133	-1.4273	0.0014	0.0057	UNKL	unkempt factor protein_co	16 1363205	1414751	-1	p13.3
ENSG00000151748	-0.5134	-1.4274	1.20E-06	1.03E-05	SAV1	salvador factor protein_co	14 50632058	50668331	-1	q22.1
ENSG00000007384	-0.5136	-1.4276	0.0031	0.0111	RHBDF1	rhomboid factor protein_co	16 58059	76355	-1	p13.3
ENSG00000079819	-0.5136	-1.4276	0.005	0.0167	EPB41L2	erythrocyte protein_co	6 1.31E+08	1.31E+08	-1	q23.2
ENSG00000177731	-0.5138	-1.4278	0.0002	0.0011	FLII	flightless like protein_co	17 18244836	18258916	-1	p11.2
ENSG00000010818	-0.5142	-1.4282	3.69E-05	0.0002	HIVEP2	human immunodeficiency protein_co	6 1.43E+08	1.43E+08	-1	q24.2
ENSG00000183718	-0.5142	-1.4282	0.0006	0.0027	TRIM52	tripartite repeat protein_co	5 1.81E+08	1.81E+08	-1	q35.3
ENSG00000104824	-0.5146	-1.4286	4.87E-08	5.74E-07	HNRNPL	heterogeneous protein_co	19 38836388	38852347	-1	q13.2
ENSG00000104897	-0.5147	-1.4287	0.0024	0.0088	SF3A2	splicing factor protein_co	19 2236504	2248679	1	p13.3
ENSG00000160785	-0.5152	-1.4292	7.75E-05	0.0004	SLC25A44	solute carrier protein_co	1 1.56E+08	1.56E+08	1	q22
ENSG00000143294	-0.5155	-1.4295	7.52E-06	5.40E-05	PRCC	papillary repressor protein_co	1 1.57E+08	1.57E+08	1	q23.1
ENSG00000198176	-0.5155	-1.4295	0.0008	0.0035	TFDP1	transcription factor protein_co	13 1.14E+08	1.14E+08	1	q34
ENSG00000125447	-0.5161	-1.4301	1.08E-05	7.46E-05	GGA3	golgi-associated protein_co	17 75236599	75262363	-1	q25.1
ENSG00000141959	-0.5162	-1.4302	2.71E-05	0.0002	PFKL	phosphofru protein_co	21 44300051	44327376	1	q22.3
ENSG00000155363	-0.5163	-1.4303	0.0004	0.0021	MOV10	Mov10 RNAi protein_co	1 1.13E+08	1.13E+08	1	p13.2
ENSG00000065357	-0.5165	-1.4305	0.002	0.0075	DGKA	diacylglycerol protein_co	12 55927319	55954027	1	q13.2
ENSG00000127419	-0.5166	-1.4306	0.0006	0.0027	TMEM175	transmembrane protein_co	4 932387	958656	1	p16.3
ENSG00000101152	-0.5168	-1.4307	6.23E-07	5.67E-06	DNAJC5	DnaJ (Hsp4) protein_co	20 63895182	63936031	1	q13.33
ENSG00000096696	-0.5176	-1.4316	0.0008	0.0034	DSP	desmoplakin protein_co	6 7541575	7586717	1	p24.3
ENSG00000112365	-0.5181	-1.432	0.0001	0.0008	ZBTB24	zinc finger protein_co	6 1.09E+08	1.09E+08	-1	q21
ENSG00000168792	-0.5181	-1.4321	0.0002	0.0012	ABHD15	abhydrolase protein_co	17 29560547	29567137	-1	q11.2
ENSG00000117602	-0.5183	-1.4323	0.0094	0.0288	RCAN3	RCAN family protein_co	1 24502351	24541040	1	p36.11
ENSG00000148384	-0.5184	-1.4324	0.0112	0.0333	INPP5E	inositol polyphosphate protein_co	9 1.36E+08	1.36E+08	-1	q34.3
ENSG00000132561	-0.5187	-1.4326	0.0115	0.034	MATN2	matrilin 2 like protein_co	8 97868840	98036716	1	q22.1
ENSG00000119953	-0.519	-1.433	2.07E-06	1.66E-05	SMNDC1	survival motor neuron protein_co	10 1.1E+08	1.1E+08	-1	q25.2
ENSG00000100784	-0.5197	-1.4336	0.0141	0.0404	RPS6KA5	ribosomal protein_co	14 90847862	91060636	-1	q32.11
ENSG00000185684	-0.5199	-1.4338	0.01	0.0302	EP400NL	EP400 N-terminal protein_co	12 1.32E+08	1.32E+08	1	q24.33
ENSG00000198026	-0.5206	-1.4345	0.0009	0.0038	ZNF335	zinc finger protein_co	20 45948653	45972172	-1	q13.12
ENSG00000277258	-0.5207	-1.4346	0.0034	0.0119	PCGF2	polycomb target protein_co	17 38733897	38749817	-1	q12
ENSG00000138756	-0.5211	-1.4351	8.30E-07	7.37E-06	BMP2K	BMP2 inducible protein_co	4 78776342	78916372	1	q21.21
ENSG00000167625	-0.5212	-1.4351	0.001	0.0041	ZNF526	zinc finger protein_co	19 42220271	42228201	1	q13.2
ENSG00000156711	-0.5213	-1.4353	7.75E-05	0.0004	MAPK13	mitogen-activated protein_co	6 36127809	36144524	1	p21.31
ENSG00000136826	-0.5214	-1.4353	0.0042	0.0145	KLF4	Kruppel-like protein_co	9 1.07E+08	1.07E+08	-1	q31.2
ENSG00000163872	-0.5216	-1.4356	3.49E-05	0.0002	YEATS2	YEATS domain protein_co	3 1.84E+08	1.84E+08	1	q27.1
ENSG00000065883	-0.5218	-1.4358	1.35E-10	2.84E-09	CDK13	cyclin-dependent protein_co	7 39950037	40097134	1	p14.1

ENSG00000167395	-0.5219	-1.4358	0.0004	0.0017 ZNF646	zinc finger protein_co	16	31074422	31084196	1 p11.2
ENSG00000123684	-0.5219	-1.4359	1.35E-06	1.14E-05 LPGAT1	lysophosph protein_co	1	2.12E+08	2.12E+08	-1 q32.3
ENSG00000105085	-0.5221	-1.436	0.0025	0.0093 MED26	mediator c protein_co	19	16574907	16629062	-1 p13.11
ENSG00000167280	-0.5223	-1.4362	0.0023	0.0087 ENGASE	endo-beta- protein_co	17	79074939	79088599	1 q25.3
ENSG00000154429	-0.5225	-1.4364	0.0106	0.0317 CCSAP	centriole, c protein_co	1	2.29E+08	2.29E+08	-1 q42.13
ENSG00000108587	-0.5226	-1.4365	6.59E-06	4.79E-05 GOSR1	golgi SNAP protein_co	17	30477362	30527592	1 q11.2
ENSG00000183826	-0.5229	-1.4369	0.004	0.0138 BTBD9	BTB (POZ) (protein_co	6	38168451	38640148	-1 p21.2
ENSG00000183723	-0.5232	-1.4372	6.99E-11	1.56E-09 CMTM4	CKLF-like N protein_co	16	66614750	66696707	-1 q22.1
ENSG00000136878	-0.5235	-1.4374	4.41E-06	3.31E-05 USP20	ubiquitin s protein_co	9	1.3E+08	1.3E+08	1 q34.11
ENSG00000133026	-0.5234	-1.4374	6.22E-06	4.54E-05 MYH10	myosin, he protein_co	17	8474205	8630761	-1 p13.1
ENSG00000166912	-0.5235	-1.4374	1.29E-05	8.74E-05 MTMR10	myotubula protein_co	15	30938941	30991607	-1 q13.3
ENSG00000091009	-0.5237	-1.4377	9.67E-05	0.0005 RBM27	RNA bindin protein_co	5	1.46E+08	1.46E+08	1 q32
ENSG00000140265	-0.524	-1.4379	5.41E-08	6.29E-07 ZSCAN29	zinc finger protein_co	15	43358172	43371025	-1 q15.3
ENSG00000149527	-0.524	-1.4379	0.0059	0.0194 PLCH2	phospholip protein_co	1	2425980	2505530	1 p36.32
ENSG00000179913	-0.5242	-1.4381	0.0027	0.0097 B3GNT3	UDP-GlcNA protein_co	19	17794828	17813082	1 p13.11
ENSG00000128908	-0.5243	-1.4382	7.10E-05	0.0004 INO80	INO80 com protein_co	15	40978880	41116354	-1 q15.1
ENSG00000111321	-0.5245	-1.4384	0.0075	0.0236 LTBR	lymphotoxi protein_co	12	6375045	6391571	1 p13.31
ENSG00000058668	-0.5249	-1.4388	4.07E-05	0.0002 ATP2B4	ATPase, Ca protein_co	1	2.04E+08	2.04E+08	1 q32.1
ENSG00000142784	-0.5248	-1.4388	0.0005	0.0023 WDTC1	WD and tel protein_co	1	27234516	27308633	1 p36.11
ENSG00000133111	-0.5254	-1.4393	0.0157	0.0443 RFXAP	regulatory protein_co	13	36819224	36829104	1 q13.3
ENSG00000009954	-0.5255	-1.4394	4.53E-08	5.39E-07 BAZ1B	bromodom protein_co	7	73440398	73522278	-1 q11.23
ENSG00000124120	-0.5256	-1.4395	1.39E-07	1.47E-06 TTPAL	tocopherol protein_co	20	44475886	44494603	1 q13.12
ENSG00000197879	-0.5259	-1.4398	0.0069	0.0219 MYO1C	myosin IC [ protein_co	17	1464098	1492812	-1 p13.3
ENSG00000110422	-0.5261	-1.44	9.44E-06	6.63E-05 HIPK3	homeodon protein_co	11	33256672	33357023	1 p13
ENSG00000100726	-0.5265	-1.4405	0.0001	0.0007 TELO2	telomere n protein_co	16	1493344	1510457	1 p13.3
ENSG00000178904	-0.5271	-1.4411	0.0013	0.0052 DPY19L3	dpy-19-like protein_co	19	32405543	32485895	1 q13.11
ENSG00000163257	-0.5274	-1.4414	5.73E-06	4.21E-05 DCAF16	DDB1 and (protein_co	4	17800655	17810758	-1 p15.31
ENSG00000189079	-0.5276	-1.4415	2.08E-06	1.67E-05 ARID2	AT rich inte protein_co	12	45729665	45908040	1 q12
ENSG00000125089	-0.5277	-1.4416	0.0181	0.0498 SH3TC1	SH3 domai protein_co	4	8182072	8241803	1 p16.1
ENSG00000135956	-0.5279	-1.4418	1.28E-06	1.09E-05 TMEM127	transmemk protein_co	2	96248516	96265994	-1 q11.2
ENSG00000068305	-0.5279	-1.4419	1.93E-08	2.47E-07 MEF2A	myocyte er protein_co	15	99565417	99716466	1 q26.3
ENSG00000076924	-0.5286	-1.4425	0.0003	0.0014 XAB2	XPA bindin protein_co	19	7619525	7629565	-1 p13.2
ENSG00000128881	-0.5286	-1.4425	0.002	0.0077 TTBK2	tau tubulin protein_co	15	42738734	42920809	-1 q15.2
ENSG00000132388	-0.5288	-1.4427	7.79E-07	6.96E-06 UBE2G1	ubiquitin-c protein_co	17	4269259	4366628	-1 p13.2
ENSG00000150455	-0.5294	-1.4433	0.0012	0.0049 TIRAP	toll-interlei protein_co	11	1.26E+08	1.26E+08	1 q24.2
ENSG00000272091	-0.5296	-1.4435	0.0066	0.0211 RP4-758J24.5	lincRNA	1	54026681	54028499	-1 p32.3
ENSG00000151176	-0.5296	-1.4435	0.011	0.0327 PLBD2	phospholip protein_co	12	1.13E+08	1.13E+08	1 q24.13



ENSG00000162819	-0.5297	-1.4437	4.07E-07	3.87E-06	BROX	BRO1 dom:protein_co	1	2.23E+08	2.23E+08	1	q41
ENSG00000135763	-0.5298	-1.4437	0.0006	0.0026	URB2	URB2 ribos protein_co	1	2.3E+08	2.3E+08	1	q42.13
ENSG00000075391	-0.5298	-1.4438	0.0012	0.005	RASAL2	RAS protei protein_co	1	1.78E+08	1.78E+08	1	q25.2
ENSG00000043143	-0.5309	-1.4448	0.0013	0.0052	JADE2	jade family protein_co	5	1.35E+08	1.35E+08	1	q31.1
ENSG00000074657	-0.5312	-1.4451	0.0022	0.0083	ZNF532	zinc finger protein_co	18	58862600	58986480	1	q21.32
ENSG00000185896	-0.5315	-1.4454	0.0012	0.0048	LAMP1	lysosomal-i:protein_co	13	1.13E+08	1.13E+08	1	q34
ENSG00000095574	-0.5316	-1.4455	0.0001	0.0007	IKZF5	IKAROS fan protein_co	10	1.23E+08	1.23E+08	-1	q26.13
ENSG00000163320	-0.5317	-1.4456	1.37E-09	2.26E-08	CGGBP1	CGG triplet protein_co	3	88051944	88149885	-1	p11.1
ENSG00000175155	-0.5318	-1.4458	5.39E-05	0.0003	YPEL2	yippee-like protein_co	17	59331689	59401729	1	q22
ENSG00000197226	-0.5319	-1.4459	9.19E-06	6.47E-05	TBC1D9B	TBC1 doma protein_co	5	1.8E+08	1.8E+08	-1	q35.3
ENSG00000147526	-0.5321	-1.446	0.0003	0.0015	TACC1	transformii protein_co	8	38728186	38853028	1	p11.22
ENSG00000077150	-0.5324	-1.4463	0.0169	0.0469	NFKB2	nuclear fac protein_co	10	1.02E+08	1.02E+08	1	q24.32
ENSG00000181035	-0.5325	-1.4464	0.0015	0.006	SLC25A42	solute carri protein_co	19	19063999	19112888	1	p13.11
ENSG00000151576	-0.5326	-1.4465	0.0004	0.002	QTRTD1	queuine tR protein_co	3	1.14E+08	1.14E+08	1	q13.31
ENSG00000108219	-0.5327	-1.4467	1.55E-05	0.0001	TSPAN14	tetraspanin protein_co	10	80454166	80533123	1	q23.1
ENSG00000108312	-0.5329	-1.4468	2.01E-06	1.62E-05	UBTF	upstream t protein_co	17	44205033	44221626	-1	q21.31
ENSG00000133243	-0.533	-1.447	1.07E-06	9.24E-06	BTBD2	BTB (POZ) (protein_co	19	1985438	2034881	-1	p13.3
ENSG00000091409	-0.5336	-1.4475	0.0026	0.0096	ITGA6	integrin, al protein_co	2	1.72E+08	1.73E+08	1	q31.1
ENSG00000105486	-0.5342	-1.4481	0.0068	0.0217	LIG1	ligase I, DN protein_co	19	48115445	48170603	-1	q13.33
ENSG00000255310	-0.5345	-1.4484	0.0026	0.0095	AF131215.2	sense_intr	8	11107788	11109726	-1	p23.1
ENSG00000078043	-0.5346	-1.4486	1.36E-05	9.16E-05	PIAS2	protein inh protein_co	18	46808390	46920160	-1	q21.1
ENSG00000182087	-0.5348	-1.4488	3.42E-05	0.0002	TMEM259	transmemt protein_co	19	1009648	1021179	-1	p13.3
ENSG00000019582	-0.5349	-1.4488	0.0036	0.0125	CD74	CD74 mole protein_co	5	1.5E+08	1.5E+08	-1	q33.1
ENSG00000155792	-0.5351	-1.449	0.0174	0.048	DEPTOR	DEP domai protein_co	8	1.2E+08	1.2E+08	1	q24.12
ENSG00000119314	-0.5351	-1.4491	2.16E-11	5.37E-10	PTBP3	polypyrimin protein_co	9	1.12E+08	1.12E+08	-1	q32
ENSG00000168016	-0.5354	-1.4494	2.67E-05	0.0002	TRANK1	tetratricop protein_co	3	36826820	36945057	-1	p22.2
ENSG00000112655	-0.5355	-1.4494	0.0039	0.0134	PTK7	protein tyr protein_co	6	43076268	43161719	1	p21.1
ENSG00000011114	-0.5355	-1.4495	4.66E-14	2.22E-12	BTBD7	BTB (POZ) (protein_co	14	93237550	93333092	-1	q32.12
ENSG00000006025	-0.5359	-1.4498	0.0005	0.0023	OSBPL7	oxysterol b protein_co	17	47807372	47821834	-1	q21.32
ENSG00000151090	-0.5362	-1.4502	0.0008	0.0035	THRB	thyroid hor protein_co	3	24117160	24495282	-1	p24.2
ENSG00000108256	-0.5365	-1.4504	1.24E-12	4.21E-11	NUFIP2	nuclear fra protein_co	17	29255836	29294118	-1	q11.2
ENSG00000136451	-0.5364	-1.4504	2.55E-06	2.00E-05	VEZF1	vascular en protein_co	17	57971547	57988259	-1	q22
ENSG00000127526	-0.5366	-1.4506	3.08E-05	0.0002	SLC35E1	solute carri protein_co	19	16549831	16572382	-1	p13.11
ENSG00000140254	-0.5369	-1.4508	0.0055	0.0182	DUOXA1	dual oxidas protein_co	15	45117367	45129938	-1	q21.1
ENSG00000148429	-0.5371	-1.451	2.51E-07	2.49E-06	USP6NL	USP6 N-ter protein_co	10	11453946	11611754	-1	p14
ENSG00000138032	-0.5371	-1.4511	1.03E-06	8.94E-06	PPM1B	protein ph protein_co	2	44167969	44244384	1	p21
ENSG00000122642	-0.5373	-1.4513	0.0004	0.002	FKBP9	FK506 bind protein_co	7	32957404	33006931	1	p14.3

ENSG00000175548	-0.5374	-1.4514	0.0002	0.0012	ALG10B	ALG10B, al protein_co	12	38316578	38329728	1	q12
ENSG00000186416	-0.5375	-1.4514	0.0003	0.0015	NKRF	NFKB repre protein_co X		1.2E+08	1.2E+08	-1	q24
ENSG00000116649	-0.5374	-1.4514	0.0024	0.0089	SRM	spermidine protein_co	1	11054584	11060024	-1	p36.22
ENSG00000100596	-0.5382	-1.4521	1.29E-11	3.35E-10	SPTLC2	serine paln protein_co	14	77505997	77616773	-1	q24.3
ENSG00000101871	-0.5382	-1.4522	8.01E-06	5.72E-05	MID1	midline 1 [! protein_co X		10445310	10833654	-1	p22.2
ENSG00000196233	-0.5383	-1.4523	1.57E-09	2.54E-08	LCOR	ligand depc protein_co	10	96832260	96981043	1	q24.1
ENSG00000124160	-0.5383	-1.4523	0.0001	0.0006	NCOA5	nuclear rec protein_co	20	46060985	46089952	-1	q13.12
ENSG00000174791	-0.5383	-1.4523	0.0008	0.0036	RIN1	Ras and Ra protein_co	11	66330242	66336840	-1	q13.2
ENSG00000175073	-0.5392	-1.4531	2.68E-09	4.17E-08	VCPIP1	valosin con protein_co	8	66628487	66667217	-1	q13.1
ENSG00000162775	-0.5393	-1.4532	0.0003	0.0016	RBM15	RNA bindin protein_co	1	1.1E+08	1.1E+08	1	p13.3
ENSG00000105523	-0.5395	-1.4534	0.002	0.0075	FAM83E	family with protein_co	19	48600810	48614854	-1	q13.33
ENSG00000170037	-0.5396	-1.4536	2.80E-05	0.0002	CNTROB	centrobin, protein_co	17	7932101	7949918	1	p13.1
ENSG00000189114	-0.5397	-1.4536	0.0012	0.0048	BLOC1S3	biogenesis protein_co	19	45178745	45181801	1	q13.32
ENSG00000139197	-0.5399	-1.4539	5.63E-05	0.0003	PEX5	peroxisom: protein_co	12	7188685	7218574	1	p13.31
ENSG00000160803	-0.54	-1.454	1.68E-06	1.38E-05	UBQLN4	ubiquilin 4 protein_co	1	1.56E+08	1.56E+08	-1	q22
ENSG0000007923	-0.5401	-1.454	4.17E-06	3.14E-05	DNAJC11	DnaJ (Hsp4 protein_co	1	6634168	6701924	-1	p36.31
ENSG00000126822	-0.5403	-1.4543	0.0053	0.0175	PLEKHG3	pleckstrin l protein_co	14	64704102	64750247	1	q23.3
ENSG00000105656	-0.5406	-1.4546	2.84E-05	0.0002	ELL	elongation protein_co	19	18442663	18522127	-1	p13.11
ENSG00000165699	-0.541	-1.455	9.19E-09	1.28E-07	TSC1	tuberous s: protein_co	9	1.33E+08	1.33E+08	-1	q34.13
ENSG00000169155	-0.541	-1.455	1.16E-06	9.93E-06	ZBTB43	zinc finger protein_co	9	1.27E+08	1.27E+08	1	q33.3
ENSG00000132604	-0.5412	-1.4552	0.0001	0.0007	TERF2	telomeric r protein_co	16	69355561	69408571	-1	q22.1
ENSG00000141522	-0.5414	-1.4553	0.0002	0.0009	ARHGDI4	Rho GDP di protein_co	17	81867721	81871406	-1	q25.3
ENSG00000047849	-0.5413	-1.4553	0.0003	0.0015	MAP4	microtubul protein_co	3	47850690	48089272	-1	p21.31
ENSG00000215105	-0.5414	-1.4554	0.0055	0.0181	TTC3P1	tetratricop processed_X		75740831	75746911	-1	q13.3
ENSG00000107021	-0.5417	-1.4557	9.95E-05	0.0005	TBC1D13	TBC1 doma protein_co	9	1.29E+08	1.29E+08	1	q34.11
ENSG00000114796	-0.5419	-1.4558	1.62E-07	1.70E-06	KLHL24	kelch-like f protein_co	3	1.84E+08	1.84E+08	1	q27.1
ENSG00000037637	-0.5418	-1.4558	1.34E-05	9.06E-05	FBXO42	F-box prote protein_co	1	16246839	16352454	-1	p36.13
ENSG00000158966	-0.5419	-1.4559	0.0027	0.0097	CACHD1	cache dom protein_co	1	64470792	64693058	1	p31.3
ENSG00000114062	-0.5422	-1.4562	3.45E-09	5.25E-08	UBE3A	ubiquitin p protein_co	15	25333729	25439028	-1	q11.2
ENSG00000114331	-0.5431	-1.4571	3.86E-10	7.27E-09	ACAP2	ArfGAP wit protein_co	3	1.95E+08	1.95E+08	-1	q29
ENSG00000100605	-0.5431	-1.4571	2.93E-06	2.28E-05	ITPK1	inositol-tet protein_co	14	92936914	93116320	-1	q32.12
ENSG00000205726	-0.5434	-1.4574	2.71E-05	0.0002	ITSN1	intersectin protein_co	21	33642400	33899861	1	q22.11
ENSG00000102226	-0.5438	-1.4578	0.0005	0.0021	USP11	ubiquitin s: protein_co X		47232690	47248328	1	p11.3
ENSG00000085733	-0.5444	-1.4584	2.04E-06	1.64E-05	CTTN	cortactin [ protein_co	11	70398404	70436584	1	q13.3
ENSG00000095321	-0.5445	-1.4585	7.11E-05	0.0004	CRAT	carnitine O protein_co	9	1.29E+08	1.29E+08	-1	q34.11
ENSG00000151151	-0.5446	-1.4586	0.0002	0.0012	IPMK	inositol pol protein_co	10	58191517	58267934	-1	q21.1
ENSG00000162402	-0.5447	-1.4587	1.21E-10	2.56E-09	USP24	ubiquitin s: protein_co	1	55066359	55215113	-1	p32.3

ENSG00000143157	-0.5449	-1.4589	1.63E-05	0.0001 POGK	pogo trans protein_co	1	1.67E+08	1.67E+08	1 q24.1
ENSG00000260912	-0.5452	-1.4592	0.0027	0.0097 RP11-363E7.4	sense_ovei	9	19453209	19455173	1 p22.1
ENSG00000196369	-0.5453	-1.4593	0.0008	0.0036 SRGAP2B	SLIT-ROBO protein_co	1	1.45E+08	1.45E+08	-1 q21.1
ENSG00000141956	-0.5456	-1.4596	0.0118	0.0347 PRDM15	PR domain protein_co	21	41798225	41879482	-1 q22.3
ENSG00000198435	-0.5462	-1.4602	0.0033	0.0116 NRARP	NOTCH-reg protein_co	9	1.37E+08	1.37E+08	-1 q34.3
ENSG00000173599	-0.5475	-1.4615	0.0079	0.0247 PC	pyruvate c: protein_co	11	66848233	66958376	-1 q13.2
ENSG00000156639	-0.5477	-1.4617	8.70E-06	6.16E-05 ZFAND3	zinc finger, protein_co	6	37819499	38154624	1 p21.2
ENSG00000198113	-0.5478	-1.4618	1.02E-05	7.10E-05 TOR4A	torsin fami protein_co	9	1.37E+08	1.37E+08	1 q34.3
ENSG00000108773	-0.5478	-1.4618	4.12E-05	0.0002 KAT2A	K(lysine) ac protein_co	17	42113108	42121358	-1 q21.2
ENSG00000083635	-0.5478	-1.4619	0.0033	0.0118 NUFIP1	nuclear fra protein_co	13	44939249	44989483	-1 q14.12
ENSG00000224470	-0.548	-1.462	1.18E-05	8.08E-05 ATXN1L	ataxin 1-lik protein_co	16	71845991	71885268	1 q22.2
ENSG00000275764	-0.5479	-1.462	0.0007	0.0032 RP11-582E3.6	lincRNA	12	27037100	27038960	1 p11.23
ENSG00000186318	-0.5479	-1.462	0.0027	0.01 BACE1	beta-site A protein_co	11	1.17E+08	1.17E+08	-1 q23.3
ENSG00000254986	-0.548	-1.4621	0.0004	0.0018 DPP3	dipeptidyl- protein_co	11	66480013	66509659	1 q13.2
ENSG00000204569	-0.5484	-1.4624	2.14E-05	0.0001 PPP1R10	protein ph: protein_co	6	30600400	30618612	-1 p21.33
ENSG00000170581	-0.5484	-1.4625	0.0019	0.0074 STAT2	signal trans: protein_co	12	56341597	56360155	-1 q13.3
ENSG00000076984	-0.5487	-1.4628	1.68E-05	0.0001 MAP2K7	mitogen-ac protein_co	19	7903843	7914478	1 p13.2
ENSG00000066135	-0.5491	-1.4632	7.22E-08	8.17E-07 KDM4A	lysine (K)-s protein_co	1	43650158	43705515	1 p34.2
ENSG00000275234	-0.5493	-1.4634	0.0012	0.0047 CTD-2396E7.11	antisense	19	6469465	6470152	1 p13.3
ENSG00000147133	-0.5502	-1.4643	4.66E-05	0.0003 TAF1	TAF1 RNA i: protein_co X		71366239	71532374	1 q13.1
ENSG00000167202	-0.5502	-1.4643	0.0003	0.0016 TBC1D2B	TBC1 doma: protein_co	15	77984036	78077724	-1 q25.1
ENSG00000047346	-0.5503	-1.4644	4.24E-10	7.87E-09 FAM214A	family with protein_co	15	52581317	52709817	-1 q21.3
ENSG00000263956	-0.5503	-1.4644	4.94E-05	0.0003 NBPF11	neuroblast protein_co	1	1.48E+08	1.48E+08	-1 q21.2
ENSG00000084463	-0.5504	-1.4645	2.94E-06	2.29E-05 WBP11	WW domai protein_co	12	14784579	14803540	-1 p12.3
ENSG00000178691	-0.5507	-1.4648	9.01E-08	9.95E-07 SUZ12	SUZ12 poly protein_co	17	31937018	32001045	1 q11.2
ENSG00000169594	-0.5508	-1.4649	0.0001	0.0007 BNC1	basonuclin protein_co	15	83255903	83284716	-1 q25.2
ENSG00000109686	-0.551	-1.4651	9.83E-07	8.57E-06 SH3D19	SH3 domai protein_co	4	1.51E+08	1.51E+08	-1 q31.3
ENSG00000185504	-0.551	-1.4651	0.0015	0.006 C17orf70	chromosom protein_co	17	81539885	81553961	-1 q25.3
ENSG00000089280	-0.5512	-1.4653	5.65E-08	6.54E-07 FUS	FUS RNA bi protein_co	16	31180110	31194871	1 p11.2
ENSG00000158615	-0.5515	-1.4656	2.81E-08	3.48E-07 PPP1R15B	protein ph: protein_co	1	2.04E+08	2.04E+08	-1 q32.1
ENSG00000176842	-0.5517	-1.4658	2.23E-05	0.0001 IRX5	iroquois hc protein_co	16	54930862	54934485	1 q12.2
ENSG00000140521	-0.5518	-1.4659	0.0002	0.0008 POLG	polymeras: protein_co	15	89316303	89334861	-1 q26.1
ENSG00000198743	-0.5519	-1.466	1.22E-05	8.35E-05 SLC5A3	solute carri protein_co	21	34073570	34106260	1 q22.11
ENSG00000049759	-0.552	-1.4661	7.45E-06	5.35E-05 NEDD4L	neural prec protein_co	18	58044367	58401540	1 q21.31
ENSG00000253846	-0.552	-1.4662	0.0106	0.0318 PCDHGA10	protocadhe protein_co	5	1.41E+08	1.42E+08	1 q31.3
ENSG00000162341	-0.5523	-1.4664	0.0032	0.0114 TPCN2	two pore si protein_co	11	69048897	69090604	1 q13.3
ENSG00000169951	-0.5523	-1.4665	0.0037	0.0127 ZNF764	zinc finger protein_co	16	30553764	30558498	-1 p11.2

ENSG00000142459	-0.5525	-1.4666	0.0029	0.0106	EVI5L	ecotropic v protein_co	19	7830233	7864976	1	p13.2
ENSG00000117625	-0.5529	-1.467	6.18E-09	8.97E-08	RCOR3	REST corep protein_co	1	2.11E+08	2.11E+08	1	q32.2
ENSG00000156299	-0.553	-1.4671	0.0138	0.0398	TIAM1	T-cell lymph protein_co	21	31118416	31559977	-1	q22.11
ENSG00000156650	-0.5535	-1.4676	1.92E-05	0.0001	KAT6B	K(lysine) ac protein_co	10	74825582	75032622	1	q22.2
ENSG00000100697	-0.5541	-1.4683	2.03E-13	8.26E-12	DICER1	dicer 1, rib protein_co	14	95086228	95158010	-1	q32.13
ENSG00000140853	-0.5543	-1.4685	0.0027	0.01	NLRC5	NLR family, protein_co	16	56989485	57083531	1	q13
ENSG00000120327	-0.5545	-1.4686	0.0125	0.0366	PCDHB14	protocadherin protein_co	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000103994	-0.5548	-1.469	7.08E-06	5.11E-05	ZNF106	zinc finger protein_co	15	42412823	42491123	-1	q15.1
ENSG00000149091	-0.5548	-1.469	0.0002	0.0012	DGKZ	diacylglycerol protein_co	11	46332905	46380554	1	p11.2
ENSG00000137764	-0.5551	-1.4693	8.98E-05	0.0005	MAP2K5	mitogen-activated protein_co	15	67542709	67807123	1	q23
ENSG00000162390	-0.5552	-1.4693	0.0027	0.0098	ACOT11	acyl-CoA thioester protein_co	1	54542257	54639192	1	p32.3
ENSG00000206418	-0.5554	-1.4695	0.0002	0.0009	RAB12	RAB12, member protein_co	18	8609445	8639381	1	p11.22
ENSG00000063587	-0.5554	-1.4696	0.002	0.0077	ZNF275	zinc finger protein_co X		1.53E+08	1.53E+08	1	q28
ENSG00000112144	-0.5556	-1.4698	0.0002	0.0009	ICK	intestinal crypt protein_co	6	53001279	53061802	-1	p12.1
ENSG00000102996	-0.5559	-1.4701	0.0166	0.0463	MMP15	matrix metalloproteinase_co	16	58025566	58046901	1	q21
ENSG00000275066	-0.5561	-1.4703	6.62E-06	4.82E-05	SYNRG	synergin, glycoprotein_co	17	37514797	37609496	-1	q12
ENSG00000124209	-0.5562	-1.4704	2.23E-08	2.82E-07	RAB22A	RAB22A, member protein_co	20	58309696	58367507	1	q13.32
ENSG00000167074	-0.5562	-1.4704	0.0003	0.0017	TEF	thyrotrophin protein_co	22	41367333	41399326	1	q13.2
ENSG00000162413	-0.5564	-1.4706	0.0004	0.0019	KLHL21	kelch-like family protein_co	1	6590724	6614607	-1	p36.31
ENSG00000117298	-0.5565	-1.4707	0.011	0.0328	ECE1	endothelin receptor protein_co	1	21217247	21345504	-1	p36.12
ENSG00000157693	-0.5566	-1.4708	0.0002	0.001	C9orf91	chromosome 9 protein_co	9	1.15E+08	1.15E+08	1	q32
ENSG00000101911	-0.5568	-1.471	8.08E-09	1.14E-07	PRPS2	phosphoribosyl transferase_co X		12791355	12824222	1	p22.2
ENSG00000128594	-0.5568	-1.471	0.0023	0.0087	LRRC4	leucine rich repeat protein_co	7	1.28E+08	1.28E+08	-1	q32.1
ENSG00000129657	-0.5573	-1.4715	6.59E-06	4.79E-05	SEC14L1	SEC14-like protein_co	17	77086716	77217101	1	q25.2
ENSG00000154217	-0.5574	-1.4716	1.18E-06	1.01E-05	PITPNC1	phosphatidylinositol protein_co	17	67377281	67697261	1	q24.2
ENSG00000133424	-0.5575	-1.4717	0.0002	0.0008	LARGE	like-glycosylated protein_co	22	33162226	33922841	-1	q12.3
ENSG00000140464	-0.5575	-1.4717	0.0005	0.0024	PML	promyelocytic leukemia protein_co	15	73994673	74047812	1	q24.1
ENSG00000130449	-0.5575	-1.4718	0.0006	0.0028	ZSWIM6	zinc finger, winged domain protein_co	5	61332273	61546170	1	q12.1
ENSG00000073464	-0.5577	-1.4719	0.0003	0.0016	CLCN4	chloride channel protein_co X		10156945	10237660	1	p22.2
ENSG00000151553	-0.5578	-1.472	0.0005	0.0023	FAM160B1	family with sequence similarity 160 protein_co	10	1.15E+08	1.15E+08	1	q25.3
ENSG00000154370	-0.5579	-1.4721	5.88E-05	0.0003	TRIM11	tripartite repeat protein_co	1	2.28E+08	2.28E+08	-1	q42.13
ENSG00000061273	-0.5579	-1.4721	0.0006	0.0028	HDAC7	histone deacetylase protein_co	12	47782722	47833132	-1	q13.11
ENSG00000163362	-0.558	-1.4723	1.77E-05	0.0001	C1orf106	chromosome 1 protein_co	1	2.01E+08	2.01E+08	1	q32.1
ENSG00000152527	-0.558	-1.4723	0.0005	0.0025	PLEKHH2	pleckstrin homology domain protein_co	2	43637273	43767987	1	p21
ENSG00000176920	-0.5588	-1.473	0.0004	0.002	FUT2	fucosyltransferase protein_co	19	48695971	48705950	1	q13.33
ENSG00000170525	-0.5588	-1.4731	0.0007	0.0032	PFKFB3	6-phosphofructokinase protein_co	10	6144934	6235545	1	p15.1
ENSG00000176974	-0.5589	-1.4731	0.0022	0.0084	SHMT1	serine hydroxymethyltransferase_co	17	18327860	18363563	-1	p11.2

ENSG00000235194	-0.5591	-1.4734	0.0046	0.0155 PPP1R3E	protein phrprotein_co	14	23295643	23302848	-1 q11.2
ENSG00000115183	-0.5592	-1.4735	1.16E-08	1.57E-07 TANC1	tetratricop protein_co	2	1.59E+08	1.59E+08	1 q24.2
ENSG00000179262	-0.5593	-1.4736	7.61E-05	0.0004 RAD23A	RAD23 honprotein_co	19	12945855	12953642	1 p13.13
ENSG00000168283	-0.5597	-1.4739	0.0103	0.0311 BMI1	BMI1 protc protein_co	10	22321211	22331484	1 p12.2
ENSG00000111816	-0.56	-1.4743	1.16E-10	2.46E-09 FRK	fyn-related protein_co	6	1.16E+08	1.16E+08	-1 q22.1
ENSG00000146433	-0.5604	-1.4746	1.55E-08	2.03E-07 TMEM181	transmeml protein_co	6	1.59E+08	1.59E+08	1 q25.3
ENSG00000174238	-0.5606	-1.4749	2.64E-05	0.0002 PITPNA	phosphatic protein_co	17	1517718	1562816	-1 p13.3
ENSG00000134253	-0.5606	-1.4749	0.0122	0.0358 TRIM45	tripartite r protein_co	1	1.17E+08	1.17E+08	-1 p13.1
ENSG00000100258	-0.5608	-1.4751	5.17E-05	0.0003 LMF2	lipase matl protein_co	22	50502949	50507691	-1 q13.33
ENSG00000174989	-0.561	-1.4753	1.43E-05	9.60E-05 FBXW8	F-box and \ protein_co	12	1.17E+08	1.17E+08	1 q24.22
ENSG00000072133	-0.561	-1.4753	0.0025	0.0092 RPS6KA6	ribosomal j protein_co X		84058346	84187925	-1 q21.1
ENSG00000101413	-0.5611	-1.4754	1.09E-05	7.51E-05 RPRD1B	regulation protein_co	20	38033546	38127780	1 q11.23
ENSG00000189319	-0.5614	-1.4757	0.0008	0.0034 FAM53B	family with protein_co	10	1.25E+08	1.25E+08	-1 q26.13
ENSG00000008838	-0.5615	-1.4758	7.79E-05	0.0004 MED24	mediator c protein_co	17	40019097	40061215	-1 q21.1
ENSG00000152785	-0.5619	-1.4762	0.0161	0.045 BMP3	bone morpprotein_co	4	81030965	81057531	1 q21.21
ENSG00000197785	-0.5623	-1.4766	2.97E-05	0.0002 ATAD3A	ATPase fan protein_co	1	1512151	1534687	1 p36.33
ENSG00000104853	-0.563	-1.4773	3.73E-05	0.0002 CLPTM1	cleft lip anc protein_co	19	44954585	44993341	1 q13.32
ENSG00000134762	-0.5633	-1.4776	0.0006	0.0026 DSC3	desmocolli protein_co	18	30990008	31042815	-1 q12.1
ENSG00000183840	-0.5644	-1.4788	0.0015	0.0058 GPR39	G protein-c protein_co	2	1.32E+08	1.33E+08	1 q21.2
ENSG00000120875	-0.5645	-1.4788	0.0046	0.0157 DUSP4	dual specif protein_co	8	29333064	29350668	-1 p12
ENSG00000072858	-0.5646	-1.479	0.0003	0.0016 SIDT1	SID1 transr protein_co	3	1.14E+08	1.14E+08	1 q13.2
ENSG00000198925	-0.5647	-1.4791	0.0014	0.0055 ATG9A	autophagy protein_co	2	2.19E+08	2.19E+08	-1 q35
ENSG00000176463	-0.5647	-1.4791	0.0014	0.0056 SLCO3A1	solute carri protein_co	15	91853695	92172435	1 q26.1
ENSG00000030419	-0.5648	-1.4792	2.17E-08	2.76E-07 IKZF2	IKAROS fan protein_co	2	2.13E+08	2.13E+08	-1 q34
ENSG00000127603	-0.5656	-1.48	1.15E-07	1.24E-06 MACF1	microtubul protein_co	1	39081316	39487177	1 p34.3
ENSG00000129347	-0.5656	-1.48	1.14E-05	7.82E-05 KRI1	KRI1 homo protein_co	19	10553078	10566037	-1 p13.2
ENSG00000198315	-0.5657	-1.4801	1.70E-07	1.76E-06 ZKSCAN8	zinc finger protein_co	6	28141910	28159472	1 p22.1
ENSG00000134138	-0.5657	-1.4801	0.0002	0.0011 MEIS2	Meis home protein_co	15	36889204	37101299	-1 q14
ENSG00000176454	-0.5659	-1.4803	2.19E-07	2.21E-06 LPCAT4	lysophosphl protein_co	15	34358618	34367278	-1 q14
ENSG00000156983	-0.5662	-1.4806	0.0002	0.0009 BRPF1	bromodom protein_co	3	9731729	9748018	1 p25.3
ENSG00000127511	-0.5667	-1.4812	4.62E-05	0.0003 SIN3B	SIN3 transc protein_co	19	16829400	16880353	1 p13.11
ENSG00000116199	-0.5668	-1.4813	4.39E-08	5.24E-07 FAM20B	family with protein_co	1	1.79E+08	1.79E+08	1 q25.2
ENSG00000104774	-0.5669	-1.4814	8.93E-05	0.0005 MAN2B1	mannosida protein_co	19	12646511	12666742	-1 p13.13
ENSG00000065054	-0.5671	-1.4815	7.51E-05	0.0004 SLC9A3R2	solute carri protein_co	16	2025356	2039026	1 p13.3
ENSG00000125388	-0.5671	-1.4815	0.013	0.0377 GRK4	G protein-c protein_co	4	2963608	3040747	1 p16.3
ENSG00000074621	-0.5671	-1.4816	0.0006	0.0026 SLC24A1	solute carri protein_co	15	65611366	65660995	1 q22.31
ENSG00000129219	-0.5673	-1.4817	6.02E-07	5.50E-06 PLD2	phospholip protein_co	17	4807096	4823434	1 p13.2



ENSG00000151893	-0.5672	-1.4817	2.61E-06	2.05E-05	CACUL1	CDK2-assoc protein_co	10	1.19E+08	1.19E+08	-1	q26.11
ENSG00000144233	-0.5681	-1.4825	4.03E-06	3.05E-05	AMMECR1L	AMMECR1 protein_co	2	1.28E+08	1.28E+08	-1	q14.3
ENSG00000135631	-0.5682	-1.4826	9.54E-05	0.0005	RAB11FIP5	RAB11 fam protein_co	2	73073382	73156721	-1	p13.2
ENSG00000179604	-0.5684	-1.4829	3.88E-09	5.84E-08	CDC42EP4	CDC42 effe protein_co	17	73283624	73312175	-1	q25.1
ENSG0000014216	-0.5687	-1.4831	2.52E-06	1.98E-05	CAPN1	calpain 1, ( protein_co	11	65180566	65212006	1	q13.1
ENSG00000144283	-0.5688	-1.4833	1.52E-08	2.00E-07	PKP4	plakophilin protein_co	2	1.58E+08	1.59E+08	1	q24.1
ENSG00000048471	-0.569	-1.4835	0.0065	0.0209	SNX29	sorting nex protein_co	16	11976737	12574289	1	p13.13
ENSG00000166123	-0.5691	-1.4836	9.07E-05	0.0005	GPT2	glutamic py protein_co	16	46884378	46931297	1	q11.2
ENSG00000139746	-0.5699	-1.4844	1.57E-07	1.65E-06	RBM26	RNA bindin protein_co	13	79311824	79406477	-1	q31.1
ENSG00000120868	-0.5702	-1.4848	1.37E-09	2.26E-08	APAF1	apoptotic p protein_co	12	98645141	98735433	1	q23.1
ENSG00000105576	-0.5703	-1.4849	1.59E-06	1.32E-05	TNPO2	transportin protein_co	19	12699194	12724011	-1	p13.13
ENSG00000174437	-0.5704	-1.485	2.32E-07	2.33E-06	ATP2A2	ATPase, Ca protein_co	12	1.1E+08	1.1E+08	1	q24.11
ENSG00000116396	-0.5705	-1.485	0.0124	0.0362	KCNC4	potassium protein_co	1	1.1E+08	1.1E+08	1	p13.3
ENSG00000185900	-0.5706	-1.4851	0.0047	0.0157	POMK	protein-O-i protein_co	8	43093506	43123434	1	p11.21
ENSG00000132017	-0.5707	-1.4852	9.19E-05	0.0005	DCAF15	DDB1 and ( protein_co	19	13952492	13961449	1	p13.12
ENSG00000198478	-0.571	-1.4856	2.44E-07	2.43E-06	SH3BGRL2	SH3 domai protein_co	6	79631283	79703659	1	q14.1
ENSG00000130714	-0.5712	-1.4858	6.73E-06	4.88E-05	POMT1	protein-O-i protein_co	9	1.32E+08	1.32E+08	1	q34.13
ENSG00000146555	-0.5712	-1.4858	0.0173	0.0479	SDK1	sidekick cel protein_co	7	3301448	4269000	1	p22.2
ENSG00000126216	-0.5718	-1.4864	1.49E-05	9.96E-05	TUBGCP3	tubulin, gai protein_co	13	1.12E+08	1.13E+08	-1	q34
ENSG00000110107	-0.572	-1.4866	4.14E-07	3.92E-06	PRPF19	pre-mRNA protein_co	11	60890730	60906588	-1	q12.2
ENSG00000107185	-0.5726	-1.4872	3.68E-05	0.0002	RGP1	RGP1 retro protein_co	9	35749287	35758575	1	p13.3
ENSG00000146963	-0.5732	-1.4878	1.97E-06	1.59E-05	C7orf55-LUC7L2	C7orf55-LU protein_co	7	1.39E+08	1.39E+08	1	q34
ENSG00000181220	-0.5731	-1.4878	3.12E-05	0.0002	ZNF746	zinc finger protein_co	7	1.49E+08	1.49E+08	-1	q36.1
ENSG00000188505	-0.5735	-1.4881	0.0166	0.0462	NCCRP1	non-specifi protein_co	19	39196961	39201884	1	q13.2
ENSG00000163840	-0.5736	-1.4883	4.73E-06	3.52E-05	DTX3L	deltex 3 lik protein_co	3	1.23E+08	1.23E+08	1	q21.1
ENSG00000179023	-0.5737	-1.4884	0.0101	0.0304	KLHDC7A	kelch domε protein_co	1	18480982	18486126	1	p36.13
ENSG00000271976	-0.5738	-1.4885	0.0085	0.0263	RP11-884K10.7	antisense	3	53858994	53861576	-1	p21.1
ENSG00000137073	-0.5743	-1.4889	7.49E-07	6.71E-06	UBAP2	ubiquitin a: protein_co	9	33921693	34048949	-1	p13.3
ENSG00000214022	-0.5746	-1.4892	0.0002	0.001	REPIN1	replication protein_co	7	1.5E+08	1.5E+08	1	q36.1
ENSG00000108375	-0.5746	-1.4893	0.0005	0.0022	RNF43	ring finger protein_co	17	58352500	58417595	-1	q22
ENSG00000205937	-0.5748	-1.4894	4.55E-07	4.28E-06	RNPS1	RNA bindin protein_co	16	2253116	2268412	-1	p13.3
ENSG00000183530	-0.5751	-1.4897	4.48E-07	4.21E-06	PRR14L	proline rich protein_co	22	31676256	31750140	-1	q12.2
ENSG00000185567	-0.5756	-1.4902	0.0012	0.0049	AHNAK2	AHNAK nuc protein_co	14	1.05E+08	1.05E+08	-1	q32.33
ENSG00000178695	-0.5755	-1.4902	0.0057	0.0187	KCTD12	potassium protein_co	13	76880166	76886390	-1	q22.3
ENSG00000088854	-0.5759	-1.4906	2.04E-06	1.64E-05	C20orf194	chromoson protein_co	20	3249305	3407625	-1	p13
ENSG00000171608	-0.5763	-1.491	0.0134	0.0387	PIK3CD	phosphatic protein_co	1	9651732	9729114	1	p36.22
ENSG00000140943	-0.5765	-1.4912	1.44E-07	1.52E-06	MBTPS1	membrane protein_co	16	84053761	84116906	-1	q24.1

ENSG00000163814	-0.5765	-1.4913	2.70E-06	2.11E-05 CDCP1	CUB domai protein_co	3	45082278	45146422	-1 p21.31
ENSG00000106290	-0.5766	-1.4914	3.60E-05	0.0002 TAF6	TAF6 RNA i protein_co	7	1E+08	1E+08	-1 q22.1
ENSG00000067208	-0.5769	-1.4917	3.64E-06	2.78E-05 EVI5	ecotropic v protein_co	1	92508696	92792404	-1 p22.1
ENSG00000165632	-0.577	-1.4917	0.0008	0.0033 TAF3	TAF3 RNA i protein_co	10	7818504	8016627	1 p14
ENSG00000166068	-0.5775	-1.4923	0.0073	0.0232 SPRED1	sprouty-rel protein_co	15	38252326	38357249	1 q14
ENSG00000133612	-0.5779	-1.4927	2.99E-09	4.60E-08 AGAP3	ArfGAP wit protein_co	7	1.51E+08	1.51E+08	1 q36.1
ENSG00000205356	-0.578	-1.4928	1.47E-05	9.85E-05 TECPR1	tectonin be protein_co	7	98214624	98252251	-1 q21.3
ENSG00000099204	-0.578	-1.4928	0.0002	0.001 ABLIM1	actin bindii protein_co	10	1.14E+08	1.15E+08	-1 q25.3
ENSG00000072134	-0.578	-1.4928	0.0006	0.0028 EPN2	epsin 2 [So protein_co	17	19215615	19336715	1 p11.2
ENSG00000168077	-0.5786	-1.4934	0.0118	0.0346 SCARA3	scavenger i protein_co	8	27633868	27676776	1 p21.1
ENSG00000079691	-0.5787	-1.4935	5.27E-06	3.89E-05 LRRC16A	leucine rich protein_co	6	25279078	25620530	1 p22.2
ENSG00000126391	-0.5789	-1.4937	4.83E-06	3.60E-05 FRMD8	FERM dom protein_co	11	65386599	65413525	1 q13.1
ENSG00000082497	-0.5789	-1.4937	0.0029	0.0106 SERTAD4	SERTA dor protein_co	1	2.1E+08	2.1E+08	1 q32.2
ENSG00000081377	-0.5793	-1.4941	8.33E-08	9.30E-07 CDC14B	cell divisior protein_co	9	96490241	96619830	-1 q22.33
ENSG00000161202	-0.5794	-1.4942	1.66E-07	1.73E-06 DVL3	dishevellec protein_co	3	1.84E+08	1.84E+08	1 q27.1
ENSG00000105771	-0.5794	-1.4942	3.79E-05	0.0002 SMG9	SMG9 non: protein_co	19	43727992	43754990	-1 q13.31
ENSG00000103067	-0.5796	-1.4944	1.02E-06	8.88E-06 ESRP2	epithelial s protein_co	16	68229111	68238102	-1 q22.1
ENSG00000111885	-0.5797	-1.4945	0.0091	0.028 MAN1A1	mannosida protein_co	6	1.19E+08	1.19E+08	-1 q22.31
ENSG00000213516	-0.5797	-1.4946	1.92E-05	0.0001 RBMXL1	RNA bindin protein_co	1	88979456	88992960	-1 p22.2
ENSG00000176095	-0.5799	-1.4948	2.44E-05	0.0002 IP6K1	inositol he: protein_co	3	49724294	49786542	-1 p21.31
ENSG00000117139	-0.5801	-1.495	7.06E-09	1.02E-07 KDM5B	lysine (K)-s protein_co	1	2.03E+08	2.03E+08	-1 q32.1
ENSG00000147421	-0.5801	-1.495	2.26E-05	0.0001 HMBOX1	homeobox protein_co	8	28890394	29064764	1 p21.1
ENSG00000183421	-0.5802	-1.4951	0.0012	0.0048 RIPK4	receptor-in protein_co	21	41739369	41767106	-1 q22.3
ENSG00000277534	-0.5803	-1.4952	0.002	0.0076 RP11-9E17.1	sense_intrc	18	26542971	26545791	-1 q11.2
ENSG00000166822	-0.5805	-1.4954	1.87E-06	1.53E-05 TMEM170A	transmemk protein_co	16	75443054	75465497	-1 q23.1
ENSG00000167693	-0.5808	-1.4957	0.0017	0.0066 NXN	nucleoredc protein_co	17	799313	979770	-1 p13.3
ENSG00000152332	-0.5809	-1.4958	3.25E-08	3.99E-07 UHMK1	U2AF hom: protein_co	1	1.62E+08	1.63E+08	1 q23.3
ENSG00000133059	-0.5812	-1.4961	3.92E-07	3.73E-06 DSTYK	dual serine protein_co	1	2.05E+08	2.05E+08	-1 q32.1
ENSG00000163472	-0.5816	-1.4965	0.0099	0.03 TMEM79	transmemk protein_co	1	1.56E+08	1.56E+08	1 q22
ENSG00000185340	-0.5824	-1.4974	0.0063	0.0205 GAS2L1	growth arr: protein_co	22	29306582	29312785	1 q12.2
ENSG00000071967	-0.5828	-1.4977	0.0014	0.0055 CYBRD1	cytochrom protein_co	2	1.72E+08	1.72E+08	1 q31.1
ENSG00000143373	-0.5832	-1.4981	2.52E-05	0.0002 ZNF687	zinc finger protein_co	1	1.51E+08	1.51E+08	1 q21.3
ENSG00000116260	-0.5832	-1.4981	0.0068	0.0217 QSOX1	quiescin Q: protein_co	1	1.8E+08	1.8E+08	1 q25.2
ENSG00000102572	-0.5835	-1.4985	1.89E-09	3.01E-08 STK24	serine/thre protein_co	13	98445185	98577940	-1 q32.2
ENSG00000116005	-0.5839	-1.4989	1.13E-06	9.69E-06 PCYOX1	prenylcyste protein_co	2	70257386	70281191	1 p13.3
ENSG00000072121	-0.5839	-1.4989	0.0002	0.001 ZFYVE26	zinc finger, protein_co	14	67727374	67816590	-1 q24.1
ENSG00000166197	-0.584	-1.499	1.43E-06	1.20E-05 NOLC1	nucleolar a protein_co	10	1.02E+08	1.02E+08	1 q24.32

ENSG00000086062	-0.5848	-1.4998	0.0019	0.0072	B4GALT1	UDP-Gal:β protein_co	9	33104082	33167356	-1	p21.1
ENSG00000114982	-0.5852	-1.5002	4.55E-07	4.28E-06	KANSL3	KAT8 regul protein_co	2	96593170	96642787	-1	q11.2
ENSG00000143437	-0.5852	-1.5002	2.12E-06	1.69E-05	ARNT	aryl hydroc protein_co	1	1.51E+08	1.51E+08	-1	q21.3
ENSG00000099917	-0.5852	-1.5002	1.66E-05	0.0001	MED15	mediator c protein_co	22	20495913	20587632	1	q11.21
ENSG00000157827	-0.5851	-1.5002	2.95E-05	0.0002	FMNL2	formin-like protein_co	2	1.52E+08	1.53E+08	1	q23.3
ENSG00000124164	-0.5857	-1.5008	2.44E-07	2.43E-06	VAPB	VAMP (ves protein_co	20	58389122	58451101	1	q13.32
ENSG00000094631	-0.5857	-1.5008	2.83E-07	2.79E-06	HDAC6	histone de; protein_co X		48801377	48824982	1	p11.23
ENSG00000178252	-0.5859	-1.5009	2.07E-05	0.0001	WDR6	WD repeat protein_co	3	49007062	49015953	1	p21.31
ENSG00000268043	-0.5861	-1.5012	4.85E-05	0.0003	NBPF12	neuroblast protein_co	1	1.47E+08	1.47E+08	1	q21.1
ENSG00000257923	-0.5862	-1.5013	8.16E-12	2.23E-10	CUX1	cut-like ho; protein_co	7	1.02E+08	1.02E+08	1	q22.1
ENSG00000171456	-0.5866	-1.5017	1.22E-09	2.03E-08	ASXL1	additional ; protein_co	20	32358344	32439319	1	q11.21
ENSG00000136807	-0.5871	-1.5022	2.14E-05	0.0001	CDK9	cyclin-depe; protein_co	9	1.28E+08	1.28E+08	1	q34.11
ENSG00000141084	-0.5873	-1.5024	2.90E-05	0.0002	RANBP10	RAN bindin protein_co	16	67723066	67806652	-1	q22.1
ENSG00000131873	-0.5873	-1.5024	0.0011	0.0044	CHSY1	chondroitir protein_co	15	1.01E+08	1.01E+08	-1	q26.3
ENSG00000104812	-0.5874	-1.5025	8.36E-07	7.42E-06	GYS1	glycogen s; protein_co	19	48968125	48993310	-1	q13.33
ENSG0000011007	-0.5878	-1.5029	1.19E-06	1.01E-05	TCEB3	transcriptic protein_co	1	23743155	23762059	1	p36.11
ENSG00000127580	-0.5882	-1.5033	0.0003	0.0017	WDR24	WD repeat protein_co	16	684622	690444	-1	p13.3
ENSG00000166833	-0.5883	-1.5035	0.0004	0.002	NAV2	neuron nav protein_co	11	19350724	20121598	1	p15.1
ENSG00000182700	-0.5884	-1.5036	0.0005	0.0023	IGIP	IgA-inducir protein_co	5	1.4E+08	1.4E+08	1	q31.3
ENSG00000224914	-0.5886	-1.5037	0.0004	0.0021	LINC00863	long interg lincRNA	10	87342736	87357882	1	q23.2
ENSG00000115275	-0.5887	-1.5039	4.34E-05	0.0003	MOGS	mannosyl-; protein_co	2	74461057	74465410	-1	p13.1
ENSG00000134247	-0.5887	-1.5039	0.0001	0.0006	PTGFRN	prostaglan; protein_co	1	1.17E+08	1.17E+08	1	p13.1
ENSG00000166326	-0.5889	-1.5041	1.04E-10	2.23E-09	TRIM44	tripartite r; protein_co	11	35662805	35818007	1	p13
ENSG00000241399	-0.5891	-1.5043	0.0035	0.0124	CD302	CD302 mol protein_co	2	1.6E+08	1.6E+08	-1	q24.2
ENSG00000196363	-0.5892	-1.5044	7.18E-06	5.18E-05	WDR5	WD repeat protein_co	9	1.34E+08	1.34E+08	1	q34.2
ENSG00000106348	-0.5891	-1.5044	0.0003	0.0013	IMPDH1	IMP (inosin protein_co	7	1.28E+08	1.28E+08	-1	q32.1
ENSG00000126001	-0.5893	-1.5046	0.0075	0.0236	CEP250	centrosom protein_co	20	35455164	35519280	1	q11.22
ENSG00000179409	-0.5895	-1.5047	2.04E-06	1.64E-05	GEMIN4	gem (nucle protein_co	17	744414	753999	-1	p13.3
ENSG00000152291	-0.5897	-1.5049	1.65E-06	1.36E-05	TGOLN2	trans-golgi protein_co	2	85318020	85328425	-1	p11.2
ENSG00000178229	-0.5903	-1.5055	0.0038	0.0133	ZNF543	zinc finger protein_co	19	57320509	57330776	1	q13.43
ENSG00000270696	-0.5903	-1.5056	0.0001	0.0007	RP11-342K6.1	antisense	2	75660462	75662208	1	p12
ENSG00000227372	-0.5907	-1.5059	0.0002	0.0008	TP73-AS1	TP73 antisε antisense	1	3735601	3747336	-1	p36.32
ENSG00000100426	-0.5907	-1.506	5.25E-05	0.0003	ZBED4	zinc finger, protein_co	22	49853842	49890078	1	q13.33
ENSG00000101216	-0.5909	-1.5062	0.0001	0.0007	GMEB2	glucocortic protein_co	20	63587602	63627041	-1	q13.33
ENSG00000164855	-0.5911	-1.5064	9.60E-06	6.74E-05	TMEM184A	transmemk protein_co	7	1542235	1560821	-1	p22.3
ENSG00000167987	-0.5914	-1.5067	1.49E-05	9.96E-05	VPS37C	vacuolar pr protein_co	11	61130256	61161617	-1	q12.2
ENSG00000096717	-0.5915	-1.5068	0.0002	0.0011	SIRT1	sirtuin 1 [S; protein_co	10	67884669	67918390	1	q21.3

ENSG00000170145	-0.5929	-1.5082	0.0003	0.0014 SIK2	salt-inducit protein_co	11	1.12E+08	1.12E+08	1 q23.1
ENSG00000184058	-0.5929	-1.5083	0.0018	0.007 TBX1	T-box 1 [So protein_co	22	19756703	19783593	1 q11.21
ENSG00000172264	-0.5931	-1.5085	0.0031	0.0111 MACROD2	MACRO do protein_co	20	13995369	16053197	1 p12.1
ENSG00000250312	-0.5931	-1.5085	0.0143	0.041 ZNF718	zinc finger protein_co	4	124480	163989	1 p16.3
ENSG00000166444	-0.5933	-1.5087	5.20E-10	9.48E-09 ST5	suppressio protein_co	11	8693351	8910951	-1 p15.4
ENSG00000099960	-0.5938	-1.5092	0.011	0.0327 SLC7A4	solute carri protein_co	22	21028718	21032840	-1 q11.21
ENSG00000182749	-0.5939	-1.5093	0.0011	0.0046 PAQR7	progestin a protein_co	1	25861210	25871253	-1 p36.11
ENSG00000184640	-0.5942	-1.5097	6.66E-05	0.0004	09-Sep septin 9 [Sc protein_co	17	77280569	77500596	1 q25.3
ENSG00000134324	-0.5944	-1.5098	0.0012	0.005 LPIN1	lipin 1 [Sou protein_co	2	11677595	11827409	1 p25.1
ENSG00000105983	-0.5946	-1.51	5.13E-10	9.36E-09 LMBR1	limb devel protein_co	7	1.57E+08	1.57E+08	-1 q36.3
ENSG00000088256	-0.5946	-1.5101	1.30E-08	1.73E-07 GNA11	guanine nu protein_co	19	3094410	3124004	1 p13.3
ENSG00000090863	-0.5948	-1.5102	6.63E-05	0.0004 GLG1	golgi glyco protein_co	16	74451958	74607114	-1 q23.1
ENSG00000166889	-0.595	-1.5105	1.48E-08	1.95E-07 PATL1	protein ass protein_co	11	59636716	59668980	-1 q12.1
ENSG00000101337	-0.595	-1.5105	1.18E-07	1.27E-06 TM9SF4	transmemt protein_co	20	32109506	32167258	1 q11.21
ENSG00000130164	-0.595	-1.5105	0.0051	0.017 LDLR	low density protein_co	19	11089362	11133816	1 p13.2
ENSG00000110497	-0.5951	-1.5106	2.75E-05	0.0002 AMBRA1	autophagy, protein_co	11	46396414	46594125	-1 p11.2
ENSG00000148331	-0.5951	-1.5106	0.0046	0.0154 ASB6	ankyrin re protein_co	9	1.3E+08	1.3E+08	-1 q34.11
ENSG00000196235	-0.5955	-1.511	4.23E-07	4.01E-06 SUPT5H	suppressor protein_co	19	39436156	39476670	1 q13.2
ENSG00000163249	-0.5956	-1.5111	1.24E-05	8.44E-05 CCNYL1	cyclin Y-like protein_co	2	2.08E+08	2.08E+08	1 q33.3
ENSG00000184992	-0.5957	-1.5112	1.11E-06	9.60E-06 BRI3BP	BRI3 bindir protein_co	12	1.25E+08	1.25E+08	1 q24.31
ENSG00000021762	-0.5957	-1.5112	7.42E-05	0.0004 OSBPL5	oxysterol b protein_co	11	3087116	3166739	-1 p15.4
ENSG00000116731	-0.596	-1.5115	9.08E-06	6.40E-05 PRDM2	PR domain protein_co	1	13700198	13825079	1 p36.21
ENSG00000156515	-0.5964	-1.5119	4.10E-07	3.88E-06 HK1	hexokinase protein_co	10	69269984	69401882	1 q22.1
ENSG00000239306	-0.5969	-1.5124	5.23E-05	0.0003 RBM14	RNA bindin protein_co	11	66616582	66627347	1 q13.2
ENSG00000012232	-0.5969	-1.5125	0.001	0.0041 EXTL3	exostosin-I protein_co	8	28600469	28755599	1 p21.1
ENSG00000149131	-0.597	-1.5126	0.0041	0.014 SERPING1	serpin pepi protein_co	11	57597387	57614853	1 q12.1
ENSG00000163050	-0.5973	-1.5128	0.0099	0.03 ADCK3	aarF domai protein_co	1	2.27E+08	2.27E+08	1 q42.13
ENSG00000141556	-0.5975	-1.5131	1.47E-05	9.87E-05 TBCD	tubulin folc protein_co	17	82752064	82942848	1 q25.3
ENSG00000167257	-0.5976	-1.5132	4.10E-07	3.89E-06 RNF214	ring finger protein_co	11	1.17E+08	1.17E+08	1 q23.3
ENSG00000008256	-0.5978	-1.5134	8.92E-05	0.0005 CYTH3	cytohesin 3 protein_co	7	6161776	6272644	-1 p22.1
ENSG00000143067	-0.598	-1.5136	0.0063	0.0204 ZNF697	zinc finger protein_co	1	1.2E+08	1.2E+08	-1 p12
ENSG00000156463	-0.5983	-1.5139	0.0033	0.0118 SH3RF2	SH3 domai protein_co	5	1.46E+08	1.46E+08	1 q32
ENSG00000160888	-0.5985	-1.5142	6.28E-11	1.41E-09 IER2	immediate protein_co	19	13150415	13154908	1 p13.13
ENSG00000149187	-0.5987	-1.5143	3.58E-18	4.66E-16 CELF1	CUGBP, Ela protein_co	11	47465944	47565569	-1 p11.2
ENSG00000176953	-0.5988	-1.5145	2.75E-08	3.41E-07 NFATC2IP	nuclear fac protein_co	16	28950807	28967097	1 p11.2
ENSG00000159212	-0.5989	-1.5146	0.0012	0.005 CLIC6	chloride int protein_co	21	34669389	34718227	1 q22.12
ENSG00000173548	-0.5996	-1.5153	7.91E-08	8.89E-07 SNX33	sorting nex protein_co	15	75647906	75662301	1 q24.2

ENSG00000106789	-0.5998	-1.5155	5.84E-07	5.35E-06	CORO2A	coronin, ac protein_co	9	98120975	98192640	-1	q22.33
ENSG00000107164	-0.6002	-1.5159	2.89E-12	8.81E-11	FUBP3	far upstrea protein_co	9	1.31E+08	1.31E+08	1	q34.11
ENSG00000172081	-0.6006	-1.5163	0.0001	0.0006	MOB3A	MOB kinas protein_co	19	2071038	2096673	-1	p13.3
ENSG00000167258	-0.6007	-1.5165	3.88E-08	4.69E-07	CDK12	cyclin-depe protein_co	17	39461511	39564907	1	q12
ENSG00000179277	-0.601	-1.5167	0.0001	0.0007	MEIS3P1	Meis home processed_	17	15786618	15787575	1	p12
ENSG00000163637	-0.6015	-1.5173	0.0002	0.0008	PRICKLE2	prickle hon protein_co	3	64093867	64445476	-1	p14.1
ENSG00000100811	-0.6021	-1.5179	7.63E-12	2.10E-10	YY1	YY1 transcr protein_co	14	1E+08	1E+08	1	q32.2
ENSG00000130559	-0.6022	-1.518	0.0011	0.0047	CAMSAP1	calmodulin protein_co	9	1.36E+08	1.36E+08	-1	q34.3
ENSG00000007866	-0.6028	-1.5186	2.22E-08	2.81E-07	TEAD3	TEA domai protein_co	6	35473597	35497076	-1	p21.31
ENSG00000188112	-0.6028	-1.5186	0.0006	0.0027	C6orf132	chromoson protein_co	6	42101118	42142619	-1	p21.1
ENSG00000137414	-0.6033	-1.5191	1.14E-06	9.76E-06	FAM8A1	family with protein_co	6	17600355	17611719	1	p22.3
ENSG00000227640	-0.6033	-1.5192	5.98E-05	0.0003	SOX21-AS1	SOX21 anti lincRNA	13	94712716	94716246	1	q32.1
ENSG00000119537	-0.6037	-1.5196	2.11E-05	0.0001	KDSR	3-ketodihy protein_co	18	63327726	63367510	-1	q21.33
ENSG00000162923	-0.6038	-1.5197	2.26E-08	2.86E-07	WDR26	WD repeat protein_co	1	2.24E+08	2.24E+08	-1	q42.12
ENSG00000197323	-0.6038	-1.5198	4.64E-12	1.34E-10	TRIM33	tripartite r protein_co	1	1.14E+08	1.15E+08	-1	p13.2
ENSG00000188786	-0.6042	-1.5202	9.03E-05	0.0005	MTF1	metal-regu protein_co	1	37809567	37859620	-1	p34.3
ENSG00000063660	-0.6045	-1.5204	0.0013	0.0053	GPC1	glypican 1  protein_co	2	2.4E+08	2.4E+08	1	q37.3
ENSG00000163945	-0.6047	-1.5206	0.0004	0.0018	UVSSA	UV-stimula protein_co	4	1347266	1388049	1	p16.3
ENSG00000109320	-0.6052	-1.5212	1.54E-07	1.62E-06	NFKB1	nuclear fac protein_co	4	1.03E+08	1.03E+08	1	q24
ENSG00000271643	-0.6052	-1.5212	0.0034	0.012	RP11-10C24.3	lincRNA	3	33795688	33796950	-1	p22.3
ENSG00000119280	-0.6053	-1.5213	2.17E-06	1.74E-05	C1orf198	chromoson protein_co	1	2.31E+08	2.31E+08	-1	q42.2
ENSG00000137486	-0.6054	-1.5214	0.0078	0.0243	ARRB1	arrestin, be protein_co	11	75264182	75351705	-1	q13.4
ENSG00000089060	-0.6056	-1.5216	2.67E-05	0.0002	SLC8B1	solute carri protein_co	12	1.13E+08	1.13E+08	-1	q24.13
ENSG00000145103	-0.6056	-1.5216	0.0002	0.0008	ILDR1	immunogl protein_co	3	1.22E+08	1.22E+08	-1	q13.33
ENSG00000178996	-0.6063	-1.5224	7.92E-12	2.17E-10	SNX18	sorting nex protein_co	5	54517759	54546585	1	q11.2
ENSG00000099812	-0.6066	-1.5227	0.0002	0.0009	MISP	mitotic spir protein_co	19	751126	764319	1	p13.3
ENSG00000065320	-0.6072	-1.5233	0.002	0.0075	NTN1	netrin 1 [Sc protein_co	17	9021542	9244000	1	p13.1
ENSG00000173218	-0.6073	-1.5234	1.58E-05	0.0001	VANGL1	VANGL pla protein_co	1	1.16E+08	1.16E+08	1	p13.1
ENSG00000116198	-0.6074	-1.5235	1.29E-08	1.72E-07	CEP104	centrosom protein_co	1	3812081	3857214	-1	p36.32
ENSG00000167566	-0.6074	-1.5236	0.0011	0.0046	NCKAP5L	NCK-associ protein_co	12	49791146	49828750	-1	q13.12
ENSG00000113360	-0.6076	-1.5237	1.44E-06	1.20E-05	DROSHA	drosha, rib protein_co	5	31400497	31532196	-1	p13.3
ENSG00000103507	-0.6077	-1.5238	6.03E-05	0.0003	BCKDK	branched c protein_co	16	31106107	31112791	1	p11.2
ENSG00000156858	-0.6076	-1.5238	0.0009	0.0037	PRR14	proline rich protein_co	16	30650717	30656440	1	p11.2
ENSG00000153944	-0.6078	-1.5239	6.28E-07	5.72E-06	MSI2	musashi R protein_co	17	57255851	57684685	1	q22
ENSG00000173473	-0.6081	-1.5242	1.84E-07	1.90E-06	SMARCC1	SWI/SNF re protein_co	3	47585272	47782106	-1	p21.31
ENSG00000204574	-0.608	-1.5242	7.60E-06	5.45E-05	ABCF1	ATP-bindin protein_co	6	30571376	30597179	1	p21.33
ENSG00000204138	-0.608	-1.5242	2.61E-05	0.0002	PHACTR4	phosphata: protein_co	1	28369603	28500369	1	p35.3



ENSG00000274180	-0.6082	-1.5243	4.96E-07	4.62E-06	NATD1	N-acetyltra protein_co	17	21238870	21253410	-1	p11.2
ENSG00000167930	-0.6084	-1.5246	0.0015	0.0058	ITFG3	integrin al $\beta$ protein_co	16	234546	268971	1	p13.3
ENSG00000143641	-0.6084	-1.5246	0.0092	0.0282	GALNT2	polypeptid protein_co	1	2.3E+08	2.3E+08	1	q42.13
ENSG00000119408	-0.6088	-1.525	4.79E-07	4.48E-06	NEK6	NIMA-relat protein_co	9	1.24E+08	1.24E+08	1	q33.3
ENSG00000156017	-0.6088	-1.525	0.0001	0.0006	C9orf41	chromoson protein_co	9	74981020	75028423	-1	q21.13
ENSG00000174282	-0.6098	-1.5261	3.98E-09	5.97E-08	ZBTB4	zinc finger protein_co	17	7459366	7484263	-1	p13.1
ENSG00000137478	-0.61	-1.5262	5.67E-07	5.22E-06	FCHSD2	FCH and dc protein_co	11	72836745	73142261	-1	q13.4
ENSG00000185883	-0.6104	-1.5266	0.0005	0.0021	ATP6VOC	ATPase, H <sup>+</sup> protein_co	16	2513726	2520223	1	p13.3
ENSG00000139835	-0.6105	-1.5268	0.0046	0.0156	GRTP1	growth hor protein_co	13	1.13E+08	1.13E+08	-1	q34
ENSG00000104067	-0.6106	-1.5269	1.87E-08	2.39E-07	TJP1	tight juncti protein_co	15	29699367	29968865	-1	q13.1
ENSG00000168395	-0.6108	-1.5271	5.54E-05	0.0003	ING5	inhibitor of protein_co	2	2.42E+08	2.42E+08	1	q37.3
ENSG00000163378	-0.6112	-1.5275	8.38E-06	5.94E-05	EOGT	EGF domai protein_co	3	68975214	69013961	-1	p14.1
ENSG00000146281	-0.6113	-1.5276	0.0011	0.0046	PM20D2	peptidase I protein_co	6	89146050	89165565	1	q15
ENSG00000132612	-0.6118	-1.5281	0.0004	0.0019	VPS4A	vacuolar pr protein_co	16	69311356	69326939	1	q22.1
ENSG00000106665	-0.6119	-1.5283	0.002	0.0075	CLIP2	CAP-GLY dc protein_co	7	74289475	74405943	1	q11.23
ENSG00000142453	-0.6122	-1.5286	4.01E-08	4.83E-07	CARM1	coactivator protein_co	19	10871513	10923070	1	p13.2
ENSG0000014164	-0.6125	-1.5289	0.0005	0.0023	ZC3H3	zinc finger protein_co	8	1.43E+08	1.44E+08	-1	q24.3
ENSG00000066739	-0.6126	-1.529	4.31E-11	1.00E-09	ATG2B	autophagy protein_co	14	96281258	96363870	-1	q32.2
ENSG00000153786	-0.6126	-1.529	1.36E-07	1.45E-06	ZDHHC7	zinc finger, protein_co	16	84974181	85011535	-1	q24.1
ENSG00000165521	-0.6128	-1.5293	0.0165	0.046	EML5	echinoderr protein_co	14	88612431	88792752	-1	q31.3
ENSG00000157625	-0.613	-1.5295	1.89E-08	2.43E-07	TAB3	TGF-beta a protein_co X		30827442	30975084	-1	p21.2
ENSG00000260804	-0.6132	-1.5296	0.0005	0.0023	PKI55	DKFZp434f lincRNA	2	2.16E+08	2.16E+08	1	q35
ENSG00000163428	-0.6136	-1.53	4.76E-08	5.62E-07	LRRC58	leucine rich protein_co	3	1.2E+08	1.2E+08	-1	q13.33
ENSG00000061938	-0.6142	-1.5307	3.37E-06	2.59E-05	TNK2	tyrosine kir protein_co	3	1.96E+08	1.96E+08	-1	q29
ENSG00000038219	-0.6143	-1.5308	1.02E-09	1.73E-08	BOD1L1	bioorientati protein_co	4	13568738	13627723	-1	p15.33
ENSG00000131263	-0.6144	-1.5309	7.30E-14	3.26E-12	RLIM	ring finger protein_co X		74585217	74614617	-1	q13.2
ENSG00000127483	-0.6145	-1.531	1.20E-08	1.62E-07	HP1BP3	heterochrc protein_co	1	20742661	20787323	-1	p36.12
ENSG00000116903	-0.6148	-1.5313	2.14E-07	2.17E-06	EXOC8	exocyst cor protein_co	1	2.31E+08	2.31E+08	-1	q42.2
ENSG00000166471	-0.615	-1.5315	8.21E-05	0.0005	TMEM41B	transmemt protein_co	11	9280654	9314780	-1	p15.4
ENSG00000104880	-0.6151	-1.5316	0.0005	0.0021	ARHGEF18	Rho/Rac gl protein_co	19	7395113	7472477	1	p13.2
ENSG00000273136	-0.6155	-1.5321	0.0021	0.0081	CH17-3B23.1	Uncharacte protein_co	1	1.21E+08	1.21E+08	1	p11.2
ENSG00000139436	-0.6158	-1.5324	6.06E-07	5.54E-06	GIT2	G protein-c protein_co	12	1.1E+08	1.1E+08	-1	q24.11
ENSG00000134644	-0.616	-1.5326	8.29E-11	1.81E-09	PUM1	pumilio RN protein_co	1	30931506	31065991	-1	p35.2
ENSG00000004975	-0.6164	-1.5331	1.67E-08	2.17E-07	DVL2	dishevellec protein_co	17	7225341	7234545	-1	p13.1
ENSG00000162063	-0.6165	-1.5331	0.0134	0.0389	CCNF	cyclin F [So protein_co	16	2429394	2458854	1	p13.3
ENSG00000115020	-0.617	-1.5337	4.24E-09	6.32E-08	PIKFYVE	phosphoini protein_co	2	2.08E+08	2.08E+08	1	q34
ENSG00000150593	-0.617	-1.5337	4.59E-09	6.78E-08	PDCD4	programm protein_co	10	1.11E+08	1.11E+08	1	q25.2

ENSG0000008083	-0.6171	-1.5338	4.17E-07	3.95E-06	JARID2	jumonji, AT protein_co	6	15246296	15522040	1	p22.3
ENSG00000182831	-0.6178	-1.5345	2.37E-07	2.37E-06	C16orf72	chromosom protein_co	16	9091648	9121640	1	p13.2
ENSG00000055332	-0.6185	-1.5352	4.76E-09	7.02E-08	EIF2AK2	eukaryotic protein_co	2	37099210	37157065	-1	p22.2
ENSG00000159692	-0.6186	-1.5354	1.93E-08	2.47E-07	CTBP1	C-terminal protein_co	4	1211448	1249953	-1	p16.3
ENSG00000140396	-0.6187	-1.5354	2.67E-07	2.64E-06	NCOA2	nuclear rec protein_co	8	70109762	70403805	-1	q13.3
ENSG00000089639	-0.6187	-1.5355	0.0006	0.0026	GMIP	GEM inter: protein_co	19	19629476	19643667	-1	p13.11
ENSG00000197324	-0.6191	-1.536	3.24E-05	0.0002	LRP10	low density protein_co	14	22871613	22881580	1	q11.2
ENSG00000102119	-0.6193	-1.5361	8.50E-07	7.53E-06	EMD	emerin [So protein_co X		1.54E+08	1.54E+08	1	q28
ENSG00000168916	-0.62	-1.5369	0.0009	0.0038	ZNF608	zinc finger protein_co	5	1.25E+08	1.25E+08	-1	q23.2
ENSG00000107957	-0.6203	-1.5372	7.59E-05	0.0004	SH3PXD2A	SH3 and PX protein_co	10	1.04E+08	1.04E+08	-1	q24.33
ENSG00000141577	-0.6203	-1.5372	0.0116	0.0343	CEP131	centrosom protein_co	17	81189593	81222999	-1	q25.3
ENSG00000154556	-0.6204	-1.5373	0.0002	0.0009	SORBS2	sorbin and protein_co	4	1.86E+08	1.86E+08	-1	q35.1
ENSG00000156671	-0.6208	-1.5377	8.80E-11	1.92E-09	SAMD8	sterile alph protein_co	10	75099586	75182123	1	q22.2
ENSG00000165406	-0.6208	-1.5377	1.02E-06	8.83E-06	MARCH8	membrane protein_co	10	45454585	45594906	-1	q11.22
ENSG00000279348	-0.6209	-1.5378	0.0002	0.0008	RP11-566E18.1	TEC	2	2.16E+08	2.16E+08	1	q35
ENSG00000165572	-0.621	-1.538	2.49E-06	1.97E-05	KBTBD6	kelch repe: protein_co	13	41127569	41132746	-1	q14.11
ENSG00000134815	-0.6211	-1.5381	0.003	0.0107	DHX34	DEAH (Asp. protein_co	19	47349281	47382704	1	q13.32
ENSG00000167323	-0.6212	-1.5382	1.95E-05	0.0001	STIM1	stromal int protein_co	11	3854527	4093210	1	p15.4
ENSG00000083307	-0.6214	-1.5384	1.48E-06	1.24E-05	GRHL2	grainyhead protein_co	8	1.01E+08	1.02E+08	1	q22.3
ENSG00000198146	-0.6215	-1.5385	1.69E-15	1.11E-13	ZNF770	zinc finger protein_co	15	34978341	34988287	-1	q14
ENSG00000204256	-0.6219	-1.5389	9.03E-10	1.54E-08	BRD2	bromodom protein_co	6	32968660	32981505	1	p21.32
ENSG00000131473	-0.622	-1.539	1.30E-06	1.10E-05	ACLY	ATP citrate protein_co	17	41866908	41930542	-1	q21.2
ENSG00000110042	-0.622	-1.539	0.0003	0.0013	DTX4	deltex 4, E: protein_co	11	59171430	59208587	1	q12.1
ENSG00000101276	-0.622	-1.539	0.002	0.0077	SLC52A3	solute carri protein_co	20	760080	768487	-1	p13
ENSG00000141858	-0.6221	-1.5391	0.0005	0.0022	SAMD1	sterile alph protein_co	19	14087840	14091036	-1	p13.12
ENSG00000114861	-0.6223	-1.5393	6.23E-07	5.67E-06	FOXP1	forkhead b protein_co	3	70954693	71583989	-1	p13
ENSG00000175414	-0.6223	-1.5393	0.0002	0.0008	ARL10	ADP-ribosy protein_co	5	1.76E+08	1.76E+08	1	q35.2
ENSG00000196781	-0.6223	-1.5393	0.0003	0.0014	TLE1	transducin. protein_co	9	81583683	81689305	-1	q21.32
ENSG00000130590	-0.6225	-1.5395	0.0026	0.0094	SAMD10	sterile alph protein_co	20	63974113	63980008	-1	q13.33
ENSG00000110841	-0.6225	-1.5396	0.0001	0.0008	PPFIBP1	PTPRF inte: protein_co	12	27523431	27695564	1	p11.23
ENSG00000179364	-0.623	-1.5401	5.92E-06	4.34E-05	PACS2	phosphofu protein_co	14	1.05E+08	1.05E+08	1	q32.33
ENSG00000213918	-0.623	-1.5401	0.0007	0.003	DNASE1	deoxyribor protein_co	16	3611728	3680143	1	p13.3
ENSG00000105397	-0.6232	-1.5403	1.55E-06	1.28E-05	TYK2	tyrosine kir protein_co	19	10350529	10380676	-1	p13.2
ENSG00000185163	-0.6233	-1.5404	7.61E-05	0.0004	DDX51	DEAD (Asp. protein_co	12	1.32E+08	1.32E+08	-1	q24.33
ENSG00000125534	-0.6235	-1.5406	1.20E-06	1.03E-05	PPDPF	pancreatic protein_co	20	63520724	63522206	1	q13.33
ENSG00000140548	-0.6235	-1.5406	0.0007	0.003	ZNF710	zinc finger protein_co	15	90001392	90082206	1	q26.1
ENSG00000261116	-0.6236	-1.5407	7.93E-06	5.66E-05	RP3-523K23.2	sense_ovei	6	54943167	54945099	1	p12.1

ENSG00000177045	-0.6241	-1.5412	7.47E-05	0.0004	SIX5	SIX homeol protein_co	19	45764785	45769226	-1	q13.32
ENSG00000166925	-0.6242	-1.5413	1.75E-09	2.81E-08	TSC22D4	TSC22 dom protein_co	7	1E+08	1E+08	-1	q22.1
ENSG00000159842	-0.6248	-1.542	3.15E-07	3.07E-06	ABR	active BCR- protein_co	17	1003518	1229021	-1	p13.3
ENSG00000161921	-0.6248	-1.542	0.0002	0.001	CXCL16	chemokine protein_co	17	4733526	4739922	-1	p13.2
ENSG00000269044	-0.6252	-1.5425	0.0035	0.0122	CTC-429P9.3	sense_intr	19	16633797	16635269	-1	p13.11
ENSG00000228594	-0.6254	-1.5426	0.0038	0.0133	C1orf233	chromosom protein_co	1	1598011	1600096	-1	p36.33
ENSG00000124788	-0.6254	-1.5427	8.08E-09	1.14E-07	ATXN1	ataxin 1 [Sc protein_co	6	16299112	16761491	-1	p22.3
ENSG00000141664	-0.6258	-1.5431	1.07E-06	9.29E-06	ZCCHC2	zinc finger, protein_co	18	62523007	62587709	1	q21.33
ENSG00000064270	-0.6259	-1.5431	1.82E-05	0.0001	ATP2C2	ATPase, Ca protein_co	16	84368527	84464187	1	q24.1
ENSG00000174705	-0.6258	-1.5431	0.0002	0.0011	SH3PXD2B	SH3 and PX protein_co	5	1.72E+08	1.72E+08	-1	q35.1
ENSG00000205664	-0.6261	-1.5434	0.0114	0.0336	RP11-706O15.1	lincRNA X		3817528	3843857	-1	p22.33
ENSG00000109089	-0.6263	-1.5435	0.0046	0.0156	CDR2L	cerebellar r protein_co	17	74987632	75005800	1	q25.1
ENSG00000140691	-0.6268	-1.5442	0.0034	0.012	ARMC5	armadillo r protein_co	16	31458080	31467166	1	p11.2
ENSG00000134744	-0.627	-1.5444	3.73E-05	0.0002	ZCCHC11	zinc finger, protein_co	1	52408282	52553487	-1	p32.3
ENSG00000164078	-0.6274	-1.5448	7.38E-05	0.0004	MST1R	macrophag protein_co	3	49887002	49903873	-1	p21.31
ENSG00000184708	-0.6278	-1.5452	2.49E-06	1.96E-05	EIF4ENIF1	eukaryotic protein_co	22	31436977	31496108	-1	q12.2
ENSG00000155592	-0.6288	-1.5462	0.0028	0.01	ZKSCAN2	zinc finger protein_co	16	25236001	25257931	-1	p12.1
ENSG00000054219	-0.6291	-1.5466	7.46E-05	0.0004	LY75	lymphocyte protein_co	2	1.6E+08	1.6E+08	-1	q24.2
ENSG00000213699	-0.6293	-1.5468	0.0002	0.0012	SLC35F6	solute carri protein_co	2	26764284	26781231	1	p23.3
ENSG00000172986	-0.6295	-1.5471	0.0026	0.0096	GXYLT2	glucoside x protein_co	3	72888073	72998138	1	p13
ENSG00000063601	-0.6298	-1.5474	2.25E-10	4.52E-09	MTMR1	myotubula protein_co X		1.51E+08	1.51E+08	1	q28
ENSG00000120451	-0.6299	-1.5474	3.14E-08	3.86E-07	SNX19	sorting nex protein_co	11	1.31E+08	1.31E+08	-1	q25
ENSG00000125484	-0.6301	-1.5477	2.34E-10	4.67E-09	GTF3C4	general tra protein_co	9	1.33E+08	1.33E+08	1	q34.13
ENSG00000151746	-0.6304	-1.548	0.0124	0.0363	BICD1	bicaudal D protein_co	12	32106835	32383633	1	p11.21
ENSG00000188191	-0.631	-1.5486	0.0063	0.0204	PRKAR1B	protein kin protein_co	7	549197	727650	-1	p22.3
ENSG00000149577	-0.6311	-1.5488	4.65E-06	3.47E-05	SIDT2	SID1 transr protein_co	11	1.17E+08	1.17E+08	1	q23.3
ENSG00000259953	-0.6312	-1.5489	0.004	0.0137	RP11-4O1.2	sense_ovei	9	1.12E+08	1.12E+08	-1	q31.3
ENSG00000051382	-0.6316	-1.5493	1.21E-07	1.30E-06	PIK3CB	phosphatic protein_co	3	1.39E+08	1.39E+08	-1	q22.3
ENSG00000189241	-0.6316	-1.5493	5.95E-07	5.45E-06	TSPYL1	TSPY-like 1 protein_co	6	1.16E+08	1.16E+08	-1	q22.1
ENSG00000109066	-0.6318	-1.5495	0.0005	0.0024	TMEM104	transmemk protein_co	17	74776483	74839779	1	q25.1
ENSG00000076067	-0.6319	-1.5496	2.31E-05	0.0001	RBMS2	RNA bindin protein_co	12	56521929	56596196	1	q13.3
ENSG00000179134	-0.6324	-1.5501	4.42E-09	6.56E-08	SAMD4B	sterile alph protein_co	19	39342396	39385710	1	q13.2
ENSG00000124766	-0.6326	-1.5503	5.98E-06	4.38E-05	SOX4	SRY (sex de protein_co	6	21592769	21598619	1	p22.3
ENSG00000138119	-0.6327	-1.5504	2.93E-05	0.0002	MYOF	myoferlin [ protein_co	10	93306429	93482317	-1	q23.33
ENSG00000270647	-0.6328	-1.5505	1.37E-05	9.24E-05	TAF15	TAF15 RNA protein_co	17	35713791	35864615	1	q12
ENSG00000197818	-0.6327	-1.5505	0.0006	0.0026	SLC9A8	solute carri protein_co	20	49812713	49892242	1	q13.13
ENSG00000124313	-0.6333	-1.5511	0.0003	0.0014	IQSEC2	IQ motif an protein_co X		53232876	53321324	-1	p11.22

ENSG00000112290	-0.6335	-1.5513	0.0052	0.0173	WASF1	WAS prote protein_co	6	1.1E+08	1.1E+08	-1 q21
ENSG00000066382	-0.6336	-1.5515	4.71E-05	0.0003	MPPED2	metallophc protein_co	11	30384493	30586872	-1 p14.1
ENSG00000189337	-0.634	-1.5519	0.0019	0.0073	KAZN	kazrin, peri protein_co	1	14598704	15118043	1 p36.21
ENSG00000161013	-0.6342	-1.5521	0.0003	0.0014	MGAT4B	mannosyl ( protein_co	5	1.8E+08	1.8E+08	-1 q35.3
ENSG00000109458	-0.6343	-1.5522	3.91E-07	3.72E-06	GAB1	GRB2-asso protein_co	4	1.43E+08	1.43E+08	1 q31.21
ENSG00000198742	-0.6344	-1.5523	2.36E-06	1.88E-05	SMURF1	SMAD spec protein_co	7	99027438	99144100	-1 q22.1
ENSG00000169851	-0.6347	-1.5526	0.0076	0.0239	PCDH7	protocadhe protein_co	4	30720415	31146805	1 p15.1
ENSG00000107249	-0.6351	-1.553	9.78E-05	0.0005	GLIS3	GLIS family protein_co	9	3824127	4348392	-1 p24.2
ENSG00000144645	-0.6361	-1.5541	2.18E-06	1.74E-05	OSBPL10	oxysterol b protein_co	3	31657890	32077580	-1 p22.3
ENSG00000070756	-0.636	-1.5541	4.35E-06	3.27E-05	PABPC1	poly(A) bin protein_co	8	1.01E+08	1.01E+08	-1 q22.3
ENSG00000077157	-0.6363	-1.5543	5.92E-05	0.0003	PPP1R12B	protein phi protein_co	1	2.02E+08	2.03E+08	1 q32.1
ENSG00000091542	-0.6369	-1.5549	3.94E-08	4.75E-07	ALKBH5	AlkB family protein_co	17	18183078	18209954	1 p11.2
ENSG00000136997	-0.6368	-1.5549	0.0002	0.0009	MYC	v-myc avia protein_co	8	1.28E+08	1.28E+08	1 q24.21
ENSG00000140497	-0.6373	-1.5554	3.74E-07	3.58E-06	SCAMP2	secretory c protein_co	15	74843730	74873365	-1 q24.1
ENSG00000074855	-0.6375	-1.5556	9.95E-05	0.0005	ANO8	anoctamin protein_co	19	17323223	17334829	-1 p13.11
ENSG00000124181	-0.6379	-1.5561	0.0011	0.0044	PLCG1	phospholip protein_co	20	41136960	41196787	1 q12
ENSG00000137449	-0.6382	-1.5564	0.0018	0.0071	CPEB2	cytoplasmic protein_co	4	15002674	15070153	1 p15.32
ENSG00000213064	-0.6384	-1.5566	2.79E-09	4.32E-08	SFT2D2	SFT2 doma protein_co	1	1.68E+08	1.68E+08	1 q24.2
ENSG00000107099	-0.6393	-1.5575	0.001	0.0043	DOCK8	dedicator c protein_co	9	214854	465259	1 p24.3
ENSG00000161914	-0.6393	-1.5575	0.0133	0.0386	ZNF653	zinc finger protein_co	19	11483427	11505923	-1 p13.2
ENSG00000111962	-0.6393	-1.5576	0.0003	0.0015	UST	uronyl-2-su protein_co	6	1.49E+08	1.49E+08	1 q25.1
ENSG00000272325	-0.6396	-1.5579	8.13E-07	7.23E-06	NUDT3	nudix (nucl protein_co	6	34279679	34392674	-1 p21.31
ENSG00000197965	-0.6396	-1.5579	0.0009	0.0037	MPZL1	myelin pro protein_co	1	1.68E+08	1.68E+08	1 q24.2
ENSG00000175344	-0.6397	-1.558	0.0166	0.0462	CHRNA7	cholinergic protein_co	15	32030488	32172521	1 q13.3
ENSG00000133250	-0.6399	-1.5582	0.0027	0.0098	ZNF414	zinc finger protein_co	19	8509678	8514164	-1 p13.2
ENSG00000165219	-0.6403	-1.5586	1.28E-05	8.71E-05	GAPVD1	GTPase act protein_co	9	1.25E+08	1.25E+08	1 q33.3
ENSG00000179241	-0.6403	-1.5586	0.0068	0.0218	LDLRAD3	low density protein_co	11	35943981	36232136	1 p13
ENSG00000135334	-0.6404	-1.5587	1.75E-05	0.0001	AKIRIN2	akirin 2 [So protein_co	6	87675072	87702209	-1 q15
ENSG00000163602	-0.6404	-1.5588	2.65E-08	3.30E-07	RYBP	RING1 and protein_co	3	72371825	72446918	-1 p13
ENSG00000099942	-0.6409	-1.5593	9.35E-08	1.03E-06	CRKL	v-crkl avian protein_co	22	20917426	20953749	1 q11.21
ENSG00000130669	-0.6411	-1.5595	1.63E-05	0.0001	PAK4	p21 proteir protein_co	19	39125770	39182816	1 q13.2
ENSG00000243716	-0.6411	-1.5595	0.0042	0.0142	NPIP5	nuclear poi protein_co	16	22479121	22536521	1 p12.2
ENSG00000163349	-0.6415	-1.5599	0.0035	0.0124	HIPK1	homeodon protein_co	1	1.14E+08	1.14E+08	1 p13.2
ENSG00000124177	-0.6417	-1.5602	1.07E-08	1.47E-07	CHD6	chromodor protein_co	20	41402101	41618494	-1 q12
ENSG00000129353	-0.6417	-1.5602	0.0002	0.0012	SLC44A2	solute carri protein_co	19	10602457	10644559	1 p13.2
ENSG00000135365	-0.6418	-1.5603	6.74E-08	7.69E-07	PHF21A	PHD finger protein_co	11	45929323	46121178	-1 p11.2
ENSG00000188566	-0.6418	-1.5603	0.0014	0.0055	NDOR1	NADPH de protein_co	9	1.37E+08	1.37E+08	1 q34.3

ENSG00000166349	-0.6421	-1.5606	0.0063	0.0204	RAG1	recombina protein_co	11	36510709	36593156	1	p12
ENSG00000131788	-0.6423	-1.5608	8.75E-08	9.73E-07	PIAS3	protein inh protein_co	1	1.46E+08	1.46E+08	-1	q21.1
ENSG00000177051	-0.6425	-1.561	6.24E-05	0.0004	FBXO46	F-box prote protein_co	19	45710629	45730904	-1	q13.32
ENSG00000109436	-0.6428	-1.5613	8.94E-07	7.88E-06	TBC1D9	TBC1 doma protein_co	4	1.41E+08	1.41E+08	-1	q31.21
ENSG00000089775	-0.6428	-1.5614	2.32E-05	0.0001	ZBTB25	zinc finger protein_co	14	64449106	64505213	-1	q23.3
ENSG00000172037	-0.6429	-1.5615	0.0002	0.001	LAMB2	laminin, be protein_co	3	49121114	49133118	-1	p21.31
ENSG00000033627	-0.6433	-1.5619	4.03E-05	0.0002	ATP6V0A1	ATPase, H+ protein_co	17	42458844	42522611	1	q21.2
ENSG00000143624	-0.6437	-1.5624	5.07E-10	9.26E-09	INTS3	integrator ( protein_co	1	1.54E+08	1.54E+08	1	q21.3
ENSG00000119396	-0.6438	-1.5624	4.58E-09	6.77E-08	RAB14	RAB14, me protein_co	9	1.21E+08	1.21E+08	-1	q33.2
ENSG00000259956	-0.6437	-1.5624	7.48E-08	8.46E-07	RBM15B	RNA bindin protein_co	3	51391268	51397908	1	p21.2
ENSG00000258738	-0.6438	-1.5625	0.0123	0.036	RP11-73E17.2	antisense	14	34874343	34876459	1	q13.2
ENSG00000128567	-0.6444	-1.563	0.0068	0.0217	PODXL	podocalyxi protein_co	7	1.32E+08	1.32E+08	-1	q32.3
ENSG00000196810	-0.6444	-1.5631	1.39E-05	9.37E-05	CTBP1-AS2	CTBP1 anti antisense	4	1249300	1288291	1	p16.3
ENSG00000158470	-0.6445	-1.5632	0.0004	0.002	B4GALT5	UDP-Gal:be protein_co	20	49632945	49713878	-1	q13.13
ENSG00000111271	-0.6447	-1.5635	2.20E-05	0.0001	ACAD10	acyl-CoA di protein_co	12	1.12E+08	1.12E+08	1	q24.12
ENSG00000278129	-0.6448	-1.5635	5.06E-05	0.0003	ZNF8	zinc finger protein_co	19	58278951	58302805	1	q13.43
ENSG00000124006	-0.645	-1.5638	0.0001	0.0007	OBSL1	obscurin-lil protein_co	2	2.2E+08	2.2E+08	-1	q35
ENSG00000127418	-0.6453	-1.564	0.0001	0.0007	FGFRL1	fibroblast g protein_co	4	1009936	1026897	1	p16.3
ENSG00000178184	-0.6456	-1.5644	1.19E-06	1.02E-05	PARD6G	par-6 famil protein_co	18	80157232	80247546	-1	q23
ENSG00000087087	-0.6459	-1.5647	2.93E-09	4.53E-08	SRRT	serrate, RN protein_co	7	1.01E+08	1.01E+08	1	q22.1
ENSG00000167333	-0.6461	-1.5649	5.20E-05	0.0003	TRIM68	tripartite r protein_co	11	4598672	4608259	-1	p15.4
ENSG00000131844	-0.6467	-1.5656	1.09E-08	1.49E-07	MCCC2	methycrot protein_co	5	71587288	71658704	1	q13.2
ENSG00000158863	-0.647	-1.566	5.02E-05	0.0003	FAM160B2	family with protein_co	8	22089159	22104898	1	p21.3
ENSG00000123575	-0.6482	-1.5672	1.24E-10	2.62E-09	FAM199X	family with protein_co X		1.04E+08	1.04E+08	1	q22.2
ENSG00000092964	-0.6489	-1.568	0.0126	0.0369	DPYSL2	dihydropyr protein_co	8	26514275	26658178	1	p21.2
ENSG00000113163	-0.6493	-1.5684	1.16E-12	3.98E-11	COL4A3BP	collagen, t) protein_co	5	75368486	75512138	-1	q13.3
ENSG00000185033	-0.6493	-1.5684	3.15E-06	2.43E-05	SEMA4B	sema doma protein_co	15	90160604	90229679	1	q26.1
ENSG00000187555	-0.6495	-1.5686	1.97E-08	2.52E-07	USP7	ubiquitin sj protein_co	16	8892094	8964514	-1	p13.2
ENSG00000130803	-0.6495	-1.5686	2.33E-08	2.94E-07	ZNF317	zinc finger protein_co	19	9140380	9163424	1	p13.2
ENSG00000186187	-0.6495	-1.5687	3.81E-08	4.61E-07	ZNRF1	zinc and rir protein_co	16	74999030	75110994	1	q23.1
ENSG00000103657	-0.65	-1.5692	3.12E-07	3.03E-06	HERC1	HECT and F protein_co	15	63608618	63833942	-1	q22.31
ENSG00000142632	-0.65	-1.5692	0.0154	0.0436	ARHGEF19	Rho guanin protein_co	1	16197854	16212609	-1	p36.13
ENSG00000278600	-0.65	-1.5692	0.0163	0.0455	RP11-81A1.6	sense_intr	15	79920195	79922455	-1	q25.1
ENSG00000153187	-0.6504	-1.5696	1.06E-10	2.27E-09	HNRNPU	heterogen protein_co	1	2.45E+08	2.45E+08	-1	q44
ENSG00000107341	-0.6504	-1.5696	7.46E-07	6.69E-06	UBE2R2	ubiquitin-c protein_co	9	33817567	33920404	1	p13.3
ENSG00000174514	-0.6506	-1.5699	0.0111	0.0329	MFSD4	major facili protein_co	1	2.06E+08	2.06E+08	1	q32.1
ENSG00000100226	-0.6512	-1.5704	1.03E-11	2.74E-10	GTPBP1	GTP bindin protein_co	22	38705723	38738299	1	q13.1



ENSG00000141655	-0.6511	-1.5704	0.0009	0.0039 TNFRSF11A	tumor necr protein_co	18	62325287	62391292	1 q21.33
ENSG00000126746	-0.6514	-1.5707	3.67E-07	3.52E-06 ZNF384	zinc finger protein_co	12	6666477	6689572	-1 p13.31
ENSG00000124151	-0.6515	-1.5708	3.45E-10	6.61E-09 NCOA3	nuclear rec protein_co	20	47501902	47656877	1 q13.12
ENSG00000186575	-0.6515	-1.5708	1.54E-05	0.0001 NF2	neurofibro protein_co	22	29603556	29698598	1 q12.2
ENSG00000204366	-0.6517	-1.5711	0.0066	0.0211 ZBTB12	zinc finger protein_co	6	31899607	31901992	-1 p21.33
ENSG00000204282	-0.6518	-1.5712	0.0087	0.0268 TNRC6C-AS1	TNRC6C an processed	17	78107398	78111799	-1 q25.3
ENSG00000102780	-0.6521	-1.5715	6.54E-09	9.45E-08 DGKH	diacylglyce protein_co	13	42040036	42256578	1 q14.11
ENSG00000186834	-0.6524	-1.5718	3.12E-09	4.78E-08 HEXIM1	hexamethy protein_co	17	45148502	45152101	1 q21.31
ENSG00000037474	-0.6525	-1.5719	1.43E-09	2.34E-08 NSUN2	NOP2/Sun protein_co	5	6599239	6633291	-1 p15.31
ENSG00000165458	-0.6526	-1.572	1.28E-05	8.71E-05 INPPL1	inositol pol protein_co	11	72223701	72239105	1 q13.4
ENSG00000184384	-0.6536	-1.573	1.44E-10	3.00E-09 MAML2	mastermin protein_co	11	95976598	96343180	-1 q21
ENSG00000136295	-0.6535	-1.573	0.0023	0.0087 TTYH3	tweety farr protein_co	7	2631951	2664802	1 p22.3
ENSG00000139044	-0.6538	-1.5733	0.0001	0.0006 B4GALNT3	beta-1,4-N protein_co	12	460364	563509	1 p13.33
ENSG00000114859	-0.6538	-1.5733	0.0085	0.0263 CLCN2	chloride ch protein_co	3	1.84E+08	1.84E+08	-1 q27.1
ENSG00000167114	-0.654	-1.5736	8.12E-05	0.0005 SLC27A4	solute carri protein_co	9	1.28E+08	1.28E+08	1 q34.11
ENSG00000172197	-0.6542	-1.5738	2.51E-05	0.0002 MBOAT1	membrane protein_co	6	20102145	20212399	-1 p22.3
ENSG00000136111	-0.6542	-1.5738	9.55E-05	0.0005 TBC1D4	TBC1 domæ protein_co	13	75284665	75482114	-1 q22.2
ENSG00000141258	-0.6544	-1.5739	1.39E-06	1.17E-05 SGSM2	small G prc protein_co	17	2337498	2381058	1 p13.3
ENSG00000053918	-0.6545	-1.5741	0.0003	0.0016 KCNQ1	potassium protein_co	11	2444684	2849109	1 p15.5
ENSG00000181873	-0.6548	-1.5744	0.0001	0.0007 IBA57	IBA57, iron protein_co	1	2.28E+08	2.28E+08	1 q42.13
ENSG00000112039	-0.6548	-1.5744	0.0099	0.03 FANCE	Fanconi an protein_co	6	35452361	35467103	1 p21.31
ENSG00000144791	-0.655	-1.5747	1.94E-07	1.98E-06 LIMD1	LIM domaii protein_co	3	45555394	45686338	1 p21.31
ENSG00000141646	-0.6552	-1.5748	2.62E-11	6.34E-10 SMAD4	SMAD fami protein_co	18	51028394	51085045	1 q21.2
ENSG00000270629	-0.6552	-1.5749	0.0002	0.0009 NBPF14	neuroblast protein_co	1	1.49E+08	1.49E+08	-1 q21.2
ENSG00000116117	-0.6555	-1.5752	7.10E-05	0.0004 PARD3B	par-3 famil protein_co	2	2.05E+08	2.06E+08	1 q33.3
ENSG00000106771	-0.6559	-1.5756	1.30E-07	1.39E-06 TMEM245	transmemt protein_co	9	1.09E+08	1.09E+08	-1 q31.3
ENSG00000072786	-0.6561	-1.5758	0.0019	0.0072 STK10	serine/thre protein_co	5	1.72E+08	1.72E+08	-1 q35.1
ENSG00000103326	-0.6562	-1.5759	1.12E-08	1.52E-07 CAPN15	calpain 15 protein_co	16	527717	554636	1 p13.3
ENSG00000236901	-0.6573	-1.5771	0.0176	0.0486 MIR600HG	MIR600 ho sense_intrc	9	1.23E+08	1.23E+08	-1 q33.3
ENSG00000138061	-0.6574	-1.5772	0.0056	0.0184 CYP1B1	cytochrom protein_co	2	38066973	38109902	-1 p22.2
ENSG00000198837	-0.6578	-1.5777	4.89E-05	0.0003 DENND4B	DENN/MAI protein_co	1	1.54E+08	1.54E+08	-1 q21.3
ENSG00000160445	-0.6586	-1.5786	1.63E-08	2.13E-07 ZER1	zyg-11 rela protein_co	9	1.29E+08	1.29E+08	-1 q34.11
ENSG00000167106	-0.6588	-1.5787	4.71E-05	0.0003 FAM102A	family with protein_co	9	1.28E+08	1.28E+08	-1 q34.11
ENSG00000116584	-0.6591	-1.5791	5.25E-08	6.11E-07 ARHGEF2	Rho/Rac gæ protein_co	1	1.56E+08	1.56E+08	-1 q22
ENSG00000103512	-0.6592	-1.5792	0.0016	0.0062 NOMO1	NODAL mo protein_co	16	14833681	14896160	1 p13.11
ENSG00000166025	-0.6594	-1.5794	6.16E-05	0.0004 AMOTL1	angiomotir protein_co	11	94706431	94876753	1 q21
ENSG00000105204	-0.6596	-1.5797	5.84E-05	0.0003 DYRK1B	dual-specif protein_co	19	39825350	39834201	-1 q13.2

ENSG00000180902	-0.66	-1.5801	8.47E-05	0.0005	D2HGDH	D-2-hydrox protein_co	2	2.42E+08	2.42E+08	1	q37.3
ENSG00000130589	-0.6603	-1.5804	4.73E-05	0.0003	HELZ2	helicase wi protein_co	20	63558086	63574239	-1	q13.33
ENSG00000071575	-0.6606	-1.5807	8.78E-05	0.0005	TRIB2	tribbles pse protein_co	2	12716889	12742734	1	p24.3
ENSG00000081026	-0.6607	-1.5808	1.15E-05	7.93E-05	MAGI3	membrane protein_co	1	1.13E+08	1.14E+08	1	p13.2
ENSG00000139977	-0.6608	-1.5809	1.06E-08	1.45E-07	NAA30	N(alpha)-a protein_co	14	57390544	57415917	1	q22.3
ENSG00000054654	-0.6607	-1.5809	0.0022	0.0083	SYNE2	spectrin re protein_co	14	63852983	64226433	1	q23.2
ENSG00000089159	-0.6609	-1.5811	3.56E-05	0.0002	PXN	paxillin [So protein_co	12	1.2E+08	1.2E+08	-1	q24.23
ENSG00000272796	-0.6611	-1.5813	0.0121	0.0356	RP1-74M1.3	lincRNA	1	22916682	22921500	1	p36.12
ENSG00000178950	-0.6612	-1.5814	2.70E-10	5.30E-09	GAK	cyclin G as protein_co	4	849276	932373	-1	p16.3
ENSG00000139687	-0.6614	-1.5817	2.27E-13	9.12E-12	RB1	retinoblast protein_co	13	48303751	48481986	1	q14.2
ENSG00000218891	-0.6616	-1.5818	0.0004	0.0019	ZNF579	zinc finger protein_co	19	55576770	55580845	-1	q13.42
ENSG00000166170	-0.6618	-1.582	1.01E-08	1.39E-07	BAG5	BCL2-assoc protein_co	14	1.04E+08	1.04E+08	-1	q32.33
ENSG00000170471	-0.6618	-1.5821	2.20E-08	2.79E-07	RALGAPB	Ral GTPase protein_co	20	38472816	38578861	1	q11.23
ENSG00000149532	-0.6623	-1.5825	3.72E-06	2.83E-05	CPSF7	cleavage ar protein_co	11	61402641	61430031	-1	q12.2
ENSG00000196167	-0.6622	-1.5825	0.0006	0.0025	COLCA1	colorectal (antisense	11	1.11E+08	1.11E+08	-1	q23.1
ENSG00000160767	-0.6626	-1.5829	6.06E-05	0.0003	FAM189B	family with protein_co	1	1.55E+08	1.55E+08	-1	q22
ENSG00000117643	-0.6629	-1.5833	0.0025	0.0092	MAN1C1	mannosida protein_co	1	25617468	25786207	1	p36.11
ENSG00000138443	-0.663	-1.5834	3.06E-05	0.0002	ABI2	abl-interac protein_co	2	2.03E+08	2.03E+08	1	q33.2
ENSG00000196459	-0.6633	-1.5837	3.99E-07	3.79E-06	TRAPPC2	trafficking   protein_co X		13712244	13734635	-1	p22.2
ENSG00000132970	-0.6634	-1.5838	0.0002	0.0011	WASF3	WAS prote protein_co	13	26557703	26688948	1	q12.13
ENSG00000182568	-0.6637	-1.5841	0.0002	0.0012	SATB1	SATB home protein_co	3	18345387	18445588	-1	p24.3
ENSG00000151623	-0.6641	-1.5846	9.71E-06	6.80E-05	NR3C2	nuclear rec protein_co	4	1.48E+08	1.48E+08	-1	q31.23
ENSG00000103404	-0.6642	-1.5847	4.79E-05	0.0003	USP31	ubiquitin sj protein_co	16	23061406	23149270	-1	p12.2
ENSG00000111319	-0.6646	-1.5851	5.42E-05	0.0003	SCNN1A	sodium ch protein_co	12	6346843	6377730	-1	p13.31
ENSG00000054598	-0.6647	-1.5852	1.46E-06	1.22E-05	FOXC1	forkhead b protein_co	6	1609972	1613897	1	p25.3
ENSG00000164938	-0.665	-1.5855	5.99E-08	6.91E-07	TP53INP1	tumor prot protein_co	8	94925972	94949411	-1	q22.1
ENSG00000070770	-0.6651	-1.5856	1.09E-08	1.49E-07	CSNK2A2	casein kina protein_co	16	58157907	58197920	-1	q21
ENSG00000185129	-0.6652	-1.5858	1.94E-09	3.08E-08	PURA	purine-rich protein_co	5	1.4E+08	1.4E+08	1	q31.3
ENSG00000140326	-0.6654	-1.586	4.06E-05	0.0002	CDAN1	codanin 1 [ protein_co	15	42723559	42737126	-1	q15.2
ENSG00000064666	-0.6658	-1.5864	0.0001	0.0007	CNN2	calponin 2 protein_co	19	1026581	1039068	1	p13.3
ENSG00000160710	-0.6659	-1.5866	8.00E-09	1.14E-07	ADAR	adenosine protein_co	1	1.55E+08	1.55E+08	-1	q21.3
ENSG00000135953	-0.6663	-1.587	3.03E-05	0.0002	MFS9	major facili protein_co	2	1.03E+08	1.03E+08	-1	q12.1
ENSG00000107829	-0.6664	-1.5871	8.62E-07	7.63E-06	FBXW4	F-box and \ protein_co	10	1.02E+08	1.02E+08	-1	q24.32
ENSG00000133895	-0.6668	-1.5875	3.58E-10	6.83E-09	MEN1	multiple er protein_co	11	64803510	64811294	-1	q13.1
ENSG00000278730	-0.667	-1.5878	3.42E-08	4.18E-07	LINC00674	long interg lincRNA	17	68126666	68129586	1	q24.2
ENSG00000175215	-0.6674	-1.5882	2.38E-07	2.38E-06	CTDSP2	CTD (carbo protein_co	12	57819927	57846739	-1	q14.1
ENSG00000111252	-0.668	-1.5888	0.0043	0.0148	SH2B3	SH2B adap protein_co	12	1.11E+08	1.11E+08	1	q24.12

ENSG00000130703	-0.6682	-1.5891	1.71E-10	3.50E-09	OSBPL2	oxysterol b protein_co	20	62231922	62296213	1	q13.33
ENSG00000125637	-0.669	-1.59	5.10E-08	5.97E-07	PSD4	pleckstrin a protein_co	2	1.13E+08	1.13E+08	1	q14.1
ENSG00000132740	-0.6693	-1.5903	0.0001	0.0006	IGHMBP2	immunogl protein_co	11	68903842	68940602	1	q13.3
ENSG00000119139	-0.6694	-1.5905	2.85E-11	6.87E-10	TJP2	tight juncti protein_co	9	69121264	69255208	1	q21.11
ENSG00000071051	-0.6695	-1.5905	4.03E-09	6.03E-08	NCK2	NCK adapt protein_co	2	1.06E+08	1.06E+08	1	q12.2
ENSG00000101224	-0.6695	-1.5906	0.0012	0.0049	CDC25B	cell divisior protein_co	20	3786772	3806121	1	p13
ENSG00000141232	-0.6703	-1.5914	1.85E-06	1.51E-05	TOB1	transducer protein_co	17	50862223	50867978	-1	q21.33
ENSG00000186205	-0.6704	-1.5915	0.0009	0.0039	MARC1	mitochond protein_co	1	2.21E+08	2.21E+08	1	q41
ENSG00000196663	-0.6705	-1.5916	1.78E-06	1.46E-05	TECPR2	tectonin b protein_co	14	1.02E+08	1.03E+08	1	q32.31
ENSG00000241945	-0.6705	-1.5916	0.0026	0.0094	PWP2	PWP2 peri protein_co	21	44107290	44131181	1	q22.3
ENSG00000104728	-0.6706	-1.5917	0.0006	0.0027	ARHGEF10	Rho guanin protein_co	8	1823976	1958641	1	p23.3
ENSG00000184677	-0.6708	-1.592	4.59E-07	4.31E-06	ZBTB40	zinc finger protein_co	1	22451851	22531157	1	p36.12
ENSG00000064932	-0.6717	-1.5929	8.26E-10	1.44E-08	SBNO2	strawberry protein_co	19	1107636	1174283	-1	p13.3
ENSG00000169957	-0.6719	-1.5931	1.32E-09	2.18E-08	ZNF768	zinc finger protein_co	16	30524001	30526821	-1	p11.2
ENSG00000273033	-0.672	-1.5932	0.002	0.0076	RP11-67L2.2	lincRNA	3	1.23E+08	1.23E+08	1	q21.1
ENSG00000100280	-0.6721	-1.5933	1.87E-06	1.53E-05	AP1B1	adaptor-re protein_co	22	29327680	29423179	-1	q12.2
ENSG00000163348	-0.6725	-1.5938	2.17E-08	2.76E-07	PYGO2	pygopus fa protein_co	1	1.55E+08	1.55E+08	-1	q21.3
ENSG00000113810	-0.6731	-1.5945	0.0005	0.0024	SMC4	structural r protein_co	3	1.6E+08	1.6E+08	1	q25.33
ENSG00000018408	-0.6732	-1.5946	2.14E-05	0.0001	WWTR1	WW domai protein_co	3	1.5E+08	1.5E+08	-1	q25.1
ENSG00000174839	-0.6733	-1.5947	5.33E-08	6.20E-07	DENND6A	DENN/MAI protein_co	3	57625457	57693089	-1	p14.3
ENSG00000004139	-0.6733	-1.5947	5.09E-05	0.0003	SARM1	sterile alph protein_co	17	28364356	28404049	1	q11.2
ENSG00000185950	-0.6734	-1.5948	0.0015	0.006	IRS2	insulin rece protein_co	13	1.1E+08	1.1E+08	-1	q34
ENSG00000134970	-0.6743	-1.5958	0.0017	0.0065	TMED7	transmemt protein_co	5	1.16E+08	1.16E+08	-1	q22.3
ENSG00000181754	-0.6749	-1.5965	0.0035	0.0122	AMIGO1	adhesion n protein_co	1	1.1E+08	1.1E+08	-1	p13.3
ENSG00000140750	-0.675	-1.5966	5.40E-05	0.0003	ARHGAP17	Rho GTPasi protein_co	16	24919385	25015666	-1	p12.1
ENSG00000170776	-0.6751	-1.5968	1.09E-06	9.41E-06	AKAP13	A kinase (P protein_co	15	85380571	85749358	1	q25.3
ENSG00000169855	-0.6752	-1.5969	0.0003	0.0013	ROBO1	roundabou protein_co	3	78597240	79767815	-1	p12.3
ENSG00000171723	-0.6757	-1.5973	4.13E-06	3.12E-05	GPHN	gephyrin [S protein_co	14	66507407	67181803	1	q23.3
ENSG00000169180	-0.6758	-1.5974	2.99E-09	4.60E-08	XPO6	exportin 6 protein_co	16	28097979	28211920	-1	p12.1
ENSG00000124486	-0.6763	-1.598	6.97E-15	4.04E-13	USP9X	ubiquitin s1 protein_co X		41085635	41236579	1	p11.4
ENSG00000165185	-0.6766	-1.5983	0.0018	0.0068	KIAA1958	KIAA1958 [ protein_co	9	1.12E+08	1.13E+08	1	q32
ENSG00000099864	-0.6767	-1.5985	0.0012	0.0049	PALM	paralemmi protein_co	19	709093	748330	1	p13.3
ENSG00000186566	-0.6769	-1.5987	9.22E-07	8.10E-06	GPATCH8	G patch do protein_co	17	44395284	44503430	-1	q21.31
ENSG00000174840	-0.6771	-1.599	1.47E-10	3.05E-09	PDE12	phosphodi protein_co	3	57556276	57566844	1	p14.3
ENSG00000127463	-0.6772	-1.5991	0.0004	0.0018	EMC1	ER membr protein_co	1	19215664	19251552	-1	p36.13
ENSG00000171298	-0.6774	-1.5992	0.0025	0.0091	GAA	glucosidase protein_co	17	80101556	80119879	1	q25.3
ENSG00000157637	-0.6774	-1.5993	4.82E-06	3.59E-05	SLC38A10	solute carri protein_co	17	81245000	81295547	-1	q25.3

ENSG00000198455	-0.6774	-1.5993	0.0003	0.0013 ZXDB	zinc finger, protein_co X	57591652	57597545	1 p11.21
ENSG00000012779	-0.6776	-1.5995	0.0049	0.0165 ALOX5	arachidona protein_co	10 45374176	45446119	1 q11.21
ENSG00000180447	-0.6778	-1.5997	0.0155	0.0438 GAS1	growth arr protein_co	9 86944363	86947189	-1 q21.33
ENSG00000165905	-0.6779	-1.5998	0.0022	0.0082 GYLTL1B	glycosyltra protein_co	11 45921621	45929096	1 p11.2
ENSG00000158987	-0.6785	-1.6005	0.0005	0.0022 RAPGEF6	Rap guanin protein_co	5 1.31E+08	1.32E+08	-1 q31.1
ENSG00000129993	-0.6785	-1.6005	0.0074	0.0232 CBFA2T3	core-bindir protein_co	16 88874858	88977204	-1 q24.3
ENSG00000099875	-0.6788	-1.6008	3.92E-11	9.22E-10 MKNK2	MAP kinase protein_co	19 2037465	2051244	-1 p13.3
ENSG00000135677	-0.6788	-1.6008	1.20E-07	1.30E-06 GNS	glucosamir protein_co	12 64713445	64759447	-1 q14.3
ENSG00000141568	-0.679	-1.601	4.27E-10	7.91E-09 FOXK2	forkhead b protein_co	17 82519713	82644662	1 q25.3
ENSG00000167861	-0.6789	-1.601	0.0017	0.0067 HID1	HID1 doma protein_co	17 74950743	74973166	-1 q25.1
ENSG00000215447	-0.6793	-1.6014	0.013	0.0378 BX322557.10	processed_	21 45288052	45291738	1 q22.3
ENSG00000105520	-0.6798	-1.6019	0.0077	0.0241 LPPR2	Lipid phosf protein_co	19 11355386	11365698	1 p13.2
ENSG00000203485	-0.6802	-1.6023	0.0002	0.0011 INF2	inverted fo protein_co	14 1.05E+08	1.05E+08	1 q32.33
ENSG00000177000	-0.6805	-1.6027	2.39E-08	3.00E-07 MTHFR	methylene protein_co	1 11785723	11806920	-1 p36.22
ENSG00000186684	-0.6809	-1.6032	0.0043	0.0146 CYP27C1	cytochrom protein_co	2 1.27E+08	1.27E+08	-1 q14.3
ENSG00000178385	-0.6811	-1.6033	0.0009	0.0036 PLEKHM3	pleckstrin f protein_co	2 2.08E+08	2.08E+08	-1 q33.3
ENSG00000135299	-0.6812	-1.6035	2.90E-05	0.0002 ANKRD6	ankyrin ref protein_co	6 89433170	89633834	1 q15
ENSG00000118276	-0.6812	-1.6035	0.0047	0.0159 B4GALT6	UDP-Gal:b protein_co	18 31622247	31685836	-1 q12.1
ENSG00000109111	-0.6813	-1.6036	3.25E-07	3.15E-06 SUPT6H	suppressor protein_co	17 28662091	28702684	1 q11.2
ENSG00000132003	-0.6817	-1.604	0.0003	0.0013 ZSWIM4	zinc finger, protein_co	19 13795460	13832230	1 p13.13
ENSG00000149679	-0.6817	-1.604	0.0008	0.0035 CABLES2	Cdk5 and A protein_co	20 62388632	62407285	-1 q13.33
ENSG00000117394	-0.6822	-1.6046	7.67E-07	6.86E-06 SLC2A1	solute carri protein_co	1 42925381	42958859	-1 p34.2
ENSG00000213015	-0.6822	-1.6046	6.13E-05	0.0004 ZNF580	zinc finger protein_co	19 55635016	55643469	1 q13.42
ENSG00000114423	-0.6831	-1.6056	7.09E-05	0.0004 CBLB	Cbl proto-c protein_co	3 1.06E+08	1.06E+08	-1 q13.11
ENSG00000182378	-0.6832	-1.6057	0.0147	0.0419 PLCXD1	phosphatic protein_co X	276322	303356	1 p22.33
ENSG00000105329	-0.6842	-1.6068	0.0008	0.0033 TGFB1	transformin protein_co	19 41301587	41353911	-1 q13.2
ENSG00000185278	-0.6844	-1.607	4.54E-06	3.40E-05 ZBTB37	zinc finger protein_co	1 1.74E+08	1.74E+08	1 q25.1
ENSG00000142675	-0.6847	-1.6074	1.49E-07	1.58E-06 CNKSR1	connector protein_co	1 26177403	26189886	1 p36.11
ENSG00000173905	-0.6848	-1.6074	6.04E-05	0.0003 GOLIM4	golgi integr protein_co	3 1.68E+08	1.68E+08	-1 q26.2
ENSG00000072864	-0.6856	-1.6084	5.40E-07	4.99E-06 NDE1	nudE neurc protein_co	16 15643267	15726353	1 p13.11
ENSG00000226479	-0.6859	-1.6087	9.05E-06	6.38E-05 TMEM185B	transmemk protein_co	2 1.2E+08	1.2E+08	-1 q14.2
ENSG00000080503	-0.6867	-1.6096	1.18E-10	2.50E-09 SMARCA2	SWI/SNF re protein_co	9 2015219	2193624	1 p24.3
ENSG00000112159	-0.6869	-1.6098	3.48E-07	3.35E-06 MDN1	MDN1, mic protein_co	6 89642499	89819723	-1 q15
ENSG00000212747	-0.687	-1.61	0.0067	0.0214 FAM127C	family with protein_co X	1.35E+08	1.35E+08	-1 q26.3
ENSG00000198863	-0.6874	-1.6104	8.50E-05	0.0005 RUNDC1	RUN doma protein_co	17 42980565	42993690	1 q21.31
ENSG00000168763	-0.6882	-1.6113	1.18E-08	1.59E-07 CNNM3	cyclin and (protein_co	2 96816245	96833911	1 q11.2
ENSG00000154767	-0.6884	-1.6115	3.03E-06	2.35E-05 XPC	xeroderma protein_co	3 14145147	14178783	-1 p25.1

ENSG00000105287	-0.6893	-1.6125	4.30E-06	3.24E-05	PRKD2	protein kin protein_co	19	46674275	46717127	-1	q13.32
ENSG00000116141	-0.6894	-1.6126	1.33E-06	1.12E-05	MARK1	MAP/micrc protein_co	1	2.21E+08	2.21E+08	1	q41
ENSG00000141738	-0.6899	-1.6132	2.29E-05	0.0001	GRB7	growth fac protein_co	17	39737927	39747291	1	q12
ENSG00000184985	-0.69	-1.6133	0.0181	0.0497	SORCS2	sortilin-rela protein_co	4	7192538	7742836	1	p16.1
ENSG00000211584	-0.6907	-1.6141	0.0001	0.0006	SLC48A1	solute carri protein_co	12	47753916	47782753	1	q13.11
ENSG00000204580	-0.691	-1.6143	4.72E-10	8.69E-09	DDR1	discoidin d protein_co	6	30876421	30900156	1	p21.33
ENSG00000148842	-0.6911	-1.6146	4.34E-05	0.0003	CNNM2	cyclin and (protein_co	10	1.03E+08	1.03E+08	1	q24.32
ENSG00000186081	-0.6912	-1.6146	0.0003	0.0013	KRT5	keratin 5 [S protein_co	12	52514575	52520687	-1	q13.13
ENSG00000100599	-0.6914	-1.6149	9.03E-06	6.37E-05	RIN3	Ras and Ra protein_co	14	92513774	92688994	1	q32.12
ENSG00000166145	-0.6917	-1.6152	0.0003	0.0016	SPINT1	serine pept protein_co	15	40844018	40858207	1	q15.1
ENSG00000122741	-0.6918	-1.6153	5.23E-17	5.09E-15	DCAF10	DDB1 and (protein_co	9	37800502	37867666	1	p13.2
ENSG00000181135	-0.692	-1.6155	6.65E-06	4.83E-05	ZNF707	zinc finger protein_co	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000126012	-0.6921	-1.6157	2.26E-08	2.85E-07	KDM5C	lysine (K)-s protein_co X		53191321	53225422	-1	p11.22
ENSG00000103168	-0.6922	-1.6158	1.21E-05	8.29E-05	TAF1C	TATA box k protein_co	16	84177847	84187070	-1	q24.1
ENSG00000020256	-0.6928	-1.6164	8.13E-08	9.12E-07	ZFP64	ZFP64 zinc protein_co	20	52051663	52204308	-1	q13.2
ENSG00000196712	-0.693	-1.6166	7.20E-09	1.03E-07	NF1	neurofibro protein_co	17	31094927	31382116	1	q11.2
ENSG00000130584	-0.6936	-1.6173	0.0004	0.0019	ZBTB46	zinc finger protein_co	20	63743666	63831244	-1	q13.33
ENSG00000183580	-0.6937	-1.6174	0.0004	0.0021	FBXL7	F-box and l protein_co	5	15500196	15939795	1	p15.1
ENSG00000149256	-0.6941	-1.6178	5.92E-05	0.0003	TENM4	teneurin tr protein_co	11	78652831	79440948	-1	q14.1
ENSG00000197978	-0.6951	-1.619	0.0045	0.0152	GOLGA6L9	golgin A6 f protein_co	15	82430018	82439153	1	q25.2
ENSG00000198719	-0.6955	-1.6194	0.0001	0.0006	DLL1	delta-like 1 protein_co	6	1.7E+08	1.7E+08	-1	q27
ENSG00000178573	-0.6955	-1.6194	0.001	0.0043	MAF	v-maf aviar protein_co	16	79585843	79600714	-1	q23.2
ENSG00000196924	-0.6955	-1.6194	0.0082	0.0256	FLNA	filamin A, a protein_co X		1.54E+08	1.54E+08	-1	q28
ENSG00000065361	-0.6957	-1.6196	8.86E-05	0.0005	ERBB3	v-erb-b2 av protein_co	12	56079857	56103505	1	q13.2
ENSG00000264522	-0.6961	-1.6202	1.22E-15	8.29E-14	OTUD7B	OTU deubi protein_co	1	1.5E+08	1.5E+08	-1	q21.2
ENSG00000197362	-0.6962	-1.6202	0.0006	0.0027	ZNF786	zinc finger protein_co	7	1.49E+08	1.49E+08	-1	q36.1
ENSG00000185219	-0.6964	-1.6205	3.18E-10	6.15E-09	ZNF445	zinc finger protein_co	3	44439770	44477670	-1	p21.31
ENSG00000164040	-0.6964	-1.6205	1.53E-08	2.02E-07	PGRMC2	progestero protein_co	4	1.28E+08	1.28E+08	-1	q28.2
ENSG00000177663	-0.6965	-1.6205	6.42E-08	7.35E-07	IL17RA	interleukin protein_co	22	17084954	17115694	1	q11.1
ENSG00000166188	-0.6968	-1.6209	9.31E-05	0.0005	ZNF319	zinc finger protein_co	16	57994668	58000453	-1	q21
ENSG00000034152	-0.697	-1.6211	0.0001	0.0006	MAP2K3	mitogen-ac protein_co	17	21284672	21315240	1	p11.2
ENSG00000088888	-0.6974	-1.6215	1.66E-09	2.67E-08	MAVS	mitochond protein_co	20	3846799	3876123	1	p13
ENSG00000175592	-0.6973	-1.6215	0.0134	0.0389	FOSL1	FOS-like an protein_co	11	65892049	65900573	-1	q13.1
ENSG00000226137	-0.6975	-1.6217	4.79E-07	4.48E-06	BAIAP2-AS1	BAIAP2 ant lincRNA	17	81029133	81034881	-1	q25.3
ENSG00000176396	-0.6975	-1.6217	5.31E-05	0.0003	EID2	EP300 inte protein_co	19	39538250	39540230	-1	q13.2
ENSG00000134398	-0.6981	-1.6223	4.87E-05	0.0003	ERN2	endoplasm protein_co	16	23690326	23713500	-1	p12.2
ENSG00000083168	-0.6982	-1.6225	1.01E-06	8.77E-06	KAT6A	K(lysine) ac protein_co	8	41929479	42051990	-1	p11.21



ENSG00000272565	-0.6984	-1.6227	5.12E-09	7.52E-08	RP11-485G4.2	lincRNA	3	1.42E+08	1.42E+08	-1	q23
ENSG00000156232	-0.6986	-1.6229	1.16E-08	1.57E-07	WHAMM	WAS prote protein_co	15	82809628	82836108	1	q25.2
ENSG00000119771	-0.6986	-1.6229	0.0062	0.0201	KLHL29	kelch-like f.protein_co	2	23385217	23708611	1	p24.1
ENSG00000100139	-0.6988	-1.6232	0.0004	0.0018	MICALL1	MICAL-like protein_co	22	37905657	37942822	1	q13.1
ENSG00000198793	-0.6993	-1.6237	1.62E-08	2.12E-07	MTOR	mechanisti protein_co	1	11106535	11262507	-1	p36.22
ENSG00000063245	-0.6994	-1.6238	2.77E-09	4.31E-08	EPN1	epsin 1 [So protein_co	19	55675226	55709858	1	q13.42
ENSG00000102974	-0.6995	-1.6239	8.62E-07	7.63E-06	CTCF	CCCTC-binc protein_co	16	67562407	67639183	1	q22.1
ENSG00000204389	-0.6997	-1.6241	0.0007	0.0032	HSPA1A	heat shock protein_co	6	31815464	31817946	1	p21.33
ENSG00000131759	-0.7001	-1.6246	1.88E-06	1.53E-05	RARA	retinoic aci protein_co	17	40309192	40357643	1	q21.2
ENSG00000106078	-0.7004	-1.625	0.0008	0.0033	COBL	cordon-ble protein_co	7	51016212	51316818	-1	p12.1
ENSG00000100297	-0.7004	-1.625	0.0048	0.0161	MCM5	minichrom protein_co	22	35400063	35425430	1	q12.3
ENSG00000249471	-0.7005	-1.6251	0.0032	0.0115	ZNF324B	zinc finger protein_co	19	58451604	58457833	1	q13.43
ENSG00000214655	-0.7009	-1.6255	5.22E-06	3.87E-05	ZSWIM8	zinc finger, protein_co	10	73785582	73801797	1	q22.2
ENSG00000149115	-0.7009	-1.6256	3.55E-06	2.72E-05	TNKS1BP1	tankyrase 1protein_co	11	57299638	57324952	-1	q12.1
ENSG00000130529	-0.7013	-1.626	5.38E-06	3.97E-05	TRPM4	transient r protein_co	19	49157741	49211836	1	q13.33
ENSG00000177542	-0.7014	-1.626	0.0003	0.0014	SLC25A22	solute carri protein_co	11	790475	798316	-1	p15.5
ENSG00000173926	-0.7015	-1.6261	0.0034	0.012	MARCH3	membrane protein_co	5	1.27E+08	1.27E+08	-1	q23.2
ENSG00000140022	-0.7019	-1.6266	0.0001	0.0007	STON2	stonin 2 [Sc protein_co	14	81260656	81436465	-1	q31.1
ENSG00000171467	-0.7024	-1.6273	3.10E-07	3.02E-06	ZNF318	zinc finger protein_co	6	43307134	43369478	-1	p21.1
ENSG00000084093	-0.7027	-1.6276	5.26E-14	2.47E-12	REST	RE1-silenci protein_co	4	56907876	56935844	1	q12
ENSG00000176619	-0.7028	-1.6277	1.24E-10	2.63E-09	LMNB2	lamin B2 [S protein_co	19	2427638	2456996	-1	p13.3
ENSG00000088387	-0.7029	-1.6278	2.81E-07	2.76E-06	DOCK9	dedicator c protein_co	13	98793487	99086625	-1	q32.3
ENSG00000184428	-0.7032	-1.6281	1.69E-05	0.0001	TOP1MT	topoisome protein_co	8	1.43E+08	1.43E+08	-1	q24.3
ENSG00000019485	-0.7033	-1.6283	0.0001	0.0006	PRDM11	PR domain protein_co	11	45095806	45235124	1	p11.2
ENSG00000278133	-0.7034	-1.6283	0.001	0.0041	RP11-196G11.5	sense_intr	16	31122235	31124064	1	p11.2
ENSG00000100335	-0.7036	-1.6286	1.50E-06	1.25E-05	MIEF1	mitochond protein_co	22	39499432	39518132	1	q13.1
ENSG00000163932	-0.7037	-1.6287	3.01E-10	5.84E-09	PRKCD	protein kin protein_co	3	53156009	53192717	1	p21.1
ENSG00000101191	-0.7039	-1.6289	4.38E-13	1.63E-11	DIDO1	death indu protein_co	20	62877738	62937952	-1	q13.33
ENSG00000196453	-0.7051	-1.6302	0.0009	0.004	ZNF777	zinc finger protein_co	7	1.49E+08	1.49E+08	-1	q36.1
ENSG00000066084	-0.7051	-1.6303	2.07E-05	0.0001	DIP2B	DIP2 disco- protein_co	12	50504985	50748667	1	q13.12
ENSG00000196865	-0.7054	-1.6306	4.30E-16	3.34E-14	NHLRC2	NHL repeat protein_co	10	1.14E+08	1.14E+08	1	q25.3
ENSG00000137413	-0.7059	-1.6312	2.06E-09	3.27E-08	TAF8	TAF8 RNA p protein_co	6	42050513	42087461	1	p21.1
ENSG00000146830	-0.7061	-1.6314	4.26E-08	5.11E-07	GIGYF1	GRB10 inte protein_co	7	1.01E+08	1.01E+08	-1	q22.1
ENSG00000275464	-0.7068	-1.6322	0.0079	0.0246	CH507-9B2.5	protein_co	21	5130871	5154734	-1	p12
ENSG00000165671	-0.7072	-1.6327	2.21E-06	1.77E-05	NSD1	nuclear rec protein_co	5	1.77E+08	1.77E+08	1	q35.3
ENSG00000087338	-0.7078	-1.6333	5.14E-14	2.43E-12	GMCL1	germ cell-l protein_co	2	69829642	69881396	1	p13.3
ENSG00000182263	-0.7081	-1.6336	0.004	0.0136	FIGN	fidgetin [Sc protein_co	2	1.64E+08	1.64E+08	-1	q24.3

ENSG00000185164	-0.7081	-1.6337	0.0001	0.0006 NOMO2	NODAL mo protein_co	16	18417325	18562211	-1 p12.3
ENSG00000057657	-0.7082	-1.6337	0.0012	0.005 PRDM1	PR domain protein_co	6	1.06E+08	1.06E+08	1 q21
ENSG00000083857	-0.7081	-1.6337	0.002	0.0076 FAT1	FAT atypical protein_co	4	1.87E+08	1.87E+08	-1 q35.2
ENSG00000087274	-0.7083	-1.6339	1.15E-07	1.25E-06 ADD1	adducin 1 ( protein_co	4	2843857	2930076	1 p16.3
ENSG00000165527	-0.7084	-1.634	6.28E-16	4.57E-14 ARF6	ADP-ribosy protein_co	14	49893092	49897054	1 q21.3
ENSG00000261295	-0.709	-1.6346	0.0018	0.007 RP11-524D16__A.3	antisense X		1.01E+08	1.01E+08	1 q22.1
ENSG00000006432	-0.7097	-1.6354	0.0001	0.0007 MAP3K9	mitogen-ac protein_co	14	70722526	70809534	-1 q24.2
ENSG00000167658	-0.7099	-1.6357	8.96E-08	9.90E-07 EEF2	eukaryotic protein_co	19	3976056	3985469	-1 p13.3
ENSG00000160216	-0.7102	-1.636	6.68E-07	6.05E-06 AGPAT3	1-acylglyce protein_co	21	43865186	43986536	1 q22.3
ENSG00000100207	-0.7102	-1.6361	1.54E-08	2.03E-07 TCF20	transcriptic protein_co	22	42160013	42343616	-1 q13.2
ENSG00000151474	-0.7103	-1.6361	0.0007	0.0031 FRMD4A	FERM dom protein_co	10	13643706	14462142	-1 p13
ENSG00000141068	-0.7106	-1.6365	0.0013	0.0054 KSR1	kinase sup protein_co	17	27456714	27626438	1 q11.2
ENSG00000224769	-0.7106	-1.6365	0.0139	0.0398 AC069213.1	unprocess	3	1.96E+08	1.96E+08	1 q29
ENSG00000184743	-0.7107	-1.6366	4.76E-10	8.76E-09 ATL3	atlastin GTI protein_co	11	63624087	63671921	-1 q13.1
ENSG00000112308	-0.7108	-1.6367	8.79E-07	7.76E-06 C6orf62	chromoson protein_co	6	24704861	24720836	-1 p22.3
ENSG00000097007	-0.7109	-1.6368	1.82E-07	1.87E-06 ABL1	ABL proto-i protein_co	9	1.31E+08	1.31E+08	1 q34.12
ENSG00000054523	-0.711	-1.6369	1.78E-10	3.64E-09 KIF1B	kinesin fam protein_co	1	10210805	10381603	1 p36.22
ENSG00000135966	-0.7113	-1.6373	2.28E-06	1.82E-05 TGFBRAP1	transformii protein_co	2	1.05E+08	1.05E+08	-1 q12.2
ENSG00000062822	-0.7116	-1.6376	0.0004	0.002 POLD1	polymeras protein_co	19	50384204	50418018	1 q13.33
ENSG00000105879	-0.7117	-1.6377	1.37E-10	2.87E-09 CBLL1	Cbl proto-c protein_co	7	1.08E+08	1.08E+08	1 q22.3
ENSG00000164300	-0.7119	-1.638	2.95E-07	2.89E-06 SERINC5	serine inco protein_co	5	80111651	80256079	-1 q14.1
ENSG00000076864	-0.7119	-1.638	0.0054	0.0177 RAP1GAP	RAP1 GTPa protein_co	1	21596215	21669363	-1 p36.12
ENSG00000275342	-0.712	-1.6381	0.0031	0.0112 SGK223;	Tyrosine-pi protein_co	8	8317736	8386498	-1 p23.1
ENSG00000159733	-0.7124	-1.6385	0.0004	0.0019 ZFYVE28	zinc finger, protein_co	4	2269582	2418663	-1 p16.3
ENSG00000137216	-0.7127	-1.6388	6.80E-05	0.0004 TMEM63B	transmemk protein_co	6	44126914	44155519	1 p21.1
ENSG00000215271	-0.7135	-1.6398	2.14E-10	4.31E-09 HOMEZ	homeobox protein_co	14	23272422	23299447	-1 q11.2
ENSG00000186704	-0.7137	-1.64	0.0044	0.0148 DTX2P1	DTX2 pseu transcribec	7	76978617	77004308	1 q11.23
ENSG00000129933	-0.7138	-1.6401	5.81E-10	1.05E-08 MAU2	MAU2 siste protein_co	19	19320681	19358755	1 p13.11
ENSG00000197081	-0.7139	-1.6403	0.0001	0.0007 IGF2R	insulin-like protein_co	6	1.6E+08	1.6E+08	1 q25.3
ENSG00000148158	-0.7151	-1.6416	8.40E-08	9.36E-07 SNX30	sorting nex protein_co	9	1.13E+08	1.13E+08	1 q32
ENSG00000090565	-0.7156	-1.6422	2.28E-07	2.29E-06 RAB11FIP3	RAB11 fam protein_co	16	425619	523011	1 p13.3
ENSG00000128016	-0.7158	-1.6424	3.66E-11	8.66E-10 ZFP36	ZFP36 ring protein_co	19	39406813	39409412	1 q13.2
ENSG00000270081	-0.7159	-1.6425	0.0001	0.0007 RP5-935K16.1	lincRNA	2	1.28E+08	1.28E+08	-1 q14.3
ENSG00000165271	-0.716	-1.6426	4.08E-07	3.87E-06 NOL6	nucleolar p protein_co	9	33461441	33473930	-1 p13.3
ENSG00000070413	-0.716	-1.6427	1.04E-05	7.26E-05 DGCR2	DiGeorge s protein_co	22	19036282	19122454	-1 q11.21
ENSG00000215041	-0.7165	-1.6432	1.07E-05	7.43E-05 NEURL4	neuralized protein_co	17	7315628	7329393	-1 p13.1
ENSG00000137103	-0.717	-1.6438	8.68E-07	7.67E-06 TMEM8B	transmemk protein_co	9	35814451	35854847	1 p13.3

ENSG00000164142	-0.7175	-1.6443	1.17E-07	1.26E-06	FAM160A1	family with protein_co	4	1.51E+08	1.52E+08	1	q31.3
ENSG00000101126	-0.7179	-1.6448	4.21E-11	9.79E-10	ADNP	activity-dep protein_co	20	50888919	50931240	-1	q13.13
ENSG00000113504	-0.7181	-1.645	5.79E-08	6.69E-07	SLC12A7	solute carri protein_co	5	1050376	1112035	-1	p15.33
ENSG00000121579	-0.7191	-1.6462	2.32E-20	5.37E-18	NAA50	N(alpha)-a protein_co	3	1.14E+08	1.14E+08	-1	q13.31
ENSG00000204394	-0.7192	-1.6463	3.03E-05	0.0002	VARS	valyl-tRNA protein_co	6	31777518	31795953	-1	p21.33
ENSG00000105321	-0.7198	-1.647	4.33E-07	4.08E-06	CCDC9	coiled-coil protein_co	19	47255980	47271953	1	q13.32
ENSG00000163960	-0.72	-1.6471	7.14E-15	4.11E-13	UBXN7	UBX domai protein_co	3	1.96E+08	1.96E+08	-1	q29
ENSG00000149657	-0.7211	-1.6484	5.90E-10	1.06E-08	LSM14B	LSM14B, S protein_co	20	62122461	62135378	1	q13.33
ENSG00000163625	-0.7213	-1.6487	1.29E-11	3.35E-10	WDFY3	WD repeat protein_co	4	84669610	84966391	-1	q21.23
ENSG00000120899	-0.7216	-1.649	1.47E-06	1.23E-05	PTK2B	protein tyr protein_co	8	27311482	27459391	1	p21.2
ENSG00000122515	-0.7217	-1.6491	1.57E-07	1.65E-06	ZMIZ2	zinc finger, protein_co	7	44748581	44769881	1	p13
ENSG00000141574	-0.7218	-1.6492	0.0046	0.0155	SECTM1	secreted ar protein_co	17	82321024	82334074	-1	q25.3
ENSG00000116991	-0.722	-1.6495	8.22E-08	9.21E-07	SIPA1L2	signal-indu protein_co	1	2.32E+08	2.33E+08	-1	q42.2
ENSG00000152767	-0.7224	-1.6499	1.26E-11	3.28E-10	FARP1	FERM, Rho protein_co	13	98142562	98455176	1	q32.2
ENSG00000227500	-0.7225	-1.65	2.27E-05	0.0001	SCAMP4	secretory c protein_co	19	1905214	1926013	1	p13.3
ENSG00000242588	-0.7227	-1.6502	0.0034	0.0121	RP11-274B21.1	transcribec	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000132694	-0.7231	-1.6507	4.43E-11	1.03E-09	ARHGEF11	Rho guanin protein_co	1	1.57E+08	1.57E+08	-1	q23.1
ENSG00000111424	-0.7233	-1.651	2.75E-05	0.0002	VDR	vitamin D ( protein_co	12	47841537	47943048	-1	q13.11
ENSG00000163520	-0.7233	-1.651	0.0003	0.0015	FBLN2	fibulin 2 [S protein_co	3	13549131	13638422	1	p25.1
ENSG00000148356	-0.7235	-1.6512	8.57E-05	0.0005	LRSAM1	leucine rich protein_co	9	1.27E+08	1.28E+08	1	q33.3
ENSG00000125755	-0.7239	-1.6516	4.29E-07	4.05E-06	SYMPK	sympleskin protein_co	19	45815410	45863290	-1	q13.32
ENSG00000141551	-0.7244	-1.6522	3.50E-10	6.70E-09	CSNK1D	casein kina protein_co	17	82239023	82273731	-1	q25.3
ENSG00000141027	-0.7245	-1.6524	3.87E-09	5.83E-08	NCOR1	nuclear rec protein_co	17	16029157	16218185	-1	p11.2
ENSG00000188322	-0.7246	-1.6524	0.0094	0.0288	SBK1	SH3 domai protein_co	16	28292519	28323849	1	p12.1
ENSG00000243156	-0.725	-1.6529	8.61E-06	6.10E-05	MICAL3	microtubul protein_co	22	17787649	18024559	-1	q11.21
ENSG00000050327	-0.7252	-1.6532	2.77E-08	3.44E-07	ARHGEF5	Rho guanin protein_co	7	1.44E+08	1.44E+08	1	q35
ENSG00000169905	-0.7256	-1.6536	4.18E-09	6.24E-08	TOR1AIP2	torsin A int protein_co	1	1.8E+08	1.8E+08	-1	q25.2
ENSG00000130827	-0.7257	-1.6537	0.0021	0.0078	PLXNA3	plexin A3 [ protein_co X		1.54E+08	1.54E+08	1	q28
ENSG00000175898	-0.726	-1.654	0.0032	0.0114	CTD-2369P2.2	lincRNA	19	10221435	10223194	-1	p13.2
ENSG00000131389	-0.7262	-1.6543	5.66E-08	6.54E-07	SLC6A6	solute carri protein_co	3	14402576	14489349	1	p25.1
ENSG00000099783	-0.7263	-1.6544	1.79E-08	2.30E-07	HNRNPM	heterogen protein_co	19	8444767	8489114	1	p13.2
ENSG00000162769	-0.7266	-1.6547	2.74E-07	2.70E-06	FLVCR1	feline leuk protein_co	1	2.13E+08	2.13E+08	1	q32.3
ENSG00000090621	-0.7268	-1.6549	9.05E-11	1.97E-09	PABPC4	poly(A) bin protein_co	1	39560816	39576790	-1	p34.3
ENSG00000119402	-0.7271	-1.6553	4.47E-12	1.30E-10	FBXW2	F-box and \ protein_co	9	1.21E+08	1.21E+08	-1	q33.2
ENSG00000143569	-0.7271	-1.6553	2.54E-09	3.96E-08	UBAP2L	ubiquitin a protein_co	1	1.54E+08	1.54E+08	1	q21.3
ENSG00000126767	-0.7271	-1.6553	1.11E-08	1.51E-07	ELK1	ELK1, mem protein_co X		47635521	47650604	-1	p11.23
ENSG00000260401	-0.7274	-1.6557	4.76E-06	3.54E-05	RP11-800A3.4	sense_ovei	11	73238975	73242335	1	q13.4

ENSG00000137221	-0.728	-1.6563	2.75E-05	0.0002	TJAP1	tight juncti protein_co	6	43477523	43506556	1	p21.1
ENSG00000163939	-0.7281	-1.6564	3.96E-11	9.29E-10	PBRM1	polybromo protein_co	3	52545352	52685917	-1	p21.1
ENSG00000070366	-0.7281	-1.6565	4.24E-08	5.09E-07	SMG6	SMG6 non:protein_co	17	2059839	2303771	-1	p13.3
ENSG00000160211	-0.7283	-1.6567	3.65E-05	0.0002	G6PD	glucose-6- $\phi$ protein_co X		1.55E+08	1.55E+08	-1	q28
ENSG00000077454	-0.7285	-1.657	0.0001	0.0007	LRCH4	leucine-rich protein_co	7	1.01E+08	1.01E+08	-1	q22.1
ENSG00000104331	-0.729	-1.6575	5.75E-06	4.22E-05	IMPAD1	inositol mo protein_co	8	56957933	56993844	-1	q12.1
ENSG00000178951	-0.7292	-1.6578	2.61E-11	6.31E-10	ZBTB7A	zinc finger protein_co	19	4044364	4066945	-1	p13.3
ENSG00000148337	-0.7295	-1.6581	1.84E-10	3.74E-09	CIZ1	CDKN1A in protein_co	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000140406	-0.7295	-1.6581	3.41E-07	3.29E-06	MESDC1	mesoderm protein_co	15	81000944	81005788	1	q25.1
ENSG00000269937	-0.7295	-1.6581	0.0046	0.0154	RP11-20123.8	antisense	16	2561471	2565096	-1	p13.3
ENSG00000047056	-0.7299	-1.6585	1.34E-06	1.13E-05	WDR37	WD repeat protein_co	10	1049538	1132297	1	p15.3
ENSG00000165804	-0.7302	-1.6589	4.44E-06	3.33E-05	ZNF219	zinc finger protein_co	14	21090046	21104722	-1	q11.2
ENSG00000082701	-0.7305	-1.6592	1.38E-14	7.40E-13	GSK3B	glycogen sy protein_co	3	1.2E+08	1.2E+08	-1	q13.33
ENSG00000104081	-0.7306	-1.6593	0.0017	0.0066	BMF	Bcl2 modif protein_co	15	40087890	40108892	-1	q15.1
ENSG00000113441	-0.7312	-1.66	3.86E-19	6.37E-17	LNPEP	leucyl/cysti protein_co	5	96935394	97037515	1	q15
ENSG00000167291	-0.7312	-1.66	5.21E-08	6.08E-07	TBC1D16	TBC1 dom:protein_co	17	79932343	80035848	-1	q25.3
ENSG00000151929	-0.7313	-1.6601	1.96E-07	2.00E-06	BAG3	BCL2-assoc protein_co	10	1.2E+08	1.2E+08	1	q26.11
ENSG00000140992	-0.7315	-1.6604	1.69E-08	2.20E-07	PDPK1	3-phosphoi protein_co	16	2537964	2603188	1	p13.3
ENSG00000080845	-0.7316	-1.6605	7.04E-08	8.00E-07	DLGAP4	discs, large protein_co	20	36306336	36528637	1	q11.23
ENSG00000106780	-0.7318	-1.6607	0.0003	0.0015	MEGF9	multiple EC protein_co	9	1.21E+08	1.21E+08	-1	q33.2
ENSG00000178726	-0.7323	-1.6613	0.0005	0.0023	THBD	thrombom protein_co	20	23045633	23049741	-1	p11.21
ENSG00000181192	-0.7326	-1.6616	1.96E-07	2.01E-06	DHTKD1	dehydroge protein_co	10	12068972	12123225	1	p14
ENSG00000015133	-0.7329	-1.662	7.13E-05	0.0004	CCDC88C	coiled-coil protein_co	14	91271323	91417844	-1	q32.12
ENSG00000125648	-0.7332	-1.6623	1.16E-08	1.57E-07	SLC25A23	solute carri protein_co	19	6436079	6465203	-1	p13.3
ENSG00000198815	-0.7333	-1.6624	2.04E-09	3.23E-08	FOXJ3	forkhead b protein_co	1	42176539	42335877	-1	p34.2
ENSG00000242498	-0.7333	-1.6624	1.86E-06	1.51E-05	ARPIN	actin-relate protein_co	15	89895006	89912956	-1	q26.1
ENSG00000276547	-0.7334	-1.6626	0.0085	0.0263	PCDHGB5	protocadhe protein_co	5	1.41E+08	1.42E+08	1	q31.3
ENSG00000181826	-0.7335	-1.6627	0.0004	0.0018	RELL1	RELT-like 1 protein_co	4	37590800	37686376	-1	p14
ENSG00000121774	-0.7342	-1.6635	1.90E-09	3.02E-08	KHDRBS1	KH domain protein_co	1	32013829	32060850	1	p35.2
ENSG00000112419	-0.7343	-1.6636	6.18E-10	1.11E-08	PHACTR2	phosphata: protein_co	6	1.44E+08	1.44E+08	1	q24.2
ENSG00000185049	-0.7344	-1.6637	8.82E-06	6.24E-05	NELFA	negative el protein_co	4	1982714	2041903	-1	p16.3
ENSG00000139514	-0.7345	-1.6638	1.08E-07	1.18E-06	SLC7A1	solute carri protein_co	13	29509410	29595688	-1	q12.3
ENSG00000147100	-0.7345	-1.6639	0.0003	0.0013	SLC16A2	solute carri protein_co X		74421461	74533917	1	q13.2
ENSG00000185730	-0.7345	-1.6639	0.0004	0.0018	ZNF696	zinc finger protein_co	8	1.43E+08	1.43E+08	1	q24.3
ENSG00000173039	-0.7353	-1.6647	8.12E-08	9.11E-07	RELA	v-rel avian protein_co	11	65653596	65663094	-1	q13.1
ENSG00000139289	-0.7357	-1.6652	0.0056	0.0183	PHLDA1	pleckstrin t protein_co	12	76025447	76033932	-1	q21.2
ENSG00000159658	-0.7357	-1.6653	5.87E-12	1.65E-10	EFCAB14	EF-hand ca protein_co	1	46675159	46719064	-1	p33

ENSG00000115904	-0.7363	-1.666	4.47E-16	3.42E-14	SOS1	son of seven protein_co	2	38981396	39124345	-1	p22.1
ENSG00000126070	-0.7366	-1.6662	1.48E-08	1.95E-07	AGO3	argonaute protein_co	1	35930718	36072500	1	p34.3
ENSG00000196581	-0.7368	-1.6665	0.0035	0.0123	AJAP1	adherens junction protein_co	1	4654732	4792534	1	p36.32
ENSG00000102034	-0.7369	-1.6666	1.62E-06	1.34E-05	ELF4	E74-like factor protein_co X		1.3E+08	1.3E+08	-1	q26.1
ENSG00000185722	-0.737	-1.6667	1.57E-08	2.06E-07	ANKFY1	ankyrin repeat protein_co	17	4163907	4263977	-1	p13.2
ENSG00000104687	-0.737	-1.6667	4.68E-06	3.49E-05	GSR	glutathione S-transferase protein_co	8	30678061	30727926	-1	p12
ENSG00000170260	-0.7382	-1.6681	2.79E-05	0.0002	ZNF212	zinc finger protein_co	7	1.49E+08	1.49E+08	1	q36.1
ENSG00000145990	-0.7382	-1.6681	4.59E-05	0.0003	GFOD1	glucose-fructose protein_co	6	13357830	13487662	-1	p23
ENSG00000108389	-0.7384	-1.6683	2.23E-07	2.25E-06	MTMR4	myotubularin protein_co	17	58489529	58517905	-1	q22
ENSG00000123643	-0.7384	-1.6683	0.0005	0.0023	SLC36A1	solute carrier protein_co	5	1.51E+08	1.51E+08	1	q33.1
ENSG00000188636	-0.7398	-1.67	7.88E-09	1.12E-07	LDOC1L	leucine zipper protein_co	22	44492572	44498298	-1	q13.31
ENSG00000279117	-0.7398	-1.67	0.0083	0.0258	CTD-2562J17.6	TEC	11	75260129	75262466	-1	q13.4
ENSG00000152520	-0.7404	-1.6707	2.58E-13	1.03E-11	PAN3	PAN3 poly(ADP-ribose) polymerase protein_co	13	28138506	28295335	1	q12.2
ENSG00000172379	-0.7406	-1.6708	0.0091	0.028	ARNT2	aryl-hydrocarbon receptor protein_co	15	80404350	80597937	1	q25.1
ENSG00000174938	-0.7409	-1.6712	0.0031	0.0112	SEZ6L2	seizure related protein_co	16	29871159	29899547	-1	p11.2
ENSG00000116539	-0.741	-1.6714	3.88E-07	3.70E-06	ASH1L	ash1 (abscisic acid) protein_co	1	1.55E+08	1.56E+08	-1	q22
ENSG00000279806	-0.7414	-1.6717	0.0065	0.0209	RP11-5809.2	TEC	17	40473554	40475289	-1	q21.2
ENSG00000170385	-0.7415	-1.6719	0.0001	0.0007	SLC30A1	solute carrier protein_co	1	2.12E+08	2.12E+08	-1	q32.3
ENSG00000205269	-0.7416	-1.672	0.0174	0.0481	TMEM170B	transmembrane protein_co	6	11538278	11583524	1	p24.2
ENSG00000163125	-0.7419	-1.6724	1.41E-05	9.46E-05	RPRD2	regulation of protein_co	1	1.5E+08	1.5E+08	1	q21.2
ENSG00000277443	-0.7426	-1.6732	0.0004	0.0017	MARCKS	myristoylated protein_co	6	1.14E+08	1.14E+08	1	q21
ENSG00000198265	-0.7428	-1.6734	7.25E-11	1.61E-09	HELZ	helicase with zinc finger protein_co	17	67070438	67245989	-1	q24.2
ENSG00000084676	-0.7428	-1.6734	2.47E-06	1.95E-05	NCOA1	nuclear receptor corepressor protein_co	2	24491914	24770702	1	p23.3
ENSG00000157765	-0.7428	-1.6734	0.004	0.0139	SLC34A2	solute carrier protein_co	4	25655301	25678748	1	p15.2
ENSG00000151690	-0.743	-1.6736	9.43E-06	6.63E-05	MFSD6	major facilitator protein_co	2	1.9E+08	1.91E+08	1	q32.2
ENSG00000118900	-0.7433	-1.674	7.66E-10	1.34E-08	UBN1	ubiquitin protein_co	16	4846665	4882360	1	p13.3
ENSG00000072364	-0.7438	-1.6746	5.26E-10	9.57E-09	AFF4	AF4/FMR2 protein_co	5	1.33E+08	1.33E+08	-1	q31.1
ENSG00000141579	-0.744	-1.6748	0.0173	0.0478	ZNF750	zinc finger protein_co	17	82829435	82840578	-1	q25.3
ENSG0000010404	-0.7441	-1.6749	2.54E-07	2.52E-06	IDS	iduronate 2-sulfatase protein_co X		1.49E+08	1.5E+08	-1	q28
ENSG00000131323	-0.7442	-1.675	3.97E-08	4.78E-07	TRAF3	TNF receptor protein_co	14	1.03E+08	1.03E+08	1	q32.32
ENSG00000123908	-0.7448	-1.6757	1.19E-05	8.12E-05	AGO2	argonaute protein_co	8	1.41E+08	1.41E+08	-1	q24.3
ENSG00000178502	-0.745	-1.676	9.39E-05	0.0005	KLHL11	kelch-like family protein_co	17	41853545	41865431	-1	q21.2
ENSG00000108349	-0.7452	-1.6763	2.07E-06	1.66E-05	CASC3	cancer susceptibility protein_co	17	40140318	40172183	1	q21.1
ENSG00000054965	-0.7455	-1.6766	1.65E-07	1.72E-06	FAM168A	family with sequence similarity protein_co	11	73400487	73598189	-1	q13.4
ENSG00000177508	-0.7458	-1.6769	4.75E-07	4.45E-06	IRX3	iroquois homeobox protein_co	16	54283304	54286763	-1	q12.2
ENSG00000272452	-0.7459	-1.677	0.0109	0.0324	RP11-391M1.4	lincRNA	3	40466466	40468587	1	p22.1
ENSG00000187720	-0.7462	-1.6773	0.0153	0.0432	THSD4	thrombospondin protein_co	15	71096952	71783383	1	q23



ENSG00000142235	-0.7463	-1.6774	0.0003	0.0013	LMTK3	lemur tyro:protein_co	19	48485271	48513189	-1	q13.33
ENSG00000095319	-0.7466	-1.6778	4.44E-08	5.29E-07	NUP188	nucleopori protein_co	9	1.29E+08	1.29E+08	1	q34.11
ENSG00000100345	-0.7477	-1.6792	0.0006	0.0028	MYH9	myosin, he protein_co	22	36281281	36388018	-1	q12.3
ENSG00000172766	-0.7481	-1.6796	3.89E-07	3.70E-06	NAA16	N(alpha)-a protein_co	13	41311205	41377030	1	q14.11
ENSG00000032444	-0.7484	-1.68	3.90E-06	2.96E-05	PNPLA6	patatin-like protein_co	19	7534004	7561764	1	p13.2
ENSG00000076928	-0.7485	-1.6801	3.17E-11	7.60E-10	ARHGEF1	Rho guanin protein_co	19	41883161	41930150	1	q13.2
ENSG00000080493	-0.7488	-1.6804	0.0075	0.0236	SLC4A4	solute carri protein_co	4	71187286	71572087	1	q13.3
ENSG00000085644	-0.749	-1.6806	4.64E-07	4.35E-06	ZNF213	zinc finger protein_co	16	3129777	3142805	1	p13.3
ENSG00000119522	-0.7491	-1.6807	0.0002	0.001	DENND1A	DENN/MAI protein_co	9	1.23E+08	1.24E+08	-1	q33.3
ENSG00000072135	-0.7494	-1.6811	2.20E-07	2.22E-06	PTPN18	protein tyr protein_co	2	1.3E+08	1.3E+08	1	q21.1
ENSG00000105516	-0.7494	-1.6811	0.0039	0.0134	DBP	D site of all protein_co	19	48630030	48637438	-1	q13.33
ENSG00000205476	-0.75	-1.6818	5.69E-10	1.03E-08	CCDC85C	coiled-coil protein_co	14	99500180	99604026	-1	q32.2
ENSG00000135063	-0.7507	-1.6826	0.016	0.0448	FAM189A2	family with protein_co	9	69324572	69392455	1	q21.12
ENSG00000213214	-0.7509	-1.6828	0.0003	0.0016	ARHGEF35	Rho guanin protein_co	7	1.44E+08	1.44E+08	-1	q35
ENSG00000184863	-0.751	-1.6829	2.31E-09	3.63E-08	RBM33	RNA bindin protein_co	7	1.56E+08	1.56E+08	1	q36.3
ENSG00000109118	-0.7514	-1.6835	8.32E-10	1.44E-08	PHF12	PHD finger protein_co	17	28905250	28951771	-1	q11.2
ENSG00000022840	-0.7515	-1.6835	5.57E-09	8.14E-08	RNF10	ring finger protein_co	12	1.21E+08	1.21E+08	1	q24.31
ENSG00000135503	-0.7519	-1.684	2.46E-09	3.84E-08	ACVR1B	activin A re protein_co	12	51951667	51997078	1	q13.13
ENSG00000110514	-0.7523	-1.6845	1.29E-08	1.72E-07	MADD	MAP-kinas protein_co	11	47269161	47330031	1	p11.2
ENSG00000087510	-0.7524	-1.6846	1.12E-05	7.74E-05	TFAP2C	transcriptic protein_co	20	56629302	56639283	1	q13.31
ENSG00000157978	-0.7528	-1.685	6.80E-07	6.15E-06	LDLRAP1	low density protein_co	1	25543580	25568886	1	p36.11
ENSG00000137076	-0.7533	-1.6857	2.95E-05	0.0002	TLN1	talin 1 [Sou protein_co	9	35696948	35732395	-1	p13.3
ENSG00000113300	-0.7536	-1.686	1.39E-14	7.43E-13	CNOT6	CCR4-NOT protein_co	5	1.8E+08	1.81E+08	1	q35.3
ENSG00000122547	-0.7537	-1.6861	0.0034	0.0119	EEPD1	endonucle: protein_co	7	36153149	36301543	1	p14.2
ENSG00000116984	-0.7539	-1.6863	1.19E-09	1.98E-08	MTR	5-methylte protein_co	1	2.37E+08	2.37E+08	1	q43
ENSG00000081277	-0.754	-1.6864	0.0004	0.0017	PKP1	plakophilin protein_co	1	2.01E+08	2.01E+08	1	q32.1
ENSG00000006607	-0.7545	-1.687	6.54E-12	1.82E-10	FARP2	FERM, Rho protein_co	2	2.41E+08	2.41E+08	1	q37.3
ENSG00000143772	-0.7545	-1.687	1.32E-07	1.41E-06	ITPKB	inositol-tris protein_co	1	2.27E+08	2.27E+08	-1	q42.12
ENSG00000147324	-0.7545	-1.6871	1.29E-05	8.71E-05	MFHAS1	malignant i protein_co	8	8783354	8893645	-1	p23.1
ENSG00000270949	-0.7553	-1.688	0.0071	0.0225	RP11-288H12.4	lincRNA	6	1.6E+08	1.6E+08	1	q25.3
ENSG00000079313	-0.7555	-1.6883	2.34E-08	2.95E-07	REXO1	REX1, RNA protein_co	19	1815246	1848463	-1	p13.3
ENSG00000181744	-0.7561	-1.6889	3.87E-06	2.94E-05	C3orf58	chromoson protein_co	3	1.44E+08	1.44E+08	1	q24
ENSG00000129911	-0.7563	-1.6892	5.39E-05	0.0003	KLF16	Kruppel-lik protein_co	19	1852399	1863568	-1	p13.3
ENSG00000171475	-0.7564	-1.6893	1.58E-10	3.26E-09	WIPF2	WAS/WASl protein_co	17	40219304	40284136	1	q21.2
ENSG00000010322	-0.7565	-1.6894	4.62E-05	0.0003	NISCH	nischarin [s protein_co	3	52455118	52493071	1	p21.1
ENSG00000133477	-0.7566	-1.6895	1.34E-07	1.43E-06	FAM83F	family with protein_co	22	39994949	40043529	1	q13.1
ENSG00000180370	-0.7568	-1.6897	2.02E-12	6.41E-11	PAK2	p21 proteir protein_co	3	1.97E+08	1.97E+08	1	q29

ENSG00000133422	-0.7567	-1.6897	1.77E-09	2.83E-08 MORC2	MORC fam protein_co	22	30925130	30968298	-1 q12.2
ENSG00000196323	-0.7573	-1.6903	7.10E-08	8.06E-07 ZBTB44	zinc finger protein_co	11	1.3E+08	1.3E+08	-1 q24.3
ENSG00000161958	-0.7575	-1.6906	0.002	0.0075 FGF11	fibroblast g protein_co	17	7438273	7444937	1 p13.1
ENSG00000176692	-0.7576	-1.6906	0.0111	0.033 FOXC2	forkhead b protein_co	16	86567251	86569728	1 q24.1
ENSG00000147394	-0.7576	-1.6907	4.19E-05	0.0003 ZNF185	zinc finger protein_co X		1.53E+08	1.53E+08	1 q28
ENSG00000072501	-0.7583	-1.6915	5.16E-08	6.03E-07 SMC1A	structural r protein_co X		53374149	53422728	-1 p11.22
ENSG00000166949	-0.7595	-1.6929	6.67E-08	7.62E-07 SMAD3	SMAD fami protein_co	15	67063763	67195195	1 q22.33
ENSG00000185670	-0.7595	-1.6929	4.19E-05	0.0003 ZBTB3	zinc finger protein_co	11	62748319	62754188	-1 q12.3
ENSG00000177169	-0.7597	-1.6931	0.0002	0.001 ULK1	unc-51 like protein_co	12	1.32E+08	1.32E+08	1 q24.33
ENSG00000161642	-0.7603	-1.6939	9.04E-05	0.0005 ZNF385A	zinc finger protein_co	12	54369133	54391298	-1 q13.13
ENSG00000107882	-0.7604	-1.694	9.19E-07	8.08E-06 SUFU	suppressor protein_co	10	1.03E+08	1.03E+08	1 q24.32
ENSG00000138668	-0.7605	-1.6941	4.81E-11	1.11E-09 HNRNPD	heterogene protein_co	4	82352498	82374503	-1 q21.22
ENSG00000131374	-0.7608	-1.6944	1.04E-08	1.43E-07 TBC1D5	TBC1 doma protein_co	3	17157162	18444817	-1 p24.3
ENSG00000157540	-0.7609	-1.6945	1.84E-12	5.89E-11 DYRK1A	dual-specif protein_co	21	37365790	37517450	1 q22.13
ENSG00000167595	-0.761	-1.6947	0.0161	0.0451 PROSER3	proline anc protein_co	19	35758143	35771028	1 q13.12
ENSG00000115507	-0.7612	-1.6949	0.0001	0.0006 OTX1	orthodenti protein_co	2	63050057	63057836	1 p15
ENSG00000103126	-0.7614	-1.6951	7.23E-07	6.50E-06 AXIN1	axin 1 [Sou protein_co	16	287440	352673	-1 p13.3
ENSG00000157014	-0.7615	-1.6953	1.05E-07	1.14E-06 TATDN2	TatD DNase protein_co	3	10248023	10281218	1 p25.3
ENSG00000169891	-0.7617	-1.6955	9.48E-07	8.31E-06 REPS2	RALBP1 ass protein_co X		16946691	17153280	1 p22.2
ENSG00000121057	-0.7618	-1.6956	8.40E-10	1.45E-08 AKAP1	A kinase (P protein_co	17	57085092	57121349	1 q22
ENSG00000076351	-0.7618	-1.6956	1.96E-06	1.59E-05 SLC46A1	solute carri protein_co	17	28394756	28407197	-1 q11.2
ENSG00000105376	-0.7621	-1.696	0.0003	0.0016 ICAM5	intercellula protein_co	19	10289981	10296778	1 p13.2
ENSG00000162849	-0.7621	-1.696	0.0061	0.02 KIF26B	kinesin farr protein_co	1	2.45E+08	2.46E+08	1 q44
ENSG00000007047	-0.7622	-1.6961	2.50E-07	2.49E-06 MARK4	MAP/micrc protein_co	19	45079288	45305283	1 q13.32
ENSG00000198142	-0.7624	-1.6963	4.23E-05	0.0003 SOWAHC	sosondowa protein_co	2	1.1E+08	1.1E+08	1 q13
ENSG00000213977	-0.7624	-1.6963	8.16E-05	0.0005 TAX1BP3	Tax1 (hum; protein_co	17	3662896	3668682	-1 p13.2
ENSG00000225190	-0.7624	-1.6964	4.29E-06	3.23E-05 PLEKHM1	pleckstrin l protein_co	17	45435900	45490749	-1 q21.31
ENSG00000261613	-0.7631	-1.6972	0.0082	0.0256 FLJ42627	uncharacte antisense	16	2554060	2556060	-1 p13.3
ENSG00000170325	-0.7634	-1.6975	1.65E-08	2.15E-07 PRDM10	PR domain protein_co	11	1.3E+08	1.3E+08	-1 q24.3
ENSG00000127124	-0.7635	-1.6976	0.0004	0.0017 HIVEP3	human imr protein_co	1	41506365	42035925	-1 p34.2
ENSG00000187446	-0.7636	-1.6977	2.70E-08	3.35E-07 CHP1	calcineurin protein_co	15	41230839	41281890	1 q15.1
ENSG00000100403	-0.7637	-1.6978	7.56E-06	5.42E-05 ZC3H7B	zinc finger protein_co	22	41301522	41360147	1 q13.2
ENSG00000232098	-0.7637	-1.6979	0.0116	0.0343 CTD-2619J13.14	lincRNA	19	58404238	58408484	-1 q13.43
ENSG00000162981	-0.7639	-1.698	0.0027	0.01 FAM84A	family with protein_co	2	14632686	14650814	1 p24.3
ENSG00000166689	-0.7641	-1.6983	3.71E-10	7.02E-09 PLEKHA7	pleckstrin l protein_co	11	16778295	17014443	-1 p15.1
ENSG00000145476	-0.7641	-1.6983	1.58E-07	1.65E-06 CYP4V2	cytochrom protein_co	4	1.86E+08	1.86E+08	1 q35.1
ENSG00000157214	-0.7642	-1.6984	3.40E-05	0.0002 STEAP2	STEAP fami protein_co	7	90167590	90238137	1 q21.13

ENSG00000182107	-0.7645	-1.6987	6.03E-14	2.78E-12	TMEM30B	transmembr protein_co	14	61277370	61281840	-1	q23.1
ENSG00000123427	-0.7644	-1.6987	4.40E-06	3.30E-05	METTL21B	methyltran protein_co	12	57771492	57782541	1	q14.1
ENSG00000184792	-0.7644	-1.6987	0.001	0.0041	OSBP2	oxysterol b protein_co	22	30693782	30907824	1	q12.2
ENSG00000168264	-0.7648	-1.6992	2.05E-12	6.48E-11	IRF2BP2	interferon protein_co	1	2.35E+08	2.35E+08	-1	q42.3
ENSG00000159363	-0.765	-1.6994	2.27E-05	0.0001	ATP13A2	ATPase typ protein_co	1	16985958	17011928	-1	p36.13
ENSG00000172915	-0.765	-1.6994	4.35E-05	0.0003	NBEA	neurobeac protein_co	13	34942287	35673022	1	q13.3
ENSG00000138767	-0.7652	-1.6996	8.49E-15	4.82E-13	CNOT6L	CCR4-NOT protein_co	4	77713387	77819615	-1	q21.1
ENSG00000270959	-0.7655	-1.7	0.0009	0.0038	LPP-AS2	LPP antiser antisense	3	1.88E+08	1.88E+08	-1	q27.3
ENSG00000105655	-0.7656	-1.7001	7.16E-07	6.44E-06	ISYNA1	inositol-3-γ protein_co	19	18434388	18438301	-1	p13.11
ENSG00000183020	-0.7658	-1.7003	3.11E-09	4.77E-08	AP2A2	adaptor-re protein_co	11	924894	1012245	1	p15.5
ENSG00000144028	-0.7661	-1.7007	1.13E-06	9.71E-06	SNRNP200	small nucle protein_co	2	96274336	96305515	-1	q11.2
ENSG00000189283	-0.7665	-1.7012	0.0016	0.0061	FHIT	fragile histi protein_co	3	59749310	61251459	-1	p14.2
ENSG00000121297	-0.7668	-1.7015	0.0004	0.0017	TSHZ3	teashirt zin protein_co	19	31274945	31349547	-1	q12
ENSG00000089094	-0.767	-1.7017	1.99E-06	1.60E-05	KDM2B	lysine (K)-s protein_co	12	1.21E+08	1.22E+08	-1	q24.31
ENSG00000129566	-0.7674	-1.7022	1.32E-10	2.77E-09	TEP1	telomerase protein_co	14	20365667	20413429	-1	q11.2
ENSG00000173611	-0.7677	-1.7025	5.27E-06	3.89E-05	SCAI	suppressor protein_co	9	1.25E+08	1.25E+08	-1	q33.3
ENSG00000090857	-0.7679	-1.7028	1.80E-07	1.86E-06	PDPR	pyruvate d protein_co	16	70113626	70162537	1	q22.1
ENSG00000187164	-0.7685	-1.7034	8.01E-10	1.40E-08	KIAA1598	KIAA1598 [ protein_co	10	1.17E+08	1.17E+08	-1	q25.3
ENSG00000155066	-0.7687	-1.7037	1.34E-06	1.13E-05	PROM2	prominin 2 protein_co	2	95274453	95291308	1	q11.1
ENSG00000151468	-0.7687	-1.7038	0.0161	0.0451	CCDC3	coiled-coil protein_co	10	12896625	13099652	-1	p13
ENSG00000182318	-0.7688	-1.7039	0.0007	0.003	ZSCAN22	zinc finger protein_co	19	58327019	58342332	1	q13.43
ENSG00000123146	-0.769	-1.7041	0.0015	0.0058	CD97	CD97 mole protein_co	19	14380501	14408725	1	p13.12
ENSG00000143375	-0.7692	-1.7043	1.66E-05	0.0001	CGN	cingulin [Sc protein_co	1	1.52E+08	1.52E+08	1	q21.3
ENSG00000196961	-0.7693	-1.7044	4.97E-12	1.43E-10	AP2A1	adaptor-re protein_co	19	49766968	49807113	1	q13.33
ENSG00000131196	-0.7692	-1.7044	0.0019	0.0072	NFATC1	nuclear fac protein_co	18	79395856	79529325	1	q23
ENSG00000129514	-0.7695	-1.7046	6.35E-10	1.14E-08	FOXA1	forkhead b protein_co	14	37589984	37596059	-1	q21.1
ENSG00000144810	-0.7696	-1.7048	0.0073	0.023	COL8A1	collagen, t <sub>1</sub> protein_co	3	99638475	99799226	1	q12.1
ENSG00000173801	-0.7698	-1.705	1.70E-07	1.77E-06	JUP	junction pl <sub>1</sub> protein_co	17	41754604	41786931	-1	q21.2
ENSG00000118816	-0.7698	-1.7051	2.23E-12	6.98E-11	CCNI	cyclin I [So <sub>1</sub> protein_co	4	77047158	77076005	-1	q21.1
ENSG00000076770	-0.7698	-1.7051	0.0002	0.0008	MBNL3	muscleblin protein_co X		1.32E+08	1.32E+08	-1	q26.2
ENSG00000213672	-0.7701	-1.7054	6.26E-07	5.70E-06	NCKIPSD	NCK intera protein_co	3	48673844	48686364	-1	p21.31
ENSG00000138771	-0.7703	-1.7056	3.34E-09	5.09E-08	SHROOM3	shroom far protein_co	4	76435100	76783253	1	q21.1
ENSG00000106415	-0.7706	-1.7059	3.48E-09	5.29E-08	GLCC1	glucocortic protein_co	7	7968794	8094272	1	p21.3
ENSG00000142627	-0.7708	-1.7063	4.19E-10	7.80E-09	EPHA2	EPH recept protein_co	1	16124337	16156087	-1	p36.13
ENSG00000187792	-0.7708	-1.7063	0.0023	0.0085	ZNF70	zinc finger protein_co	22	23741582	23751092	-1	q11.23
ENSG00000272201	-0.771	-1.7065	0.009	0.0275	U47924.30	lincRNA	12	6978521	6979941	1	p13.31
ENSG00000065802	-0.7711	-1.7066	3.02E-07	2.95E-06	ASB1	ankyrin re <sub>1</sub> protein_co	2	2.38E+08	2.38E+08	1	q37.3

ENSG00000170921	-0.7719	-1.7075	1.34E-06	1.13E-05	TANC2	tetratricop protein_co	17	63009556	63427699	1	q23.2
ENSG00000107815	-0.7721	-1.7078	9.78E-07	8.54E-06	C10orf2	chromoson protein_co	10	1.01E+08	1.01E+08	1	q24.31
ENSG00000197555	-0.7728	-1.7086	5.75E-10	1.04E-08	SIPA1L1	signal-indu protein_co	14	71320449	71741229	1	q24.2
ENSG00000113916	-0.7728	-1.7086	4.56E-06	3.41E-05	BCL6	B-cell CLL/I protein_co	3	1.88E+08	1.88E+08	-1	q27.3
ENSG00000198625	-0.7733	-1.7092	8.67E-07	7.67E-06	MDM4	MDM4, p5: protein_co	1	2.05E+08	2.05E+08	1	q32.1
ENSG00000167191	-0.7738	-1.7097	0.0002	0.0009	GPRC5B	G protein-c protein_co	16	19856691	19886167	-1	p12.3
ENSG00000230487	-0.7738	-1.7098	0.0001	0.0007	PSMG3-AS1	PSMG3 ant lincRNA	7	1570073	1589626	1	p22.3
ENSG00000106123	-0.7739	-1.7099	0.0003	0.0017	EPHB6	EPH recept protein_co	7	1.43E+08	1.43E+08	1	q34
ENSG00000215012	-0.774	-1.71	7.20E-10	1.27E-08	C22orf29	chromoson protein_co	22	19846138	19854896	-1	q11.21
ENSG00000137802	-0.7744	-1.7105	3.80E-09	5.75E-08	MAPKBP1	mitogen-ac protein_co	15	41774434	41827855	1	q15.1
ENSG00000038358	-0.7747	-1.7108	1.40E-08	1.86E-07	EDC4	enhancer c protein_co	16	67873023	67884503	1	q22.1
ENSG00000159399	-0.776	-1.7124	0.0019	0.0072	HK2	hexokinase protein_co	2	74833981	74893359	1	p12
ENSG00000119227	-0.7767	-1.7132	0.0003	0.0015	PIGZ	phosphatic protein_co	3	1.97E+08	1.97E+08	-1	q29
ENSG00000083844	-0.7771	-1.7137	9.24E-12	2.48E-10	ZNF264	zinc finger protein_co	19	57191500	57222846	1	q13.43
ENSG00000107929	-0.7772	-1.7138	2.74E-11	6.63E-10	LARP4B	La ribonucl protein_co	10	806914	931705	-1	p15.3
ENSG00000205978	-0.7774	-1.714	8.44E-06	5.98E-05	NYNRIN	NYN domai protein_co	14	24398786	24419288	1	q12
ENSG00000146858	-0.7775	-1.7141	0.0083	0.0257	ZC3HAV1L	zinc finger protein_co	7	1.39E+08	1.39E+08	-1	q34
ENSG00000169955	-0.7777	-1.7144	4.25E-05	0.0003	ZNF747	zinc finger protein_co	16	30530367	30535347	-1	p11.2
ENSG00000131653	-0.7793	-1.7162	1.48E-07	1.56E-06	TRAF7	TNF recept protein_co	16	2155698	2178129	1	p13.3
ENSG00000105953	-0.7795	-1.7165	2.86E-06	2.23E-05	OGDH	oxoglutar: protein_co	7	44606572	44709066	1	p13
ENSG00000264364	-0.7798	-1.7169	1.45E-11	3.72E-10	DYNLL2	dynein, lig protein_co	17	58083415	58095536	1	q22
ENSG00000129250	-0.78	-1.7171	2.51E-10	4.97E-09	KIF1C	kinesin farr protein_co	17	4997948	5028401	1	p13.2
ENSG00000166813	-0.7803	-1.7175	0.0043	0.0148	KIF7	kinesin farr protein_co	15	89608789	89655451	-1	q26.1
ENSG00000143816	-0.7803	-1.7175	0.0076	0.0238	WNT9A	wingless-ty protein_co	1	2.28E+08	2.28E+08	-1	q42.13
ENSG00000171206	-0.7806	-1.7178	1.38E-12	4.62E-11	TRIM8	tripartite rr protein_co	10	1.03E+08	1.03E+08	1	q24.32
ENSG00000131697	-0.7809	-1.7182	0.0036	0.0125	NPHP4	nephronop protein_co	1	5862810	5992473	-1	p36.31
ENSG00000182871	-0.7819	-1.7194	0.0022	0.0081	COL18A1	collagen, ty protein_co	21	45405137	45513720	1	q22.3
ENSG00000165138	-0.782	-1.7195	4.77E-09	7.03E-08	ANKS6	ankyrin ref protein_co	9	98731329	98796965	-1	q22.33
ENSG00000168476	-0.7828	-1.7205	1.27E-08	1.70E-07	REEP4	receptor ac protein_co	8	22138020	22141951	-1	p21.3
ENSG00000132570	-0.7828	-1.7205	1.39E-05	9.34E-05	PCBD2	pterin-4 al protein_co	5	1.35E+08	1.35E+08	1	q31.1
ENSG00000125898	-0.7832	-1.721	5.24E-06	3.88E-05	FAM110A	family with protein_co	20	833715	857463	1	p13
ENSG00000136699	-0.7833	-1.7211	1.54E-09	2.50E-08	SMPD4	sphingomy protein_co	2	1.3E+08	1.3E+08	-1	q21.1
ENSG00000236144	-0.7834	-1.7212	0.0028	0.0103	TMEM147-AS1	TMEM147 antisense	19	35540738	35546029	-1	q13.12
ENSG00000100918	-0.7836	-1.7214	0.0002	0.0011	REC8	REC8 meio protein_co	14	24171853	24180257	1	q12
ENSG00000168743	-0.7837	-1.7216	0.0121	0.0354	NPNT	nephronec protein_co	4	1.06E+08	1.06E+08	1	q24
ENSG00000023171	-0.7842	-1.7221	0.0059	0.0191	GRAMD1B	GRAM dor protein_co	11	1.24E+08	1.24E+08	1	q24.1
ENSG00000064300	-0.7844	-1.7223	0.0022	0.0082	NGFR	nerve grow protein_co	17	49495293	49515017	1	q21.33

ENSG00000101040	-0.7844	-1.7224	1.78E-07	1.84E-06 ZMYND8	zinc finger, protein_co	20	47209214	47356889	-1 q13.12
ENSG00000188064	-0.7852	-1.7233	5.32E-10	9.66E-09 WNT7B	wingless-ty protein_co	22	45920362	45977129	-1 q13.31
ENSG00000145555	-0.7857	-1.7239	5.67E-11	1.29E-09 MYO10	myosin X [s protein_co	5	16661914	16936276	-1 p15.1
ENSG0000020129	-0.7857	-1.724	9.89E-05	0.0005 NCDN	neurochon protein_co	1	35557473	35567274	1 p34.3
ENSG00000158545	-0.786	-1.7243	2.92E-08	3.61E-07 ZC3H18	zinc finger protein_co	16	88570381	88631966	1 q24.2
ENSG00000279207	-0.7863	-1.7247	0.0005	0.0022 RP11-159D12.8	TEC	17	58095672	58101479	1 q22
ENSG00000011523	-0.7869	-1.7254	8.32E-06	5.91E-05 CEP68	centrosom protein_co	2	65056366	65087004	1 p14
ENSG00000169926	-0.7875	-1.7261	6.71E-15	3.93E-13 KLF13	Kruppel-lik protein_co	15	31326855	31435665	1 q13.3
ENSG00000196547	-0.7883	-1.7271	8.99E-07	7.91E-06 MAN2A2	mannosida protein_co	15	90902218	90922584	1 q26.1
ENSG00000157657	-0.7886	-1.7273	0.0018	0.007 ZNF618	zinc finger protein_co	9	1.14E+08	1.14E+08	1 q32
ENSG00000151136	-0.789	-1.7279	0.0004	0.0017 BTBD11	BTB (POZ) (protein_co	12	1.07E+08	1.08E+08	1 q23.3
ENSG00000183864	-0.7894	-1.7284	1.16E-08	1.58E-07 TOB2	transducer protein_co	22	41433492	41447023	-1 q13.2
ENSG00000196526	-0.7894	-1.7284	0.0004	0.002 AFAP1	actin filam protein_co	4	7758714	7939926	-1 p16.1
ENSG00000113615	-0.7898	-1.7289	2.37E-11	5.81E-10 SEC24A	SEC24 fami protein_co	5	1.35E+08	1.35E+08	1 q31.1
ENSG00000168137	-0.79	-1.7291	8.65E-10	1.49E-08 SETD5	SET domair protein_co	3	9397615	9479240	1 p25.3
ENSG0000012211	-0.7903	-1.7294	9.75E-05	0.0005 PRICKLE3	prickle hon protein_co X		49175264	49186528	-1 p11.23
ENSG00000214425	-0.7909	-1.7301	0.0056	0.0185 LRRC37A4P	leucine rich transcribec	17	45506741	45550335	-1 q21.31
ENSG00000179588	-0.7909	-1.7302	0.0005	0.0023 ZFPM1	zinc finger protein_co	16	88453317	88537016	1 q24.2
ENSG00000103249	-0.791	-1.7303	1.89E-05	0.0001 CLCN7	chloride ch protein_co	16	1444934	1475580	-1 p13.3
ENSG00000149177	-0.7911	-1.7304	0.0004	0.0018 PTPRJ	protein tyr protein_co	11	47980558	48170841	1 p11.2
ENSG00000162695	-0.7914	-1.7307	6.65E-06	4.83E-05 SLC30A7	solute carri protein_co	1	1.01E+08	1.01E+08	1 p21.2
ENSG00000142002	-0.7914	-1.7307	3.80E-05	0.0002 DPP9	dipeptidyl- protein_co	19	4675224	4724673	-1 p13.3
ENSG00000152078	-0.7918	-1.7312	0.0105	0.0315 TMEM56	transmemt protein_co	1	95117338	95197607	1 p21.3
ENSG00000198792	-0.7918	-1.7313	0.0018	0.0069 TMEM184B	transmemt protein_co	22	38219291	38273034	-1 q13.1
ENSG00000114650	-0.7929	-1.7325	4.22E-09	6.29E-08 SCAP	SREBF cha protein_co	3	47413694	47477126	-1 p21.31
ENSG00000150760	-0.7929	-1.7326	3.96E-20	8.46E-18 DOCK1	dedicator c protein_co	10	1.27E+08	1.27E+08	1 q26.2
ENSG00000198911	-0.7934	-1.7331	1.47E-10	3.05E-09 SREBF2	sterol regu protein_co	22	41833079	41907308	1 q13.2
ENSG00000106003	-0.7934	-1.7331	0.0122	0.0358 LFNG	LFNG O-fuc protein_co	7	2512529	2529177	1 p22.3
ENSG00000234616	-0.794	-1.7338	5.27E-09	7.72E-08 JRK	Jrk homolo protein_co	8	1.43E+08	1.43E+08	-1 q24.3
ENSG00000138617	-0.7939	-1.7338	3.82E-05	0.0002 PARP16	poly (ADP-i protein_co	15	65234460	65300618	-1 q22.31
ENSG00000006062	-0.794	-1.7339	5.94E-05	0.0003 MAP3K14	mitogen-ac protein_co	17	45263121	45317040	-1 q21.31
ENSG00000168610	-0.7942	-1.7341	3.48E-11	8.26E-10 STAT3	signal trans protein_co	17	42313324	42388568	-1 q21.2
ENSG00000278540	-0.7944	-1.7344	1.91E-10	3.88E-09 ACACA	acetyl-CoA protein_co	17	37084988	37406818	-1 q12
ENSG00000176182	-0.7944	-1.7344	0.0004	0.0018 MYPOP	Myb-relate protein_co	19	45890020	45902604	-1 q13.32
ENSG00000196428	-0.795	-1.7351	7.01E-06	5.06E-05 TSC22D2	TSC22 dom protein_co	3	1.5E+08	1.5E+08	1 q25.1
ENSG00000181555	-0.7959	-1.7362	1.45E-09	2.36E-08 SETD2	SET domair protein_co	3	47016429	47163967	-1 p21.31
ENSG00000188033	-0.796	-1.7363	0.0123	0.0359 ZNF490	zinc finger protein_co	19	12577961	12640098	-1 p13.13



ENSG00000106785	-0.7961	-1.7364	1.34E-08	1.79E-07 TRIM14	tripartite r protein_co	9	98069275	98119212	-1 q22.33
ENSG00000148200	-0.7961	-1.7365	0.0008	0.0035 NR6A1	nuclear rec protein_co	9	1.25E+08	1.25E+08	-1 q33.3
ENSG00000101986	-0.7964	-1.7367	0.0009	0.0038 ABCD1	ATP-bindin protein_co X		1.54E+08	1.54E+08	1 q28
ENSG00000146021	-0.7964	-1.7367	0.0014	0.0055 KLHL3	kelch-like f protein_co	5	1.38E+08	1.38E+08	-1 q31.2
ENSG00000150938	-0.7977	-1.7383	0.0006	0.0026 CRIM1	cysteine ric protein_co	2	36355926	36551135	1 p22.2
ENSG00000128833	-0.798	-1.7386	8.52E-07	7.54E-06 MYO5C	myosin VC protein_co	15	52192322	52295798	-1 q21.2
ENSG00000080371	-0.7982	-1.739	2.80E-07	2.76E-06 RAB21	RAB21, me protein_co	12	71754874	71800285	1 q21.1
ENSG00000197256	-0.7983	-1.7391	5.65E-08	6.54E-07 KANK2	KN motif a protein_co	19	11164267	11197791	-1 p13.2
ENSG00000186815	-0.7987	-1.7395	1.21E-05	8.29E-05 TPCN1	two pore si protein_co	12	1.13E+08	1.13E+08	1 q24.13
ENSG00000228794	-0.7989	-1.7398	5.52E-05	0.0003 LINC01128	long interg processed_	1	825138	859446	1 p36.33
ENSG00000165272	-0.7991	-1.74	0.0154	0.0435 AQP3	aquaporin protein_co	9	33441154	33447611	-1 p13.3
ENSG00000127586	-0.7993	-1.7402	0.0015	0.0058 CHTF18	CTF18, chr protein_co	16	788622	800737	1 p13.3
ENSG00000116525	-0.7995	-1.7405	1.47E-05	9.83E-05 TRIM62	tripartite r protein_co	1	33145402	33182059	-1 p35.1
ENSG00000120071	-0.7996	-1.7407	1.45E-07	1.53E-06 KANSL1	KAT8 regul protein_co	17	46029916	46225374	-1 q21.31
ENSG00000175772	-0.8001	-1.7413	0.0168	0.0468 LINC01106	long interg lincRNA	2	1.1E+08	1.1E+08	-1 q13
ENSG00000163635	-0.8005	-1.7417	1.43E-10	2.99E-09 ATXN7	ataxin 7 [Sc protein_co	3	63864557	64003462	1 p14.1
ENSG00000128268	-0.8005	-1.7417	2.44E-06	1.93E-05 MGAT3	mannosyl ( protein_co	22	39457344	39492194	1 q13.1
ENSG00000160305	-0.8006	-1.7419	3.81E-12	1.12E-10 DIP2A	DIP2 disco- protein_co	21	46458899	46569852	1 q22.3
ENSG00000181827	-0.8007	-1.742	1.46E-08	1.94E-07 RFX7	regulatory protein_co	15	56087280	56243266	-1 q21.3
ENSG00000158480	-0.8008	-1.7421	2.09E-08	2.66E-07 SPATA2	spermatog protein_co	20	49903391	49915508	-1 q13.13
ENSG00000280347	-0.8009	-1.7422	0.0006	0.0025 AC000123.2	TEC	7	1.27E+08	1.27E+08	-1 q31.33
ENSG00000105220	-0.8015	-1.7429	8.95E-08	9.90E-07 GPI	glucose-6- $\phi$ protein_co	19	34359480	34402156	1 q13.11
ENSG00000164684	-0.8015	-1.7429	8.17E-05	0.0005 ZNF704	zinc finger protein_co	8	80628451	80874781	-1 q21.13
ENSG00000160094	-0.8018	-1.7433	1.07E-07	1.17E-06 ZNF362	zinc finger protein_co	1	33256545	33300719	1 p35.1
ENSG00000196937	-0.8022	-1.7437	6.91E-06	5.00E-05 FAM3C	family with protein_co	7	1.21E+08	1.21E+08	-1 q31.31
ENSG00000178409	-0.8023	-1.7439	0.0001	0.0008 BEND3	BEN domai protein_co	6	1.07E+08	1.07E+08	-1 q21
ENSG00000260404	-0.8025	-1.7441	0.0027	0.0097 RP11-384K6.6	lincRNA	4	1.19E+08	1.19E+08	1 q26
ENSG00000267904	-0.8029	-1.7446	0.006	0.0195 CTC-429P9.5	sense_intr	19	16639967	16640668	-1 p13.11
ENSG00000160208	-0.803	-1.7448	5.72E-09	8.36E-08 RRP1B	ribosomal l protein_co	21	43659548	43696079	1 q22.3
ENSG00000077235	-0.8032	-1.745	1.07E-09	1.81E-08 GTF3C1	general tra protein_co	16	27459555	27549913	-1 p12.1
ENSG00000108091	-0.8039	-1.7458	3.55E-13	1.35E-11 CCDC6	coiled-coil protein_co	10	59788763	59906656	-1 q21.2
ENSG00000173889	-0.804	-1.7459	6.19E-19	9.65E-17 PHC3	polyhomec protein_co	3	1.7E+08	1.7E+08	-1 q26.2
ENSG00000175467	-0.8044	-1.7464	1.52E-07	1.60E-06 SART1	squamous protein_co	11	65961689	65979828	1 q13.1
ENSG00000167670	-0.8045	-1.7465	0.0001	0.0007 CHAF1A	chromatin protein_co	19	4402662	4445018	1 p13.3
ENSG00000154447	-0.8047	-1.7468	1.71E-08	2.21E-07 SH3RF1	SH3 domai protein_co	4	1.69E+08	1.69E+08	-1 q33
ENSG00000177666	-0.8049	-1.747	4.35E-07	4.10E-06 PNPLA2	patatin-like protein_co	11	818902	825573	1 p15.5
ENSG00000113742	-0.8051	-1.7473	1.19E-14	6.60E-13 CPEB4	cytoplasmic protein_co	5	1.74E+08	1.74E+08	1 q35.2

ENSG00000105556	-0.8054	-1.7476	8.39E-08	9.35E-07	MIER2	mesoderm protein_co	19	305573	344807	-1	p13.3
ENSG00000135925	-0.8065	-1.749	2.05E-05	0.0001	WNT10A	wingless-ty protein_co	2	2.19E+08	2.19E+08	1	q35
ENSG00000118971	-0.8065	-1.749	0.0102	0.0307	CCND2	cyclin D2 [S protein_co	12	4273772	4305350	1	p13.32
ENSG00000082805	-0.8068	-1.7493	9.80E-09	1.35E-07	ERC1	ELKS/RAB6 protein_co	12	990509	1495933	1	p13.33
ENSG00000133703	-0.8074	-1.7501	6.41E-13	2.31E-11	KRAS	Kirsten rat protein_co	12	25204789	25250936	-1	p12.1
ENSG00000256628	-0.8074	-1.7501	0.0003	0.0014	ZBTB11-AS1	ZBTB11 antisense	3	1.02E+08	1.02E+08	1	q12.3
ENSG00000077044	-0.8075	-1.7501	0.0012	0.0049	DGKD	diacylglyce protein_co	2	2.33E+08	2.33E+08	1	q37.1
ENSG00000054793	-0.8081	-1.7509	4.96E-12	1.42E-10	ATP9A	ATPase, cla protein_co	20	51596514	51768634	-1	q13.2
ENSG00000218336	-0.8085	-1.7514	0.0007	0.0029	TENM3	teneurin tr protein_co	4	1.82E+08	1.83E+08	1	q34.3
ENSG00000180155	-0.8086	-1.7515	0.0003	0.0014	LYNX1	Ly6/neurot protein_co	8	1.43E+08	1.43E+08	-1	q24.3
ENSG00000169375	-0.8098	-1.753	6.06E-09	8.81E-08	SIN3A	SIN3 transc protein_co	15	75369379	75455842	-1	q24.2
ENSG00000010292	-0.81	-1.7532	9.55E-06	6.70E-05	NCAPD2	non-SMC c protein_co	12	6493356	6531955	1	p13.31
ENSG00000142207	-0.8102	-1.7534	1.18E-10	2.52E-09	URB1	URB1 ribos protein_co	21	32311018	32393026	-1	q22.11
ENSG00000145911	-0.8105	-1.7539	0.0032	0.0114	N4BP3	NEDD4 bin protein_co	5	1.78E+08	1.78E+08	1	q35.3
ENSG00000136828	-0.8106	-1.754	0.0001	0.0007	RALGPS1	Ral GEF wit protein_co	9	1.27E+08	1.27E+08	1	q33.3
ENSG00000119772	-0.8115	-1.7551	3.66E-07	3.52E-06	DNMT3A	DNA (cytos protein_co	2	25227855	25342590	-1	p23.3
ENSG00000107485	-0.8116	-1.7551	0.0159	0.0446	GATA3	GATA bindi protein_co	10	8053604	8075198	1	p14
ENSG00000137075	-0.8117	-1.7553	1.02E-14	5.74E-13	RNF38	ring finger protein_co	9	36336396	36487548	-1	p13.2
ENSG00000174579	-0.8118	-1.7554	1.60E-10	3.29E-09	MSL2	male-speci protein_co	3	1.36E+08	1.36E+08	-1	q22.3
ENSG00000049283	-0.8121	-1.7558	9.45E-06	6.64E-05	EPN3	epsin 3 [So protein_co	17	50532543	50543750	1	q21.33
ENSG00000223496	-0.8129	-1.7567	2.06E-07	2.10E-06	EXOSC6	exosome c protein_co	16	70246778	70251930	-1	q22.1
ENSG00000198586	-0.8131	-1.757	7.97E-12	2.19E-10	TLK1	tousled-lik protein_co	2	1.71E+08	1.71E+08	-1	q31.1
ENSG00000171316	-0.8132	-1.7571	8.81E-12	2.38E-10	CHD7	chromodor protein_co	8	60678778	60868028	1	q12.2
ENSG00000005100	-0.8133	-1.7572	1.54E-11	3.92E-10	DHX33	DEAH (Asp protein_co	17	5440912	5469060	-1	p13.2
ENSG00000150457	-0.8136	-1.7576	5.52E-05	0.0003	LATS2	large tumo protein_co	13	20973032	21061547	-1	q12.11
ENSG00000100084	-0.8137	-1.7577	2.20E-05	0.0001	HIRA	histone cel protein_co	22	19330698	19447450	-1	q11.21
ENSG00000125449	-0.8139	-1.758	2.65E-06	2.08E-05	ARMC7	armadillo r protein_co	17	75109952	75130265	1	q25.1
ENSG00000091157	-0.8141	-1.7582	4.09E-10	7.65E-09	WDR7	WD repeat protein_co	18	56651343	57036606	1	q21.31
ENSG00000275023	-0.8146	-1.7588	2.62E-09	4.08E-08	MLLT6	myeloid/ly protein_co	17	38705542	38729803	1	q12
ENSG00000111642	-0.8149	-1.7591	4.04E-10	7.58E-09	CHD4	chromodor protein_co	12	6570083	6607476	-1	p13.31
ENSG00000188827	-0.8151	-1.7594	4.22E-06	3.18E-05	SLX4	SLX4 struct protein_co	16	3581181	3611598	-1	p13.3
ENSG00000198753	-0.8151	-1.7594	0.0004	0.0019	PLXNB3	plexin B3 [S protein_co X		1.54E+08	1.54E+08	1	q28
ENSG00000157216	-0.8159	-1.7604	4.05E-10	7.60E-09	SSBP3	single strar protein_co	1	54225432	54413479	-1	p32.3
ENSG00000235423	-0.816	-1.7605	0.0006	0.0026	RP11-282O18.3	antisense	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000089154	-0.8162	-1.7608	1.10E-10	2.36E-09	GCN1L1	GCN1 gene protein_co	12	1.2E+08	1.2E+08	-1	q24.23
ENSG00000177034	-0.8163	-1.7609	1.77E-17	1.93E-15	MTX3	metaxin 3   protein_co	5	79976731	79991262	-1	q14.1
ENSG00000064655	-0.8163	-1.7609	2.04E-06	1.64E-05	EYA2	EYA transci protein_co	20	46894624	47188844	1	q13.12

ENSG00000173517	-0.8165	-1.7611	2.12E-07	2.15E-06	PEAK1	pseudopod protein_co	15	77100656	77420144	-1	q24.3
ENSG00000039523	-0.8165	-1.7611	2.28E-05	0.0001	FAM65A	family with protein_co	16	67518418	67546788	1	q22.1
ENSG00000251322	-0.8167	-1.7613	0.0002	0.0009	SHANK3	SH3 and m processed_	22	50674415	50733298	1	q13.33
ENSG00000065923	-0.8168	-1.7614	0.0002	0.0011	SLC9A7	solute carrier protein_co X		46599252	46759172	-1	p11.3
ENSG00000065717	-0.8168	-1.7616	0.0003	0.0015	TLE2	transducin protein_co	19	2997638	3047635	-1	p13.3
ENSG00000230715	-0.817	-1.7617	0.0144	0.0412	RP11-274B21.4	processed_	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000120885	-0.817	-1.7618	0.0008	0.0033	CLU	clusterin [S protein_co	8	27596917	27615031	-1	p21.1
ENSG00000203499	-0.8171	-1.7618	0.0022	0.0083	FAM83H-AS1	FAM83H ar lincRNA	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000187017	-0.8173	-1.7621	0.0065	0.0209	ESPN	espin [Sour protein_co	1	6424788	6461370	1	p36.31
ENSG00000273142	-0.8178	-1.7628	0.0049	0.0164	RP11-458F8.4	lincRNA	7	66902857	66906297	1	q11.21
ENSG00000260006	-0.8179	-1.7629	0.004	0.0137	RP11-469M7.1	lincRNA	2	2.01E+08	2.01E+08	1	q33.1
ENSG00000140320	-0.818	-1.763	6.48E-10	1.16E-08	BAHD1	bromo adjacent protein_co	15	40439721	40468242	1	q15.1
ENSG00000119403	-0.8181	-1.7631	0.0057	0.0188	PHF19	PHD finger protein_co	9	1.21E+08	1.21E+08	-1	q33.2
ENSG00000112659	-0.8183	-1.7633	2.61E-07	2.58E-06	CUL9	cullin 9 [So protein_co	6	43182175	43224587	1	p21.1
ENSG00000104369	-0.8184	-1.7634	1.54E-09	2.50E-08	JPH1	junctionophilin protein_co	8	74234700	74321328	-1	q21.11
ENSG00000162804	-0.8186	-1.7637	0.0009	0.0037	SNED1	sushi, nido protein_co	2	2.41E+08	2.41E+08	1	q37.3
ENSG00000221823	-0.8187	-1.7638	4.36E-08	5.21E-07	PPP3R1	protein phosphatase protein_co	2	68178857	68256237	-1	p14
ENSG00000099991	-0.8187	-1.7639	2.77E-09	4.30E-08	CABIN1	calcineurin protein_co	22	24011192	24178628	1	q11.23
ENSG00000133030	-0.819	-1.7642	4.56E-12	1.32E-10	MPRIP	myosin phosphatase protein_co	17	17042545	17217679	1	p11.2
ENSG00000115616	-0.8191	-1.7643	0.0148	0.0421	SLC9A2	solute carrier protein_co	2	1.03E+08	1.03E+08	1	q12.1
ENSG00000160131	-0.8196	-1.7649	3.24E-11	7.74E-10	VMA21	VMA21 vacuole protein_co X		1.51E+08	1.51E+08	1	q28
ENSG00000170653	-0.8198	-1.7651	6.24E-09	9.05E-08	ATF7	activating transcription protein_co	12	53507856	53626410	-1	q13.13
ENSG00000162599	-0.82	-1.7655	1.53E-12	5.04E-11	NFIA	nuclear factor protein_co	1	60865259	61462793	1	p31.3
ENSG00000136854	-0.8201	-1.7655	1.68E-08	2.18E-07	STXBP1	syntrophin beta protein_co	9	1.28E+08	1.28E+08	1	q34.11
ENSG00000160284	-0.8204	-1.7659	0.0036	0.0125	SPATC1L	spermatogonial protein_co	21	46161148	46184476	-1	q22.3
ENSG00000168398	-0.8208	-1.7664	1.67E-08	2.17E-07	BDKRB2	bradykinin receptor protein_co	14	96204679	96244166	1	q32.2
ENSG00000175221	-0.8209	-1.7665	7.39E-07	6.63E-06	MED16	mediator complex protein_co	19	867630	893218	-1	p13.3
ENSG00000171681	-0.8211	-1.7668	1.50E-14	7.97E-13	ATF7IP	activating transcription protein_co	12	14365632	14502935	1	p13.1
ENSG00000176658	-0.8211	-1.7668	4.72E-12	1.36E-10	MYO1D	myosin I D [protein_co	17	32492522	32877177	-1	q11.2
ENSG00000248905	-0.8212	-1.7669	0.0007	0.0032	FMN1	formin 1 [S protein_co	15	32765545	33194733	-1	q13.3
ENSG00000196411	-0.8215	-1.7672	3.87E-08	4.69E-07	EPHB4	EPH receptor protein_co	7	1.01E+08	1.01E+08	-1	q22.1
ENSG00000176834	-0.8221	-1.7679	1.93E-06	1.56E-05	VSIG10	V-set and immunoglobulin protein_co	12	1.18E+08	1.18E+08	-1	q24.23
ENSG00000169635	-0.8221	-1.768	3.40E-05	0.0002	HIC2	hypermethylated protein_co	22	21417404	21451463	1	q11.21
ENSG00000173273	-0.8222	-1.7681	3.86E-17	3.87E-15	TNKS	tankyrase, protein_co	8	9555914	9782346	1	p23.1
ENSG00000146373	-0.8223	-1.7683	1.56E-06	1.29E-05	RNF217	ring finger protein_co	6	1.25E+08	1.25E+08	1	q22.31
ENSG00000165650	-0.8226	-1.7686	1.93E-16	1.60E-14	PDZD8	PDZ domain protein_co	10	1.17E+08	1.17E+08	-1	q26.11
ENSG00000182197	-0.8226	-1.7686	2.94E-07	2.88E-06	EXT1	exostosin glycosyltransferase protein_co	8	1.18E+08	1.18E+08	-1	q24.11

ENSG00000157106	-0.8227	-1.7687	1.18E-13	5.05E-12	SMG1	SMG1 phosphoprotein_co	16	18804853	18926454	-1	p12.3
ENSG00000108262	-0.8228	-1.7688	6.05E-09	8.80E-08	GIT1	G protein-coupled protein_co	17	29573469	29594054	-1	q11.2
ENSG00000210194	-0.8228	-1.7688	0.0086	0.0267	MT-TE	mitochondrial tRNA MT		14674	14742		-1
ENSG00000069399	-0.8233	-1.7694	5.80E-06	4.26E-05	BCL3	B-cell CLL/lymphoma protein_co	19	44747705	44760044		1 q13.32
ENSG00000156218	-0.824	-1.7703	7.21E-05	0.0004	ADAMTSL3	ADAMTS-like protein_co	15	83654086	84039842		1 q25.2
ENSG00000169992	-0.8243	-1.7707	1.34E-05	9.07E-05	NLGN2	neuroligin protein_co	17	7404874	7419860		1 p13.1
ENSG00000130653	-0.8247	-1.7711	0.0017	0.0066	PNPLA7	patatin-like protein_co	9	1.37E+08	1.38E+08		-1 q34.3
ENSG00000135686	-0.8253	-1.772	1.26E-15	8.54E-14	KLHL36	kelch-like family protein_co	16	84648525	84667686		1 q24.1
ENSG00000156966	-0.8256	-1.7722	4.22E-10	7.86E-09	B3GNT7	UDP-GlcNAc 6-epimerase protein_co	2	2.31E+08	2.31E+08		1 q37.1
ENSG00000070476	-0.8255	-1.7722	1.44E-09	2.34E-08	ZXDC	ZXD family protein_co	3	1.26E+08	1.26E+08		-1 q21.3
ENSG00000214814	-0.8255	-1.7722	0.0028	0.0102	FER1L6	fer-1-like family protein_co	8	1.24E+08	1.24E+08		1 q24.13
ENSG00000271425	-0.8259	-1.7727	0.0005	0.0024	NBPF10	neuroblast protein_co	1	1.46E+08	1.46E+08		-1 q21.1
ENSG00000155640	-0.8271	-1.7742	6.57E-07	5.95E-06	C10orf12	chromosome protein_co	10	96981284	96986212		1 q24.1
ENSG00000148730	-0.8274	-1.7745	6.92E-13	2.48E-11	EIF4EBP2	eukaryotic protein_co	10	70404379	70428618		1 q22.1
ENSG00000174233	-0.8275	-1.7746	3.53E-12	1.06E-10	ADCY6	adenylate cyclase protein_co	12	48766194	48789037		-1 q13.12
ENSG00000071242	-0.8276	-1.7747	3.86E-12	1.14E-10	RPS6KA2	ribosomal protein_co	6	1.66E+08	1.67E+08		-1 q27
ENSG00000259959	-0.8278	-1.7749	0.0074	0.0233	RP11-121C2.2	lincRNA	4	47840122	47844339		-1 p12
ENSG00000073849	-0.828	-1.7752	0.0002	0.0011	ST6GAL1	ST6 beta-galactosyltransferase protein_co	3	1.87E+08	1.87E+08		1 q27.3
ENSG00000170085	-0.8281	-1.7753	0.0002	0.001	SIMC1	SUMO-interacting protein_co	5	1.76E+08	1.76E+08		1 q35.2
ENSG00000135253	-0.8285	-1.7759	0.0031	0.011	KCP	kielins/choroideremia protein_co	7	1.29E+08	1.29E+08		-1 q32.1
ENSG00000205336	-0.8291	-1.7766	2.34E-07	2.34E-06	GPR56	G protein-coupled protein_co	16	57610652	57665580		1 q21
ENSG00000198420	-0.8294	-1.777	3.71E-10	7.02E-09	FAM115A	family with sequence similarity 115 protein_co	7	1.44E+08	1.44E+08		-1 q35
ENSG00000164690	-0.8299	-1.7775	0.0111	0.0331	SHH	sonic hedgehog protein_co	7	1.56E+08	1.56E+08		-1 q36.3
ENSG00000137857	-0.8303	-1.778	0.0011	0.0046	DUOX1	dual oxidase protein_co	15	45129933	45165576		1 q21.1
ENSG00000078804	-0.8306	-1.7784	1.70E-12	5.48E-11	TP53INP2	tumor protein p53 protein_co	20	34704290	34713439		1 q11.22
ENSG00000117266	-0.8311	-1.7791	4.71E-07	4.40E-06	CDK18	cyclin-dependent kinase protein_co	1	2.06E+08	2.06E+08		1 q32.1
ENSG00000110237	-0.8323	-1.7805	1.74E-08	2.25E-07	ARHGEF17	Rho guanine nucleotide exchange factor protein_co	11	73308289	73369091		1 q13.4
ENSG00000163961	-0.8326	-1.7809	2.35E-10	4.70E-09	RNF168	ring finger protein_co	3	1.96E+08	1.97E+08		-1 q29
ENSG00000184828	-0.8327	-1.781	0.0106	0.0318	ZBTB7C	zinc finger protein_co	18	48026673	48410752		-1 q21.1
ENSG00000167703	-0.8332	-1.7817	2.47E-05	0.0002	SLC43A2	solute carrier protein_co	17	1569267	1628886		-1 p13.3
ENSG00000105939	-0.8343	-1.783	3.49E-11	8.27E-10	ZC3HAV1	zinc finger protein_co	7	1.39E+08	1.39E+08		-1 q34
ENSG00000197024	-0.8345	-1.7833	1.30E-08	1.74E-07	ZNF398	zinc finger protein_co	7	1.49E+08	1.49E+08		1 q36.1
ENSG00000166965	-0.835	-1.7838	6.90E-05	0.0004	RCCD1	RCC1 domain protein_co	15	90954870	90963125		1 q26.1
ENSG00000204217	-0.8352	-1.7841	9.63E-12	2.57E-10	BMPR2	bone morphogenetic protein_co	2	2.02E+08	2.03E+08		1 q33.1
ENSG00000100888	-0.8355	-1.7845	7.02E-10	1.24E-08	CHD8	chromodomain protein_co	14	21385194	21456126		-1 q11.2
ENSG00000080603	-0.8356	-1.7846	6.41E-16	4.65E-14	SRCAP	Snf2-related protein_co	16	30698209	30745194		1 p11.2
ENSG00000071564	-0.8358	-1.7849	7.39E-11	1.63E-09	TCF3	transcription factor protein_co	19	1609290	1652605		-1 p13.3

ENSG00000263001	-0.8367	-1.7859	9.54E-10	1.63E-08	GTF2I	general tra protein_co	7	74657667	74760692	1	q11.23
ENSG00000160949	-0.8371	-1.7864	0.0016	0.0064	TONSL	tonsoku-lik protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000070047	-0.8374	-1.7868	5.42E-12	1.54E-10	PHRF1	PHD and rii protein_co	11	576486	612222	1	p15.5
ENSG00000204371	-0.8375	-1.7869	5.36E-09	7.85E-08	EHMT2	euchromat protein_co	6	31879759	31897687	-1	p21.33
ENSG00000166828	-0.8377	-1.7871	0.0003	0.0015	SCNN1G	sodium cha protein_co	16	23182715	23216883	1	p12.2
ENSG00000170561	-0.8377	-1.7872	0.0004	0.0018	IRX2	iroquois hc protein_co	5	2745845	2751662	-1	p15.33
ENSG00000068078	-0.8377	-1.7872	0.0016	0.0064	FGFR3	fibroblast g protein_co	4	1793307	1808872	1	p16.3
ENSG00000142700	-0.839	-1.7888	1.69E-08	2.19E-07	DMRTA2	DMRT-like protein_co	1	50417550	50423500	-1	p32.3
ENSG00000172403	-0.8391	-1.7889	3.27E-05	0.0002	SYNPO2	synaptopoi protein_co	4	1.19E+08	1.19E+08	1	q26
ENSG00000142327	-0.8396	-1.7896	3.66E-07	3.52E-06	RNPEPL1	arginyl ami protein_co	2	2.41E+08	2.41E+08	1	q37.3
ENSG00000147130	-0.8408	-1.791	1.38E-10	2.89E-09	ZMYM3	zinc finger, protein_co X		71239624	71255146	-1	q13.1
ENSG00000204839	-0.8408	-1.7911	0.0172	0.0477	MROH6	maestro he protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000146278	-0.841	-1.7913	2.29E-12	7.13E-11	PNRC1	proline-ric protein_co	6	89080751	89085160	1	q15
ENSG00000155034	-0.8418	-1.7923	5.87E-07	5.38E-06	FBXL18	F-box and l protein_co	7	5431335	5513798	-1	p22.1
ENSG00000243477	-0.8422	-1.7928	0.001	0.0042	NAT6	N-acetyltra protein_co	3	50296402	50299421	-1	p21.31
ENSG00000170873	-0.8432	-1.794	1.60E-06	1.32E-05	MTSS1	metastasis protein_co	8	1.25E+08	1.25E+08	-1	q24.13
ENSG00000126368	-0.8434	-1.7943	0.0011	0.0046	NR1D1	nuclear rec protein_co	17	40092787	40100725	-1	q21.1
ENSG00000147459	-0.845	-1.7962	2.04E-05	0.0001	DOCK5	dedicator c protein_co	8	25184723	25418082	1	p21.2
ENSG00000121281	-0.8455	-1.7969	3.80E-05	0.0002	ADCY7	adenylate c protein_co	16	50246137	50318135	1	q12.1
ENSG00000101236	-0.8458	-1.7973	5.93E-07	5.43E-06	RNF24	ring finger protein_co	20	3927309	4015582	-1	p13
ENSG00000144642	-0.8458	-1.7973	1.24E-06	1.05E-05	RBMS3	RNA bindin protein_co	3	29280982	30010391	1	p24.1
ENSG00000096433	-0.8461	-1.7977	7.22E-08	8.17E-07	ITPR3	inositol 1,4 protein_co	6	33620365	33696574	1	p21.31
ENSG00000013288	-0.8472	-1.799	4.10E-05	0.0002	MAN2B2	mannosida protein_co	4	6575175	6623362	1	p16.1
ENSG00000127663	-0.8474	-1.7992	6.92E-10	1.22E-08	KDM4B	lysine (K)-s protein_co	19	4969113	5153595	1	p13.3
ENSG00000116273	-0.8475	-1.7993	1.63E-07	1.70E-06	PHF13	PHD finger protein_co	1	6613685	6624033	1	p36.31
ENSG00000081913	-0.8486	-1.8008	7.72E-09	1.10E-07	PHLPP1	PH domain protein_co	18	62715450	62980433	1	q21.33
ENSG00000129351	-0.8488	-1.801	2.46E-14	1.25E-12	ILF3	interleukin protein_co	19	10654261	10692417	1	p13.2
ENSG00000064309	-0.8489	-1.8011	2.62E-07	2.59E-06	CDON	cell adhesi protein_co	11	1.26E+08	1.26E+08	-1	q24.2
ENSG00000176994	-0.8491	-1.8013	1.19E-07	1.28E-06	SMCR8	Smith-Mag protein_co	17	18315310	18323203	1	p11.2
ENSG00000105357	-0.85	-1.8024	1.75E-07	1.81E-06	MYH14	myosin, he protein_co	19	50188186	50310545	1	q13.33
ENSG00000108306	-0.85	-1.8026	6.99E-16	5.05E-14	FBXL20	F-box and l protein_co	17	39252644	39402523	-1	q12
ENSG00000119711	-0.851	-1.8038	1.95E-10	3.95E-09	ALDH6A1	aldehyde d protein_co	14	74056850	74084493	-1	q24.3
ENSG00000141252	-0.8525	-1.8057	1.07E-09	1.81E-08	VPS53	vacuolar pr protein_co	17	508668	721717	-1	p13.3
ENSG00000145743	-0.8531	-1.8064	5.07E-10	9.26E-09	FBXL17	F-box and l protein_co	5	1.08E+08	1.08E+08	-1	q21.3
ENSG00000169221	-0.8531	-1.8064	2.56E-07	2.53E-06	TBC1D10B	TBC1 domæ protein_co	16	30357102	30370264	-1	p11.2
ENSG00000163251	-0.8542	-1.8078	1.06E-06	9.18E-06	FZD5	frizzled cla: protein_co	2	2.08E+08	2.08E+08	-1	q33.3
ENSG00000166860	-0.8546	-1.8082	5.89E-06	4.32E-05	ZBTB39	zinc finger protein_co	12	56998834	57006446	-1	q13.3



ENSG00000013619	-0.8546	-1.8082	0.0034	0.0119 MAMLD1	mastermin protein_co X	1.5E+08	1.51E+08	1 q28
ENSG000000132613	-0.8549	-1.8086	4.15E-05	0.0003 MTSS1L	metastasis protein_co	16 70661204	70686066	-1 q22.1
ENSG000000143776	-0.8549	-1.8087	2.03E-11	5.07E-10 CDC42BPA	CDC42 binc protein_co	1 2.27E+08	2.27E+08	-1 q42.13
ENSG000000104881	-0.8552	-1.809	2.36E-06	1.87E-05 PPP1R13L	protein phi protein_co	19 45379634	45406349	-1 q13.32
ENSG000000132470	-0.8557	-1.8096	0.0001	0.0007 ITGB4	integrin, beta protein_co	17 75721328	75757818	1 q25.1
ENSG000000169057	-0.8562	-1.8102	2.06E-14	1.06E-12 MECP2	methyl CpC protein_co X	1.54E+08	1.54E+08	-1 q28
ENSG000000132024	-0.8566	-1.8108	2.42E-12	7.45E-11 CC2D1A	coiled-coil protein_co	19 13906201	13930879	1 p13.12
ENSG000000102302	-0.8566	-1.8108	0.0009	0.004 FGD1	FYVE, RhoC protein_co X	54445454	54496166	-1 p11.22
ENSG000000269958	-0.8569	-1.8112	0.0003	0.0014 RP11-73M18.8	sense_intr	14 1.04E+08	1.04E+08	1 q32.33
ENSG000000103653	-0.857	-1.8113	3.11E-11	7.47E-10 CSK	c-src tyrosi protein_co	15 74782057	74803198	1 q24.1
ENSG000000185630	-0.8575	-1.8119	4.79E-08	5.66E-07 PBX1	pre-B-cell I protein_co	1 1.65E+08	1.65E+08	1 q23.3
ENSG000000137693	-0.8581	-1.8126	1.24E-17	1.43E-15 YAP1	Yes-associ protein_co	11 1.02E+08	1.02E+08	1 q22.1
ENSG000000178607	-0.8582	-1.8128	6.84E-11	1.53E-09 ERN1	endoplasm protein_co	17 64039142	64130819	-1 q23.3
ENSG000000072062	-0.8584	-1.8131	1.72E-07	1.78E-06 PRKACA	protein kin protein_co	19 14091688	14118084	-1 p13.12
ENSG000000139083	-0.8585	-1.8132	5.04E-12	1.45E-10 ETV6	ets variant protein_co	12 11649854	11895402	1 p13.2
ENSG000000143867	-0.859	-1.8138	0.0034	0.0121 OSR1	odd-skippe protein_co	2 19351485	19358653	-1 p24.1
ENSG000000099814	-0.8591	-1.8139	1.04E-12	3.60E-11 CEP170B	centrosom protein_co	14 1.05E+08	1.05E+08	1 q32.33
ENSG000000196588	-0.8595	-1.8144	0.0002	0.0012 MKL1	megakaryo protein_co	22 40410281	40636702	-1 q13.2
ENSG000000160633	-0.8596	-1.8146	3.04E-08	3.74E-07 SAFB	scaffold att protein_co	19 5623035	5668478	1 p13.3
ENSG000000158158	-0.86	-1.8151	3.13E-10	6.08E-09 CNNM4	cyclin and (protein_co	2 96760902	96811891	1 q11.2
ENSG000000105227	-0.8601	-1.8151	0.0015	0.0061 PRX	periaxin [S protein_co	19 40393768	40413366	-1 q13.2
ENSG000000148735	-0.8605	-1.8156	7.14E-05	0.0004 PLEKHS1	pleckstrin I protein_co	10 1.14E+08	1.14E+08	1 q25.3
ENSG000000151276	-0.8607	-1.8159	3.71E-10	7.02E-09 MAGI1	membrane protein_co	3 65353525	66038834	-1 p14.1
ENSG000000175643	-0.8607	-1.8159	0.0008	0.0035 RMI2	RecQ medi protein_co	16 11249619	11351762	1 p13.13
ENSG000000279010	-0.8613	-1.8167	0.0015	0.0058 MIR6820	microRNA (sense_ove	22 37948352	38002889	1 q13.1
ENSG000000115353	-0.8614	-1.8168	0.0168	0.0468 TACR1	tachykinin protein_co	2 75046463	75199700	-1 p12
ENSG000000126821	-0.8615	-1.8169	0.0065	0.021 SGPP1	sphingosin protein_co	14 63684214	63728039	-1 q23.2
ENSG00000011304	-0.8617	-1.8171	9.16E-14	4.01E-12 PTBP1	polypyrimii protein_co	19 797075	812327	1 p13.3
ENSG000000230724	-0.8618	-1.8173	0.0095	0.0289 LINC01001	long interg lincRNA	11 127204	139612	-1 p15.5
ENSG000000261115	-0.862	-1.8175	0.0039	0.0135 TMEM178B	transmemk protein_co	7 1.41E+08	1.41E+08	1 q34
ENSG000000078269	-0.8621	-1.8176	2.85E-07	2.80E-06 SYNJ2	synaptojan protein_co	6 1.58E+08	1.58E+08	1 q25.3
ENSG000000172819	-0.8621	-1.8177	2.17E-05	0.0001 RARG	retinoic aci protein_co	12 53210567	53232980	-1 q13.13
ENSG000000151693	-0.8627	-1.8185	1.93E-05	0.0001 ASAP2	ArfGAP wit protein_co	2 9206765	9405683	1 p25.1
ENSG000000067955	-0.8634	-1.8193	6.31E-12	1.76E-10 CBF3	core-bindir protein_co	16 67029116	67101058	1 q22.1
ENSG000000153904	-0.8634	-1.8194	5.84E-10	1.05E-08 DDAH1	dimethylar protein_co	1 85318481	85578363	-1 p22.3
ENSG000000198205	-0.8635	-1.8194	0.0005	0.0023 ZXDA	zinc finger, protein_co X	57906708	57910820	-1 p11.21
ENSG000000173065	-0.8636	-1.8195	1.40E-07	1.49E-06 FAM222B	family with protein_co	17 28755978	28855232	-1 q11.2

ENSG00000184271	-0.8636	-1.8195	0.0085	0.0264	POU6F1	POU class 6 protein_co	12	51186936	51217693	-1	q13.13
ENSG00000177733	-0.8638	-1.8198	4.39E-21	1.33E-18	HNRNPA0	heterogeneous protein_co	5	1.38E+08	1.38E+08	-1	q31.2
ENSG00000164080	-0.8639	-1.82	2.39E-08	3.00E-07	RAD54L2	RAD54-like protein_co	3	51541144	51668667	1	p21.2
ENSG00000069020	-0.8641	-1.8201	1.67E-06	1.38E-05	MAST4	microtubul protein_co	5	66596361	67169595	1	q12.3
ENSG00000124171	-0.8651	-1.8214	1.36E-06	1.14E-05	PARD6B	par-6 famil protein_co	20	50731544	50756795	1	q13.13
ENSG00000106829	-0.8653	-1.8217	6.25E-10	1.12E-08	TLE4	transducin protein_co	9	79571773	79726882	1	q21.31
ENSG00000102908	-0.8654	-1.8218	4.91E-08	5.77E-07	NFAT5	nuclear fac protein_co	16	69565094	69704666	1	q22.1
ENSG00000204842	-0.8654	-1.8219	3.80E-08	4.60E-07	ATXN2	ataxin 2 [Sc protein_co	12	1.11E+08	1.12E+08	-1	q24.12
ENSG00000144724	-0.8661	-1.8227	5.38E-06	3.97E-05	PTPRG	protein tyr protein_co	3	61561569	62297613	1	p14.2
ENSG00000143674	-0.8664	-1.8232	5.44E-05	0.0003	MLK4	Mitogen-act protein_co	1	2.33E+08	2.33E+08	1	q42.2
ENSG00000149043	-0.8666	-1.8233	0.0031	0.011	SYT8	synaptotag protein_co	11	1828307	1837521	1	p15.5
ENSG00000258634	-0.8666	-1.8234	1.39E-05	9.39E-05	RP4-773N10.4	antisense	1	1.1E+08	1.1E+08	1	p13.3
ENSG00000007944	-0.8668	-1.8236	0.0003	0.0015	MYLIP	myosin reg protein_co	6	16129125	16148248	1	p22.3
ENSG00000260766	-0.8673	-1.8242	0.0011	0.0044	RP11-226L15.5	sense_ove	1	1.6E+08	1.6E+08	-1	q23.2
ENSG00000176945	-0.8674	-1.8244	3.51E-07	3.39E-06	MUC20	mucin 20, c protein_co	3	1.96E+08	1.96E+08	1	q29
ENSG00000145016	-0.8682	-1.8254	2.19E-05	0.0001	KIAA0226	KIAA0226 [ protein_co	3	1.98E+08	1.98E+08	-1	q29
ENSG00000188493	-0.8684	-1.8257	0.0002	0.001	C19orf54	chromosom protein_co	19	40740856	40751553	-1	q13.2
ENSG00000099139	-0.8687	-1.8261	3.64E-05	0.0002	PCSK5	proprotein protein_co	9	75890644	76362339	1	q21.13
ENSG00000205730	-0.869	-1.8264	2.63E-13	1.04E-11	ITPRIPL2	inositol 1,4 protein_co	16	19113932	19121629	1	p12.3
ENSG00000072840	-0.8696	-1.8272	2.19E-05	0.0001	EVC	Ellis van Cr protein_co	4	5711197	5814305	1	p16.2
ENSG00000183943	-0.8697	-1.8273	5.68E-06	4.17E-05	PRKX	protein kin protein_co X		3604370	3713608	-1	p22.33
ENSG00000205903	-0.8698	-1.8274	1.99E-14	1.03E-12	ZNF316	zinc finger protein_co	7	6637322	6656432	1	p22.1
ENSG00000137203	-0.8702	-1.8279	3.04E-07	2.96E-06	TFAP2A	transcriptic protein_co	6	10393186	10419659	-1	p24.3
ENSG00000188559	-0.8703	-1.828	7.96E-07	7.09E-06	RALGAPA2	Ral GTPase protein_co	20	20389552	20712488	-1	p11.23
ENSG00000261534	-0.8706	-1.8284	0.0041	0.0141	RP11-244O19.1	sense_ove	9	1.22E+08	1.22E+08	-1	q33.2
ENSG00000152102	-0.8709	-1.8288	3.90E-14	1.89E-12	FAM168B	family with protein_co	2	1.31E+08	1.31E+08	-1	q21.1
ENSG00000021645	-0.871	-1.8289	0.0034	0.0119	NRXN3	neurexin 3 protein_co	14	78242391	79868290	1	q24.3
ENSG00000088038	-0.8711	-1.829	2.10E-08	2.67E-07	CNOT3	CCR4-NOT protein_co	19	54137728	54155681	1	q13.42
ENSG00000141298	-0.8721	-1.8304	1.83E-07	1.88E-06	SSH2	slingshot p protein_co	17	29625938	29930276	-1	q11.2
ENSG00000100241	-0.8723	-1.8306	1.43E-11	3.68E-10	SBF1	SET binding protein_co	22	50445000	50475025	-1	q13.33
ENSG00000205710	-0.8726	-1.8309	0.0018	0.0069	C17orf107	chromosom protein_co	17	4899418	4902932	1	p13.2
ENSG00000071894	-0.8728	-1.8312	1.61E-16	1.37E-14	CPSF1	cleavage ar protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000198373	-0.8729	-1.8313	1.55E-10	3.21E-09	WWP2	WW domai protein_co	16	69762306	69941741	1	q22.1
ENSG00000178764	-0.873	-1.8315	1.63E-06	1.35E-05	ZHX2	zinc fingers protein_co	8	1.23E+08	1.23E+08	1	q24.13
ENSG00000176542	-0.8734	-1.832	4.52E-09	6.71E-08	KIAA2018	KIAA2018 [ protein_co	3	1.14E+08	1.14E+08	-1	q13.2
ENSG00000157837	-0.8736	-1.8322	9.50E-13	3.33E-11	SPPL3	signal pept protein_co	12	1.21E+08	1.21E+08	-1	q24.31
ENSG00000120685	-0.8741	-1.8328	2.86E-10	5.59E-09	PROSER1	proline anc protein_co	13	39009866	39038076	-1	q13.3

ENSG00000151612	-0.8744	-1.8332	8.98E-09	1.25E-07 ZNF827	zinc finger protein_co	4	1.46E+08	1.46E+08	-1 q31.22
ENSG00000172667	-0.8751	-1.8342	7.26E-07	6.52E-06 ZMAT3	zinc finger, protein_co	3	1.79E+08	1.79E+08	-1 q26.32
ENSG00000196422	-0.8754	-1.8345	6.63E-10	1.18E-08 PPP1R26	protein ph,protein_co	9	1.35E+08	1.35E+08	1 q34.3
ENSG00000196914	-0.8759	-1.8352	1.37E-13	5.76E-12 ARHGEF12	Rho guanin protein_co	11	1.2E+08	1.2E+08	1 q23.3
ENSG00000169047	-0.8775	-1.8372	1.38E-08	1.83E-07 IRS1	insulin rece,protein_co	2	2.27E+08	2.27E+08	-1 q36.3
ENSG00000120896	-0.878	-1.8378	2.65E-07	2.61E-06 SORBS3	sorbin and protein_co	8	22544986	22575788	1 p21.3
ENSG00000162105	-0.8799	-1.8402	8.20E-09	1.16E-07 SHANK2	SH3 and m protein_co	11	70467856	71252577	-1 q13.4
ENSG00000171385	-0.8799	-1.8402	0.0023	0.0087 KCND3	potassium protein_co	1	1.12E+08	1.12E+08	-1 p13.2
ENSG00000079435	-0.8803	-1.8407	0.0004	0.002 LIPE	lipase, horr protein_co	19	42401507	42427426	-1 q13.2
ENSG00000174306	-0.8804	-1.8409	1.06E-08	1.46E-07 ZHX3	zinc fingers protein_co	20	41178448	41317672	-1 q12
ENSG00000168924	-0.8805	-1.841	1.05E-08	1.45E-07 LETM1	leucine zip,protein_co	4	1811479	1856247	-1 p16.3
ENSG00000088881	-0.8809	-1.8415	0.0004	0.0017 EBF4	early B-cell protein_co	20	2692878	2760108	1 p13
ENSG00000185924	-0.8811	-1.8418	0.0115	0.0341 RTN4RL1	reticulon 4 protein_co	17	1934677	2025345	-1 p13.3
ENSG00000130940	-0.8813	-1.842	2.67E-06	2.09E-05 CASZ1	castor zinc protein_co	1	10636604	10796650	-1 p36.22
ENSG00000107263	-0.8816	-1.8424	1.72E-07	1.79E-06 RAPGEF1	Rap guanin protein_co	9	1.32E+08	1.32E+08	-1 q34.13
ENSG00000167173	-0.882	-1.843	1.43E-09	2.34E-08 C15orf39	chromoson protein_co	15	75195643	75212169	1 q24.2
ENSG00000173120	-0.8829	-1.844	1.26E-18	1.87E-16 KDM2A	lysine (K)-s protein_co	11	67119269	67258087	1 q13.2
ENSG00000073282	-0.8834	-1.8447	1.68E-08	2.19E-07 TP63	tumor prot protein_co	3	1.9E+08	1.9E+08	1 q28
ENSG00000039068	-0.8836	-1.845	1.26E-11	3.27E-10 CDH1	cadherin 1, protein_co	16	68737225	68835548	1 q22.1
ENSG00000167182	-0.8836	-1.845	2.09E-06	1.67E-05 SP2	Sp2 transcr protein_co	17	47896150	47928957	1 q21.32
ENSG00000049239	-0.8842	-1.8457	1.26E-09	2.09E-08 H6PD	hexose-6-p protein_co	1	9234775	9271337	1 p36.22
ENSG00000158292	-0.8842	-1.8458	1.91E-06	1.55E-05 GPR153	G protein-c protein_co	1	6247346	6260975	-1 p36.31
ENSG00000167363	-0.8845	-1.8461	1.10E-05	7.56E-05 FN3K	fructosami protein_co	17	82735575	82751197	1 q25.3
ENSG00000255455	-0.8846	-1.8463	1.52E-06	1.26E-05 RP11-890B15.3	lincRNA	11	1.31E+08	1.31E+08	-1 q24.3
ENSG00000130821	-0.8848	-1.8465	8.35E-08	9.32E-07 SLC6A8	solute carri protein_co X		1.54E+08	1.54E+08	1 q28
ENSG00000106261	-0.885	-1.8468	1.51E-13	6.35E-12 ZKSCAN1	zinc finger protein_co	7	1E+08	1E+08	1 q22.1
ENSG00000274211	-0.8852	-1.8471	2.83E-10	5.53E-09 SOCS7	suppressor protein_co	17	38352228	38405593	1 q12
ENSG00000126461	-0.8855	-1.8475	3.51E-08	4.28E-07 SCAF1	SR-related protein_co	19	49642125	49658642	1 q13.33
ENSG00000186395	-0.8855	-1.8475	0.0003	0.0015 KRT10	keratin 10  protein_co	17	40818117	40822595	-1 q21.2
ENSG00000181090	-0.886	-1.8481	1.32E-11	3.41E-10 EHMT1	euchromat protein_co	9	1.38E+08	1.38E+08	1 q34.3
ENSG00000136379	-0.8866	-1.8488	9.46E-08	1.04E-06 ABHD17C	abhydrolas protein_co	15	80679684	80755621	1 q25.1
ENSG00000116698	-0.8867	-1.849	1.12E-12	3.84E-11 SMG7	SMG7 non: protein_co	1	1.83E+08	1.84E+08	1 q25.3
ENSG00000121060	-0.8871	-1.8494	3.59E-14	1.75E-12 TRIM25	tripartite r protein_co	17	56887909	56914038	-1 q22
ENSG00000120693	-0.8872	-1.8496	0.0178	0.0489 SMAD9	SMAD fami protein_co	13	36844831	36920765	-1 q13.3
ENSG00000173442	-0.8887	-1.8515	1.63E-10	3.35E-09 EHBP1L1	EH domain protein_co	11	65576038	65592650	1 q13.1
ENSG00000090447	-0.8888	-1.8517	0.013	0.0378 TFAP4	transcriptic protein_co	16	4257186	4273075	-1 p13.3
ENSG00000074706	-0.8897	-1.8528	0.0061	0.0199 IPCEF1	interaction protein_co	6	1.54E+08	1.54E+08	-1 q25.2

ENSG00000197724	-0.8905	-1.8538	2.60E-11	6.29E-10	PHF2	PHD finger protein_co	9	93576407	93679587	1	q22.31
ENSG00000196189	-0.8906	-1.854	5.04E-05	0.0003	SEMA4A	sema domain protein_co	1	1.56E+08	1.56E+08	1	q22
ENSG00000280206	-0.891	-1.8545	0.0004	0.002	CTB-193M12.5	TEC	16	15701237	15702118	1	p13.11
ENSG00000186111	-0.8913	-1.8548	1.91E-06	1.55E-05	PIP5K1C	phosphatic protein_co	19	3630183	3700479	-1	p13.3
ENSG00000196218	-0.8915	-1.8552	0.0007	0.0031	RYR1	ryanodine receptor protein_co	19	38433699	38587564	1	q13.2
ENSG00000138814	-0.8917	-1.8554	3.01E-08	3.71E-07	PPP3CA	protein phosphatase protein_co	4	1.01E+08	1.01E+08	-1	q24
ENSG00000260032	-0.892	-1.8558	1.16E-27	1.62E-24	LINC00657	long intergenic lincRNA	20	36045622	36050960	-1	q11.23
ENSG00000150893	-0.8921	-1.8558	0.0004	0.0019	FREM2	FRAS1 related protein_co	13	38687129	38887131	1	q13.3
ENSG00000103932	-0.8925	-1.8564	1.07E-08	1.46E-07	RPAP1	RNA polymerase protein_co	15	41517176	41544269	-1	q15.1
ENSG00000055483	-0.8927	-1.8567	1.05E-11	2.77E-10	USP36	ubiquitin specific protein_co	17	78787381	78841441	-1	q25.3
ENSG00000102081	-0.8931	-1.8571	7.11E-10	1.25E-08	FMR1	fragile X mental retardation protein_co X		1.48E+08	1.48E+08	1	q27.3
ENSG00000134909	-0.8932	-1.8573	9.02E-09	1.26E-07	ARHGAP32	Rho GTPase protein_co	11	1.29E+08	1.29E+08	-1	q24.3
ENSG00000142949	-0.8935	-1.8576	1.71E-18	2.48E-16	PTPRF	protein tyrosine phosphatase protein_co	1	43525187	43623666	1	p34.2
ENSG00000177463	-0.8935	-1.8577	5.51E-16	4.12E-14	NR2C2	nuclear receptor protein_co	3	14947584	15053600	1	p25.1
ENSG00000165025	-0.8939	-1.8582	5.64E-05	0.0003	SYK	spleen tyrosine kinase protein_co	9	90801787	90898549	1	q22.2
ENSG00000128923	-0.8941	-1.8585	2.40E-11	5.89E-10	FAM63B	family with sequence similarity 63 protein_co	15	58771192	58861900	1	q21.3
ENSG00000132825	-0.8946	-1.8591	3.06E-09	4.69E-08	PPP1R3D	protein phosphatase protein_co	20	59936668	59940297	-1	q13.33
ENSG00000204463	-0.8962	-1.8611	5.19E-11	1.19E-09	BAG6	BCL2-associated protein_co	6	31639028	31652705	-1	p21.33
ENSG00000197496	-0.8963	-1.8613	4.71E-10	8.68E-09	SLC2A10	solute carrier protein_co	20	46709487	46736347	1	q13.12
ENSG00000261609	-0.8964	-1.8614	3.72E-08	4.51E-07	GAN	gigaxonin like protein_co	16	81314952	81390884	1	q23.2
ENSG00000130175	-0.8965	-1.8616	7.33E-11	1.62E-09	PRKCSH	protein kinase protein_co	19	11435288	11450968	1	p13.2
ENSG00000038532	-0.8966	-1.8617	1.50E-11	3.85E-10	CLEC16A	C-type lectin protein_co	16	10944488	11182189	1	p13.13
ENSG00000105726	-0.8969	-1.8621	7.14E-08	8.10E-07	ATP13A1	ATPase type 13 protein_co	19	19645198	19663693	-1	p13.11
ENSG00000135870	-0.898	-1.8634	3.22E-17	3.30E-15	RC3H1	ring finger protein_co	1	1.74E+08	1.74E+08	-1	q25.1
ENSG00000226332	-0.8981	-1.8636	0.0157	0.0442	RP11-157P1.4	antisense	20	62305432	62306325	-1	q13.33
ENSG00000108846	-0.8985	-1.8642	0.0001	0.0007	ABCC3	ATP-binding cassette protein_co	17	50634777	50692252	1	q21.33
ENSG00000066044	-0.8987	-1.8644	9.63E-12	2.57E-10	ELAVL1	ELAV like R protein_co	19	7958579	8445041	-1	p13.2
ENSG00000186716	-0.8988	-1.8646	2.47E-09	3.86E-08	BCR	breakpoint cluster region protein_co	22	23179704	23318037	1	q11.23
ENSG00000243244	-0.8989	-1.8646	0.0017	0.0067	STON1	stonin 1 [Sc] protein_co	2	48529383	48598513	1	p16.3
ENSG00000103111	-0.9003	-1.8665	1.22E-10	2.58E-09	MON1B	MON1 secretory protein_co	16	77190835	77202405	1	q23.1
ENSG00000112297	-0.9018	-1.8683	1.84E-12	5.90E-11	AIM1	absent in melanocytes protein_co	6	1.07E+08	1.07E+08	1	q21
ENSG00000150907	-0.9027	-1.8695	1.88E-13	7.72E-12	FOXO1	forkhead box protein_co	13	40555667	40666597	-1	q14.11
ENSG00000197694	-0.903	-1.87	1.86E-10	3.78E-09	SPTAN1	spectrin, alpha protein_co	9	1.29E+08	1.29E+08	1	q34.11
ENSG00000196542	-0.9034	-1.8704	0.0001	0.0007	SPTSSB	serine palmitoyltransferase protein_co	3	1.61E+08	1.61E+08	-1	q26.1
ENSG00000272899	-0.9038	-1.871	0.0164	0.0457	RP11-309L24.4	lincRNA	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000110048	-0.904	-1.8713	1.37E-14	7.40E-13	OSBP	oxysterol binding protein_co	11	59574398	59616144	-1	q12.1
ENSG00000079482	-0.904	-1.8713	6.97E-05	0.0004	OPHN1	oligophrenin protein_co X		68042344	68433913	-1	q12

ENSG00000100354	-0.9048	-1.8722	4.16E-19	6.77E-17 TNRC6B	trinucleotic protein_co	22	40044817	40335808	1 q13.1
ENSG00000189339	-0.9049	-1.8724	9.89E-17	8.92E-15 SLC35E2B	solute carri protein_co	1	1659529	1692728	-1 p36.33
ENSG00000280202	-0.9049	-1.8724	0.0011	0.0045 RP5-1180D12.1	TEC	12	3610307	3612003	-1 p13.32
ENSG00000156453	-0.9057	-1.8735	5.07E-09	7.46E-08 PCDH1	protocadhe protein_co	5	1.42E+08	1.42E+08	-1 q31.3
ENSG00000152217	-0.9062	-1.8741	1.54E-07	1.62E-06 SETBP1	SET binding protein_co	18	44680173	45068510	1 q12.3
ENSG00000198740	-0.9074	-1.8756	6.92E-11	1.54E-09 ZNF652	zinc finger protein_co	17	49289206	49362473	-1 q21.33
ENSG00000137497	-0.9081	-1.8766	2.11E-10	4.25E-09 NUMA1	nuclear mit protein_co	11	72002864	72080693	-1 q13.4
ENSG00000100092	-0.9082	-1.8766	1.09E-08	1.48E-07 SH3BP1	SH3-domai protein_co	22	37634654	37666932	1 q13.1
ENSG00000001617	-0.9084	-1.8769	1.53E-07	1.61E-06 SEMA3F	sema domi protein_co	3	50155045	50189075	1 p21.31
ENSG00000123095	-0.9084	-1.8769	0.0051	0.017 BHLHE41	basic helix- protein_co	12	26120026	26125127	-1 p12.1
ENSG00000272150	-0.9085	-1.8771	0.0005	0.0022 NBPF25P	neuroblast transcribec	1	1.46E+08	1.46E+08	-1 q21.1
ENSG00000240184	-0.9106	-1.8798	8.16E-05	0.0005 PCDHGC3	protocadhe protein_co	5	1.41E+08	1.42E+08	1 q31.3
ENSG00000101695	-0.9113	-1.8807	0.0001	0.0006 RNF125	ring finger protein_co	18	32018372	32073213	1 q12.1
ENSG00000175115	-0.9118	-1.8814	3.98E-09	5.97E-08 PACS1	phosphofu protein_co	11	66070363	66244747	1 q13.1
ENSG00000262160	-0.9123	-1.882	3.71E-08	4.51E-07 RP11-96D1.11	antisense	16	68225969	68229145	-1 q22.1
ENSG00000150990	-0.9128	-1.8827	1.32E-12	4.44E-11 DHX37	DEAH (Asp- protein_co	12	1.25E+08	1.25E+08	-1 q24.31
ENSG00000175662	-0.9129	-1.8828	8.48E-09	1.19E-07 TOM1L2	target of m protein_co	17	17843511	17972422	-1 p11.2
ENSG00000179094	-0.9139	-1.8841	3.88E-07	3.70E-06 PER1	period circi protein_co	17	8140472	8156506	-1 p13.1
ENSG00000171992	-0.9147	-1.8852	2.12E-07	2.15E-06 SYNPO	synaptopo protein_co	5	1.51E+08	1.51E+08	1 q33.1
ENSG00000163909	-0.9152	-1.8859	0.0005	0.0022 HEYL	hes-relatec protein_co	1	39624153	39639945	-1 p34.2
ENSG00000140526	-0.9153	-1.886	5.13E-08	6.00E-07 ABHD2	abhydrolas protein_co	15	89087459	89202360	1 q26.1
ENSG00000123066	-0.9155	-1.8863	1.26E-16	1.10E-14 MED13L	mediator c protein_co	12	1.16E+08	1.16E+08	-1 q24.21
ENSG00000125430	-0.9156	-1.8863	1.70E-07	1.76E-06 HS3ST3B1	heparan su protein_co	17	14301083	14349404	1 p12
ENSG00000198807	-0.916	-1.8869	1.40E-07	1.49E-06 PAX9	paired box protein_co	14	36657568	36679715	1 q13.3
ENSG00000150347	-0.9165	-1.8875	7.78E-08	8.77E-07 ARID5B	AT rich inte protein_co	10	61901300	62096944	1 q21.2
ENSG00000153707	-0.9168	-1.8879	0.0004	0.0017 PTPRD	protein tyr protein_co	9	8314246	10612723	-1 p23
ENSG00000162636	-0.9169	-1.888	1.55E-06	1.29E-05 FAM102B	family with protein_co	1	1.09E+08	1.09E+08	1 p13.3
ENSG00000064687	-0.9171	-1.8884	7.12E-08	8.08E-07 ABCA7	ATP-bindin protein_co	19	1040101	1065572	1 p13.3
ENSG00000177303	-0.9176	-1.889	7.78E-06	5.57E-05 CASKIN2	CASK inter protein_co	17	75500261	75515583	-1 q25.1
ENSG00000152127	-0.9178	-1.8893	9.46E-08	1.04E-06 MGAT5	mannosyl ( protein_co	2	1.34E+08	1.34E+08	1 q21.2
ENSG00000065060	-0.9185	-1.8901	4.43E-17	4.37E-15 UHRF1BP1	UHRF1 bin protein_co	6	34792015	34883138	1 p21.31
ENSG00000214562	-0.9188	-1.8906	0.0134	0.0388 NUTM2D	NUT family protein_co	10	87357668	87370695	1 q23.2
ENSG00000174749	-0.919	-1.8908	9.39E-06	6.61E-05 C4orf32	chromoson protein_co	4	1.12E+08	1.12E+08	1 q25
ENSG00000168646	-0.9194	-1.8913	3.70E-05	0.0002 AXIN2	axin 2 [Sou protein_co	17	65528563	65561647	-1 q24.1
ENSG00000141503	-0.9198	-1.8918	2.17E-10	4.35E-09 MINK1	misshapen protein_co	17	4833388	4898061	1 p13.2
ENSG00000167487	-0.9203	-1.8925	1.29E-06	1.10E-05 KLHL26	kelch-like f protein_co	19	18636965	18671714	1 p13.11
ENSG00000231025	-0.9209	-1.8933	1.51E-05	0.0001 RP11-175O19.4	antisense	10	96992450	96995959	1 q24.1



ENSG00000113212	-0.9212	-1.8936	0.0135	0.0391	PCDHB7	protocadherin protein_co	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000213853	-0.9216	-1.8942	0.0005	0.0022	EMP2	epithelial n protein_co	16	10528422	10580698	-1	p13.13
ENSG00000136068	-0.9241	-1.8974	2.33E-16	1.91E-14	FLNB	filamin B, b protein_co	3	58008400	58172251	1	p14.3
ENSG00000149782	-0.9245	-1.898	2.32E-08	2.92E-07	PLCB3	phospholip protein_co	11	64251523	64269150	1	q13.1
ENSG00000149346	-0.9249	-1.8985	2.04E-07	2.08E-06	SLX4IP	SLX4 intera protein_co	20	10435303	10636829	1	p12.2
ENSG00000174136	-0.9252	-1.8989	4.44E-12	1.29E-10	RGMB	repulsive g protein_co	5	98768650	98798643	1	q15
ENSG00000214753	-0.9258	-1.8997	4.46E-10	8.25E-09	HNRNPUL2	heterogen protein_co	11	62712630	62727349	-1	q12.3
ENSG00000165417	-0.9265	-1.9006	7.64E-18	9.24E-16	GTF2A1	general tra protein_co	14	81175452	81221377	-1	q31.1
ENSG00000168488	-0.9266	-1.9008	9.01E-10	1.54E-08	ATXN2L	ataxin 2-lik protein_co	16	28823035	28837237	1	p11.2
ENSG00000108352	-0.9268	-1.9011	0.0062	0.02	RAPGEFL1	Rap guanin protein_co	17	40177010	40195656	1	q21.1
ENSG00000110090	-0.9269	-1.9012	2.31E-06	1.84E-05	CPT1A	carnitine p: protein_co	11	68754620	68844410	-1	q13.3
ENSG00000235568	-0.9274	-1.9019	0.0016	0.0062	NFAM1	NFAT activ: protein_co	22	42380410	42432395	-1	q13.2
ENSG00000102870	-0.9283	-1.903	1.16E-10	2.47E-09	ZNF629	zinc finger protein_co	16	30778449	30787202	-1	p11.2
ENSG00000120733	-0.9287	-1.9036	3.94E-11	9.26E-10	KDM3B	lysine (K)-s protein_co	5	1.38E+08	1.38E+08	1	q31.2
ENSG00000173598	-0.929	-1.9039	1.93E-11	4.84E-10	NUDT4	nudix (nucl protein_co	12	93377883	93408146	1	q22
ENSG00000126603	-0.9296	-1.9048	1.50E-05	0.0001	GLIS2	GLIS family protein_co	16	4314761	4339597	1	p13.3
ENSG00000160007	-0.9298	-1.905	7.11E-12	1.96E-10	ARHGAP35	Rho GTPase protein_co	19	46918676	47005077	1	q13.32
ENSG00000141736	-0.9301	-1.9055	3.60E-12	1.07E-10	ERBB2	v-erb-b2 av protein_co	17	39687914	39730426	1	q12
ENSG00000162408	-0.9303	-1.9057	1.18E-09	1.97E-08	NOL9	nucleolar p protein_co	1	6521347	6554535	-1	p36.31
ENSG00000121207	-0.9307	-1.9062	0.0018	0.007	LRAT	lecithin ret protein_co	4	1.55E+08	1.55E+08	1	q32.1
ENSG00000161714	-0.9313	-1.9071	5.04E-07	4.68E-06	PLCD3	phospholip protein_co	17	45108967	45133354	-1	q21.31
ENSG00000212864	-0.932	-1.908	0.0031	0.011	RNF208	ring finger protein_co	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000107862	-0.9333	-1.9096	1.56E-11	3.96E-10	GBF1	golgi brefel protein_co	10	1.02E+08	1.02E+08	1	q24.32
ENSG00000184083	-0.9337	-1.9101	2.96E-12	9.00E-11	FAM120C	family with protein_co X		54068324	54183281	-1	p11.22
ENSG00000188021	-0.9347	-1.9114	1.06E-15	7.46E-14	UBQLN2	ubiquilin 2 protein_co X		56563639	56567868	1	p11.21
ENSG00000198934	-0.9346	-1.9114	0.002	0.0076	MAGEE1	melanoma protein_co X		76427724	76431353	1	q13.3
ENSG00000260822	-0.9349	-1.9118	0.0002	0.001	GS1-358P8.4	sense_ovei X		24545516	24550466	1	p22.11
ENSG00000204388	-0.9352	-1.9121	4.06E-06	3.07E-05	HSPA1B	heat shock protein_co	6	31827735	31830255	1	p21.33
ENSG00000114812	-0.9353	-1.9123	4.07E-05	0.0002	VIPR1	vasoactive protein_co	3	42489299	42537573	1	p22.1
ENSG00000143442	-0.9358	-1.9129	1.05E-13	4.55E-12	POGZ	pogo trans protein_co	1	1.51E+08	1.51E+08	-1	q21.3
ENSG00000114554	-0.9372	-1.9148	7.39E-07	6.63E-06	PLXNA1	plexin A1 [: protein_co	3	1.27E+08	1.27E+08	1	q21.3
ENSG00000138411	-0.9373	-1.9149	1.28E-07	1.37E-06	HECW2	HECT, C2 a protein_co	2	1.96E+08	1.97E+08	-1	q32.3
ENSG00000171914	-0.9373	-1.915	1.18E-05	8.08E-05	TLN2	talin 2 [Sou protein_co	15	62390526	62844631	1	q22.2
ENSG00000101213	-0.9375	-1.9151	1.22E-05	8.35E-05	PTK6	protein tyr: protein_co	20	63528001	63537370	-1	q13.33
ENSG00000090020	-0.9387	-1.9168	1.64E-08	2.14E-07	SLC9A1	solute carri protein_co	1	27098815	27166981	-1	p36.11
ENSG00000136205	-0.9388	-1.9169	0.0006	0.0026	TNS3	tensin 3 [Sc protein_co	7	47275154	47582558	-1	p12.3
ENSG00000172943	-0.9392	-1.9174	4.73E-08	5.60E-07	PHF8	PHD finger protein_co X		53936676	54048958	-1	p11.22

ENSG00000066468	-0.9392	-1.9175	1.09E-05	7.53E-05	FGFR2	fibroblast g protein_co	10	1.21E+08	1.22E+08	-1	q26.13
ENSG00000227051	-0.9395	-1.9178	3.34E-05	0.0002	C14orf132	chromoson lincRNA	14	96039324	96094080	1	q32.2
ENSG00000143842	-0.9396	-1.9179	2.08E-08	2.65E-07	SOX13	SRY (sex de protein_co	1	2.04E+08	2.04E+08	1	q32.1
ENSG00000171219	-0.9396	-1.918	9.36E-13	3.29E-11	CDC42BPG	CDC42 binc protein_co	11	64823387	64844569	-1	q13.1
ENSG00000157985	-0.9396	-1.918	5.67E-11	1.29E-09	AGAP1	ArfGAP wit protein_co	2	2.35E+08	2.36E+08	1	q37.2
ENSG00000125834	-0.9397	-1.9181	2.01E-12	6.37E-11	STK35	serine/thre protein_co	20	2101611	2177038	1	p13
ENSG00000177728	-0.9404	-1.9191	4.58E-07	4.30E-06	KIAA0195	KIAA0195 [ protein_co	17	75441159	75500090	1	q25.1
ENSG00000090975	-0.9404	-1.9191	2.72E-05	0.0002	PITPNM2	phosphatic protein_co	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000160299	-0.942	-1.9211	3.59E-13	1.37E-11	PCNT	pericentrin protein_co	21	46324122	46445769	1	q22.3
ENSG00000141510	-0.9419	-1.9211	2.00E-07	2.04E-06	TP53	tumor prot protein_co	17	7661779	7687550	-1	p13.1
ENSG00000237296	-0.9421	-1.9213	0.0018	0.0069	SMG1P1	SMG1 pseu transcribec	16	22437008	22492220	1	p12.2
ENSG00000126003	-0.9422	-1.9215	5.20E-12	1.49E-10	PLAGL2	pleiomorpl protein_co	20	32192503	32207791	-1	q11.21
ENSG00000171056	-0.9423	-1.9216	0.0003	0.0015	SOX7	SRY (sex de protein_co	8	10723768	10730512	-1	p23.1
ENSG00000133226	-0.9434	-1.923	3.83E-12	1.13E-10	SRRM1	serine/argi protein_co	1	24631716	24673267	1	p36.11
ENSG00000111676	-0.9434	-1.9231	2.07E-10	4.18E-09	ATN1	atrophin 1 protein_co	12	6924463	6942321	1	p13.31
ENSG00000148411	-0.9439	-1.9237	5.83E-09	8.50E-08	NACC2	NACC famil protein_co	9	1.36E+08	1.36E+08	-1	q34.3
ENSG00000145949	-0.944	-1.9239	0.0005	0.0024	MYLK4	myosin ligh protein_co	6	2663629	2750966	-1	p25.2
ENSG00000186951	-0.9446	-1.9246	1.58E-08	2.07E-07	PPARA	peroxisomr protein_co	22	46150521	46243756	1	q13.31
ENSG00000185761	-0.9447	-1.9248	0.0014	0.0055	ADAMTSL5	ADAMTS-lil protein_co	19	1505018	1513604	-1	p13.3
ENSG00000157741	-0.9449	-1.925	3.08E-15	1.93E-13	UBN2	ubinuclein protein_co	7	1.39E+08	1.39E+08	1	q34
ENSG00000179593	-0.9452	-1.9254	4.72E-05	0.0003	ALOX15B	arachidona protein_co	17	8039017	8049134	1	p13.1
ENSG00000130158	-0.9457	-1.9262	1.07E-07	1.17E-06	DOCK6	dedicator c protein_co	19	11199295	11262481	-1	p13.2
ENSG00000160294	-0.946	-1.9265	7.47E-14	3.33E-12	MCM3AP	minichrom protein_co	21	46235126	46286297	-1	q22.3
ENSG00000130726	-0.946	-1.9265	2.82E-12	8.61E-11	TRIM28	tripartite r protein_co	19	58544091	58550722	1	q13.43
ENSG00000146950	-0.9461	-1.9266	1.11E-09	1.86E-08	SHROOM2	shroom far protein_co X		9786456	9949443	1	p22.2
ENSG00000167972	-0.9463	-1.9269	0.0036	0.0126	ABCA3	ATP-bindin protein_co	16	2275881	2340746	-1	p13.3
ENSG00000110881	-0.9464	-1.927	0.0065	0.021	ASIC1	acid-sensin protein_co	12	50057548	50083611	1	q13.12
ENSG00000125285	-0.9465	-1.9272	1.45E-05	9.76E-05	SOX21	SRY (sex de protein_co	13	94709622	94712399	-1	q32.1
ENSG00000099331	-0.9477	-1.9288	5.48E-13	1.99E-11	MYO9B	myosin IXB protein_co	19	17075781	17214537	1	p13.11
ENSG00000157617	-0.9482	-1.9295	3.64E-10	6.93E-09	C2CD2	C2 calcium protein_co	21	41885112	41953890	-1	q22.3
ENSG00000259976	-0.9483	-1.9296	0.0015	0.006	RP11-553L6.5	lincRNA	3	1.14E+08	1.14E+08	-1	q13.31
ENSG00000136848	-0.9499	-1.9317	8.85E-09	1.24E-07	DAB2IP	DAB2 inter protein_co	9	1.22E+08	1.22E+08	1	q33.2
ENSG00000111700	-0.9499	-1.9317	0.0072	0.0229	SLCO1B3	solute carri protein_co	12	20810702	20916911	1	p12.2
ENSG00000241973	-0.95	-1.9319	2.48E-12	7.64E-11	PI4KA	phosphatic protein_co	22	20707691	20859417	-1	q11.21
ENSG00000133083	-0.9502	-1.9322	2.99E-08	3.69E-07	DCLK1	doublecort protein_co	13	35768652	36131306	-1	q13.3
ENSG00000173402	-0.9504	-1.9324	3.60E-11	8.51E-10	DAG1	dystroglyca protein_co	3	49468703	49535618	1	p21.31
ENSG00000267350	-0.9504	-1.9324	7.74E-11	1.70E-09	RP1-178F10.3	processed_	17	18324222	18328055	1	p11.2

ENSG00000089902	-0.952	-1.9345	2.58E-20	5.75E-18 RCOR1	REST corep protein_co	14	1.03E+08	1.03E+08	1 q32.31
ENSG00000100154	-0.9522	-1.9348	0.003	0.0108 TTC28	tetratricop protein_co	22	27978014	28679865	-1 q12.1
ENSG00000244513	-0.9523	-1.9349	0.0148	0.0422 CTD-2013N24.2	antisense	3	69013941	69056622	1 p14.1
ENSG00000176208	-0.9535	-1.9365	0.0145	0.0415 ATAD5	ATPase fan protein_co	17	30831970	30895869	1 q11.2
ENSG00000185864	-0.9535	-1.9365	0.0159	0.0446 NPIP84	nuclear por protein_co	16	21834569	21880827	-1 p12.2
ENSG00000111077	-0.9544	-1.9377	2.22E-07	2.24E-06 TENC1	tensin like protein_co	12	53046969	53064372	1 q13.13
ENSG00000168066	-0.9544	-1.9378	2.00E-13	8.16E-12 SF1	splicing fac protein_co	11	64764606	64778786	-1 q13.1
ENSG00000197312	-0.9544	-1.9378	4.54E-12	1.32E-10 DDI2	DNA-dama protein_co	1	15617500	15669044	1 p36.21
ENSG00000182463	-0.9549	-1.9384	0.0002	0.0009 TSHZ2	teashirt zin protein_co	20	52972407	53495330	1 q13.2
ENSG00000138031	-0.9556	-1.9394	9.77E-06	6.83E-05 ADCY3	adenylate (protein_co	2	24819169	24919839	-1 p23.3
ENSG00000048991	-0.9559	-1.9398	2.31E-11	5.69E-10 R3HDM1	R3H domai protein_co	2	1.36E+08	1.36E+08	1 q21.3
ENSG00000158195	-0.9562	-1.9402	2.49E-15	1.58E-13 WASF2	WAS prote protein_co	1	27404226	27490158	-1 p36.11
ENSG00000126243	-0.9563	-1.9403	1.10E-09	1.86E-08 LRFN3	leucine rich protein_co	19	35935358	35945767	1 q13.12
ENSG00000126883	-0.9566	-1.9407	1.51E-12	5.02E-11 NUP214	nucleopori protein_co	9	1.31E+08	1.31E+08	1 q34.13
ENSG00000130479	-0.9568	-1.941	5.67E-06	4.17E-05 MAP1S	microtubul protein_co	19	17719242	17734516	1 p13.11
ENSG00000280120	-0.9573	-1.9416	0.0089	0.0273 RP11-546D6.3	TEC	12	1.23E+08	1.23E+08	-1 q24.31
ENSG00000149658	-0.9581	-1.9428	4.44E-16	3.41E-14 YTHDF1	YTH domai protein_co	20	63195429	63216234	-1 q13.33
ENSG00000159840	-0.9584	-1.9431	2.88E-11	6.94E-10 ZYX	zyxin [Sour protein_co	7	1.43E+08	1.43E+08	1 q34
ENSG00000167632	-0.9586	-1.9434	1.28E-08	1.72E-07 TRAPPC9	trafficking  protein_co	8	1.4E+08	1.4E+08	-1 q24.3
ENSG00000170322	-0.9587	-1.9436	1.20E-11	3.17E-10 NFRKB	nuclear fac protein_co	11	1.3E+08	1.3E+08	-1 q24.3
ENSG00000269990	-0.9593	-1.9444	0.0002	0.0009 CTD-3074O7.12	lincRNA	11	66535898	66537936	-1 q13.2
ENSG00000108950	-0.9602	-1.9456	0.0005	0.0025 FAM20A	family with protein_co	17	68535113	68601389	-1 q24.2
ENSG00000107554	-0.9605	-1.946	2.40E-09	3.76E-08 DNMBP	dynamini bi protein_co	10	99875577	1E+08	-1 q24.2
ENSG00000272335	-0.9609	-1.9465	0.0004	0.0019 RP11-53O19.3	lincRNA	5	44826076	44828592	1 p12
ENSG00000162825	-0.961	-1.9466	0.0008	0.0034 NBPF8	neuroblast protein_co	1	1.45E+08	1.45E+08	-1 q21.1
ENSG00000179051	-0.9612	-1.9469	6.86E-12	1.90E-10 RCC2	regulator o protein_co	1	17406760	17439724	-1 p36.13
ENSG00000242687	-0.9611	-1.9469	0.0065	0.0208 AC004893.11	antisense	7	99013165	99048240	1 q22.1
ENSG00000153721	-0.963	-1.9493	2.28E-08	2.88E-07 CNKSR3	CNKSR fam protein_co	6	1.54E+08	1.55E+08	-1 q25.2
ENSG00000106144	-0.9631	-1.9495	2.31E-12	7.17E-11 CASP2	caspase 2, protein_co	7	1.43E+08	1.43E+08	1 q34
ENSG00000188157	-0.9637	-1.9503	0.0004	0.0017 AGRN	agrin [Sour protein_co	1	1020123	1056118	1 p36.33
ENSG00000198369	-0.9639	-1.9506	5.21E-08	6.08E-07 SPRED2	sprouty-rel protein_co	2	65310851	65432637	-1 p14
ENSG00000007545	-0.964	-1.9507	7.13E-11	1.59E-09 CRAMP1L	Crm, cram1 protein_co	16	1612325	1677908	1 p13.3
ENSG00000220205	-0.9643	-1.9511	4.10E-08	4.93E-07 VAMP2	vesicle-ass protein_co	17	8159149	8163546	-1 p13.1
ENSG00000102858	-0.9645	-1.9514	1.05E-11	2.77E-10 MGRN1	mahogunir protein_co	16	4616493	4690974	1 p13.3
ENSG00000142798	-0.9647	-1.9517	0.0069	0.0219 HSPG2	heparan su protein_co	1	21822245	21937297	-1 p36.12
ENSG00000130254	-0.9648	-1.9519	1.90E-15	1.23E-13 SAFB2	scaffold att protein_co	19	5586999	5624046	-1 p13.3
ENSG00000261068	-0.9662	-1.9537	9.13E-05	0.0005 RP11-7K24.3	lincRNA	6	42092233	42094259	-1 p21.1

ENSG00000196517	-0.9665	-1.954	2.53E-07	2.52E-06	SLC6A9	solute carri protein_co	1	43991500	44031467	-1	p34.1
ENSG00000168056	-0.9666	-1.9542	0.0002	0.001	LTBP3	latent tran: protein_co	11	65538560	65558930	-1	q13.1
ENSG00000069188	-0.967	-1.9548	0.0059	0.0192	SDK2	sidekick cel protein_co	17	73334384	73644089	-1	q25.1
ENSG00000221890	-0.9671	-1.9549	9.52E-08	1.05E-06	NPTXR	neuronal p protein_co	22	38818452	38843982	-1	q13.1
ENSG00000141441	-0.9673	-1.9552	1.30E-16	1.13E-14	GAREM	GRB2 assoc protein_co	18	32124877	32470484	-1	q12.1
ENSG00000156860	-0.968	-1.9561	4.53E-13	1.69E-11	FBRS	fibrosin [Sc protein_co	16	30658431	30670814	1	p11.2
ENSG00000076555	-0.9684	-1.9566	0.0001	0.0007	ACACB	acetyl-CoA protein_co	12	1.09E+08	1.09E+08	1	q24.11
ENSG00000280173	-0.9684	-1.9566	0.0073	0.0232	RP11-447D11.3	TEC	3	47346950	47349073	1	p21.31
ENSG00000160111	-0.9685	-1.9568	3.81E-07	3.64E-06	CPAMD8	C3 and PZP protein_co	19	16892947	17026815	-1	p13.11
ENSG00000198752	-0.9694	-1.958	3.53E-13	1.35E-11	CDC42BPB	CDC42 bin protein_co	14	1.03E+08	1.03E+08	-1	q32.32
ENSG00000075856	-0.9701	-1.9589	3.89E-12	1.14E-10	SART3	squamous protein_co	12	1.09E+08	1.09E+08	-1	q23.3
ENSG00000147144	-0.9704	-1.9594	2.27E-12	7.06E-11	CCDC120	coiled-coil protein_co X		49053572	49069857	1	p11.23
ENSG00000173011	-0.9708	-1.96	1.34E-08	1.78E-07	TADA2B	transcriptic protein_co	4	7041899	7057952	1	p16.1
ENSG00000123411	-0.9711	-1.9604	2.25E-07	2.27E-06	IKZF4	IKAROS fan protein_co	12	56007659	56038435	1	q13.2
ENSG00000114739	-0.972	-1.9615	8.16E-06	5.81E-05	ACVR2B	activin A re protein_co	3	38453851	38493142	1	p22.2
ENSG00000111799	-0.9722	-1.9618	4.84E-05	0.0003	COL12A1	collagen, ty protein_co	6	75084326	75206051	-1	q14.1
ENSG00000182261	-0.9724	-1.9622	0.0155	0.0437	NLRP10	NLR family, protein_co	11	7959424	7965426	-1	p15.4
ENSG00000118707	-0.9728	-1.9626	4.09E-10	7.65E-09	TGIF2	TGFB-induc protein_co	20	36573488	36593950	1	q11.23
ENSG00000008710	-0.9743	-1.9647	2.25E-13	9.05E-12	PKD1	polycystic l protein_co	16	2088710	2135898	-1	p13.3
ENSG00000237424	-0.9754	-1.9662	0.0112	0.0332	FOXD2-AS1	FOXD2 anti antisense	1	47432133	47434641	-1	p33
ENSG00000068650	-0.9755	-1.9663	2.32E-13	9.29E-12	ATP11A	ATPase, cla protein_co	13	1.13E+08	1.13E+08	1	q34
ENSG00000008300	-0.9755	-1.9663	0.0079	0.0248	CELSR3	cadherin, E protein_co	3	48636469	48662915	-1	p21.31
ENSG00000182175	-0.9757	-1.9666	0.0003	0.0015	RGMA	repulsive g protein_co	15	93035273	93089204	-1	q26.1
ENSG00000116016	-0.9764	-1.9675	9.48E-09	1.31E-07	EPAS1	endothelia protein_co	2	46293667	46386703	1	p21
ENSG00000171444	-0.9768	-1.968	2.45E-08	3.06E-07	MCC	mutated in protein_co	5	1.13E+08	1.13E+08	-1	q22.2
ENSG00000187372	-0.9775	-1.9691	0.0007	0.003	PCDHB13	protocadher protein_co	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000275318	-0.9777	-1.9693	0.0116	0.0342	RP11-526D8.11	unprocess	9	92840955	92841688	-1	q22.31
ENSG00000146938	-0.9777	-1.9694	0.0018	0.0071	NLGN4X	neuroligin protein_co X		5840637	6228863	-1	p22.31
ENSG00000263335	-0.978	-1.9698	0.0057	0.0188	AF001548.5	antisense	16	15726674	15732993	1	p13.11
ENSG00000078699	-0.979	-1.9711	1.68E-14	8.87E-13	CBFA2T2	core-bindir protein_co	20	33490075	33650036	1	q11.21
ENSG00000076826	-0.9813	-1.9742	1.48E-14	7.88E-13	CAMSAP3	calmodulin protein_co	19	7595902	7618308	1	p13.2
ENSG00000145819	-0.9814	-1.9743	9.72E-08	1.07E-06	ARHGAP26	Rho GTPas protein_co	5	1.43E+08	1.43E+08	1	q31.3
ENSG00000124942	-0.9814	-1.9744	9.23E-11	2.00E-09	AHNAK	AHNAK nuc protein_co	11	62433542	62556235	-1	q12.3
ENSG00000084112	-0.9814	-1.9744	1.05E-07	1.14E-06	SSH1	slingshot p protein_co	12	1.09E+08	1.09E+08	-1	q24.11
ENSG00000103148	-0.982	-1.9751	2.98E-09	4.59E-08	NPRL3	nitrogen pe protein_co	16	84271	138860	-1	p13.3
ENSG00000142733	-0.9825	-1.9758	4.00E-15	2.39E-13	MAP3K6	mitogen-ac protein_co	1	27355184	27366892	-1	p36.11
ENSG00000072518	-0.9833	-1.9769	6.86E-11	1.53E-09	MARK2	MAP/micrc protein_co	11	63838928	63911019	1	q13.1

ENSG00000088808	-0.9833	-1.977	1.93E-08	2.47E-07	PPP1R13B	protein phosphatase 1 regulatory subunit 13B [protein_coding]	14	1.04E+08	1.04E+08	-1	q32.33
ENSG00000135111	-0.9844	-1.9785	1.35E-05	9.11E-05	TBX3	T-box 3 [Sox protein_coding]	12	1.15E+08	1.15E+08	-1	q24.21
ENSG00000243302	-0.9845	-1.9787	0.0005	0.0023	RP11-274B21.2	processed_transcript	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000105810	-0.9848	-1.9791	1.12E-07	1.21E-06	CDK6	cyclin dependent kinase 6 [protein_coding]	7	92604921	92836594	-1	q21.2
ENSG00000166783	-0.9856	-1.9802	7.14E-11	1.59E-09	KIAA0430	KIAA0430 [protein_coding]	16	15594386	15643166	-1	p13.11
ENSG00000139154	-0.9857	-1.9803	1.07E-15	7.46E-14	AEBP2	AE binding protein 2 [protein_coding]	12	19404045	19720801	1	p12.3
ENSG00000139613	-0.9861	-1.9809	5.75E-12	1.62E-10	SMARCC2	SWI/SNF repressor protein complex subunit 2 [protein_coding]	12	56162983	56189567	-1	q13.2
ENSG00000121039	-0.987	-1.9821	2.21E-08	2.80E-07	RDH10	retinol dehydrogenase 10 [protein_coding]	8	73294612	73325281	1	q21.11
ENSG00000188158	-0.9885	-1.9841	5.57E-12	1.58E-10	NHS	Nance-Horowitz syndrome protein X [protein_coding]	17	17375420	17735994	1	p22.2
ENSG00000187244	-0.9888	-1.9845	8.27E-07	7.34E-06	BCAM	basal cell adhesion molecule 1 [protein_coding]	19	44809059	44821420	1	q13.32
ENSG00000090061	-0.9892	-1.9851	1.24E-11	3.24E-10	CCNK	cyclin K [Sox protein_coding]	14	99481169	99535044	1	q32.2
ENSG00000140829	-0.9904	-1.9868	5.63E-14	2.63E-12	DHX38	DEAH (Asp) box protein 38 [protein_coding]	16	72093562	72112912	1	q22.2
ENSG00000131023	-0.9908	-1.9872	1.41E-18	2.09E-16	LATS1	large tumor suppressor protein 1 [protein_coding]	6	1.5E+08	1.5E+08	-1	q25.1
ENSG00000171634	-0.9912	-1.9878	7.99E-12	2.19E-10	BPTF	bromodomain protein 1 [protein_coding]	17	67825524	67984378	1	q24.2
ENSG00000184349	-0.9916	-1.9884	1.37E-08	1.81E-07	EFNA5	ephrin-A5 [protein_coding]	5	1.07E+08	1.08E+08	-1	q21.3
ENSG00000139645	-0.9927	-1.9899	2.50E-10	4.96E-09	ANKRD52	ankyrin repeat domain protein 52 [protein_coding]	12	56237807	56258391	-1	q13.3
ENSG00000178971	-0.9933	-1.9907	2.10E-09	3.31E-08	CTC1	CTS telomere protein 1 [protein_coding]	17	8226873	8248044	-1	p13.1
ENSG00000024422	-0.9937	-1.9912	4.42E-08	5.27E-07	EHD2	EH-domain protein 2 [protein_coding]	19	47713343	47743134	1	q13.33
ENSG00000105514	-0.9942	-1.9919	1.26E-07	1.35E-06	RAB3D	RAB3D, member of RAB GTPase superfamily [protein_coding]	19	11322046	11346270	-1	p13.2
ENSG00000271020	-0.9946	-1.9925	0.0042	0.0142	RP11-10C24.1	lincRNA	3	33797149	33797681	-1	p22.3
ENSG00000136715	-0.9949	-1.993	4.56E-09	6.76E-08	SAP130	Sin3A-associated protein 130 [protein_coding]	2	1.28E+08	1.28E+08	-1	q14.3
ENSG00000141564	-0.9953	-1.9934	3.35E-14	1.65E-12	RPTOR	regulatory protein 1 [protein_coding]	17	80544819	80966371	1	q25.3
ENSG00000177732	-0.9953	-1.9934	4.65E-05	0.0003	SOX12	SRY (sex determining) region Y-box 12 [protein_coding]	20	325401	330224	1	p13
ENSG00000278948	-0.996	-1.9944	3.01E-07	2.95E-06	RP5-1039K5.12	TEC	22	37943050	37944898	1	q13.1
ENSG00000075568	-0.9963	-1.9949	3.02E-14	1.51E-12	TMEM131	transmembrane protein 131 [protein_coding]	2	97756333	97995891	-1	q11.2
ENSG00000143190	-0.9965	-1.9952	1.80E-12	5.80E-11	POU2F1	POU class 2 transcription factor 1 [protein_coding]	1	1.67E+08	1.67E+08	1	q24.2
ENSG00000162522	-0.9973	-1.9963	6.19E-11	1.40E-09	KIAA1522	KIAA1522 [protein_coding]	1	32741885	32774970	1	p35.1
ENSG00000196576	-0.9979	-1.9971	1.33E-13	5.62E-12	PLXNB2	plexin B2 [protein_coding]	22	50274979	50307627	-1	q13.33
ENSG00000182158	-0.9979	-1.9971	2.60E-10	5.14E-09	CREB3L2	cAMP response element binding protein 3L2 [protein_coding]	7	1.38E+08	1.38E+08	-1	q33
ENSG00000213965	-0.9982	-1.9976	6.84E-17	6.43E-15	NUDT19	nudix (nucleoside diphosphate-linked moiety X) motif 19 [protein_coding]	19	32691961	32713796	1	q13.11
ENSG00000213186	-0.9984	-1.9978	1.03E-05	7.18E-05	TRIM59	tripartite motif protein 59 [protein_coding]	3	1.6E+08	1.6E+08	-1	q25.33
ENSG00000173542	-0.9985	-1.9979	2.57E-14	1.30E-12	MOB1B	MOB kinase 1B [protein_coding]	4	70902326	71022449	1	q13.3
ENSG00000186767	-0.9998	-1.9997	5.36E-13	1.96E-11	SPIN4	spindlin family protein 4 [protein_coding]	19	63347228	63351344	-1	q11.1
ENSG00000011451	-1.0003	-2.0004	1.25E-12	4.23E-11	WIZ	widely interspersed nuclear element 1 [protein_coding]	19	15419980	15449951	-1	p13.12
ENSG00000180900	-1.0003	-2.0004	8.75E-09	1.23E-07	SCRIB	scribbled protein [protein_coding]	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000065989	-1.0008	-2.0011	6.81E-10	1.21E-08	PDE4A	phosphodiesterase 4A [protein_coding]	19	10416773	10469631	1	p13.2
ENSG00000090615	-1.0009	-2.0013	4.33E-13	1.62E-11	GOLGA3	golgin A3 [protein_coding]	12	1.33E+08	1.33E+08	-1	q24.33



ENSG00000179912	-1.0013	-2.0018	3.06E-13	1.19E-11	R3HDM2	R3H domai protein_co	12	57253762	57431005	-1	q13.3
ENSG0000006555	-1.0014	-2.0019	2.11E-10	4.25E-09	TTC22	tetratricop protein_co	1	54779712	54801267	-1	p32.3
ENSG00000163820	-1.0014	-2.002	1.15E-09	1.92E-08	FYCO1	FYVE and c protein_co	3	45917899	45995824	-1	p21.31
ENSG00000075240	-1.0017	-2.0024	2.17E-10	4.35E-09	GRAMD4	GRAM dor protein_co	22	46576012	46679790	1	q13.31
ENSG00000165626	-1.002	-2.0028	2.81E-09	4.36E-08	BEND7	BEN domai protein_co	10	13438484	13528974	-1	p13
ENSG00000053254	-1.0024	-2.0033	8.54E-10	1.47E-08	FOXN3	forkhead b protein_co	14	89124871	89619149	-1	q32.11
ENSG00000119669	-1.0027	-2.0038	8.49E-17	7.88E-15	IRF2BPL	interferon protein_co	14	77024543	77028699	-1	q24.3
ENSG00000268575	-1.003	-2.0041	0.0019	0.0073	RP1-283E3.8	processed_	1	1702736	1737688	-1	p36.33
ENSG00000166716	-1.0031	-2.0043	2.82E-16	2.28E-14	ZNF592	zinc finger protein_co	15	84748635	84806432	1	q25.3
ENSG00000267309	-1.0032	-2.0045	0.0035	0.0124	CTD-2630F21.1	antisense	19	36489649	36491040	1	q13.12
ENSG00000095303	-1.0036	-2.005	0.0005	0.0024	PTGS1	prostaglani protein_co	9	1.22E+08	1.22E+08	1	q33.2
ENSG00000143376	-1.0039	-2.0054	1.14E-13	4.89E-12	SNX27	sorting nex protein_co	1	1.52E+08	1.52E+08	1	q21.3
ENSG00000273576	-1.0048	-2.0066	0.0047	0.0158	RP11-390P24.1	lincRNA	17	39566915	39567559	1	q12
ENSG00000120318	-1.0054	-2.0074	1.25E-08	1.68E-07	ARAP3	ArfGAP wit protein_co	5	1.42E+08	1.42E+08	-1	q31.3
ENSG00000116128	-1.0054	-2.0075	1.42E-09	2.32E-08	BCL9	B-cell CLL/I protein_co	1	1.48E+08	1.48E+08	1	q21.2
ENSG00000144063	-1.0061	-2.0084	9.40E-05	0.0005	MALL	mal, T-cell protein_co	2	1.1E+08	1.1E+08	-1	q13
ENSG00000171603	-1.0064	-2.0089	2.01E-13	8.20E-12	CLSTN1	calsyntenir protein_co	1	9729026	9824526	-1	p36.22
ENSG00000265763	-1.0074	-2.0103	0.0013	0.0053	ZNF488	zinc finger protein_co	10	47365496	47384273	-1	q11.22
ENSG00000266094	-1.0075	-2.0105	1.46E-05	9.80E-05	RASSF5	Ras associa protein_co	1	2.07E+08	2.07E+08	1	q32.1
ENSG00000278768	-1.0076	-2.0106	0.0016	0.0064	BACE1-AS	BACE1 anti antisense	11	1.17E+08	1.17E+08	1	q23.3
ENSG00000166484	-1.0093	-2.0129	7.66E-08	8.65E-07	MAPK7	mitogen-ac protein_co	17	19377721	19383544	1	p11.2
ENSG00000186918	-1.0093	-2.0129	8.92E-08	9.87E-07	ZNF395	zinc finger protein_co	8	28345585	28402701	-1	p21.1
ENSG00000161847	-1.0094	-2.013	7.79E-11	1.71E-09	RAVER1	ribonucleo protein_co	19	10316212	10333640	-1	p13.2
ENSG00000122877	-1.0095	-2.0132	0.0099	0.0299	EGR2	early growi protein_co	10	62811996	62919900	-1	q21.3
ENSG00000141456	-1.0102	-2.0142	9.89E-08	1.08E-06	PELP1	proline, glu protein_co	17	4671385	4704337	-1	p13.2
ENSG00000186174	-1.0104	-2.0144	6.48E-09	9.38E-08	BCL9L	B-cell CLL/I protein_co	11	1.19E+08	1.19E+08	-1	q23.3
ENSG00000197136	-1.0104	-2.0145	3.98E-15	2.39E-13	PCNXL3	pecanex-lik protein_co	11	65615773	65637439	1	q13.1
ENSG00000148053	-1.011	-2.0153	0.0138	0.0397	NTRK2	neurotropl protein_co	9	84668551	85027070	1	q21.33
ENSG00000065970	-1.0119	-2.0166	2.06E-12	6.49E-11	FOXJ2	forkhead b protein_co	12	8032703	8055503	1	p13.31
ENSG00000112294	-1.0123	-2.0171	3.88E-15	2.34E-13	ALDH5A1	aldehyde d protein_co	6	24494852	24537207	1	p22.3
ENSG00000179583	-1.0127	-2.0176	8.31E-10	1.44E-08	CIITA	class II, ma protein_co	16	10877198	10932281	1	p13.13
ENSG00000090006	-1.0128	-2.0178	1.78E-07	1.84E-06	LTBP4	latent tran: protein_co	19	40592883	40629818	1	q13.2
ENSG00000168907	-1.0131	-2.0183	0.0148	0.0422	PLA2G4F	phospholip protein_co	15	42139034	42156636	-1	q15.1
ENSG00000171462	-1.0136	-2.0189	0.0002	0.0012	DLK2	delta-like 2 protein_co	6	43450352	43456632	-1	p21.1
ENSG00000178921	-1.0136	-2.019	7.40E-09	1.06E-07	PFAS	phosphorit protein_co	17	8247618	8270491	1	p13.1
ENSG00000151240	-1.0137	-2.019	3.78E-05	0.0002	DIP2C	DIP2 disco- protein_co	10	274190	689743	-1	p15.3
ENSG00000228223	-1.0139	-2.0194	3.46E-10	6.61E-09	HCG11	HLA compl:lincRNA	6	26523450	26526579	1	p22.2

ENSG00000146072	-1.0139	-2.0194	1.54E-07	1.62E-06 TNFRSF21	tumor necr protein_co	6	47231532	47309905	-1 p12.3
ENSG00000133401	-1.014	-2.0195	3.33E-08	4.09E-07 PDZD2	PDZ domai protein_co	5	31639410	32110931	1 p13.3
ENSG00000271601	-1.014	-2.0195	5.50E-08	6.37E-07 LIX1L	Lix1 homol protein_co	1	1.46E+08	1.46E+08	-1 q21.1
ENSG00000161021	-1.0144	-2.0201	5.90E-14	2.74E-12 MAML1	mastermin protein_co	5	1.8E+08	1.8E+08	1 q35.3
ENSG00000092068	-1.0146	-2.0204	3.51E-05	0.0002 SLC7A8	solute carri protein_co	14	23125295	23183674	-1 q11.2
ENSG00000114933	-1.0151	-2.0211	6.52E-14	2.98E-12 INO80D	INO80 com protein_co	2	2.06E+08	2.06E+08	-1 q33.3
ENSG00000183779	-1.0153	-2.0213	1.76E-15	1.15E-13 ZNF703	zinc finger protein_co	8	37695751	37700021	1 p11.23
ENSG00000197892	-1.0154	-2.0214	4.87E-11	1.12E-09 KIF13B	kinesin far protein_co	8	29067279	29263124	-1 p12
ENSG00000048828	-1.0156	-2.0218	5.47E-18	6.89E-16 FAM120A	family with protein_co	9	93451722	93566107	1 q22.31
ENSG00000112941	-1.0158	-2.0221	8.47E-13	2.99E-11 PAPD7	PAP associ protein_co	5	6714605	6757048	1 p15.31
ENSG00000092421	-1.0164	-2.0228	0.0003	0.0014 SEMA6A	sema domi protein_co	5	1.16E+08	1.17E+08	-1 q23.1
ENSG00000134369	-1.0169	-2.0236	5.52E-12	1.57E-10 NAV1	neuron nav protein_co	1	2.02E+08	2.02E+08	1 q32.1
ENSG00000116962	-1.0169	-2.0236	0.0016	0.0061 NID1	nidogen 1   protein_co	1	2.36E+08	2.36E+08	-1 q42.3
ENSG00000113430	-1.0169	-2.0236	0.0167	0.0465 IRX4	iroquois hc protein_co	5	1877413	1887236	-1 p15.33
ENSG00000138759	-1.0171	-2.0239	1.42E-05	9.55E-05 FRAS1	Fraser extr protein_co	4	78057570	78544269	1 q21.21
ENSG00000280153	-1.0171	-2.0239	0.0047	0.0158 RP11-876N24.3	TEC	16	10933903	10936280	1 p13.13
ENSG00000188807	-1.0183	-2.0256	2.37E-06	1.88E-05 TMEM201	transmemt protein_co	1	9588922	9614873	1 p36.22
ENSG00000106571	-1.0185	-2.0259	1.88E-05	0.0001 GLI3	GLI family ; protein_co	7	41960950	42237870	-1 p14.1
ENSG00000185453	-1.0186	-2.026	8.34E-09	1.17E-07 C19orf68	chromoson protein_co	19	48170692	48197620	1 q13.33
ENSG00000112852	-1.0188	-2.0262	0.0042	0.0142 PCDHB2	protocadhe protein_co	5	1.41E+08	1.41E+08	1 q31.3
ENSG00000101493	-1.0193	-2.027	6.44E-17	6.18E-15 ZNF516	zinc finger protein_co	18	76358190	76495190	-1 q23
ENSG00000197386	-1.0194	-2.027	5.83E-13	2.11E-11 HTT	huntingtin protein_co	4	3074681	3243959	1 p16.3
ENSG00000185551	-1.0195	-2.0272	1.22E-08	1.64E-07 NR2F2	nuclear rec protein_co	15	96325938	96340263	1 q26.2
ENSG00000159082	-1.0196	-2.0273	1.66E-13	6.88E-12 SYNJ1	synaptojan protein_co	21	32628759	32728048	-1 q22.11
ENSG00000197714	-1.0201	-2.0281	2.75E-05	0.0002 ZNF460	zinc finger protein_co	19	57280051	57293569	1 q13.43
ENSG00000108797	-1.0203	-2.0283	8.32E-05	0.0005 CNTNAP1	contactin a protein_co	17	42682613	42699814	1 q21.2
ENSG00000175220	-1.0204	-2.0285	8.67E-10	1.49E-08 ARHGAP1	Rho GTPas protein_co	11	46677080	46700615	-1 p11.2
ENSG00000170004	-1.0207	-2.0289	6.90E-10	1.22E-08 CHD3	chromodor protein_co	17	7884806	7912760	1 p13.1
ENSG00000183741	-1.021	-2.0294	2.80E-10	5.49E-09 CBX6	chromobo protein_co	22	38861450	38872314	-1 q13.1
ENSG00000149260	-1.0217	-2.0303	1.00E-06	8.73E-06 CAPN5	calpain 5 [s protein_co	11	77066932	77126155	1 q13.5
ENSG00000154358	-1.0219	-2.0306	3.49E-09	5.30E-08 OBSCN	obscurin, c protein_co	1	2.28E+08	2.28E+08	1 q42.13
ENSG00000109685	-1.0221	-2.0309	3.37E-07	3.26E-06 WHSC1	Wolf-Hirscl protein_co	4	1871424	1982207	1 p16.3
ENSG00000112624	-1.0223	-2.0311	1.02E-10	2.20E-09 GLTSCR1L	GLTSCR1-lil protein_co	6	42746958	42868560	1 p21.1
ENSG00000116604	-1.0248	-2.0347	3.27E-10	6.31E-09 MEF2D	myocyte er protein_co	1	1.56E+08	1.57E+08	-1 q22
ENSG00000196700	-1.0255	-2.0357	3.58E-10	6.83E-09 ZNF512B	zinc finger protein_co	20	63956702	64048758	-1 q13.33
ENSG00000130816	-1.0257	-2.036	2.78E-13	1.10E-11 DNMT1	DNA (cytos protein_co	19	10133345	10231286	-1 p13.2
ENSG00000101096	-1.026	-2.0364	0.0033	0.0118 NFATC2	nuclear fac protein_co	20	51386957	51562831	-1 q13.2

ENSG00000094916	-1.0261	-2.0366	1.97E-15	1.27E-13 CBX5	chromobox protein_co	12	54230940	54280133	-1 q13.13
ENSG00000132005	-1.0273	-2.0382	2.92E-09	4.52E-08 RFX1	regulatory protein_co	19	13961538	14007039	-1 p13.12
ENSG00000260461	-1.0275	-2.0385	1.57E-05	0.0001 RP11-541N10.3	sense_ov	10	1.04E+08	1.04E+08	-1 q24.33
ENSG00000137642	-1.0276	-2.0387	3.90E-13	1.48E-11 SORL1	sortilin-rel protein_co	11	1.21E+08	1.22E+08	1 q24.1
ENSG00000106346	-1.0279	-2.039	5.58E-11	1.27E-09 USP42	ubiquitin s protein_co	7	6104884	6161564	1 p22.1
ENSG00000135709	-1.0287	-2.0401	2.60E-15	1.64E-13 KIAA0513	KIAA0513 [ protein_co	16	85027751	85094230	1 q24.1
ENSG00000156504	-1.029	-2.0406	1.30E-17	1.47E-15 FAM122B	family with protein_co X		1.35E+08	1.35E+08	-1 q26.3
ENSG00000132846	-1.0296	-2.0414	3.33E-05	0.0002 ZBED3	zinc finger, protein_co	5	77072072	77087323	-1 q13.3
ENSG00000060237	-1.0297	-2.0416	6.05E-18	7.57E-16 WNK1	WNK lysine protein_co	12	752593	911452	1 p13.33
ENSG00000162337	-1.0305	-2.0428	8.11E-12	2.22E-10 LRP5	low density protein_co	11	68312609	68449275	1 q13.2
ENSG00000167716	-1.0314	-2.044	6.41E-10	1.15E-08 WDR81	WD repeat protein_co	17	1716523	1738599	1 p13.3
ENSG00000157933	-1.0317	-2.0445	1.34E-08	1.79E-07 SKI	SKI proto-c protein_co	1	2228695	2310119	1 p36.33
ENSG00000099904	-1.0323	-2.0452	6.93E-08	7.88E-07 ZDHHC8	zinc finger, protein_co	22	20129456	20148007	1 q11.21
ENSG00000126705	-1.0326	-2.0457	2.04E-08	2.60E-07 AHDC1	AT hook, D protein_co	1	27534035	27604431	-1 p35.3
ENSG00000080839	-1.0328	-2.0459	0.0012	0.0048 RBL1	retinoblast protein_co	20	36996349	37095995	-1 q11.23
ENSG00000197121	-1.0335	-2.047	9.63E-17	8.73E-15 PGAP1	post-GPI at protein_co	2	1.97E+08	1.97E+08	-1 q33.1
ENSG00000215790	-1.0338	-2.0473	0.0034	0.0121 SLC35E2	solute carri protein_co	1	1724838	1745992	-1 p36.33
ENSG00000185920	-1.034	-2.0477	3.37E-07	3.26E-06 PTCH1	patched 1   protein_co	9	95442980	95517057	-1 q22.32
ENSG00000160584	-1.0341	-2.0478	4.05E-11	9.49E-10 SIK3	SIK family k protein_co	11	1.17E+08	1.17E+08	-1 q23.3
ENSG00000263142	-1.0346	-2.0486	0.0155	0.0438 LRRC37A17P	leucine rich transcribec	17	46978481	47054569	1 q21.32
ENSG00000101115	-1.0348	-2.0488	0.0074	0.0234 SALL4	spalt-like tr protein_co	20	51784042	51802520	-1 q13.2
ENSG00000166436	-1.0354	-2.0497	1.11E-10	2.38E-09 TRIM66	tripartite r protein_co	11	8612037	8671866	-1 p15.4
ENSG00000074755	-1.0357	-2.0501	1.64E-11	4.13E-10 ZZEF1	zinc finger, protein_co	17	4004445	4143020	-1 p13.2
ENSG00000180357	-1.036	-2.0505	1.25E-12	4.23E-11 ZNF609	zinc finger protein_co	15	64460742	64686068	1 q22.31
ENSG00000258199	-1.0366	-2.0514	0.0003	0.0014 RP11-977G19.5	sense_ov	12	56162359	56190284	-1 q13.2
ENSG00000260837	-1.0372	-2.0522	0.0178	0.0489 RP11-434B12.1	lincRNA	2	8721134	8722686	-1 p25.1
ENSG00000261221	-1.0381	-2.0536	9.91E-10	1.69E-08 ZNF865	zinc finger protein_co	19	55605405	55618539	1 q13.42
ENSG00000120324	-1.0382	-2.0537	0.0004	0.0021 PCDHB10	protocadher protein_co	5	1.41E+08	1.41E+08	1 q31.3
ENSG00000088367	-1.0385	-2.0541	3.16E-10	6.10E-09 EPB41L1	erythrocyt protein_co	20	36091504	36232799	1 q11.23
ENSG00000167470	-1.0388	-2.0546	1.06E-11	2.79E-10 MIDN	midnolin [S protein_co	19	1248553	1259140	1 p13.3
ENSG00000076554	-1.039	-2.0549	7.96E-11	1.74E-09 TPD52	tumor prot protein_co	8	80034868	80231232	-1 q21.13
ENSG00000253598	-1.0397	-2.0558	1.15E-06	9.90E-06 SLC10A5	solute carri protein_co	8	81693607	81696174	-1 q21.13
ENSG00000147862	-1.0397	-2.0559	2.28E-10	4.56E-09 NFIB	nuclear fac protein_co	9	14081843	14398983	-1 p22.3
ENSG00000187605	-1.0402	-2.0565	1.40E-09	2.30E-08 TET3	tet methyl protein_co	2	73986404	74108176	1 p13.1
ENSG00000103197	-1.0405	-2.0569	1.79E-20	4.35E-18 TSC2	tuberous s protein_co	16	2047465	2088720	1 p13.3
ENSG00000060656	-1.0409	-2.0574	3.25E-15	2.01E-13 PTPRU	protein tyr protein_co	1	29236516	29326813	1 p35.3
ENSG00000178814	-1.0409	-2.0574	4.09E-11	9.57E-10 OPLAH	5-oxoprolir protein_co	8	1.44E+08	1.44E+08	-1 q24.3

ENSG00000118689	-1.0413	-2.058	6.43E-26	6.65E-23 FOXO3	forkhead b protein_co	6	1.09E+08	1.09E+08	1 q21
ENSG00000124422	-1.0412	-2.058	6.84E-11	1.53E-09 USP22	ubiquitin s1 protein_co	17	20999593	21043760	-1 p11.2
ENSG00000148840	-1.042	-2.059	1.56E-11	3.97E-10 PPRC1	peroxisome protein_co	10	1.02E+08	1.02E+08	1 q24.32
ENSG00000196313	-1.0421	-2.0593	5.14E-11	1.18E-09 POM121	POM121 tr protein_co	7	72879365	72951440	1 q11.23
ENSG00000234857	-1.0422	-2.0593	0.0053	0.0175 HNRNPUL2-BSCL2	HNRNPUL2 protein_co	11	62690275	62727384	-1 q12.3
ENSG00000224424	-1.0432	-2.0608	0.0033	0.0118 PRKAR2A-AS1	PRKAR2A a antisense	3	48847572	48851981	1 p21.31
ENSG00000260577	-1.0436	-2.0614	0.0105	0.0314 RP11-61512.2	antisense	16	68644248	68646168	-1 q22.1
ENSG00000186260	-1.0446	-2.0628	1.86E-12	5.94E-11 MKL2	MKL/myoc protein_co	16	14071321	14266773	1 p13.12
ENSG00000140577	-1.0466	-2.0657	8.64E-12	2.34E-10 CRTC3	CREB regul protein_co	15	90529925	90645345	1 q26.1
ENSG00000154229	-1.0476	-2.0671	6.42E-09	9.30E-08 PRKCA	protein kin protein_co	17	66302636	66810743	1 q24.2
ENSG00000125386	-1.0484	-2.0682	3.75E-12	1.11E-10 FAM193A	family with protein_co	4	2625261	2732565	1 p16.3
ENSG00000143970	-1.0485	-2.0684	4.46E-19	7.18E-17 ASXL2	additional 1 protein_co	2	25733753	25878516	-1 p23.3
ENSG00000260966	-1.0487	-2.0686	0.0011	0.0046 RP11-690D19.3	sense overl	11	1.03E+08	1.03E+08	-1 q22.3
ENSG00000168175	-1.0495	-2.0698	9.95E-20	1.86E-17 MAPK1IP1L	mitogen-ac protein_co	14	55051631	55070192	1 q22.3
ENSG00000213079	-1.0502	-2.0708	7.48E-14	3.33E-12 SCAF8	SR-related protein_co	6	1.55E+08	1.55E+08	1 q25.2
ENSG00000176533	-1.0519	-2.0733	0.0172	0.0476 GNG7	guanine nu protein_co	19	2511219	2702709	-1 p13.3
ENSG00000060749	-1.0524	-2.074	3.25E-19	5.50E-17 QSER1	glutamine 1 protein_co	11	32893178	32993316	1 p13
ENSG00000188933	-1.0525	-2.0741	0.016	0.0448 USP32P1	ubiquitin s1 transcribec	17	16786489	16804455	1 p11.2
ENSG00000040199	-1.0537	-2.0759	5.78E-07	5.31E-06 PHLPP2	PH domain protein_co	16	71637835	71724701	-1 q22.2
ENSG00000067141	-1.0542	-2.0766	5.31E-11	1.21E-09 NEO1	neogenin 1 protein_co	15	73051710	73305206	1 q24.1
ENSG00000065000	-1.0558	-2.0789	3.40E-13	1.30E-11 AP3D1	adaptor-re protein_co	19	2100988	2164465	-1 p13.3
ENSG00000185650	-1.0559	-2.079	7.93E-13	2.81E-11 ZFP36L1	ZFP36 ring protein_co	14	68787660	68796253	-1 q24.1
ENSG00000165821	-1.0572	-2.0809	1.94E-05	0.0001 SALL2	spalt-like tr protein_co	14	21521081	21537216	-1 q11.2
ENSG00000233024	-1.0572	-2.0809	0.0089	0.0273 NPIPA1	KIAA0220-l protein_co	16	18358086	18379331	-1 p12.3
ENSG00000136485	-1.0574	-2.0811	2.82E-13	1.11E-11 DCAF7	DDB1 and 1 protein_co	17	63550461	63594266	1 q23.3
ENSG00000273230	-1.0574	-2.0812	0.0016	0.0061 RP11-1246C19.1	lincRNA	7	1464497	1467522	-1 p22.3
ENSG00000061337	-1.0577	-2.0816	0.0003	0.0016 LZTS1	leucine zip1 protein_co	8	20246165	20303963	-1 p21.3
ENSG00000079308	-1.059	-2.0835	3.52E-07	3.39E-06 TNS1	tensin 1 [Sc protein_co	2	2.18E+08	2.18E+08	-1 q35
ENSG00000064999	-1.0591	-2.0836	3.80E-16	2.99E-14 ANKS1A	ankyrin re1 protein_co	6	34889265	35091413	1 p21.31
ENSG00000089057	-1.0592	-2.0838	1.71E-08	2.22E-07 SLC23A2	solute carri protein_co	20	4852356	5010293	-1 p13
ENSG00000254343	-1.0606	-2.0858	0.0043	0.0148 RP11-760H22.2	lincRNA	8	1.2E+08	1.2E+08	1 q24.12
ENSG00000197183	-1.0607	-2.086	6.14E-13	2.22E-11 NOL4L	nucleolar p protein_co	20	32443059	32585074	-1 q11.21
ENSG00000132382	-1.0613	-2.0868	7.11E-14	3.20E-12 MYBBP1A	MYB bindir protein_co	17	4538897	4555631	-1 p13.2
ENSG00000088836	-1.0619	-2.0876	1.71E-06	1.41E-05 SLC4A11	solute carri protein_co	20	3227417	3239190	-1 p13
ENSG00000204103	-1.062	-2.0878	0.0007	0.0032 MAFB	v-maf aviar protein_co	20	40685848	40689240	-1 q12
ENSG00000106299	-1.0621	-2.088	1.74E-18	2.50E-16 WASL	Wiskott-Al1 protein_co	7	1.24E+08	1.24E+08	-1 q31.32
ENSG00000197102	-1.0628	-2.089	3.48E-15	2.14E-13 DYNC1H1	dynein, cyt protein_co	14	1.02E+08	1.02E+08	1 q32.31

ENSG00000185432	-1.0631	-2.0895	1.91E-07	1.96E-06	METTL7A	methyltran protein_co	12	50923472	50932517	1	q13.12
ENSG00000092847	-1.0647	-2.0918	2.38E-13	9.50E-12	AGO1	argonaute protein_co	1	35869808	35929610	1	p34.3
ENSG00000180921	-1.0673	-2.0956	4.61E-12	1.33E-10	FAM83H	family with protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000179833	-1.0684	-2.0972	6.85E-06	4.97E-05	SERTAD2	SERTA dom protein_co	2	64631621	64751005	-1	p14
ENSG00000253729	-1.069	-2.098	4.98E-16	3.75E-14	PRKDC	protein kin protein_co	8	47773108	47960183	-1	q11.21
ENSG00000120328	-1.0691	-2.0982	0.0035	0.0123	PCDHB12	protocadherin protein_co	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000070814	-1.0693	-2.0985	2.75E-12	8.41E-11	TCOF1	Treacher C protein_co	5	1.5E+08	1.5E+08	1	q32
ENSG00000198824	-1.0709	-2.1008	1.04E-07	1.14E-06	CHAMP1	chromosom protein_co	13	1.14E+08	1.14E+08	1	q34
ENSG00000125844	-1.0721	-2.1026	9.57E-13	3.34E-11	RRBP1	ribosome b protein_co	20	17613678	17682295	-1	p12.1
ENSG00000022567	-1.0756	-2.1076	4.79E-16	3.65E-14	SLC45A4	solute carri protein_co	8	1.41E+08	1.41E+08	-1	q24.3
ENSG00000175274	-1.0757	-2.1077	9.45E-07	8.29E-06	TP53I11	tumor prot protein_co	11	44885903	44951306	-1	p11.2
ENSG00000153815	-1.0768	-2.1093	2.21E-15	1.41E-13	CMIP	c-Maf indu protein_co	16	81445170	81711762	1	q23.2
ENSG00000054690	-1.0773	-2.1101	5.01E-10	9.19E-09	PLEKHH1	pleckstrin f protein_co	14	67533301	67589612	1	q24.1
ENSG00000275601	-1.0776	-2.1105	0.0167	0.0465	AC011330.13	sense_intr	15	43642389	43643023	-1	q15.3
ENSG00000088247	-1.0795	-2.1133	1.63E-20	4.17E-18	KHSRP	KH-type sp protein_co	19	6413348	6424794	-1	p13.3
ENSG00000096070	-1.0808	-2.1153	1.67E-12	5.42E-11	BRPF3	bromodom protein_co	6	36196744	36232790	1	p21.31
ENSG00000278727	-1.081	-2.1155	0.0093	0.0285	AC000403.4	lincRNA	13	76887551	76891135	1	q22.3
ENSG00000144749	-1.0847	-2.1209	1.29E-09	2.14E-08	LRIG1	leucine-ric protein_co	3	66378797	66501263	-1	p14.1
ENSG00000145012	-1.0858	-2.1226	4.36E-21	1.33E-18	LPP	LIM domai protein_co	3	1.88E+08	1.89E+08	1	q27.3
ENSG00000117523	-1.0895	-2.128	4.98E-16	3.75E-14	PRRC2C	proline-ric protein_co	1	1.71E+08	1.72E+08	1	q24.3
ENSG00000280433	-1.0895	-2.1281	0.0019	0.0071	TMEM1	TMEM1 pr protein_co	21	5155499	5165472	-1	p12
ENSG00000175727	-1.0907	-2.1297	1.08E-15	7.52E-14	MLXIP	MLX intera protein_co	12	1.22E+08	1.22E+08	1	q24.31
ENSG00000259758	-1.0913	-2.1306	1.09E-15	7.60E-14	CASC7	cancer sus lincRNA	8	1.41E+08	1.41E+08	-1	q24.3
ENSG00000168807	-1.0924	-2.1323	5.84E-22	2.43E-19	SNTB2	syntrophin protein_co	16	69187129	69309052	1	q22.1
ENSG00000143850	-1.0931	-2.1334	2.12E-07	2.15E-06	PLEKHA6	pleckstrin f protein_co	1	2.04E+08	2.04E+08	-1	q32.1
ENSG00000164880	-1.0937	-2.1343	2.94E-17	3.04E-15	INTS1	integrator r protein_co	7	1470277	1504367	-1	p22.3
ENSG00000140443	-1.0951	-2.1363	2.41E-11	5.89E-10	IGF1R	insulin-like protein_co	15	98648971	98964530	1	q26.3
ENSG00000261662	-1.0953	-2.1366	0.0076	0.0239	RP5-104218.7	sense_ove	1	1.2E+08	1.2E+08	-1	p12
ENSG00000176641	-1.0958	-2.1373	6.77E-20	1.34E-17	RNF152	ring finger protein_co	18	61808063	61894247	-1	q21.33
ENSG00000162298	-1.096	-2.1377	2.20E-07	2.22E-06	SYVN1	synovial ap protein_co	11	65121780	65134533	-1	q13.1
ENSG00000049246	-1.096	-2.1377	3.72E-07	3.56E-06	PER3	period circ protein_co	1	7784320	7845177	1	p36.23
ENSG00000047644	-1.0967	-2.1386	3.47E-08	4.24E-07	WWC3	WWC fami protein_co X		10015562	10144478	1	p22.2
ENSG00000005007	-1.0969	-2.1389	1.62E-17	1.78E-15	UPF1	UPF1 regul protein_co	19	18831938	18868236	1	p13.11
ENSG00000156304	-1.0976	-2.1399	3.36E-13	1.29E-11	SCAF4	SR-related protein_co	21	31671033	31732075	-1	q22.11
ENSG00000152409	-1.0976	-2.14	1.50E-15	9.96E-14	JMY	junction m protein_co	5	79236189	79327215	1	q14.1
ENSG00000268205	-1.0976	-2.1401	2.24E-06	1.78E-05	CTC-444N24.11	lincRNA	19	57304305	57308562	1	q13.43
ENSG00000146083	-1.0985	-2.1413	5.21E-15	3.07E-13	RNF44	ring finger protein_co	5	1.77E+08	1.77E+08	-1	q35.2



ENSG00000279443	-1.0999	-2.1434	0.0143	0.041 RP4-669K10.8	TEC	1	28544460	28546542	1 p35.3
ENSG00000140332	-1.101	-2.145	2.51E-16	2.05E-14 TLE3	transducin protein_co	15	70047790	70098176	-1 q23
ENSG00000276855	-1.1015	-2.1458	3.44E-06	2.64E-05 CTD-3157E16.2	lincRNA	17	15789016	15789705	1 p12
ENSG00000141622	-1.1019	-2.1463	9.45E-05	0.0005 RNF165	ring finger protein_co	18	46326809	46463140	1 q21.1
ENSG00000183049	-1.1042	-2.1498	5.71E-16	4.25E-14 CAMK1D	calcium/ca protein_co	10	12349482	12835545	1 p13
ENSG00000169871	-1.1042	-2.1498	1.19E-10	2.52E-09 TRIM56	tripartite r protein_co	7	1.01E+08	1.01E+08	1 q22.1
ENSG00000127616	-1.105	-2.1509	6.96E-14	3.14E-12 SMARCA4	SWI/SNF re protein_co	19	10961001	11065395	1 p13.2
ENSG00000259826	-1.1049	-2.1509	0.0156	0.044 RP11-467D6.1	antisense	7	39947522	39949755	-1 p14.1
ENSG00000114867	-1.105	-2.1511	1.77E-12	5.71E-11 EIF4G1	eukaryotic protein_co	3	1.84E+08	1.84E+08	1 q27.1
ENSG00000162430	-1.1054	-2.1516	3.76E-10	7.09E-09 SEPNI	selenoprot protein_co	1	25800176	25818224	1 p36.11
ENSG00000167522	-1.1069	-2.1538	3.22E-14	1.59E-12 ANKRD11	ankyrin re protein_co	16	89267627	89490561	-1 q24.3
ENSG00000169604	-1.1081	-2.1557	6.98E-12	1.93E-10 ANTXR1	anthrax tox protein_co	2	69013178	69249327	1 p13.3
ENSG00000123191	-1.1084	-2.1561	2.38E-08	2.99E-07 ATP7B	ATPase, Cu protein_co	13	51932673	52011494	-1 q14.3
ENSG00000110092	-1.1088	-2.1566	7.69E-07	6.88E-06 CCND1	cyclin D1 [S protein_co	11	69641087	69654474	1 q13.3
ENSG00000175931	-1.109	-2.1569	2.50E-20	5.66E-18 UBE2O	ubiquitin-c protein_co	17	76389451	76453206	-1 q25.1
ENSG00000231925	-1.1109	-2.1598	2.62E-08	3.27E-07 TAPBP	TAP binding protein_co	6	33299694	33314387	-1 p21.32
ENSG00000162738	-1.112	-2.1614	3.99E-09	5.98E-08 VANGL2	VANGL pla protein_co	1	1.6E+08	1.6E+08	1 q23.2
ENSG00000260917	-1.1122	-2.1618	4.58E-08	5.44E-07 RP11-57H14.4	sense_ove	10	1.13E+08	1.13E+08	1 q25.2
ENSG00000159784	-1.1124	-2.162	0.003	0.0107 FAM131B	family with protein_co	7	1.43E+08	1.43E+08	-1 q34
ENSG00000112787	-1.1131	-2.1631	7.28E-10	1.28E-08 FBRSL1	fibrosin-like protein_co	12	1.32E+08	1.33E+08	1 q24.33
ENSG00000139946	-1.1139	-2.1643	4.11E-06	3.11E-05 PELI2	pellino E3 t protein_co	14	56117814	56301526	1 q22.3
ENSG00000158711	-1.1163	-2.1679	6.29E-18	7.72E-16 ELK4	ELK4, ETS-c protein_co	1	2.06E+08	2.06E+08	-1 q32.1
ENSG00000134250	-1.1178	-2.1701	4.18E-11	9.74E-10 NOTCH2	notch 2 [Sc protein_co	1	1.2E+08	1.2E+08	-1 p12
ENSG00000159640	-1.1188	-2.1717	0.0001	0.0006 ACE	angiotensin protein_co	17	63477061	63498380	1 q23.3
ENSG00000169925	-1.1197	-2.1731	1.38E-15	9.27E-14 BRD3	bromodom protein_co	9	1.34E+08	1.34E+08	-1 q34.2
ENSG00000119866	-1.12	-2.1735	3.97E-07	3.77E-06 BCL11A	B-cell CLL/l protein_co	2	60451167	60553567	-1 p16.1
ENSG00000108509	-1.1207	-2.1745	1.59E-16	1.36E-14 CAMTA2	calmodulin protein_co	17	4967992	4987652	-1 p13.2
ENSG00000164976	-1.1207	-2.1746	6.69E-14	3.04E-12 KIAA1161	KIAA1161 [ protein_co	9	34366670	34376853	-1 p13.3
ENSG00000261934	-1.1209	-2.1748	2.83E-05	0.0002 PCDHGA9	protocadher protein_co	5	1.41E+08	1.42E+08	1 q31.3
ENSG00000124813	-1.1221	-2.1766	6.26E-11	1.41E-09 RUNX2	runt-relate protein_co	6	45328157	45664349	1 p21.1
ENSG00000272761	-1.1221	-2.1767	0.0076	0.0238 LINC01279	long interg lincRNA	3	1.13E+08	1.13E+08	-1 q13.2
ENSG00000127507	-1.1226	-2.1774	1.36E-06	1.15E-05 EMR2	egf-like mo protein_co	19	14732393	14778541	-1 p13.12
ENSG00000107731	-1.1257	-2.182	1.33E-07	1.42E-06 UNC5B	unc-5 hom protein_co	10	71212570	71302864	1 q22.1
ENSG00000196535	-1.126	-2.1826	1.10E-12	3.79E-11 MYO18A	myosin XVI protein_co	17	29073517	29180412	-1 q11.2
ENSG00000273295	-1.1266	-2.1834	0.0096	0.0292 AP000350.5	lincRNA	22	23901432	23907068	-1 q11.23
ENSG00000153317	-1.1276	-2.185	4.87E-06	3.62E-05 ASAP1	ArfGAP wit protein_co	8	1.3E+08	1.3E+08	-1 q24.22
ENSG00000198198	-1.1284	-2.1861	2.01E-12	6.37E-11 SZT2	seizure thr protein_co	1	43389882	43452650	1 p34.2

ENSG00000184916	-1.1283	-2.1861	1.29E-07	1.38E-06	JAG2	jagged 2 [S protein_co	14	1.05E+08	1.05E+08	-1 q32.33
ENSG00000137337	-1.1293	-2.1875	6.82E-15	3.97E-13	MDC1	mediator o protein_co	6	30699807	30717889	-1 p21.33
ENSG00000278978	-1.1299	-2.1885	3.63E-05	0.0002	RP11-164P12.5	TEC	4	1.52E+08	1.52E+08	1 q31.3
ENSG00000149503	-1.13	-2.1886	2.94E-09	4.54E-08	INCENP	inner centr protein_co	11	62123973	62153163	1 q12.3
ENSG00000103460	-1.1302	-2.1888	2.48E-07	2.47E-06	TOX3	TOX high r protein_co	16	52438005	52547802	-1 q12.1
ENSG00000148143	-1.1311	-2.1903	1.04E-12	3.60E-11	ZNF462	zinc finger protein_co	9	1.07E+08	1.07E+08	1 q31.2
ENSG00000127946	-1.1319	-2.1914	5.27E-07	4.88E-06	HIP1	huntingtin protein_co	7	75533300	75738962	-1 q11.23
ENSG00000118058	-1.133	-2.1932	1.83E-18	2.58E-16	KMT2A	lysine (K)-s protein_co	11	1.18E+08	1.19E+08	1 q23.3
ENSG00000167491	-1.1331	-2.1933	3.31E-13	1.27E-11	GATAD2A	GATA zinc p protein_co	19	19385826	19508931	1 p13.11
ENSG00000260948	-1.1335	-2.1939	0.0101	0.0304	RP11-552M11.8	sense_ovei	1	1.11E+08	1.11E+08	-1 p13.2
ENSG00000167978	-1.1339	-2.1945	4.12E-21	1.28E-18	SRRM2	serine/argi protein_co	16	2752329	2772538	1 p13.3
ENSG00000164659	-1.1349	-2.196	0.0005	0.0022	KIAA1324L	KIAA1324-l protein_co	7	86876906	87059699	-1 q21.12
ENSG00000168453	-1.1365	-2.1985	0.0009	0.0039	HR	hair growth protein_co	8	22114415	22133384	-1 p21.3
ENSG00000091622	-1.1372	-2.1996	2.42E-06	1.91E-05	PITPNM3	PITPNM fai protein_co	17	6451264	6556494	-1 p13.1
ENSG00000137166	-1.1373	-2.1997	5.21E-14	2.46E-12	FOXP4	forkhead b protein_co	6	41546426	41602384	1 p21.1
ENSG00000122778	-1.1379	-2.2007	2.36E-12	7.30E-11	KIAA1549	KIAA1549 [ protein_co	7	1.39E+08	1.39E+08	-1 q34
ENSG00000105429	-1.1382	-2.2011	1.46E-18	2.14E-16	MEGF8	multiple EC protein_co	19	42325609	42378769	1 q13.2
ENSG00000115568	-1.1392	-2.2026	3.76E-07	3.59E-06	ZNF142	zinc finger protein_co	2	2.19E+08	2.19E+08	-1 q35
ENSG00000084774	-1.142	-2.2068	1.67E-12	5.42E-11	CAD	carbamoyl- protein_co	2	27217390	27243943	1 p23.3
ENSG00000109787	-1.1424	-2.2074	7.33E-21	2.00E-18	KLF3	Kruppel-lik protein_co	4	38664196	38701042	1 p14
ENSG00000154342	-1.1429	-2.2082	0.0111	0.0331	WNT3A	wingless-ty protein_co	1	2.28E+08	2.28E+08	1 q42.13
ENSG00000130939	-1.1435	-2.2092	1.76E-13	7.28E-12	UBE4B	ubiquitinat protein_co	1	10032832	10181239	1 p36.22
ENSG00000131149	-1.1437	-2.2095	2.93E-17	3.04E-15	GSE1	Gse1 coilec protein_co	16	85611409	85676204	1 q24.1
ENSG00000132510	-1.1437	-2.2095	8.44E-10	1.46E-08	KDM6B	lysine (K)-s protein_co	17	7839904	7854796	1 p13.1
ENSG00000186529	-1.1442	-2.2102	0.0012	0.0048	CYP4F3	cytochrom protein_co	19	15615617	15662825	1 p13.12
ENSG00000165655	-1.1451	-2.2116	1.90E-06	1.54E-05	ZNF503	zinc finger protein_co	10	75397830	75401906	-1 q22.2
ENSG00000167378	-1.1458	-2.2126	1.43E-11	3.67E-10	IRGQ	immunity-r protein_co	19	43584369	43596135	-1 q13.31
ENSG00000253910	-1.1458	-2.2127	0.0001	0.0006	PCDHGB2	protocadhe protein_co	5	1.41E+08	1.42E+08	1 q31.3
ENSG00000049618	-1.1466	-2.2139	4.28E-20	9.05E-18	ARID1B	AT rich inte protein_co	6	1.57E+08	1.57E+08	1 q25.3
ENSG00000176387	-1.1477	-2.2156	0.0137	0.0395	HSD11B2	hydroxyste protein_co	16	67430652	67437553	1 q22.1
ENSG00000135540	-1.1477	-2.2157	2.89E-10	5.64E-09	NHSL1	NHS-like 1 protein_co	6	1.38E+08	1.39E+08	-1 q24.1
ENSG00000242265	-1.1504	-2.2198	0.0003	0.0014	PEG10	paternally i protein_co	7	94656325	94669695	1 q21.3
ENSG00000054179	-1.1508	-2.2204	0.0008	0.0034	ENTPD2	ectonucleo protein_co	9	1.37E+08	1.37E+08	-1 q34.3
ENSG00000162733	-1.1508	-2.2204	0.0042	0.0143	DDR2	discoidin d protein_co	1	1.63E+08	1.63E+08	1 q23.3
ENSG00000070444	-1.154	-2.2254	7.93E-14	3.51E-12	MNT	MAX netw protein_co	17	2384060	2401118	-1 p13.3
ENSG00000170684	-1.1544	-2.2258	0.0018	0.0071	ZNF296	zinc finger protein_co	19	45071500	45076588	-1 q13.32
ENSG00000184634	-1.1551	-2.2269	1.15E-18	1.73E-16	MED12	mediator c protein_co X	7	1118556	71142454	1 q13.1

ENSG00000176406	-1.1567	-2.2295	0.0025	0.0092	RIMS2	regulating :protein_co	8	1.04E+08	1.04E+08	1	q22.3
ENSG00000261373	-1.1569	-2.2298	0.0111	0.0331	VPS9D1-AS1	VPS9D1 an antisense	16	89711856	89718165	1	q24.3
ENSG00000130382	-1.1575	-2.2308	7.44E-16	5.36E-14	MLLT1	myeloid/ly protein_co	19	6210379	6279948	-1	p13.3
ENSG00000107331	-1.1584	-2.2321	3.91E-08	4.72E-07	ABCA2	ATP-bindin protein_co	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000261659	-1.1593	-2.2335	3.50E-05	0.0002	LA16c-313D11.12	processed_	16	689001	692554	1	p13.3
ENSG00000108557	-1.1594	-2.2336	5.21E-17	5.09E-15	RAI1	retinoic aci protein_co	17	17681473	17811453	1	p11.2
ENSG00000261150	-1.1606	-2.2356	9.87E-07	8.61E-06	EPPK1	epiplakin 1 protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000075275	-1.1627	-2.2388	4.95E-33	3.24E-29	CELSR1	cadherin, E protein_co	22	46360834	46537170	-1	q13.31
ENSG00000074181	-1.1629	-2.239	2.28E-11	5.64E-10	NOTCH3	notch 3 [Sc protein_co	19	15159038	15200981	-1	p13.12
ENSG00000076108	-1.1629	-2.2391	1.38E-15	9.27E-14	BAZ2A	bromodom protein_co	12	56595596	56636816	-1	q13.3
ENSG00000076201	-1.1634	-2.2399	2.81E-10	5.49E-09	PTPN23	protein tyr protein_co	3	47381011	47413441	1	p21.31
ENSG00000110395	-1.1642	-2.2412	3.00E-13	1.17E-11	CBL	Cbl proto-c protein_co	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000244731	-1.1645	-2.2416	0.0003	0.0014	C4A	complemei protein_co	6	31982024	32002681	1	p21.33
ENSG00000132182	-1.1646	-2.2417	0.0004	0.0018	NUP210	nucleopori protein_co	3	13316235	13420309	-1	p25.1
ENSG00000142197	-1.1653	-2.2427	3.11E-15	1.94E-13	DOPEY2	dopey fami protein_co	21	36156782	36294274	1	q22.12
ENSG00000072310	-1.1692	-2.2488	1.43E-16	1.24E-14	SREBF1	sterol regu protein_co	17	17810399	17837002	-1	p11.2
ENSG00000079432	-1.1724	-2.2539	2.09E-12	6.57E-11	CIC	capicua tra protein_co	19	42268537	42295797	1	q13.2
ENSG00000119042	-1.1728	-2.2544	0.0003	0.0013	SATB2	SATB home protein_co	2	1.99E+08	1.99E+08	-1	q33.1
ENSG00000160796	-1.1754	-2.2586	3.33E-12	1.00E-10	NBEAL2	neurobeaci protein_co	3	46979683	47009703	1	p21.31
ENSG00000181638	-1.1771	-2.2612	2.93E-08	3.62E-07	ZFP41	ZFP41 zinc protein_co	8	1.43E+08	1.43E+08	1	q24.3
ENSG00000127481	-1.1783	-2.2631	1.09E-14	6.10E-13	UBR4	ubiquitin p protein_co	1	19074506	19210276	-1	p36.13
ENSG00000186472	-1.1787	-2.2637	2.07E-16	1.70E-14	PCLO	piccolo pre protein_co	7	82754013	83162930	-1	q21.11
ENSG00000135960	-1.179	-2.2641	0.0035	0.0122	EDAR	ectodyspla protein_co	2	1.09E+08	1.09E+08	-1	q13
ENSG00000120549	-1.1791	-2.2644	6.11E-18	7.60E-16	KIAA1217	KIAA1217 [ protein_co	10	23694746	24547848	1	p12.2
ENSG00000101849	-1.181	-2.2673	4.77E-09	7.03E-08	TBL1X	transducin protein_co X		9463295	9719743	1	p22.31
ENSG00000224389	-1.1817	-2.2685	0.0002	0.0011	C4B	complemei protein_co	6	32014762	32035418	1	p21.33
ENSG00000146648	-1.1833	-2.271	1.02E-16	9.18E-15	EGFR	epidermal i protein_co	7	55019021	55256620	1	p11.2
ENSG00000276529	-1.1847	-2.2732	0.0099	0.0299	AP001505.10	lincRNA	21	44978832	44979274	1	q22.3
ENSG00000154237	-1.1854	-2.2742	7.77E-13	2.76E-11	LRRK1	leucine-ricl protein_co	15	1.01E+08	1.01E+08	1	q26.3
ENSG00000164715	-1.1866	-2.2762	3.63E-15	2.22E-13	LMTK2	lemur tyro: protein_co	7	98106885	98209633	1	q21.3
ENSG00000198720	-1.1868	-2.2765	1.26E-05	8.55E-05	ANKRD13B	ankyrin re; protein_co	17	29589769	29614761	1	q11.2
ENSG00000188167	-1.1873	-2.2773	2.38E-07	2.38E-06	TMPPE	transmemt protein_co	3	33090421	33096801	-1	p22.3
ENSG00000099381	-1.1883	-2.2788	4.97E-15	2.96E-13	SETD1A	SET domair protein_co	16	30957294	30985116	1	p11.2
ENSG00000111961	-1.1899	-2.2814	5.49E-14	2.57E-12	SASH1	SAM and Si protein_co	6	1.48E+08	1.49E+08	1	q24.3
ENSG00000170074	-1.1913	-2.2836	0.0089	0.0274	FAM153A	family with protein_co	5	1.78E+08	1.78E+08	-1	q35.3
ENSG00000100425	-1.1915	-2.2839	5.54E-17	5.34E-15	BRD1	bromodom protein_co	22	49773283	49827512	-1	q13.33
ENSG00000134780	-1.1916	-2.2841	2.68E-17	2.87E-15	DAGLA	diacylglyce protein_co	11	61680433	61747001	1	q12.2

ENSG00000117407	-1.1921	-2.2849	0.0097	0.0295	ARTN	artemin [Sc protein_co	1	43933320	43937241	1	p34.1
ENSG00000183337	-1.1943	-2.2883	1.68E-08	2.18E-07	BCOR	BCL6 corep protein_co X		40049815	40177329	-1	p11.4
ENSG00000154252	-1.1943	-2.2883	0.0177	0.0488	GAL3ST2	galactose- $\beta$ protein_co	2	2.42E+08	2.42E+08	1	q37.3
ENSG00000151208	-1.1946	-2.2888	4.59E-14	2.20E-12	DLG5	discs, large protein_co	10	77790791	77926526	-1	q22.3
ENSG00000273226	-1.1951	-2.2896	0.0013	0.0054	RP11-513M16.8	antisense	9	19375451	19375996	1	p22.1
ENSG00000149639	-1.1965	-2.2918	1.35E-17	1.51E-15	SOGA1	suppressor protein_co	20	36777442	36863686	-1	q11.23
ENSG00000152104	-1.1965	-2.2918	6.21E-16	4.54E-14	PTPN14	protein tyr protein_co	1	2.14E+08	2.15E+08	-1	q41
ENSG00000055609	-1.197	-2.2927	9.59E-17	8.73E-15	KMT2C	lysine (K)-s protein_co	7	1.52E+08	1.52E+08	-1	q36.1
ENSG00000152518	-1.1975	-2.2935	1.63E-15	1.08E-13	ZFP36L2	ZFP36 ring protein_co	2	43222402	43226609	-1	p21
ENSG00000174231	-1.1978	-2.2939	5.33E-16	4.00E-14	PRPF8	pre-mRNA protein_co	17	1650629	1684882	-1	p13.3
ENSG00000179388	-1.1978	-2.2939	4.56E-06	3.41E-05	EGR3	early growth protein_co	8	22687659	22693302	-1	p21.3
ENSG00000239887	-1.1982	-2.2945	2.63E-09	4.10E-08	C1orf226	chromosome protein_co	1	1.62E+08	1.62E+08	1	q23.3
ENSG00000261266	-1.2	-2.2974	0.0074	0.0232	CTD-2196E14.5	antisense	16	23687049	23687689	-1	p12.2
ENSG00000260539	-1.2012	-2.2993	5.25E-11	1.20E-09	GLG1	golgi glycolincRNA	16	74447427	74449892	-1	q23.1
ENSG00000085185	-1.202	-2.3006	1.43E-07	1.52E-06	BCORL1	BCL6 corep protein_co X		1.3E+08	1.3E+08	1	q26.1
ENSG00000162104	-1.2021	-2.3008	5.17E-21	1.49E-18	ADCY9	adenylate c protein_co	16	3953387	4116185	-1	p13.3
ENSG00000243679	-1.2047	-2.3049	4.51E-05	0.0003	RP11-274B21.3	processed_	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000138439	-1.2057	-2.3065	3.03E-09	4.66E-08	FAM117B	family with protein_co	2	2.03E+08	2.03E+08	1	q33.2
ENSG00000268628	-1.2078	-2.3099	0.0095	0.029	RP1-122P22.4	lincRNA	20	19756390	19758037	-1	p11.23
ENSG00000100350	-1.2079	-2.31	1.98E-05	0.0001	FOXRED2	FAD-depend protein_co	22	36487190	36507101	-1	q12.3
ENSG00000187908	-1.2113	-2.3155	0.0007	0.003	DMBT1	deleted in 1 protein_co	10	1.23E+08	1.23E+08	1	q26.13
ENSG00000089692	-1.212	-2.3165	0.0026	0.0097	LAG3	lymphocyte protein_co	12	6772512	6778455	1	p13.31
ENSG00000153094	-1.2122	-2.317	4.53E-11	1.04E-09	BCL2L11	BCL2-like 1 protein_co	2	1.11E+08	1.11E+08	1	q13
ENSG00000072071	-1.2128	-2.3179	9.52E-13	3.33E-11	LPHN1	latrophilin protein_co	19	14147743	14206187	-1	p13.12
ENSG00000115977	-1.2143	-2.3202	1.01E-15	7.12E-14	AAK1	AP2 associ protein_co	2	69457995	69674349	-1	p13.3
ENSG00000076356	-1.2164	-2.3237	5.77E-12	1.62E-10	PLXNA2	plexin A2 [c protein_co	1	2.08E+08	2.08E+08	-1	q32.2
ENSG00000198646	-1.2178	-2.3259	1.61E-16	1.37E-14	NCOA6	nuclear rec protein_co	20	34696918	34825649	-1	q11.22
ENSG00000130338	-1.2185	-2.3271	2.69E-17	2.87E-15	TULP4	tubby like 1 protein_co	6	1.58E+08	1.59E+08	1	q25.3
ENSG00000037280	-1.219	-2.3279	0.0037	0.0129	FLT4	fms-related protein_co	5	1.81E+08	1.81E+08	-1	q35.3
ENSG00000174502	-1.2191	-2.328	0.0088	0.0272	SLC26A9	solute carrier protein_co	1	2.06E+08	2.06E+08	-1	q32.1
ENSG00000110777	-1.2215	-2.3319	1.19E-07	1.28E-06	POU2AF1	POU class 2 protein_co	11	1.11E+08	1.11E+08	-1	q23.1
ENSG00000169248	-1.2222	-2.333	0.0088	0.0272	CXCL11	chemokine protein_co	4	76033682	76041415	-1	q21.1
ENSG00000166987	-1.2222	-2.3331	4.32E-14	2.08E-12	MBD6	methyl-CpG protein_co	12	57520710	57530148	1	q13.3
ENSG00000141540	-1.2238	-2.3355	0.001	0.0044	TTYH2	tweety family protein_co	17	74213514	74262020	1	q25.1
ENSG00000102554	-1.2247	-2.3371	8.97E-10	1.53E-08	KLF5	Kruppel-like protein_co	13	73054976	73077542	1	q22.1
ENSG00000272333	-1.2277	-2.342	1.66E-12	5.41E-11	KMT2B	lysine (K)-s protein_co	19	35718019	35738878	1	q13.12
ENSG00000105997	-1.2278	-2.3422	2.01E-05	0.0001	HOXA3	homeobox protein_co	7	27106184	27152581	-1	p15.2

ENSG00000262758	-1.228	-2.3423	6.49E-09	9.39E-08	CTD-319515.1	lincRNA	17	3806748	3808854	-1	p13.2
ENSG00000143614	-1.2285	-2.3432	5.99E-10	1.08E-08	GATAD2B	GATA zinc finger protein_co	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000274070	-1.2289	-2.3439	2.75E-05	0.0002	GATSL2	GATS prote protein_co	7	74964818	75024798	1	q11.23
ENSG00000169291	-1.2298	-2.3453	0.001	0.0043	SHE	Src homolog protein_co	1	1.54E+08	1.55E+08	-1	q21.3
ENSG00000236565	-1.2318	-2.3485	0.0161	0.0451	HNRNPA3P5	heterogeneous processed_	13	65787932	65788764	-1	q21.32
ENSG00000261799	-1.2319	-2.3488	3.68E-08	4.47E-07	RP11-28313.6	sense overlapped	12	273954	277123	-1	p13.33
ENSG00000197483	-1.233	-2.3506	8.51E-06	6.02E-05	ZNF628	zinc finger protein_co	19	55476332	55484487	1	q13.42
ENSG00000155506	-1.2336	-2.3516	6.14E-22	2.46E-19	LARP1	La ribonucleoprotein_co	5	1.55E+08	1.55E+08	1	q33.2
ENSG00000157613	-1.2346	-2.3532	0.0002	0.0009	CREB3L1	cAMP response protein_co	11	46277661	46321422	1	p11.2
ENSG00000144711	-1.2393	-2.3608	3.55E-17	3.60E-15	IQSEC1	IQ motif anchor protein_co	3	12897220	13073117	-1	p25.2
ENSG00000260793	-1.2426	-2.3663	0.0006	0.0028	RP5-882C2.2	antisense	17	44221401	44223710	1	q21.31
ENSG00000112406	-1.243	-2.3668	2.24E-22	1.00E-19	HECA	headcase homolog protein_co	6	1.39E+08	1.39E+08	1	q24.1
ENSG00000113368	-1.2452	-2.3705	0.0035	0.0124	LMNB1	lamin B1 [S] protein_co	5	1.27E+08	1.27E+08	1	q23.2
ENSG00000107864	-1.247	-2.3735	9.97E-10	1.70E-08	CPEB3	cytoplasmic protein_co	10	92046692	92291087	-1	q23.32
ENSG00000141867	-1.2474	-2.3741	9.81E-31	4.17E-27	BRD4	bromodomain protein_co	19	15235519	15332545	-1	p13.12
ENSG00000184730	-1.2478	-2.3748	0.0038	0.0132	APOBR	apolipoprotein protein_co	16	28494649	28498970	1	p12.1
ENSG00000183454	-1.2482	-2.3755	0.0109	0.0325	GRIN2A	glutamate protein_co	16	9753409	10182754	-1	p13.2
ENSG00000173821	-1.249	-2.3767	1.39E-10	2.92E-09	RNF213	ring finger protein_co	17	80260866	80398786	1	q25.3
ENSG00000085872	-1.2491	-2.377	8.42E-11	1.84E-09	CHERP	calcium homeostasis protein_co	19	16517889	16542530	-1	p13.11
ENSG00000130702	-1.2508	-2.3797	8.42E-12	2.29E-10	LAMA5	laminin, alpha protein_co	20	62307955	62367312	-1	q13.33
ENSG00000165548	-1.2511	-2.3802	3.03E-05	0.0002	TMEM63C	transmembrane protein_co	14	77116568	77259495	1	q24.3
ENSG00000138162	-1.2511	-2.3803	2.45E-07	2.44E-06	TACC2	transformin protein_co	10	1.22E+08	1.22E+08	1	q26.13
ENSG00000105641	-1.2529	-2.3832	0.0001	0.0006	SLC5A5	solute carrier protein_co	19	17871973	17895174	1	p13.11
ENSG00000086758	-1.2535	-2.3842	8.10E-18	9.71E-16	HUWE1	HECT, UBA protein_co X		53532096	53686729	-1	p11.22
ENSG00000196782	-1.2545	-2.3859	3.33E-10	6.40E-09	MAML3	mastermind protein_co	4	1.4E+08	1.4E+08	-1	q31.1
ENSG00000065526	-1.2549	-2.3864	7.14E-14	3.20E-12	SPEN	spen family protein_co	1	15847864	15940460	1	p36.21
ENSG00000103089	-1.2555	-2.3874	0.0054	0.0178	FA2H	fatty acid 2 protein_co	16	74712955	74774831	-1	q23.1
ENSG00000280417	-1.2561	-2.3886	0.0151	0.0428	RP11-5017.1	TEC	3	53046166	53048122	1	p21.1
ENSG00000110400	-1.2577	-2.3912	2.51E-10	4.97E-09	PVRL1	poliovirus receptor protein_co	11	1.2E+08	1.2E+08	-1	q23.3
ENSG00000172493	-1.2582	-2.3919	5.94E-22	2.43E-19	AFF1	AF4/FMR2 protein_co	4	86935002	87141054	1	q21.3
ENSG00000173064	-1.259	-2.3934	4.42E-20	9.19E-18	HECTD4	HECT domain protein_co	12	1.12E+08	1.12E+08	-1	q24.13
ENSG00000105662	-1.2599	-2.3948	8.36E-10	1.45E-08	CRTC1	CREB regulator protein_co	19	18683677	18782333	1	p13.11
ENSG00000273680	-1.261	-2.3966	0.0013	0.0054	RP11-996F15.6	antisense	12	29332733	29333383	-1	p11.22
ENSG00000068024	-1.2637	-2.4011	5.64E-12	1.59E-10	HDAC4	histone deacetylase protein_co	2	2.39E+08	2.39E+08	-1	q37.3
ENSG00000260465	-1.2641	-2.4018	0.0158	0.0445	RP11-63M22.2	antisense	16	66720897	66731785	1	q22.1
ENSG00000196935	-1.2645	-2.4025	3.21E-14	1.59E-12	SRGAP1	SLIT-ROBO protein_co	12	63844293	64162221	1	q14.2
ENSG00000163590	-1.2656	-2.4043	1.40E-23	8.59E-21	PPM1L	protein phosphatase protein_co	3	1.61E+08	1.61E+08	1	q25.33



ENSG00000101144	-1.2656	-2.4043	2.64E-06	2.07E-05	BMP7	bone morp protein_co	20	57168748	57266629	-1	q13.31
ENSG00000130477	-1.2668	-2.4062	0.0136	0.0393	UNC13A	unc-13 hor protein_co	19	17601328	17688365	-1	p13.11
ENSG00000196220	-1.2672	-2.4069	1.02E-19	1.89E-17	SRGAP3	SLIT-ROBO protein_co	3	8980591	9363053	-1	p25.3
ENSG00000132361	-1.268	-2.4082	1.25E-17	1.43E-15	CLUH	clustered n protein_co	17	2689386	2712663	-1	p13.3
ENSG00000280106	-1.2681	-2.4084	0.0154	0.0435	CTC-523E23.3	TEC	19	34949038	34951205	-1	q13.11
ENSG00000256364	-1.2683	-2.4088	0.0087	0.0268	RP11-173P15.3	antisense	12	1.21E+08	1.21E+08	-1	q24.31
ENSG00000119596	-1.269	-2.4099	5.06E-15	2.99E-13	YLPM1	YLP motif c protein_co	14	74763366	74859435	1	q24.3
ENSG00000011347	-1.2698	-2.4113	1.17E-09	1.96E-08	SYT7	synaptotag protein_co	11	61515313	61581148	-1	q12.2
ENSG00000262831	-1.27	-2.4116	0.0103	0.0309	RP11-498C9.2	antisense	17	81843165	81843958	1	q25.3
ENSG00000167880	-1.2708	-2.413	2.95E-07	2.88E-06	EVPL	envoplakin protein_co	17	76004502	76027452	-1	q25.1
ENSG00000099995	-1.271	-2.4133	6.83E-15	3.97E-13	SF3A1	splicing fac protein_co	22	30331988	30356947	-1	q12.2
ENSG00000149656	-1.275	-2.42	0.0135	0.0391	LINC00266-1	long interg lincRNA	20	64290385	64313132	1	q13.33
ENSG00000138131	-1.2755	-2.4209	1.60E-10	3.29E-09	LOXL4	lysyl oxidas protein_co	10	98247690	98268250	-1	q24.2
ENSG00000180336	-1.2766	-2.4226	0.014	0.0402	C17orf104	chromoson protein_co	17	44656404	44690308	1	q21.31
ENSG00000100393	-1.2788	-2.4264	1.26E-17	1.43E-15	EP300	E1A bindin protein_co	22	41091786	41180077	1	q13.2
ENSG00000159216	-1.2793	-2.4273	2.48E-30	6.96E-27	RUNX1	runt-relate protein_co	21	34787801	36004667	-1	q22.12
ENSG00000274414	-1.2813	-2.4305	0.0136	0.0392	RP5-965G21.4	lincRNA	20	25239007	25245229	-1	p11.21
ENSG00000130723	-1.2818	-2.4314	7.66E-18	9.24E-16	PRRC2B	proline-rich protein_co	9	1.31E+08	1.32E+08	1	q34.13
ENSG00000103319	-1.2833	-2.434	1.35E-14	7.30E-13	EEF2K	eukaryotic protein_co	16	22206282	22288732	1	p12.2
ENSG00000092853	-1.2841	-2.4353	0.0134	0.0388	CLSPN	claspin [So protein_co	1	35720218	35769967	-1	p34.3
ENSG00000170549	-1.2846	-2.4362	9.45E-05	0.0005	IRX1	iroquois hc protein_co	5	3596054	3601403	1	p15.33
ENSG00000106991	-1.2869	-2.4401	0.0002	0.0008	ENG	endoglin [S protein_co	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000274272	-1.2875	-2.441	0.0013	0.0053	RP11-44M6.7	processed_	7	1.01E+08	1.01E+08	-1	q22.1
ENSG00000275832	-1.2878	-2.4416	9.78E-13	3.41E-11	ARHGAP23	Rho GTPas protein_co	17	38428418	38512392	1	q12
ENSG00000173898	-1.2885	-2.4427	6.23E-11	1.40E-09	SPTBN2	spectrin, br protein_co	11	66685248	66729226	-1	q13.2
ENSG00000068654	-1.2888	-2.4433	9.27E-17	8.52E-15	POLR1A	polymeras protein_co	2	86020216	86106155	-1	p11.2
ENSG00000225135	-1.294	-2.452	0.0001	0.0006	RP11-361F15.2	lincRNA	6	1.47E+08	1.47E+08	1	q24.3
ENSG00000187764	-1.2943	-2.4527	1.51E-11	3.85E-10	SEMA4D	sema dom protein_co	9	89360787	89498130	-1	q22.2
ENSG00000204624	-1.2958	-2.455	0.0063	0.0204	PTCHD2	patched dc protein_co	1	11479166	11537584	1	p36.22
ENSG00000145362	-1.2993	-2.4612	0.0125	0.0365	ANK2	ankyrin 2, r protein_co	4	1.13E+08	1.13E+08	1	q25
ENSG00000215154	-1.2999	-2.4622	3.18E-06	2.45E-05	AC141586.5	transcribec	16	2603350	2630494	1	p13.3
ENSG00000179979	-1.3016	-2.4651	4.68E-09	6.91E-08	CRIPAK	cysteine-rich protein_co	4	1391552	1395989	1	p16.3
ENSG00000092470	-1.3039	-2.4689	0.0064	0.0207	WDR76	WD repeat protein_co	15	43826963	43868419	1	q15.3
ENSG00000244567	-1.3042	-2.4694	3.28E-05	0.0002	AC096772.6	lincRNA	2	2.08E+08	2.08E+08	-1	q33.3
ENSG00000279133	-1.306	-2.4726	0.013	0.0377	RP11-342K2.1	TEC	17	62003700	62007518	-1	q23.2
ENSG00000146676	-1.3061	-2.4728	4.09E-45	8.04E-41	PURB	purine-rich protein_co	7	44876293	44885361	-1	p13
ENSG00000156030	-1.3064	-2.4732	1.63E-23	8.90E-21	ELMSAN1	ELM2 and l protein_co	14	73715122	73790285	-1	q24.3

ENSG00000236209	-1.3075	-2.4751	0.0128	0.0372 AC104135.2	lincRNA	2	74919555	74924846	-1 p12
ENSG00000124496	-1.3116	-2.4821	1.53E-10	3.17E-09 TRERF1	transcriptic protein_co	6	42224931	42452051	-1 p21.1
ENSG00000168269	-1.3132	-2.4848	0.0003	0.0013 FOXI1	forkhead b protein_co	5	1.7E+08	1.7E+08	1 q35.1
ENSG00000118898	-1.3135	-2.4855	6.72E-11	1.51E-09 PPL	periplakin  protein_co	16	4882507	4960741	-1 p13.3
ENSG00000134569	-1.317	-2.4914	4.76E-05	0.0003 LRP4	low density protein_co	11	46856868	46918642	-1 p11.2
ENSG00000263843	-1.3172	-2.4918	0.0014	0.0056 RP11-649A18.12	antisense	17	75271369	75273895	1 q25.1
ENSG00000103222	-1.3177	-2.4927	2.08E-15	1.34E-13 ABCC1	ATP-bindin protein_co	16	15949577	16143074	1 p13.11
ENSG00000279778	-1.3215	-2.4993	0.0099	0.0299 RP11-60A14.1	TEC	1	87805286	87808372	-1 p22.3
ENSG00000204469	-1.3221	-2.5003	1.95E-19	3.39E-17 PRRC2A	proline-rich protein_co	6	31620720	31637771	1 p21.33
ENSG00000171320	-1.3225	-2.5009	0.0103	0.0311 ESCO2	establishm protein_co	8	27771949	27812640	1 p21.1
ENSG00000130749	-1.3225	-2.501	5.02E-20	1.03E-17 ZC3H4	zinc finger protein_co	19	47064187	47113752	-1 q13.32
ENSG00000153253	-1.3253	-2.5058	0.0077	0.0242 SCN3A	sodium cha protein_co	2	1.65E+08	1.65E+08	-1 q24.3
ENSG00000264343	-1.3255	-2.5061	7.92E-10	1.38E-08 NOTCH2NL	notch 2 N-t protein_co	1	1.46E+08	1.46E+08	-1 q21.1
ENSG00000197859	-1.3261	-2.5072	0.0113	0.0334 ADAMTSL2	ADAMTS-lil protein_co	9	1.34E+08	1.34E+08	1 q34.2
ENSG00000140836	-1.3266	-2.5081	8.74E-14	3.85E-12 ZFH3	zinc finger protein_co	16	72782885	73059698	-1 q22.3
ENSG00000261888	-1.3268	-2.5085	0.0005	0.0023 AC144831.1	lincRNA	17	83104255	83106910	1 q25.3
ENSG00000197077	-1.3281	-2.5108	2.87E-17	3.01E-15 KIAA1671	KIAA1671 [ protein_co	22	24952730	25197448	1 q11.23
ENSG00000110046	-1.3293	-2.5128	3.14E-14	1.56E-12 ATG2A	autophagy protein_co	11	64894546	64917248	-1 q13.1
ENSG00000155846	-1.3334	-2.52	6.69E-08	7.64E-07 PPARGC1B	peroxisom protein_co	5	1.5E+08	1.5E+08	1 q32
ENSG00000279522	-1.3351	-2.523	0.006	0.0194 CTC-487M23.6	TEC	5	1.13E+08	1.13E+08	1 q22.2
ENSG00000275340	-1.3358	-2.5242	0.011	0.0328 FGD5P1	FYVE, RhoC transcribec	3	13933056	13937477	1 p25.1
ENSG00000117707	-1.3379	-2.5278	0.0016	0.0063 PROX1	prospero h protein_co	1	2.14E+08	2.14E+08	1 q32.3
ENSG00000182095	-1.3381	-2.5281	1.50E-19	2.65E-17 TNRC18	trinucleotic protein_co	7	5306790	5425414	-1 p22.1
ENSG00000260336	-1.3392	-2.5301	1.26E-14	6.90E-13 RP11-395B7.7	sense_ovei	7	1.01E+08	1.01E+08	1 q22.1
ENSG00000132326	-1.3408	-2.5329	1.10E-17	1.30E-15 PER2	period circ: protein_co	2	2.38E+08	2.38E+08	-1 q37.3
ENSG00000168477	-1.3412	-2.5336	0.0002	0.0008 TNXB	tenascin XE protein_co	6	32041154	32115334	-1 p21.32
ENSG00000271347	-1.345	-2.5402	0.0104	0.0312 RP11-701H24.7	sense_intrc	15	24991486	24991753	1 q11.2
ENSG00000144712	-1.3457	-2.5415	0.0037	0.0127 CAND2	cullin-asso protein_co	3	12796472	12871916	1 p25.2
ENSG00000179981	-1.3484	-2.5463	1.53E-12	5.04E-11 TSHZ1	teashirt zin protein_co	18	75210755	75289950	1 q22.3
ENSG00000178031	-1.3519	-2.5524	0.0099	0.0299 ADAMTSL1	ADAMTS-lil protein_co	9	18473894	18910950	1 p22.2
ENSG00000244733	-1.3522	-2.553	0.0007	0.0032 RP11-506M13.3	lincRNA	10	79660891	79677996	1 q22.3
ENSG00000262714	-1.3569	-2.5613	0.0002	0.0009 RP11-44F14.8	lincRNA	16	53386944	53389085	1 q12.2
ENSG00000270127	-1.36	-2.5669	0.0005	0.0022 PRKXP1	protein kin lincRNA	15	1.01E+08	1.01E+08	-1 q26.3
ENSG00000185499	-1.3606	-2.5679	6.75E-19	1.04E-16 MUC1	mucin 1, ce protein_co	1	1.55E+08	1.55E+08	-1 q22
ENSG00000158321	-1.3619	-2.5703	1.44E-16	1.24E-14 AUTS2	autism susi protein_co	7	69598919	70793068	1 q11.22
ENSG00000266074	-1.3678	-2.5808	9.60E-15	5.41E-13 BAHCC1	BAH domai protein_co	17	81395475	81466332	1 q25.3
ENSG00000148737	-1.3688	-2.5826	1.22E-11	3.21E-10 TCF7L2	transcriptic protein_co	10	1.13E+08	1.13E+08	1 q25.2

ENSG00000184347	-1.3691	-2.5831	5.39E-05	0.0003	SLIT3	slit homolo protein_co	5	1.69E+08	1.69E+08	-1	q35.1
ENSG00000134443	-1.3692	-2.5832	0.0081	0.0252	GRP	gastrin-rel protein_co	18	59220168	59230774	1	q21.32
ENSG00000063169	-1.3713	-2.587	2.08E-09	3.29E-08	GLTSCR1	glioma tur protein_co	19	47608196	47703277	1	q13.33
ENSG00000152284	-1.3728	-2.5898	6.84E-10	1.21E-08	TCF7L1	transcripti protein_co	2	85133410	85310388	1	p11.2
ENSG00000160223	-1.38	-2.6027	0.0004	0.0017	ICOSLG	inducible T protein_co	21	44222991	44240966	-1	q22.3
ENSG00000196498	-1.3806	-2.6037	7.00E-13	2.50E-11	NCOR2	nuclear rec protein_co	12	1.24E+08	1.25E+08	-1	q24.31
ENSG00000178209	-1.3807	-2.6039	3.69E-16	2.93E-14	PLEC	plectin [So protein_co	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000274561	-1.383	-2.6081	0.0006	0.0026	RP11-147L13.12	lincRNA	17	68131462	68131907	1	q24.2
ENSG00000075673	-1.3834	-2.6088	0.0003	0.0015	ATP12A	ATPase, H+ protein_co	13	24680411	24712493	1	q12.12
ENSG00000140948	-1.3834	-2.6089	5.38E-13	1.96E-11	ZCCHC14	zinc finger, protein_co	16	87406246	87492045	-1	q24.2
ENSG00000122592	-1.3876	-2.6164	0.0002	0.001	HOXA7	homeobox protein_co	7	27153716	27157936	-1	p15.2
ENSG00000126464	-1.3884	-2.6179	1.80E-18	2.56E-16	PRR12	proline rich protein_co	19	49591643	49626439	1	q13.33
ENSG00000186350	-1.3893	-2.6196	1.03E-18	1.57E-16	RXRA	retinoid X r protein_co	9	1.34E+08	1.34E+08	1	q34.2
ENSG00000104885	-1.3977	-2.6348	5.62E-13	2.04E-11	DOT1L	DOT1-like t protein_co	19	2164149	2232578	1	p13.3
ENSG00000124920	-1.4009	-2.6406	8.08E-21	2.18E-18	MYRF	myelin regi protein_co	11	61752642	61788518	1	q12.2
ENSG00000270041	-1.4026	-2.6438	0.0074	0.0234	LL22NC03-N27C7.1	lincRNA	22	23738678	23739289	-1	q11.23
ENSG00000164916	-1.4044	-2.6471	2.03E-16	1.68E-14	FOXK1	forkhead b protein_co	7	4682309	4771443	1	p22.1
ENSG00000162065	-1.407	-2.6518	2.12E-11	5.28E-10	TBC1D24	TBC1 doma protein_co	16	2475146	2505734	1	p13.3
ENSG00000173166	-1.4094	-2.6563	1.55E-30	5.08E-27	RAPH1	Ras associa protein_co	2	2.03E+08	2.04E+08	-1	q33.2
ENSG00000086570	-1.41	-2.6574	1.56E-10	3.23E-09	FAT2	FAT atypica protein_co	5	1.52E+08	1.52E+08	-1	q33.1
ENSG00000207561	-1.4112	-2.6597	0.0047	0.0159	MIR635	microRNA (miRNA	17	68424451	68424548	-1	q24.2
ENSG00000185585	-1.4116	-2.6603	1.13E-11	2.97E-10	OLFML2A	olfactomec protein_co	9	1.25E+08	1.25E+08	1	q33.3
ENSG00000169900	-1.4126	-2.6623	0.0062	0.0201	PYDC1	PYD (pyrin protein_co	16	31215962	31217359	-1	p11.2
ENSG00000171105	-1.4139	-2.6646	2.10E-18	2.91E-16	INSR	insulin rece protein_co	19	7112255	7294034	-1	p13.2
ENSG00000148396	-1.4155	-2.6676	8.40E-20	1.62E-17	SEC16A	SEC16 hom protein_co	9	1.36E+08	1.36E+08	-1	q34.3
ENSG00000105738	-1.4169	-2.6701	2.89E-18	3.79E-16	SIPA1L3	signal-indu protein_co	19	37907228	38208372	1	q13.13
ENSG00000177084	-1.4189	-2.6739	8.53E-14	3.77E-12	POLE	polymeras protein_co	12	1.33E+08	1.33E+08	-1	q24.33
ENSG00000215182	-1.4204	-2.6767	0.0058	0.019	MUC5AC	mucin 5AC, protein_co	11	1157953	1201138	1	p15.5
ENSG00000230177	-1.4222	-2.68	0.0015	0.006	RP5-1112D6.4	antisense	6	1.11E+08	1.11E+08	1	q21
ENSG00000260941	-1.4275	-2.6899	0.0063	0.0203	LINC00622	long interg sense_ove	1	1.2E+08	1.2E+08	-1	p12
ENSG00000112902	-1.4303	-2.6951	1.52E-23	8.81E-21	SEMA5A	sema doma protein_co	5	9035026	9546075	-1	p15.31
ENSG00000123384	-1.4345	-2.7029	1.82E-09	2.90E-08	LRP1	low density protein_co	12	57128493	57213351	1	q13.3
ENSG00000272391	-1.4365	-2.7067	9.98E-22	3.85E-19	POM121C	POM121 tr protein_co	7	75416787	75486271	-1	q11.23
ENSG00000261098	-1.4425	-2.718	0.0015	0.006	RP11-819C21.1	lincRNA	11	1.07E+08	1.07E+08	-1	q22.3
ENSG00000267160	-1.4427	-2.7184	0.0047	0.0158	RP11-1072C15.4	antisense	17	44673689	44676257	-1	q21.31
ENSG00000129167	-1.4437	-2.7202	0.0061	0.0198	TPH1	tryptophan protein_co	11	18017564	18042426	-1	p15.1
ENSG00000142599	-1.4504	-2.7329	3.57E-23	1.80E-20	RERE	arginine-gli protein_co	1	8352397	8817643	-1	p36.23

ENSG00000133056	-1.4525	-2.7369	4.41E-14	2.11E-12	PIK3C2B	phosphatic protein_co	1	2.04E+08	2.04E+08	-1	q32.1
ENSG00000167548	-1.4526	-2.737	1.77E-20	4.35E-18	KMT2D	lysine (K)-s protein_co	12	49018975	49059774	-1	q13.12
ENSG00000008441	-1.457	-2.7455	2.05E-13	8.29E-12	NFIX	nuclear fac protein_co	19	12995608	13098796	1	p13.13
ENSG00000124782	-1.4582	-2.7477	1.06E-30	4.17E-27	RREB1	ras respons protein_co	6	7107597	7251980	1	p24.3
ENSG00000110799	-1.4637	-2.7581	0.0008	0.0034	VWF	von Willebl protein_co	12	5948874	6124770	-1	p13.31
ENSG00000130699	-1.4649	-2.7605	9.24E-20	1.75E-17	TAF4	TAF4 RNA i protein_co	20	61953469	62065810	-1	q13.33
ENSG00000168490	-1.465	-2.7606	1.40E-05	9.40E-05	PHYHIP	phytanoyl-r protein_co	8	22219704	22232341	-1	p21.3
ENSG00000259623	-1.4676	-2.7657	2.06E-12	6.49E-11	RP11-156E6.1	sense_ovei	17	41848518	41851447	-1	q21.2
ENSG00000128731	-1.4711	-2.7723	2.88E-20	6.36E-18	HERC2	HECT and F protein_co	15	28111040	28322152	-1	q13.1
ENSG00000171791	-1.4716	-2.7733	3.24E-11	7.75E-10	BCL2	B-cell CLL/I protein_co	18	63123346	63320128	-1	q21.33
ENSG00000145113	-1.4752	-2.7802	1.13E-16	9.97E-15	MUC4	mucin 4, ce protein_co	3	1.96E+08	1.96E+08	-1	q29
ENSG00000139718	-1.4753	-2.7804	3.59E-16	2.87E-14	SETD1B	SET domair protein_co	12	1.22E+08	1.22E+08	1	q24.31
ENSG00000064393	-1.4765	-2.7827	2.04E-21	7.21E-19	HIPK2	homeodon protein_co	7	1.4E+08	1.4E+08	-1	q34
ENSG00000157388	-1.4766	-2.7829	4.69E-07	4.39E-06	CACNA1D	calcium chi protein_co	3	53494656	53813733	1	p21.1
ENSG00000172534	-1.4768	-2.7832	2.12E-19	3.65E-17	HCFC1	host cell fa protein_co X		1.54E+08	1.54E+08	-1	q28
ENSG00000230882	-1.4781	-2.7858	4.92E-05	0.0003	AC005077.14	processed_	7	76071469	76074963	-1	q11.23
ENSG00000196367	-1.4799	-2.7892	1.37E-20	3.58E-18	TRRAP	transforma protein_co	7	98877933	99013243	1	q22.1
ENSG00000165238	-1.4875	-2.8041	3.85E-09	5.81E-08	WNK2	WNK lysine protein_co	9	93184916	93320572	1	q22.31
ENSG00000117713	-1.4896	-2.8081	6.91E-26	6.79E-23	ARID1A	AT rich inte protein_co	1	26696033	26782104	1	p36.11
ENSG00000279427	-1.495	-2.8186	0.0043	0.0145	RP11-132F7.2	TEC	16	52436772	52437474	-1	q12.1
ENSG00000099308	-1.4962	-2.8209	1.16E-13	4.98E-12	MAST3	microtubul protein_co	19	18097793	18151692	1	p13.11
ENSG00000198929	-1.4999	-2.8283	1.32E-08	1.76E-07	NOS1AP	nitric oxide protein_co	1	1.62E+08	1.62E+08	1	q23.3
ENSG00000110680	-1.5016	-2.8315	0.0041	0.0142	CALCA	calcitonin-r protein_co	11	14966668	14972354	-1	p15.2
ENSG00000074370	-1.5023	-2.8329	0.0005	0.0022	ATP2A3	ATPase, Ca protein_co	17	3923870	3964464	-1	p13.2
ENSG00000271324	-1.503	-2.8343	0.0002	0.0011	RP11-10C24.2	lincRNA	3	33793644	33794145	-1	p22.3
ENSG00000143126	-1.5047	-2.8376	1.17E-12	4.00E-11	CELSR2	cadherin, E protein_co	1	1.09E+08	1.09E+08	1	p13.3
ENSG00000154678	-1.5062	-2.8407	0.0021	0.0078	PDE1C	phosphodi protein_co	7	31751179	32299329	-1	p14.3
ENSG00000175161	-1.5064	-2.8409	0.0011	0.0045	CADM2	cell adhesi protein_co	3	84958981	86074429	1	p12.1
ENSG00000263064	-1.5115	-2.851	0.0041	0.014	RP11-291L22.7	processed_	10	38448689	38448949	1	p11.1
ENSG00000169507	-1.5127	-2.8535	0.0036	0.0125	SLC38A11	solute carri protein_co	2	1.65E+08	1.65E+08	-1	q24.3
ENSG00000078687	-1.5139	-2.8557	2.36E-15	1.51E-13	TNRC6C	trinucleotic protein_co	17	78004168	78108835	1	q25.3
ENSG00000181222	-1.5205	-2.8688	1.44E-17	1.60E-15	POLR2A	polymeras protein_co	17	7484366	7514618	1	p13.1
ENSG00000005339	-1.5245	-2.8769	2.09E-21	7.21E-19	CREBBP	CREB bindi protein_co	16	3725054	3880726	-1	p13.3
ENSG00000127152	-1.5349	-2.8977	4.97E-05	0.0003	BCL11B	B-cell CLL/I protein_co	14	99169287	99271524	-1	q32.2
ENSG00000111206	-1.535	-2.898	0.0022	0.0083	FOXM1	forkhead b protein_co	12	2857681	2877040	-1	p13.33
ENSG00000183495	-1.5353	-2.8985	1.47E-23	8.74E-21	EP400	E1A bindin protein_co	12	1.32E+08	1.32E+08	1	q24.33
ENSG00000264885	-1.5369	-2.9017	4.01E-05	0.0002	RP11-815I9.4	sense_intrc	17	18667629	18669461	-1	p11.2

ENSG00000108175	-1.5404	-2.9087	1.27E-21	4.79E-19	ZMIZ1	zinc finger, protein_co	10	79069035	79316528	1	q22.3
ENSG00000182580	-1.5409	-2.9097	8.27E-08	9.25E-07	EPHB3	EPH recept protein_co	3	1.85E+08	1.85E+08	1	q27.1
ENSG00000183248	-1.542	-2.9119	0.001	0.0043	FLJ22184	putative ur protein_co	19	7868719	7874379	-1	p13.2
ENSG00000055118	-1.552	-2.9321	0.0026	0.0094	KCNH2	potassium protein_co	7	1.51E+08	1.51E+08	-1	q36.1
ENSG00000106852	-1.5554	-2.9391	7.02E-09	1.01E-07	LHX6	LIM homec protein_co	9	1.22E+08	1.22E+08	-1	q33.2
ENSG00000143473	-1.5731	-2.9755	0.0028	0.0101	KCNH1	potassium protein_co	1	2.11E+08	2.11E+08	-1	q32.2
ENSG00000140470	-1.5788	-2.9872	0.0004	0.0021	ADAMTS17	ADAM met protein_co	15	99971589	1E+08	-1	q26.3
ENSG00000197408	-1.5861	-3.0024	0.001	0.0042	CYP2B6	cytochrom protein_co	19	40991299	41018398	1	q13.2
ENSG00000109101	-1.5904	-3.0114	0.0021	0.0079	FOXN1	forkhead b protein_co	17	28506243	28538896	1	q11.2
ENSG00000141905	-1.5981	-3.0275	2.45E-25	2.10E-22	NFIC	nuclear fac protein_co	19	3359563	3469217	1	p13.3
ENSG00000226025	-1.5995	-3.0304	0.001	0.0041	LGALS17A	Charcot-Le transcribec	19	39679374	39686373	1	q13.2
ENSG00000168447	-1.6071	-3.0464	4.84E-06	3.60E-05	SCNN1B	sodium cha protein_co	16	23278231	23381299	1	p12.2
ENSG00000105426	-1.6088	-3.0501	9.81E-16	6.94E-14	PTPRS	protein tyr protein_co	19	5158495	5340803	-1	p13.3
ENSG00000148400	-1.6093	-3.0511	1.06E-13	4.58E-12	NOTCH1	notch 1 [Sc protein_co	9	1.36E+08	1.37E+08	-1	q34.3
ENSG00000112379	-1.6115	-3.0557	5.26E-23	2.59E-20	KIAA1244	KIAA1244 [ protein_co	6	1.38E+08	1.38E+08	1	q23.3
ENSG00000120738	-1.6294	-3.0939	2.60E-18	3.45E-16	EGR1	early growl protein_co	5	1.38E+08	1.38E+08	1	q31.2
ENSG00000139352	-1.6307	-3.0967	0.0018	0.0068	ASCL1	achaete-sc protein_co	12	1.03E+08	1.03E+08	1	q23.2
ENSG00000169710	-1.6321	-3.0996	6.52E-19	1.01E-16	FASN	fatty acid s protein_co	17	82078338	82098332	-1	q25.3
ENSG00000100604	-1.643	-3.1232	0.0014	0.0057	CHGA	chromogra protein_co	14	92923080	92935293	1	q32.12
ENSG00000102854	-1.6519	-3.1424	0.0002	0.0012	MSLN	mesothelin protein_co	16	643262	768865	1	p13.3
ENSG00000186564	-1.6556	-3.1505	2.04E-05	0.0001	FOXD2	forkhead b protein_co	1	47436017	47440691	1	p33
ENSG00000251143	-1.6602	-3.1606	0.0004	0.002	RP11-849H4.4	antisense	11	72014291	72020910	1	q13.4
ENSG00000029534	-1.6898	-3.2262	1.00E-07	1.09E-06	ANK1	ankyrin 1, ε protein_co	8	41653220	41896762	-1	p11.21
ENSG00000198788	-1.6996	-3.248	0.0001	0.0007	MUC2	mucin 2, ol processed_	11	1074875	1110511	1	p15.5
ENSG00000164379	-1.7022	-3.2539	9.05E-12	2.44E-10	FOXQ1	forkhead b protein_co	6	1312473	1314187	1	p25.3
ENSG00000279487	-1.7317	-3.3212	0.001	0.0041	AC234582.1	protein_co	1	1.55E+08	1.55E+08	1	q22
ENSG00000165194	-1.7448	-3.3516	1.17E-08	1.58E-07	PCDH19	protocadhε protein_co X		1E+08	1E+08	-1	q22.1
ENSG00000115112	-1.7481	-3.3592	1.80E-06	1.47E-05	TFCP2L1	transcriptic protein_co	2	1.21E+08	1.21E+08	-1	q14.2
ENSG00000163606	-1.8536	-3.6141	0.0002	0.0009	CD200R1	CD200 rece protein_co	3	1.13E+08	1.13E+08	-1	q13.2
ENSG00000273466	-1.8999	-3.7317	0.0002	0.0008	RP11-548H3.1	antisense	2	2.19E+08	2.19E+08	-1	q35
ENSG00000095539	-1.9357	-3.8257	3.89E-10	7.32E-09	SEMA4G	sema domε protein_co	10	1.01E+08	1.01E+08	1	q24.31
ENSG00000278879	-1.9437	-3.8469	0.0002	0.0009	AP000560.3	TEC	11	74830574	74832510	-1	q13.4
ENSG00000157005	-1.9859	-3.9612	0.0002	0.0008	SST	somatostal protein_co	3	1.88E+08	1.88E+08	-1	q27.3
ENSG00000237975	-1.9973	-3.9926	7.61E-13	2.71E-11	FLG-AS1	FLG antiser antisense	1	1.52E+08	1.52E+08	1	q21.3
ENSG00000078399	-2.1296	-4.3761	2.86E-06	2.23E-05	HOXA9	homeobox protein_co	7	27162435	27175180	-1	p15.2
ENSG00000181143	-2.1664	-4.4891	6.73E-25	5.09E-22	MUC16	mucin 16, ε protein_co	19	8848844	8981342	-1	p13.2
ENSG00000117983	-2.6837	-6.425	1.12E-15	7.74E-14	MUC5B	mucin 5B, ε protein_co	11	1223066	1262172	1	p15.5



ENSG00000275395

-2.8485

-7.2023

1.87E-24

1.36E-21 FCGBP

Fc fragmenprotein\_co

19 39863323 39934626

-1 q13.2

ACCEPTED MANUSCRIPT

Table S3. RNAseq data from HBEC ALI cultures stimulated with IL-4/IL-13 compared to non-stimulated control. (q\_BH: adjusted p-value using Benjamini-Hochberg)

variable	Estimate	FoldChange	RawPvalue	q_BH	Associated Gene Name	Description	Gene	Chromos	Gene	Gene End	Strand	Band
ENSG0000006606	12.7999	7131.1238	1.184E-280	2.255E-276	CCL26	chemokine (C-C motif) ligand 2 protein_cc		7	75769533	75789896	-1	q11.23
ENSG00000198574	8.6297	396.0821	4.332E-139	1.65E-135	SH2D1B	SH2 domain containing 1B [Source:HGNC Symbol] protein_cc		1	1.62E+08	1.62E+08	-1	q23.3
ENSG00000198400	8.1974	293.5462	1.7202E-83	3.276E-80	NTRK1	neurotrophic tyrosine kinase, receptor type 1 protein_cc		1	1.57E+08	1.57E+08	1	q23.1
ENSG00000090512	7.3781	166.3487	1.4204E-81	2.2542E-78	FETUB	fetuin B [Source:HGNC Symbol] protein_cc		3	1.87E+08	1.87E+08	1	q27.3
ENSG00000007171	7.2839	155.8405	3.755E-101	7.9458E-98	NOS2	nitric oxide synthase 2, inducible protein_cc		17	27756766	27800499	-1	q11.2
ENSG00000007129	6.8299	113.7619	3.3433E-50	1.7686E-47	CEACAM21	carcinoembryonic antigen-related protein 21 protein_cc		19	41549518	41586844	1	q13.2
ENSG00000214711	6.8199	112.9817	1.7742E-79	2.4134E-76	CAPN14	calpain 14 [Source:HGNC Symbol] protein_cc		2	31173056	31233858	-1	p23.1
ENSG00000184113	6.7087	104.597	8.7998E-64	6.9826E-61	CLDN5	claudin 5 [Source:HGNC Symbol] protein_cc		22	19523024	19527545	-1	q11.21
ENSG00000131620	6.0506	66.2867	1.499E-196	1.427E-192	ANO1	anoctamin 1, calcium-activated potassium channel subunit 1 protein_cc		11	70078302	70189528	1	q13.3
ENSG00000112195	5.8033	55.8423	9.2665E-41	3.0426E-38	TREML2	triggering receptor expressed on myeloid cells 2 protein_cc		6	41190277	41201194	-1	p21.1
ENSG00000115165	5.6098	48.8343	6.2133E-47	2.9581E-44	CYTIP	cytohesin 1 interacting protein protein_cc		2	1.57E+08	1.57E+08	-1	q24.1
ENSG00000114737	5.5617	47.2334	1.933E-109	5.259E-106	CISH	cytokine inducible SH2-containing protein protein_cc		3	50606490	50611831	-1	p21.2
ENSG00000179914	5.5503	46.8596	5.1165E-33	1.0948E-30	ITLN1	intelectin 1 (galactofuranose binding protein) protein_cc		1	1.61E+08	1.61E+08	-1	q23.3
ENSG00000114248	5.4115	42.5614	9.5326E-41	3.0769E-38	LRRC31	leucine rich repeat containing protein 31 protein_cc		3	1.7E+08	1.7E+08	-1	q26.2
ENSG00000164451	5.4032	42.3181	1.6329E-29	2.6353E-27	FAM26D	family with sequence similarity 26 domain containing protein_cc		6	1.17E+08	1.17E+08	1	q22.1
ENSG00000161905	5.334	40.3353	1.1315E-58	6.9508E-56	ALOX15	arachidonate 15-lipoxygenase protein_cc		17	4630902	4642294	-1	p13.2
ENSG00000118729	5.2759	38.7443	8.1165E-28	1.2366E-25	CASQ2	calcium sequestrin 2 (cardiac muscle) protein_cc		1	1.16E+08	1.16E+08	-1	p13.1
ENSG00000185338	5.1895	36.4928	8.895E-133	2.823E-129	SOCS1	suppressor of cytokine signaling 1 protein_cc		16	11254405	11256179	-1	p13.13
ENSG00000165899	5.1543	35.6119	3.4706E-38	9.7197E-36	OTOGL	otogelin-like [Source:HGNC Symbol] protein_cc		12	80209453	80379090	1	q21.31
ENSG00000186854	5.1061	34.441	2.7177E-75	3.2348E-72	TRABD2A	TraB domain containing 2A [Source:HGNC Symbol] protein_cc		2	84821650	84907008	-1	p11.2
ENSG00000170373	5.0563	33.2738	1.5136E-25	1.988E-23	CST1	cystatin SN [Source:HGNC Symbol] protein_cc		20	23747553	23751268	-1	p11.21
ENSG00000104267	5.0205	32.4579	1.1383E-34	2.6436E-32	CA2	carbonic anhydrase II [Source:HGNC Symbol] protein_cc		8	85463852	85481493	1	q21.2
ENSG00000177300	4.953	30.9748	4.5367E-75	5.0821E-72	CLDN22	claudin 22 [Source:HGNC Symbol] protein_cc		4	1.83E+08	1.83E+08	-1	q35.1
ENSG00000203857	4.87	29.2419	4.5213E-24	5.3815E-22	HSD3B1	hydroxy-delta-5-steroid dehydrogenase 3 beta class I protein_cc		1	1.2E+08	1.2E+08	1	p12
ENSG00000091137	4.8168	28.1834	2.1312E-36	5.2709E-34	SLC26A4	solute carrier family 26 (anion transporters) member 4 protein_cc		7	1.08E+08	1.08E+08	1	q22.3
ENSG00000124215	4.8129	28.1083	4.9104E-60	3.3398E-57	CDH26	cadherin 26 [Source:HGNC Symbol] protein_cc		20	59958427	60034011	1	q13.33
ENSG00000268628	4.6188	24.5689	5.8414E-33	1.236E-30	RP1-122P22.4	lincRNA		20	19756390	19758037	-1	p11.23
ENSG00000197635	4.3602	20.5371	4.9229E-42	1.7882E-39	DPP4	dipeptidyl-peptidase 4 [Source:HGNC Symbol] protein_cc		2	1.62E+08	1.62E+08	-1	q24.2
ENSG00000150551	4.3159	19.916	5.3012E-73	5.3135E-70	LYPD1	LY6/PLAUR domain containing protein 1 protein_cc		2	1.33E+08	1.33E+08	-1	q21.2
ENSG00000242550	4.1808	18.1362	4.1303E-18	3.2369E-16	SERPINB10	serpin peptidase inhibitor, clade B member 10 protein_cc		18	63897174	63936111	1	q21.33
ENSG00000142619	4.0553	16.6252	3.9597E-35	9.3098E-33	PADI3	peptidyl arginine deiminase, type 3 protein_cc		1	17249098	17284233	1	p36.13
ENSG00000233705	4.0081	16.09	7.2167E-31	1.3474E-28	SLC26A4-AS1	SLC26A4 antisense RNA 1 [Source:Ensembl] antisense		7	1.08E+08	1.08E+08	-1	q22.3
ENSG00000138315	3.9863	15.8483	8.0151E-17	5.826E-15	OIT3	oncogene induced transcript 3 protein_cc		10	72893581	72933033	1	q22.1
ENSG00000197632	3.9749	15.7244	2.2347E-83	3.8689E-80	SERPINB2	serpin peptidase inhibitor, clade B member 2 protein_cc		18	63871692	63903890	1	q21.33
ENSG00000184160	3.9658	15.6248	6.6084E-23	7.1914E-21	ADRA2C	adrenoceptor alpha 2C [Source:HGNC Symbol] protein_cc		4	3766348	3768526	1	p16.3
ENSG00000271856	3.9622	15.5862	7.0352E-34	1.595E-31	LINC01215	long intergenic non-protein coding RNA 1215 lincRNA		3	1.08E+08	1.08E+08	1	q13.12
ENSG00000205057	3.9512	15.4683	2.3984E-20	2.228E-18	CLLU1OS	chronic lymphocytic leukemia 1 protein_cc		12	92420094	92428148	-1	q22
ENSG00000227243	3.8384	14.3043	4.1446E-26	5.6379E-24	SLAMF6P1	SLAM family member 6 pseudogene unprocessed protein_cc		1	1.62E+08	1.62E+08	1	q23.3

ENSG00000099994	3.8318	14.2391	3.8211E-31	7.4255E-29	SUSD2	sushi domain containing 2 [Sou protein_cc	22	24181259	24189110	1	q11.23
ENSG00000133110	3.8293	14.2142	6.0724E-24	7.1828E-22	POSTN	periostin, osteoblast specific f2 protein_cc	13	37562583	37598844	-1	q13.3
ENSG00000110799	3.8207	14.1303	2.0037E-26	2.7651E-24	VWF	von Willebrand factor [Source: protein_cc	12	5948874	6124770	-1	p13.31
ENSG00000171303	3.8016	13.944	2.2446E-33	4.9706E-31	KCNK3	potassium channel, subfamily I protein_cc	2	26692690	26733420	1	p23.3
ENSG00000182601	3.7109	13.0948	1.0003E-14	5.9906E-13	HS3ST4	heparan sulfate (glucosamine) protein_cc	16	25692026	26137688	1	p12.1
ENSG00000130222	3.6933	12.9355	4.9152E-30	8.6671E-28	GADD45G	growth arrest and DNA-damag protein_cc	9	89605013	89606555	1	q22.2
ENSG00000170961	3.68	12.8174	7.319E-161	4.646E-157	HAS2	hyaluronan synthase 2 [Source protein_cc	8	1.22E+08	1.22E+08	-1	q24.13
ENSG00000198488	3.6421	12.4849	2.315E-18	1.876E-16	B3GNT6	UDP-GlcNAc:betaGal beta-1,3- protein_cc	11	77034398	77041973	1	q13.5
ENSG00000165125	3.6396	12.4631	7.8933E-23	8.4927E-21	TRPV6	transient receptor potential ca protein_cc	7	1.43E+08	1.43E+08	-1	q34
ENSG00000070985	3.6338	12.4135	7.0924E-14	3.8924E-12	TRPM5	transient receptor potential ca protein_cc	11	2404515	2423045	-1	p15.5
ENSG00000185052	3.6126	12.2322	1.0615E-17	8.0542E-16	SLC24A3	solute carrier family 24 (sodiur protein_cc	20	19212646	19722937	1	p11.23
ENSG00000066230	3.5748	11.9154	7.7694E-21	7.5107E-19	SLC9A3	solute carrier family 9, subfam protein_cc	5	473310	524332	-1	p15.33
ENSG00000174175	3.5424	11.6512	2.9236E-21	2.9151E-19	SELP	selectin P (granule membrane protein_cc	1	1.7E+08	1.7E+08	-1	q24.2
ENSG00000234147	3.539	11.6238	2.9349E-13	1.5025E-11	RP3-460G2.2	lincRNA	6	1.41E+08	1.41E+08	-1	q24.1
ENSG00000188761	3.5299	11.551	1.9055E-47	9.3046E-45	BCL2L15	BCL2-like 15 [Source:HGNC Syr protein_cc	1	1.14E+08	1.14E+08	-1	p13.2
ENSG00000225826	3.5298	11.5498	4.6019E-17	3.3837E-15	LINC00626	long intergenic non-protein co lincRNA	1	1.69E+08	1.69E+08	1	q24.2
ENSG00000206073	3.5271	11.5281	2.3047E-30	4.1019E-28	SERPINB4	serpin peptidase inhibitor, clac protein_cc	18	63637259	63644298	-1	q21.33
ENSG00000123572	3.484	11.1889	8.0961E-13	3.9636E-11	NRK	Nik related kinase [Source:HGt protein_ccX		1.06E+08	1.06E+08	1	q22.3
ENSG00000101000	3.4305	10.7816	1.2446E-47	6.2373E-45	PROCR	protein C receptor, endothelia protein_cc	20	35172073	35177362	1	q11.22
ENSG00000115590	3.4235	10.7296	3.738E-13	1.8882E-11	IL1R2	interleukin 1 receptor, type II [ protein_cc	2	1.02E+08	1.02E+08	1	q11.2
ENSG00000169116	3.3854	10.4497	1.1766E-35	2.8009E-33	PARM1	prostate androgen-regulated n protein_cc	4	74933095	75050115	1	q13.3
ENSG00000124019	3.376	10.3819	3.6113E-12	1.6116E-10	FAM124B	family with sequence similarity protein_cc	2	2.24E+08	2.24E+08	-1	q36.2
ENSG00000111432	3.3587	10.2584	1.6119E-11	6.6977E-10	FZD10	frizzled class receptor 10 [Sour protein_cc	12	1.3E+08	1.3E+08	1	q24.33
ENSG00000105641	3.3155	9.9558	1.113E-27	1.6822E-25	SLC5A5	solute carrier family 5 (sodium protein_cc	19	17871973	17895174	1	p13.11
ENSG00000129521	3.3053	9.8855	1.0584E-21	1.0722E-19	EGLN3	egl-9 family hypoxia-inducible protein_cc	14	33924231	34462774	-1	q13.1
ENSG00000255546	3.2979	9.8349	1.2861E-11	5.4186E-10	RP11-168K9.1	lincRNA	11	1.27E+08	1.27E+08	1	q24.2
ENSG00000100078	3.2976	9.833	8.6821E-18	6.667E-16	PLA2G3	phospholipase A2, group III [Sc protein_cc	22	31134809	31140607	-1	q12.2
ENSG00000198650	3.2964	9.8246	2.8868E-18	2.3295E-16	TAT	tyrosine aminotransferase [Sou protein_cc	16	71565660	71577130	-1	q22.2
ENSG00000138821	3.2705	9.6501	8.2367E-30	1.4131E-27	SLC39A8	solute carrier family 39 (zinc tr protein_cc	4	1.02E+08	1.02E+08	-1	q24
ENSG00000109205	3.2291	9.3765	1.1739E-12	5.5749E-11	ODAM	odontogenic, ameloblast asso protein_cc	4	70196496	70204576	1	q13.3
ENSG00000223784	3.153	8.8951	8.1437E-27	1.1839E-24	RP11-554I8.2	lincRNA	10	6737382	6739026	1	p14
ENSG00000140279	3.1525	8.892	4.9282E-34	1.1308E-31	DUOX2	dual oxidase 2 [Source:HGNC S protein_cc	15	45092650	45114344	-1	q21.1
ENSG00000265451	3.1185	8.6849	2.1117E-19	1.8705E-17	RP11-204L24.2	antisense	2	1.22E+08	1.22E+08	1	q14.2
ENSG00000140274	3.118	8.6816	6.5361E-18	5.0394E-16	DUOXA2	dual oxidase maturation factor protein_cc	15	45114321	45118421	1	q21.1
ENSG00000114279	3.0689	8.3916	2.7814E-15	1.7895E-13	FGF12	fibroblast growth factor 12 [So protein_cc	3	1.92E+08	1.93E+08	-1	q29
ENSG00000123496	3.0465	8.2623	1.4042E-16	1.0016E-14	IL13RA2	interleukin 13 receptor, alpha protein_ccX		1.15E+08	1.15E+08	-1	q23
ENSG00000248144	3.0435	8.2451	7.7482E-15	4.6695E-13	ADH1C	alcohol dehydrogenase 1C (cla protein_cc	4	99336492	99353027	-1	q23
ENSG00000142494	3.0338	8.1899	5.3434E-10	1.8139E-08	SLC47A1	solute carrier family 47 (multic protein_cc	17	19495385	19579034	1	p11.2
ENSG00000120729	2.9719	7.8459	3.7597E-13	1.8942E-11	MYOT	myotilin [Source:HGNC Symbo protein_cc	5	1.38E+08	1.38E+08	1	q31.2
ENSG00000133067	2.9477	7.7152	3.9148E-11	1.55E-09	LGR6	leucine-rich repeat containing protein_cc	1	2.02E+08	2.02E+08	1	q32.1
ENSG00000142224	2.9472	7.7126	1.0169E-12	4.8658E-11	IL19	interleukin 19 [Source:HGNC S protein_cc	1	2.07E+08	2.07E+08	1	q32.1

ENSG00000164309	2.9028	7.4787	2.2064E-49	1.1356E-46	CMYA5	cardiomyopathy associated 5 [ protein_cc	5	79689877	79800240	1	q14.1
ENSG00000182389	2.895	7.4382	1.451E-12	6.8063E-11	CACNB4	calcium channel, voltage-depe protein_cc	2	1.52E+08	1.52E+08	-1	q23.3
ENSG00000196616	2.8741	7.3313	3.9269E-10	1.3499E-08	ADH1B	alcohol dehydrogenase 1B (cla protein_cc	4	99304964	99321442	-1	q23
ENSG00000114948	2.8697	7.3092	1.4644E-09	4.6326E-08	ADAM23	ADAM metalloproteinase domain protein_cc	2	2.06E+08	2.07E+08	1	q33.3
ENSG00000137561	2.8667	7.2937	9.9942E-12	4.2579E-10	TPPA	tocopherol (alpha) transfer prc protein_cc	8	63048553	63086053	-1	q12.3
ENSG00000103888	2.8556	7.2379	1.2201E-11	5.1521E-10	CEMIP	cell migration inducing protein protein_cc	15	80779343	80951776	1	q25.1
ENSG00000165474	2.8345	7.1331	6.7904E-26	9.0432E-24	GJB2	gap junction protein, beta 2, 2) protein_cc	13	20187470	20192898	-1	q12.11
ENSG00000140479	2.8311	7.1162	1.4593E-16	1.0331E-14	PCSK6	proprotein convertase subtilisi protein_cc	15	1.01E+08	1.02E+08	-1	q26.3
ENSG00000271781	2.8289	7.1054	3.6358E-10	1.2543E-08	CTD-2589H19.6	antisense	5	675826	676616	1	p15.33
ENSG00000248015	2.8249	7.0857	3.4446E-10	1.1971E-08	AC005329.7	antisense	19	1392170	1396467	-1	p13.3
ENSG00000205038	2.8208	7.0653	1.052E-08	2.8621E-07	PKHD1L1	polycystic kidney and hepatic c protein_cc	8	1.09E+08	1.1E+08	1	q23.1
ENSG00000186603	2.8162	7.0432	1.5221E-08	4.0599E-07	HPDL	4-hydroxyphenylpyruvate diox protein_cc	1	45326905	45328533	1	p34.1
ENSG00000196549	2.8057	6.9921	7.2898E-12	3.1841E-10	MME	membrane metallo-endopepti protein_cc	3	1.55E+08	1.55E+08	1	q25.2
ENSG00000154153	2.7978	6.9539	2.0286E-52	1.1038E-49	FAM134B	family with sequence similarity protein_cc	5	16473038	16617058	-1	p15.1
ENSG00000138131	2.7962	6.9459	3.8059E-45	1.5421E-42	LOXL4	lysyl oxidase-like 4 [Source:HG protein_cc	10	98247690	98268250	-1	q24.2
ENSG00000203706	2.7901	6.9169	7.6228E-32	1.5122E-29	SERTAD4-AS1	SERTAD4 antisense RNA 1 [Sou antisense	1	2.1E+08	2.1E+08	-1	q32.2
ENSG00000176928	2.7875	6.9041	3.7762E-56	2.2473E-53	GCNT4	glucosaminyl (N-acetyl) transfe protein_cc	5	75025346	75030899	-1	q13.3
ENSG00000127241	2.7799	6.8681	6.9408E-10	2.319E-08	MASP1	mannan-binding lectin serine f protein_cc	3	1.87E+08	1.87E+08	-1	q27.3
ENSG00000136541	2.7778	6.858	4.5669E-09	1.3158E-07	ERMN	ermin, ERM-like protein [Sourc protein_cc	2	1.57E+08	1.57E+08	-1	q24.1
ENSG00000173918	2.7469	6.7129	2.2669E-14	1.3122E-12	C1QTNF1	C1q and tumor necrosis factor protein_cc	17	79022814	79049788	1	q25.3
ENSG00000002587	2.7411	6.6859	5.205E-107	1.239E-103	HS3ST1	heparan sulfate (glucosamine) protein_cc	4	11393150	11429765	-1	p15.33
ENSG00000248050	2.7386	6.6744	1.4602E-09	4.6268E-08	RP11-422N16.3	antisense	8	1.1E+08	1.1E+08	1	q23.2
ENSG00000161640	2.7098	6.5424	2.7193E-08	6.832E-07	SIGLEC11	sialic acid binding Ig-like lectin protein_cc	19	49948985	49961172	-1	q13.33
ENSG00000124664	2.6677	6.3541	2.995E-25	3.8024E-23	SPDEF	SAM pointed domain containir protein_cc	6	34537802	34556333	-1	p21.31
ENSG00000258689	2.6537	6.293	1.2284E-36	3.1613E-34	LINC01269	long intergenic non-protein co lincRNA	14	70698698	70712153	1	q24.2
ENSG00000156689	2.65	6.2768	4.058E-19	3.4811E-17	GLYATL2	glycine-N-acyltransferase-like ; protein_cc	11	58834065	58904215	-1	q12.1
ENSG00000166924	2.633	6.203	1.0214E-10	3.8064E-09	NYAP1	neuronal tyrosine-phosphoryla protein_cc	7	1E+08	1E+08	1	q22.1
ENSG00000100336	2.6219	6.1557	3.0095E-18	2.4081E-16	APOL4	apolipoprotein L, 4 [Source:HG protein_cc	22	36189124	36204840	-1	q12.3
ENSG00000151490	2.6122	6.1146	2.8683E-08	7.1686E-07	PTPRO	protein tyrosine phosphatase, protein_cc	12	15322397	15597399	1	p12.3
ENSG00000279970	2.6028	6.0746	4.2783E-08	1.0419E-06	RP11-299G20.5	TEC	15	1.01E+08	1.01E+08	-1	q26.3
ENSG00000124143	2.6014	6.0686	1.5261E-13	8.0953E-12	ARHGAP40	Rho GTPase activating protein protein_cc	20	38601934	38651035	1	q11.23
ENSG00000164038	2.5905	6.023	5.2668E-26	7.0635E-24	SLC9B2	solute carrier family 9, subfam protein_cc	4	1.03E+08	1.03E+08	-1	q24
ENSG00000196711	2.564	5.9133	2.0218E-19	1.8077E-17	FAM150A	family with sequence similarity protein_cc	8	52534037	52565507	-1	q11.23
ENSG00000228221	2.5469	5.8437	3.4469E-09	1.013E-07	LINC00578	long intergenic non-protein co lincRNA	3	1.77E+08	1.78E+08	1	q26.32
ENSG00000120658	2.5151	5.7164	9.7322E-18	7.4136E-16	ENOX1	ecto-NOX disulfide-thiol excha protein_cc	13	43213518	43786908	-1	q14.11
ENSG00000153822	2.5136	5.7105	3.6015E-07	7.4551E-06	KCNJ16	potassium inwardly-rectifying i protein_cc	17	70053429	70135608	1	q24.3
ENSG00000165685	2.5026	5.6669	2.18E-08	5.5849E-07	TMEM52B	transmembrane protein 52B [S protein_cc	12	10170542	10191801	1	p13.2
ENSG00000178882	2.4988	5.6521	4.4862E-11	1.7652E-09	FAM101A	family with sequence similarity protein_cc	12	1.24E+08	1.24E+08	1	q24.31
ENSG00000168621	2.4974	5.6467	2.1704E-07	4.7129E-06	GDNF	glial cell derived neurotrophic protein_cc	5	37812677	37839686	-1	p13.2
ENSG00000139304	2.4873	5.6072	3.6354E-16	2.5084E-14	PTPRQ	protein tyrosine phosphatase, protein_cc	12	80402178	80680234	1	q21.31
ENSG00000166348	2.4783	5.5722	6.8858E-68	5.7015E-65	USP54	ubiquitin specific peptidase 54 protein_cc	10	73497538	73625953	-1	q22.2

ENSG00000119121	2.4559	5.4865	2.6722E-14	1.5374E-12	TRPM6	transient receptor potential ca protein_cc	9	74722495	74888094	-1	q21.13
ENSG00000044524	2.449	5.4603	4.1759E-07	8.542E-06	EPHA3	EPH receptor A3 [Source:HGNC protein_cc	3	89107524	89482134	1	p11.1
ENSG00000159763	2.4257	5.373	4.9054E-23	5.4313E-21	PIP	prolactin-induced protein [Sou protein_cc	7	1.43E+08	1.43E+08	1	q34
ENSG00000225138	2.4236	5.365	2.2335E-37	6.0764E-35	CTD-2228K2.7	processed_	5	473236	480884	1	p15.33
ENSG00000230928	2.423	5.363	1.024E-06	1.9111E-05	RP11-34A14.3	antisense	10	98252023	98256575	1	q24.2
ENSG00000120217	2.4144	5.3309	2.3239E-17	1.7424E-15	CD274	CD274 molecule [Source:HGNC protein_cc	9	5450503	5470566	1	p24.1
ENSG00000086205	2.3824	5.214	8.2555E-12	3.5489E-10	FOLH1	folate hydrolase (prostate-spei protein_cc	11	49146635	49208670	-1	p11.12
ENSG00000148488	2.3738	5.1831	1.8959E-09	5.8439E-08	ST8SIA6	ST8 alpha-N-acetyl-neuraminic protein_cc	10	17318383	17454330	-1	p12.33
ENSG00000159339	2.3609	5.1368	1.1867E-06	2.1751E-05	PADI4	peptidyl arginine deiminase, ty protein_cc	1	17308195	17364004	1	p36.13
ENSG00000137563	2.3558	5.1189	1.2314E-39	3.7224E-37	GGH	gamma-glutamyl hydrolase (cc protein_cc	8	63015079	63039171	-1	q12.3
ENSG00000164849	2.3552	5.1165	2.0399E-11	8.3906E-10	GRP146	G protein-coupled receptor 14 protein_cc	7	1044576	1059261	1	p22.3
ENSG00000232110	2.3437	5.076	4.1322E-07	8.4709E-06	RP11-149I23.3	antisense	10	89283765	89292125	1	q23.31
ENSG00000138135	2.3427	5.0724	1.5478E-12	7.2071E-11	CH25H	cholesterol 25-hydroxylase [So protein_cc	10	89205629	89207314	-1	q23.31
ENSG00000145934	2.3391	5.0598	7.3067E-25	8.9773E-23	TENM2	teneurin transmembrane prot protein_cc	5	1.67E+08	1.68E+08	1	q34
ENSG00000113361	2.3318	5.0345	1.5745E-11	6.5612E-10	CDH6	cadherin 6, type 2, K-cadherin protein_cc	5	31193750	31329146	1	p13.3
ENSG00000050730	2.3219	4.9998	1.1972E-10	4.4131E-09	TNIP3	TNFAIP3 interacting protein 3   protein_cc	4	1.21E+08	1.21E+08	-1	q27
ENSG00000169562	2.3176	4.9851	2.8941E-14	1.6551E-12	GJB1	gap junction protein, beta 1, 3. protein_ccX		71215194	71225516	1	q13.1
ENSG00000109861	2.3149	4.9758	1.9672E-37	5.4294E-35	CTSC	cathepsin C [Source:HGNC Syn protein_cc	11	88293592	88337787	-1	q14.2
ENSG00000128045	2.2883	4.8847	9.5236E-09	2.6285E-07	RASL11B	RAS-like, family 11, member B protein_cc	4	52862290	52866835	1	q12
ENSG00000189221	2.2871	4.8808	5.1226E-43	1.9909E-40	MAOA	monoamine oxidase A [Source protein_ccX		43654907	43746824	1	p11.3
ENSG00000122591	2.2824	4.8648	3.5805E-32	7.2539E-30	FAM126A	family with sequence similarity protein_cc	7	22889371	23014130	-1	p15.3
ENSG00000059377	2.2808	4.8595	6.028E-15	3.6794E-13	TBXAS1	thromboxane A synthase 1 (pl; protein_cc	7	1.4E+08	1.4E+08	1	q34
ENSG00000103942	2.2573	4.7809	8.191E-155	3.9E-151	HOMER2	homer homolog 2 (Drosophila) protein_cc	15	82836946	82986153	-1	q25.2
ENSG00000272931	2.2495	4.7551	7.1606E-07	1.3802E-05	RP5-94J3.2	lincRNA	1	89820174	89820868	-1	p22.2
ENSG00000152154	2.2476	4.7488	3.6706E-09	1.0754E-07	TMEM178A	transmembrane protein 178A protein_cc	2	39664982	39717963	1	p22.1
ENSG00000132205	2.246	4.7436	2.7178E-10	9.567E-09	EMILIN2	elastin microfibril interfacer 2   protein_cc	18	2847030	2915993	1	p11.32
ENSG00000197646	2.2303	4.6922	2.6508E-10	9.3986E-09	PDCD1LG2	programmed cell death 1 ligan protein_cc	9	5510570	5571254	1	p24.1
ENSG00000172575	2.2208	4.6615	7.5777E-15	4.5958E-13	RASGRP1	RAS guanyl releasing protein 1 protein_cc	15	38488103	38565575	-1	q14
ENSG00000164120	2.2187	4.6546	2.5272E-19	2.2077E-17	HPGD	hydroxyprostaglandin dehydro protein_cc	4	1.74E+08	1.75E+08	-1	q34.1
ENSG00000261040	2.216	4.6462	1.4042E-27	2.0893E-25	WFDC21P	WAP four-disulfide core domai processed_	17	60083566	60091885	-1	q23.1
ENSG00000197415	2.2147	4.6418	6.3651E-20	5.7999E-18	VEPH1	ventricular zone expressed PH protein_cc	3	1.57E+08	1.58E+08	-1	q25.32
ENSG00000274114	2.2003	4.5959	3.2213E-06	5.2931E-05	CTC-281F24.3	unprocessi	17	6657214	6661413	1	p13.1
ENSG00000137573	2.1892	4.5606	3.8221E-13	1.9205E-11	SULF1	sulfatase 1 [Source:HGNC Sym protein_cc	8	69466624	69660915	1	q13.2
ENSG00000250889	2.1794	4.5298	5.1755E-09	1.4755E-07	LINC01336	long intergenic non-protein co lincRNA	5	75047719	75052843	-1	q13.3
ENSG00000230918	2.1675	4.4923	6.4465E-06	9.8453E-05	AC008063.2	antisense	2	1.62E+08	1.62E+08	1	q24.2
ENSG00000204380	2.1663	4.4888	1.2524E-07	2.8475E-06	AC005042.4	antisense	2	1.59E+08	1.59E+08	-1	q24.1
ENSG00000187955	2.1639	4.4811	1.1546E-05	0.0002	COL14A1	collagen, type XIV, alpha 1 [Sou protein_cc	8	1.2E+08	1.2E+08	1	q24.12
ENSG00000151692	2.1618	4.4746	3.6797E-16	2.525E-14	RNF144A	ring finger protein 144A [Sourc protein_cc	2	6917392	7068286	1	p25.1
ENSG00000224420	2.1567	4.459	4.4801E-06	7.1456E-05	ADM5	adrenomedullin 5 (putative) [S protein_cc	19	49688664	49690575	1	q13.33
ENSG00000101977	2.1502	4.439	1.3144E-05	0.0002	MCF2	MCF.2 cell line derived transfo protein_ccX		1.4E+08	1.4E+08	-1	q27.1
ENSG00000179546	2.1498	4.4377	9.2587E-07	1.7492E-05	HTR1D	5-hydroxytryptamine (serotoni protein_cc	1	23191895	23194729	-1	p36.12



ENSG00000205086	2.1428	4.4161	8.0981E-06	0.0001	C2orf91	chromosome 2 open reading frame protein	2	41935368	41954266	-1	p21
ENSG00000253549	2.1374	4.3997	1.3395E-05	0.0002	RP11-317J10.2	antisense	8	85441851	85464915	-1	q21.2
ENSG00000167617	2.1342	4.39	1.5212E-42	5.6804E-40	CDC42EP5	CDC42 effector protein (Rho G protein	19	54465026	54473264	-1	q13.42
ENSG00000171587	2.1303	4.3782	8.2947E-06	0.0001	DSCAM	Down syndrome cell adhesion protein	21	40010999	40847139	-1	q22.2
ENSG00000159921	2.1286	4.373	9.8864E-31	1.8279E-28	GNE	glucosamine (UDP-N-acetyl)-2- protein	9	36214441	36277056	-1	p13.3
ENSG00000168899	2.1222	4.3536	1.9528E-26	2.7146E-24	VAMP5	vesicle-associated membrane protein	2	85584408	85593412	1	p11.2
ENSG00000187527	2.1119	4.3227	7.1537E-07	1.3802E-05	ATP13A5	ATPase type 13A5 [Source:HG] protein	3	1.93E+08	1.93E+08	-1	q29
ENSG00000169860	2.0973	4.2792	2.2302E-15	1.4545E-13	P2RY1	purinergic receptor P2Y, G-protein	3	1.53E+08	1.53E+08	1	q25.2
ENSG00000093009	2.0972	4.2787	2.4437E-05	0.0003	CDC45	cell division cycle 45 [Source:H] protein	22	19479459	19520612	-1	q11.21
ENSG00000163638	2.0861	4.2461	0.00000464	7.3576E-05	ADAMTS9	ADAM metalloproteinase with thrombospondin	3	64515654	64688000	-1	p14.1
ENSG00000205076	2.0837	4.2389	3.123E-08	7.7643E-07	LGALS7	lectin, galactoside-binding, soluble	19	38770971	38773492	-1	q13.2
ENSG00000126016	2.0826	4.2358	3.8864E-29	6.1677E-27	AMOT	angiominin [Source:HGNC Symbol] protein	1	1.13E+08	1.13E+08	-1	q23
ENSG00000162873	2.0762	4.2168	9.2954E-06	0.0001	KLHDC8A	kelch domain containing 8A [Source:HGNC] protein	1	2.05E+08	2.05E+08	-1	q32.1
ENSG00000123405	2.0738	4.2099	1.9512E-07	4.2809E-06	NFE2	nuclear factor, erythroid 2 [Source:HGNC] protein	12	54292111	54301121	-1	q13.13
ENSG00000173406	2.0683	4.194	2.0328E-06	3.5066E-05	DAB1	Dab, reelin signal transducer, 1 protein	1	56994778	58546734	-1	p32.1
ENSG00000146143	2.0515	4.1454	7.2343E-62	5.1026E-59	PRIM2	primase, DNA, polypeptide 2 [Source:HGNC] protein	6	57314805	57646849	1	p11.2
ENSG0000046653	2.0469	4.1323	5.9117E-06	9.1531E-05	GPM6B	glycoprotein M6B [Source:HGNC] protein	13771031	13938638	-1	p22.2	
ENSG00000117143	2.0311	4.0872	4.0495E-33	8.7635E-31	UAP1	UDP-N-acetylglucosamine pyrophosphorylase	1	1.63E+08	1.63E+08	1	q23.3
ENSG00000136826	2.0226	4.0632	6.8667E-32	1.3765E-29	KLF4	Kruppel-like factor 4 (gut) [Source:HGNC] protein	9	1.07E+08	1.07E+08	-1	q31.2
ENSG00000238266	2.0116	4.0324	1.0189E-05	0.0001	LINC00707	long intergenic non-protein coding lincRNA	10	6779598	6842906	1	p14
ENSG00000175538	2.0099	4.0275	1.6645E-22	1.7417E-20	KCNE3	potassium voltage-gated channel accessory protein 3	11	74454841	74467729	-1	q13.4
ENSG00000157833	1.999	3.9972	4.4912E-09	1.2959E-07	GAREML	GRB2 associated, regulator of tyrosine kinase	2	26173091	26189663	1	p23.3
ENSG00000103044	1.9977	3.9937	3.2698E-33	7.1574E-31	HAS3	hyaluronan synthase 3 [Source:HGNC] protein	16	69105564	69118719	1	q22.1
ENSG00000112877	1.9956	3.9879	1.0944E-29	1.8445E-27	CEP72	centrosomal protein 72kDa [Source:HGNC] protein	5	612272	667168	1	p15.33
ENSG00000253348	1.9943	3.9843	6.393E-08	1.5124E-06	MIR4454	microRNA 4454 [Source:HGNC] antisense	5	1.71E+08	1.71E+08	-1	q35.1
ENSG00000124159	1.9917	3.9771	4.4211E-05	0.0005	MATN4	matrilin 4 [Source:HGNC Symbol] protein	20	45293445	45308529	-1	q13.12
ENSG0000013016	1.9779	3.9393	8.4705E-14	4.6089E-12	EHD3	EH-domain containing 3 [Source:HGNC] protein	2	31234337	31269447	1	p23.1
ENSG00000244198	1.976	3.9341	4.8627E-08	1.1767E-06	RP4-545C24.1	antisense	7	1.44E+08	1.44E+08	1	q35
ENSG00000168874	1.9731	3.926	2.0598E-19	1.833E-17	ATOX1	atonal homolog 8 (Drosophila) protein	2	85751344	85788066	1	p11.2
ENSG00000234380	1.9724	3.9242	6.7314E-08	1.5865E-06	LINC01426	long intergenic non-protein coding antisense	21	34745757	34784886	1	q22.12
ENSG00000171564	1.9724	3.9242	8.7809E-06	0.0001	FGB	fibrinogen beta chain [Source:HGNC] protein	4	1.55E+08	1.55E+08	1	q31.3
ENSG00000151617	1.9719	3.9228	2.2253E-07	4.8158E-06	EDNRA	endothelin receptor type A [Source:HGNC] protein	4	1.47E+08	1.48E+08	1	q31.22
ENSG00000140459	1.9702	3.9182	7.5355E-05	0.0009	CYP11A1	cytochrome P450, family 11, subfamily 1	15	74337759	74367740	-1	q24.1
ENSG00000120756	1.9668	3.909	2.4737E-46	1.1217E-43	PLS1	plastin 1 [Source:HGNC Symbol] protein	3	1.43E+08	1.43E+08	1	q23
ENSG00000211807	1.9668	3.909	4.1978E-05	0.0005	TRAV26-1	T cell receptor alpha variable 2 TRAV gene	14	22123318	22124285	1	q11.2
ENSG00000100170	1.9606	3.8922	4.1801E-13	2.0949E-11	SLC5A1	solute carrier family 5 (sodium/coupled) member 1	22	32043032	32113029	1	q12.3
ENSG00000112137	1.9559	3.8797	9.3036E-06	0.0001	PHACTR1	phosphatase and actin regulator 1 [Source:HGNC] protein	6	12716805	13290484	1	p24.1
ENSG00000160179	1.9441	3.8479	1.4626E-12	6.8267E-11	ABCG1	ATP-binding cassette, subfamily G, member 1	21	42199689	42297244	1	q22.3
ENSG00000136869	1.9409	3.8395	4.2035E-09	1.2222E-07	TLR4	toll-like receptor 4 [Source:HGNC] protein	9	1.18E+08	1.18E+08	1	q33.1
ENSG00000197641	1.9314	3.8142	3.2402E-08	8.0211E-07	SERPINB13	serpin peptidase inhibitor, clade B, member 13	18	63586989	63604639	1	q21.33
ENSG00000167641	1.9235	3.7933	5.5849E-05	0.0007	PPP1R14A	protein phosphatase 1, regulatory subunit 14A	19	38251237	38256591	-1	q13.2

ENSG00000116039	1.9207	3.7861	1.3454E-15	8.9586E-14	ATP6V1B1	ATPase, H+ transporting, lysosomal protein_cc	2	70935882	70965406	1	p13.3
ENSG00000171097	1.9206	3.7858	1.5958E-36	3.9987E-34	CCBL1	cysteine conjugate-beta lyase, protein_cc	9	1.29E+08	1.29E+08	-1	q34.11
ENSG00000169122	1.9197	3.7834	6.4467E-06	9.8453E-05	FAM110B	family with sequence similarity protein_cc	8	57994509	58204279	1	q12.1
ENSG00000233292	1.9154	3.7723	7.8946E-05	0.0009	RP11-341B24.3	processed_l	10	89139044	89139458	1	q23.31
ENSG00000082497	1.8996	3.731	3.0905E-24	3.7487E-22	SERTAD4	SERTA domain containing 4 [Sc protein_cc	1	2.1E+08	2.1E+08	1	q32.2
ENSG00000205221	1.8946	3.7181	0.0001	0.0014	VIT	vitrin [Source:HGNC Symbol;Acc protein_cc	2	36696690	36814792	1	p22.2
ENSG00000169439	1.8858	3.6956	1.7608E-10	6.375E-09	SDC2	syndecan 2 [Source:HGNC Symbol;Acc protein_cc	8	96493351	96611780	1	q22.1
ENSG00000134242	1.879	3.6781	0.0001	0.0012	PTPN22	protein tyrosine phosphatase, protein_cc	1	1.14E+08	1.14E+08	-1	p13.2
ENSG0000016159	1.8774	3.6741	3.1387E-08	7.7932E-07	FAT4	FAT atypical cadherin 4 [Source:HGNC Symbol;Acc protein_cc	4	1.25E+08	1.25E+08	1	q28.1
ENSG00000163399	1.8773	3.674	1.0566E-74	1.1179E-71	ATP1A1	ATPase, Na+/K+ transporting, cytoplasmic protein_cc	1	1.16E+08	1.16E+08	1	p13.1
ENSG00000270571	1.8598	3.6296	3.5588E-09	1.0443E-07	RP11-355F16.1	antisense	2	75154366	75189949	1	p12
ENSG00000108448	1.8534	3.6135	4.9766E-42	1.7882E-39	TRIM16L	tripartite motif containing 16-l protein_cc	17	18697998	18736118	1	p11.2
ENSG00000161955	1.8503	3.6057	8.8466E-25	1.08E-22	TNFSF13	tumor necrosis factor (ligand) : protein_cc	17	7558292	7561608	1	p13.1
ENSG00000115325	1.8475	3.5988	4.5344E-18	3.5391E-16	DOK1	docking protein 1, 62kDa (dow protein_cc	2	74549026	74557554	1	p13.1
ENSG00000227953	1.8377	3.5743	2.1921E-05	0.0003	LINC01341	long intergenic non-protein coding RNA, processed_l	1	2.47E+08	2.47E+08	1	q44
ENSG00000069431	1.8373	3.5735	1.1815E-08	3.1869E-07	ABCC9	ATP-binding cassette, sub-family C, member 9 protein_cc	12	21797401	21941402	-1	p12.1
ENSG00000154027	1.8308	3.5573	0.0002	0.0023	AK5	adenylate kinase 5 [Source:HGNC Symbol;Acc protein_cc	1	77282051	77559969	1	p31.1
ENSG00000143127	1.8305	3.5565	2.4296E-06	4.1056E-05	ITGA10	integrin, alpha 10 [Source:HGNC Symbol;Acc protein_cc	1	1.46E+08	1.46E+08	-1	q21.1
ENSG00000143578	1.8268	3.5476	2.6181E-14	1.5109E-12	CREB3L4	cAMP responsive element binding protein 3-like 4 protein_cc	1	1.54E+08	1.54E+08	1	q21.3
ENSG00000187796	1.7849	3.4458	5.3127E-12	2.3366E-10	CARD9	caspase recruitment domain family 1 member 9 protein_cc	9	1.36E+08	1.36E+08	-1	q34.3
ENSG00000234965	1.7813	3.4374	0.0002	0.0018	SHISA8	shisa family member 8 [Source:HGNC Symbol;Acc protein_cc	22	41909554	41914667	-1	q13.2
ENSG00000114771	1.7802	3.4347	1.6208E-08	4.2809E-07	AADAC	arylacetamide deacetylase [Source:HGNC Symbol;Acc protein_cc	3	1.52E+08	1.52E+08	1	q25.1
ENSG00000065675	1.7739	3.4198	1.5108E-09	4.7401E-08	PRKCQ	protein kinase C, theta [Source:HGNC Symbol;Acc protein_cc	10	6427143	6580301	-1	p15.1
ENSG00000129009	1.7704	3.4116	0.0002	0.0021	ISLR	immunoglobulin superfamily class C member 1 protein_cc	15	74173671	74176872	1	q24.1
ENSG00000257594	1.7687	3.4075	6.9455E-21	6.7484E-19	GALNT4	polypeptide N-acetylgalactosyltransferase 4 protein_cc	12	89519408	89524806	-1	q21.33
ENSG00000140297	1.7679	3.4056	4.3119E-29	6.7865E-27	GCNT3	glucosaminyl (N-acetyl) transferase 3 protein_cc	15	59594875	59640239	1	q22.2
ENSG00000241732	1.7667	3.4028	2.6113E-07	5.5813E-06	RP11-38P22.2	lincRNA	3	1.53E+08	1.53E+08	1	q25.2
ENSG00000040608	1.7638	3.3958	4.9614E-13	2.4478E-11	RTN4R	reticulon 4 receptor [Source:HGNC Symbol;Acc protein_cc	22	20241415	20283246	-1	q11.21
ENSG00000173212	1.7523	3.3689	4.2606E-07	8.7058E-06	MAB21L3	mab-21-like 3 (C. elegans) [Source:HGNC Symbol;Acc protein_cc	1	1.16E+08	1.16E+08	1	p13.1
ENSG00000127951	1.7513	3.3665	0.0005	0.0042	FGL2	fibrinogen-like 2 [Source:HGNC Symbol;Acc protein_cc	7	77193371	77199826	-1	q11.23
ENSG00000248474	1.7475	3.3577	0.00006038	0.0007	CTD-2292M14.1	lincRNA	5	74084068	74103216	-1	q13.3
ENSG00000110080	1.7456	3.3533	1.0055E-45	4.1629E-43	ST3GAL4	ST3 beta-galactoside alpha-2,3 transferase protein_cc	11	1.26E+08	1.26E+08	1	q24.2
ENSG00000165071	1.7442	3.3501	1.2102E-06	0.00002214	TMEM71	transmembrane protein 71 [Sc protein_cc	8	1.33E+08	1.33E+08	-1	q24.22
ENSG00000196611	1.7422	3.3454	5.1644E-05	0.0006	MMP1	matrix metalloproteinase 1 (interstitial) protein_cc	11	1.03E+08	1.03E+08	-1	q22.2
ENSG00000121742	1.7379	3.3356	1.8363E-05	0.0002	GJB6	gap junction protein, beta 6, 31 protein_cc	13	20221971	20232395	-1	q12.11
ENSG00000154310	1.7373	3.3342	6.5171E-09	1.8305E-07	TNIK	TRAF2 and NCK interacting kinase protein_cc	3	1.71E+08	1.71E+08	-1	q26.31
ENSG00000180209	1.7372	3.334	7.6364E-10	2.5161E-08	MYL6P	myosin light chain, phosphorylated protein_cc	16	30370934	30377991	1	p11.2
ENSG00000244476	1.7318	3.3215	0.0002	0.0019	ERVFRD-1	endogenous retrovirus group F protein_cc	6	11102489	11111732	-1	p24.2
ENSG00000183888	1.7305	3.3184	0.0006	0.0049	C1orf64	chromosome 1 open reading frame 64 protein_cc	1	16004236	16008807	1	p36.13
ENSG00000111846	1.7286	3.3142	9.0729E-54	5.2359E-51	GCNT2	glucosaminyl (N-acetyl) transferase 2 protein_cc	6	10492223	10629368	1	p24.3
ENSG00000233569	1.7278	3.3122	4.6165E-06	7.3263E-05	RP11-500B12.1	lincRNA	9	1.18E+08	1.18E+08	1	q33.1

ENSG00000188676	1.7264	3.3091	0.0004	0.0039	IDO2	indoleamine 2,3-dioxygenase 2 protein_cc	8	39934614	40016391	1	p11.21
ENSG00000168497	1.716	3.2853	2.2294E-12	1.0206E-10	SDPR	serum deprivation response [S protein_cc	2	1.92E+08	1.92E+08	-1	q32.3
ENSG00000173077	1.7138	3.2802	4.0325E-06	6.5025E-05	DEC1	deleted in esophageal cancer 1 protein_cc	9	1.15E+08	1.15E+08	1	q33.1
ENSG00000104432	1.7135	3.2796	5.8031E-07	1.1488E-05	IL7	interleukin 7 [Source:HGNC Sy protein_cc	8	78675743	78805523	-1	q21.13
ENSG00000221926	1.7066	3.264	2.3822E-17	1.7791E-15	TRIM16	tripartite motif containing 16 [ protein_cc	17	15627960	15684311	-1	p12
ENSG00000171492	1.6997	3.2483	4.0396E-62	2.9589E-59	LRR8D	leucine rich repeat containing ; protein_cc	1	89821014	89936611	1	p22.2
ENSG00000125945	1.6976	3.2435	4.2261E-28	6.5432E-26	ZNF436	zinc finger protein 436 [Source protein_cc	1	23359448	23369442	-1	p36.12
ENSG00000234393	1.6902	3.2271	3.4386E-05	0.0004	RP11-211N11.5	antisense	10	1.14E+08	1.14E+08	-1	q25.3
ENSG00000111713	1.6889	3.2241	5.0038E-05	0.0006	GYS2	glycogen synthase 2 (liver) [So protein_cc	12	21536189	21604847	-1	p12.1
ENSG00000164100	1.6843	3.2139	0.0004	0.0033	NDS1	N-deacetylase/N-sulfotransfer protein_cc	4	1.18E+08	1.18E+08	1	q26
ENSG00000151327	1.6828	3.2105	5.9686E-77	7.5777E-74	FAM177A1	family with sequence similarity protein_cc	14	35044907	35113130	1	q13.2
ENSG00000168811	1.6795	3.2032	5.8518E-06	9.0677E-05	IL12A	interleukin 12A [Source:HGNC protein_cc	3	1.6E+08	1.6E+08	1	q25.33
ENSG00000170745	1.6791	3.2024	4.0398E-36	9.8633E-34	KCNS3	potassium voltage-gated chan protein_cc	2	17877847	18361616	1	p24.2
ENSG00000259647	1.678	3.1999	0.0004	0.0035	RP11-143J24.1	lincRNA	15	30005443	30045848	-1	q13.2
ENSG00000116514	1.6768	3.1973	1.7685E-68	1.6038E-65	RNF19B	ring finger protein 19B [Source protein_cc	1	32936445	32964685	-1	p35.1
ENSG00000006747	1.6758	3.195	0.00001375	0.0002	SCIN	scinderin [Source:HGNC Symb protein_cc	7	12570577	12653603	1	p21.3
ENSG00000034510	1.6755	3.1943	1.8106E-40	5.7469E-38	TMSB10	thymosin beta 10 [Source:HGNC protein_cc	2	84905625	84906675	1	p11.2
ENSG00000177494	1.6687	3.1793	9.6292E-13	4.6543E-11	ZBED2	zinc finger, BED-type containin protein_cc	3	1.12E+08	1.12E+08	-1	q13.13
ENSG00000184374	1.6684	3.1787	3.7266E-05	0.0005	COLEC10	collectin sub-family member 1 protein_cc	8	1.19E+08	1.19E+08	1	q24.12
ENSG00000101842	1.6683	3.1783	1.1611E-05	0.0002	VSIG1	V-set and immunoglobulin dor protein_cc X	1	1.08E+08	1.08E+08	1	q22.3
ENSG00000176697	1.6656	3.1724	0.0003	0.0028	BDNF	brain-derived neurotrophic fac protein_cc	11	27654893	27722058	-1	p14.1
ENSG00000230118	1.6624	3.1654	1.3465E-05	0.0002	AC092569.2	processed_	2	30746444	30746701	-1	p23.1
ENSG00000184304	1.6602	3.1607	2.038E-09	6.2671E-08	PRKD1	protein kinase D1 [Source:HGNC protein_cc	14	29576479	30191898	-1	q12
ENSG00000223813	1.6558	3.151	3.2812E-09	9.6879E-08	AC007255.8	antisense	7	29514225	29563670	-1	p14.3
ENSG00000010278	1.6466	3.1309	2.8348E-13	1.463E-11	CD9	CD9 molecule [Source:HGNC S protein_cc	12	6199715	6238271	1	p13.31
ENSG00000117525	1.642	3.1209	2.3996E-09	7.2422E-08	F3	coagulation factor III (thrombo protein_cc	1	94529225	94541800	-1	p21.3
ENSG00000090013	1.6392	3.115	2.2788E-11	9.3129E-10	BLVRB	biliverdin reductase B (flavin re protein_cc	19	40447789	40465840	-1	q13.2
ENSG00000101333	1.6313	3.0978	1.2174E-18	1.0169E-16	PLCB4	phospholipase C, beta 4 [Sourc protein_cc	20	9068763	9481242	1	p12.3
ENSG00000226742	1.6294	3.0938	1.4831E-42	5.6489E-40	HSBP1L1	heat shock factor binding prot protein_cc	18	79964561	79970822	1	q23
ENSG00000197444	1.6277	3.0901	0.0002	0.0017	OGDHL	oxoglutarate dehydrogenase-li protein_cc	10	49734643	49762379	-1	q11.23
ENSG00000143653	1.6256	3.0858	8.1465E-41	2.7218E-38	SCCPDH	saccharopine dehydrogenase ( protein_cc	1	2.47E+08	2.47E+08	1	q44
ENSG00000022567	1.6255	3.0854	1.6155E-38	4.6616E-36	SLC45A4	solute carrier family 45, memb protein_cc	8	1.41E+08	1.41E+08	-1	q24.3
ENSG00000236700	1.6216	3.0772	0.0009	0.0072	LINC01010	long intergenic non-protein co lincRNA	6	1.34E+08	1.35E+08	1	q23.2
ENSG00000173626	1.6204	3.0746	0.0011	0.0088	TRAPPC3L	trafficking protein particle com protein_cc	6	1.16E+08	1.17E+08	-1	q22.1
ENSG00000158764	1.6127	3.0583	0.0011	0.0084	ITLN2	intelectin 2 [Source:HGNC Sym protein_cc	1	1.61E+08	1.61E+08	-1	q23.3
ENSG00000133636	1.6031	3.0379	6.1529E-05	0.0007	NTS	neurotensin [Source:HGNC Syr protein_cc	12	85874295	85882992	1	q21.31
ENSG00000145147	1.602	3.0356	0.0002	0.0022	SLIT2	slit homolog 2 (Drosophila) [So protein_cc	4	20253260	20620561	1	p15.31
ENSG00000119408	1.6019	3.0355	4.0886E-43	1.6222E-40	NEK6	NIMA-related kinase 6 [Source protein_cc	9	1.24E+08	1.24E+08	1	q33.3
ENSG00000232679	1.5992	3.0298	0.0011	0.0089	RP11-400N13.3	lincRNA	1	2.22E+08	2.22E+08	-1	q41
ENSG00000164037	1.5967	3.0244	0.0014	0.0104	SLC9B1	solute carrier family 9, subfam protein_cc	4	1.03E+08	1.03E+08	-1	q24
ENSG00000012660	1.5956	3.0222	1.4081E-26	1.9863E-24	ELOVL5	ELOVL fatty acid elongase 5 [Sc protein_cc	6	53267398	53349179	-1	p12.1

ENSG00000185352	1.5894	3.0092	0.001	0.008	HS6ST3	heparan sulfate 6-O-sulfotrans protein_cc	13	96090839	96839562	1	q32.1
ENSG00000141540	1.5891	3.0086	8.3976E-08	1.9575E-06	TTYH2	tweety family member 2 [Sour protein_cc	17	74213514	74262020	1	q25.1
ENSG00000181449	1.589	3.0083	4.6631E-13	2.3126E-11	SOX2	SRY (sex determining region Y) protein_cc	3	1.82E+08	1.82E+08	1	q26.33
ENSG00000109099	1.5876	3.0054	0.0001	0.0015	PMP22	peripheral myelin protein 22 [S protein_cc	17	15229777	15265326	-1	p12
ENSG00000188242	1.5875	3.0053	5.5304E-15	3.4084E-13	PP7080	uncharacterized LOC25845 [So antisense	5	466124	473098	-1	p15.33
ENSG00000229056	1.586	3.0022	0.0005	0.0048	AC020571.3	antisense	2	1.96E+08	1.96E+08	1	q32.3
ENSG00000243244	1.5854	3.0008	9.6496E-10	3.1306E-08	STON1	stonin 1 [Source:HGNC Symbol protein_cc	2	48529383	48598513	1	p16.3
ENSG00000081985	1.5811	2.992	7.4847E-05	0.0009	IL12RB2	interleukin 12 receptor, beta 2 protein_cc	1	67307364	67396900	1	p31.3
ENSG00000166546	1.5801	2.9899	0.0002	0.0018	BEAN1	brain expressed, associated wi protein_cc	16	66427297	66493529	1	q21
ENSG00000070010	1.5767	2.9828	2.3657E-53	1.3251E-50	UFD1L	ubiquitin fusion degradation 1 protein_cc	22	19449910	19479215	-1	q11.21
ENSG00000042832	1.5745	2.9782	5.5418E-06	8.6224E-05	TG	thyroglobulin [Source:HGNC S protein_cc	8	1.33E+08	1.33E+08	1	q24.22
ENSG00000178031	1.573	2.9753	0.0016	0.012	ADAMTSL1	ADAMTS-like 1 [Source:HGNC protein_cc	9	18473894	18910950	1	p22.2
ENSG00000173559	1.5585	2.9456	4.4726E-05	0.0005	NABP1	nucleic acid binding protein 1 [ protein_cc	2	1.92E+08	1.92E+08	1	q32.3
ENSG00000102755	1.5581	2.9446	0.0008	0.0068	FLT1	fms-related tyrosine kinase 1 [ protein_cc	13	28300344	28495128	-1	q12.3
ENSG00000204889	1.5566	2.9416	0.0001	0.0014	KRT40	keratin 40 [Source:HGNC Sym protein_cc	17	40977716	40987135	-1	q21.2
ENSG00000165175	1.5552	2.9387	5.996E-11	2.2975E-09	MID1IP1	MID1 interacting protein 1 [So protein_ccX		38801432	38806537	1	p11.4
ENSG00000128268	1.5488	2.9258	4.8698E-21	4.7805E-19	MGAT3	mannosyl (beta-1,4-)-glycoprotein protein_cc	22	39457344	39492194	1	q13.1
ENSG00000162949	1.5429	2.9139	4.9667E-07	1.0009E-05	CAPN13	calpain 13 [Source:HGNC Sym protein_cc	2	30722771	30820542	-1	p23.1
ENSG00000188042	1.5423	2.9126	8.6717E-07	1.6465E-05	ARL4C	ADP-ribosylation factor-like 4C protein_cc	2	2.34E+08	2.34E+08	-1	q37.1
ENSG00000178033	1.5326	2.8931	0.001	0.0082	FAM26E	family with sequence similarity protein_cc	6	1.17E+08	1.17E+08	1	q22.1
ENSG00000241322	1.5262	2.8802	2.4675E-06	4.1622E-05	CDRT1	CMT1A duplicated region tran: protein_cc	17	15565483	15619704	-1	p12
ENSG00000121281	1.5164	2.8608	4.6119E-16	3.1368E-14	ADCY7	adenylate cyclase 7 [Source:HC protein_cc	16	50246137	50318135	1	q12.1
ENSG00000214243	1.5149	2.8578	8.2546E-05	0.0009	AC004980.10	processed_	7	76650401	76650897	-1	q11.23
ENSG00000225434	1.5078	2.8439	3.3643E-06	5.5138E-05	LINC01504	long intergenic non-protein co lincRNA	9	72305430	72343210	1	q21.13
ENSG00000006062	1.5047	2.8376	3.1997E-18	2.5434E-16	MAP3K14	mitogen-activated protein kinase protein_cc	17	45263121	45317040	-1	q21.31
ENSG00000203635	1.5024	2.8332	0.0012	0.0093	AC144450.2	lincRNA	2	1620510	1625419	-1	p25.3
ENSG00000260855	1.4993	2.8271	0.0003	0.0028	RP11-439E19.10	antisense	1	2.47E+08	2.47E+08	1	q44
ENSG00000157168	1.4906	2.8101	5.4825E-07	1.0944E-05	NRG1	neuregulin 1 [Source:HGNC S protein_cc	8	31639386	32765040	1	p12
ENSG00000135437	1.4865	2.802	9.8166E-05	0.0011	RDH5	retinol dehydrogenase 5 (11-ci protein_cc	12	55720367	55724705	1	q13.2
ENSG00000272072	1.4864	2.802	0.0021	0.0149	CTA-363E19.2	antisense	7	1.07E+08	1.07E+08	-1	q22.3
ENSG00000145808	1.4814	2.7922	0.0028	0.0185	ADAMTS19	ADAM metalloproteinase with protein_cc	5	1.29E+08	1.3E+08	1	q23.3
ENSG00000198829	1.4809	2.7913	0.0032	0.0206	SUCNR1	succinate receptor 1 [Source:H protein_cc	3	1.52E+08	1.52E+08	1	q25.1
ENSG00000181045	1.4793	2.7881	5.3391E-09	1.5176E-07	SLC26A11	solute carrier family 26 (anion protein_cc	17	80219699	80253500	1	q25.3
ENSG00000146006	1.4787	2.787	0.0029	0.0193	LRRTM2	leucine rich repeat transmembr protein_cc	5	1.39E+08	1.39E+08	-1	q31.2
ENSG00000278910	1.4769	2.7834	0.0014	0.0107	BANCR	BRAF-activated non-protein co lincRNA	9	69296682	69306977	-1	q21.12
ENSG00000259485	1.4765	2.7828	0.0023	0.0158	CTD-2147F2.1	lincRNA	15	97295881	97432094	1	q26.2
ENSG00000104332	1.4762	2.7822	2.5321E-15	1.6458E-13	SFRP1	secreted frizzled-related prote protein_cc	8	41261958	41309497	-1	p11.21
ENSG00000186832	1.4713	2.7727	0.0004	0.0034	KRT16	keratin 16 [Source:HGNC Sym protein_cc	17	41609778	41615899	-1	q21.2
ENSG00000072858	1.4708	2.7718	8.5425E-23	9.1395E-21	SIDT1	SID1 transmembrane family, n protein_cc	3	1.14E+08	1.14E+08	1	q13.2
ENSG00000087008	1.4675	2.7654	3.6649E-25	4.6222E-23	ACOX3	acyl-CoA oxidase 3, pristanoyl protein_cc	4	8366282	8440723	-1	p16.1
ENSG00000109272	1.4674	2.7652	2.5839E-06	0.00004347	PF4V1	platelet factor 4 variant 1 [Sou protein_cc	4	73853189	73854155	1	q13.3

ENSG00000268104	1.467	2.7644	1.554E-07	3.4694E-06	SLC6A14	solute carrier family 6 (amino ; protein_ccX	1.16E+08	1.16E+08	1	q23
ENSG00000149798	1.466	2.7625	2.562E-07	5.4821E-06	CDC42EP2	CDC42 effector protein (Rho G protein_cc	11 65314818	65322429	1	q13.1
ENSG00000236318	1.4629	2.7566	9.3382E-07	1.7625E-05	AC019117.1	lincRNA	7 17374867	17466664	1	p21.1
ENSG00000101850	1.4629	2.7565	1.0526E-15	7.0335E-14	GPR143	G protein-coupled receptor 14 protein_ccX	9725346	9786297	-1	p22.2
ENSG00000111845	1.4628	2.7564	7.0791E-31	1.3348E-28	PAK1IP1	PAK1 interacting protein 1 [Soi protein_cc	6 10694695	10709782	1	p24.2
ENSG00000021852	1.4578	2.7469	0.0029	0.0191	C8B	complement component 8, be protein_cc	1 56929210	56966140	-1	p32.2
ENSG00000171631	1.4475	2.7273	1.745E-06	0.0000306	P2RY6	pyrimidinergic receptor P2Y, G protein_cc	11 73264505	73298617	1	q13.4
ENSG00000170608	1.4452	2.7229	0.0009	0.0072	FOXA3	forkhead box A3 [Source:HGN( protein_cc	19 45863989	45873797	1	q13.32
ENSG00000164850	1.4422	2.7174	0.0013	0.0098	GPER1	G protein-coupled estrogen re protein_cc	7 1082208	1093815	1	p22.3
ENSG00000108639	1.4389	2.7111	1.8131E-25	2.365E-23	SYNGR2	synaptogyrin 2 [Source:HGNC! protein_cc	17 78168558	78173527	1	q25.3
ENSG00000249631	1.4371	2.7077	1.6641E-10	6.0478E-09	RP11-281P23.2	lincRNA	4 11625714	11813958	1	p15.33
ENSG00000182606	1.435	2.7037	3.0042E-46	1.3305E-43	TRAK1	trafficking protein, kinesin binc protein_cc	3 42013802	42225889	1	p22.1
ENSG00000099960	1.4348	2.7035	3.6655E-12	1.631E-10	SLC7A4	solute carrier family 7, membe protein_cc	22 21028718	21032840	-1	q11.21
ENSG00000196352	1.4348	2.7034	6.8614E-19	5.8074E-17	CD55	CD55 molecule, decay acceler protein_cc	1 2.07E+08	2.07E+08	1	q32.2
ENSG00000163251	1.4263	2.6875	3.5981E-19	3.1147E-17	FZD5	frizzled class receptor 5 [Sourc protein_cc	2 2.08E+08	2.08E+08	-1	q33.3
ENSG00000065833	1.4187	2.6735	5.0864E-15	3.145E-13	ME1	malic enzyme 1, NADP(+)-depe protein_cc	6 83210389	83431071	-1	q14.2
ENSG00000173175	1.4167	2.6698	4.6066E-06	7.3168E-05	ADCY5	adenylate cyclase 5 [Source:HC protein_cc	3 1.23E+08	1.23E+08	-1	q21.1
ENSG00000214290	1.4163	2.6691	1.0271E-11	4.3662E-10	COLCA2	colorectal cancer associated 2 protein_cc	11 1.11E+08	1.11E+08	1	q23.1
ENSG00000235091	1.4063	2.6505	0.0031	0.0199	WI2-8589F10.1	lincRNA	22 45875999	45887748	-1	q13.31
ENSG00000129657	1.4055	2.6492	4.1853E-31	8.0511E-29	SEC14L1	SEC14-like 1 (S. cerevisiae) [Soi protein_cc	17 77086716	77217101	1	q25.2
ENSG00000213626	1.4054	2.6489	3.0757E-21	3.0507E-19	LBH	limb bud and heart developme protein_cc	2 30231531	30323730	1	p23.1
ENSG00000157240	1.4043	2.6469	2.6252E-32	5.3757E-30	FZD1	frizzled class receptor 1 [Sourc protein_cc	7 91264364	91271326	1	q21.13
ENSG00000137727	1.4031	2.6447	1.7112E-05	0.0002	ARHGAP20	Rho GTPase activating protein protein_cc	11 1.11E+08	1.11E+08	-1	q23.1
ENSG00000140254	1.4024	2.6434	5.0013E-14	2.7931E-12	DUOXA1	dual oxidase maturation factor protein_cc	15 45117367	45129938	-1	q21.1
ENSG00000122254	1.3997	2.6384	0.0019	0.0133	HS3ST2	heparan sulfate (glucosamine) protein_cc	16 22814177	22916338	1	p12.2
ENSG00000164088	1.3988	2.6369	6.6768E-14	3.6856E-12	PPM1M	protein phosphatase, Mg2+/M protein_cc	3 52245793	52250597	1	p21.2
ENSG00000137642	1.3986	2.6364	1.6183E-23	1.8792E-21	SORL1	sortilin-related receptor, L(DLR protein_cc	11 1.21E+08	1.22E+08	1	q24.1
ENSG00000188001	1.3984	2.6361	8.4378E-08	1.9644E-06	TPRG1	tumor protein p63 regulated 1 protein_cc	3 1.89E+08	1.89E+08	1	q28
ENSG00000262136	1.3977	2.6348	0.0025	0.0171	CTD-2033A16.3	antisense	16 69727013	69742563	1	q22.1
ENSG00000113448	1.3976	2.6346	1.1373E-29	1.8862E-27	PDE4D	phosphodiesterase 4D, cAMP-; protein_cc	5 58969038	60522120	-1	q12.1
ENSG00000140105	1.3976	2.6346	3.9154E-14	2.2126E-12	WARS	tryptophanyl-tRNA synthetase protein_cc	14 1E+08	1E+08	-1	q32.2
ENSG00000170571	1.3963	2.6323	1.4612E-19	1.3189E-17	EMB	embigin [Source:HGNC Symbol protein_cc	5 50396192	50443248	-1	q11.1
ENSG00000173376	1.3941	2.6283	0.0022	0.015	NDNF	neuron-derived neurotrophic f protein_cc	4 1.21E+08	1.21E+08	-1	q27
ENSG00000169689	1.3933	2.6269	1.3086E-19	1.1867E-17	STRA13	stimulated by retinoic acid 13   protein_cc	17 82018702	82024107	-1	q25.3
ENSG00000127152	1.3881	2.6173	6.1692E-06	9.4747E-05	BCL11B	B-cell CLL/lymphoma 11B (zinc protein_cc	14 99169287	99271524	-1	q32.2
ENSG00000196167	1.387	2.6154	1.0609E-13	5.7073E-12	COLCA1	colorectal cancer associated 1 antisense	11 1.11E+08	1.11E+08	-1	q23.1
ENSG00000227533	1.3852	2.612	0.0012	0.0093	SLC2A1-AS1	SLC2A1 antisense RNA 1 [Sourc lincRNA	1 42959049	42983358	1	p34.2
ENSG00000225177	1.3831	2.6083	5.1572E-07	1.0349E-05	FLJ46906	uncharacterized LOC441172 [S antisense	6 1.39E+08	1.39E+08	1	q24.1
ENSG00000107959	1.375	2.5937	1.2146E-41	4.2055E-39	PITRM1	pitriylsin metallopeptidase 1 [S protein_cc	10 3137728	3172841	-1	p15.2
ENSG00000176532	1.3716	2.5876	1.0398E-08	2.841E-07	PRR15	proline rich 15 [Source:HGNC S protein_cc	7 29563811	29567295	1	p14.3
ENSG00000215834	1.3706	2.5858	0.0059	0.0335	FMO9P	flavin containing monooxygen: unitary_ps	1 1.67E+08	1.67E+08	1	q24.1



ENSG00000102010	1.3697	2.5841	0.0033	0.0211	BMX	BMX non-receptor tyrosine kin protein_ccX	15464246	15556529	1	p22.2	
ENSG00000244694	1.3694	2.5836	2.7045E-20	2.5002E-18	PTCHD4	patched domain containing 4 [ protein_cc	6	47878028	48068689	-1	p12.3
ENSG00000111817	1.3677	2.5807	2.8244E-17	2.0929E-15	DSE	dermatan sulfate epimerase [S protein_cc	6	1.16E+08	1.16E+08	1	q22.1
ENSG00000181523	1.3631	2.5724	2.7887E-08	6.9788E-07	SGSH	N-sulfoglucosamine sulfohydry protein_cc	17	80206716	80220923	-1	q25.3
ENSG00000258168	1.3609	2.5684	0.004	0.0246	RP11-588H23.3	antisense	12	70468080	70543040	1	q15
ENSG00000198873	1.3603	2.5673	1.2743E-07	2.8856E-06	GRK5	G protein-coupled receptor kir protein_cc	10	1.19E+08	1.19E+08	1	q26.11
ENSG00000226465	1.3593	2.5657	0.004	0.0245	RP13-401N8.1	antisense	20	25751218	25752761	1	p11.1
ENSG00000163053	1.358	2.5634	1.4074E-08	3.7645E-07	SLC16A14	solute carrier family 16, memb protein_cc	2	2.3E+08	2.3E+08	-1	q36.3
ENSG00000151651	1.3573	2.562	1.4362E-11	6.0242E-10	ADAM8	ADAM metalloproteinase domain protein_cc	10	1.33E+08	1.33E+08	-1	q26.3
ENSG00000073849	1.3566	2.5609	1.2728E-09	4.0739E-08	ST6GAL1	ST6 beta-galactosamide alpha- protein_cc	3	1.87E+08	1.87E+08	-1	q27.3
ENSG00000169035	1.3544	2.5569	0.0004	0.0036	KLK7	kallikrein-related peptidase 7 [ protein_cc	19	50976482	50984099	-1	q13.41
ENSG00000124570	1.3543	2.5568	2.6159E-32	5.3757E-30	SERPINB6	serpin peptidase inhibitor, clac protein_cc	6	2948159	2972165	-1	p25.2
ENSG00000166035	1.3536	2.5556	0.0034	0.0217	LIPC	lipase, hepatic [Source:HGNC S protein_cc	15	58410569	58569843	1	q21.3
ENSG00000183023	1.3531	2.5545	0.0055	0.0319	SLC8A1	solute carrier family 8 (sodium protein_cc	2	40097270	40611053	-1	p22.1
ENSG00000090104	1.3528	2.554	0.0059	0.0337	RGS1	regulator of G-protein signaling protein_cc	1	1.93E+08	1.93E+08	1	q31.2
ENSG00000150556	1.3459	2.5419	2.0116E-10	7.2417E-09	LYPD6B	LY6/PLAUR domain containing protein_cc	2	1.49E+08	1.49E+08	1	q23.2
ENSG00000168878	1.3432	2.5371	0.0076	0.0414	SFTPB	surfactant protein B [Source:H protein_cc	2	85657314	85668741	-1	p11.2
ENSG00000124256	1.3428	2.5365	0.0044	0.0269	ZBP1	Z-DNA binding protein 1 [Source: protein_cc	20	57603846	57620576	-1	q13.31
ENSG00000153071	1.3402	2.5319	1.3376E-05	0.0002	DAB2	Dab, mitogen-responsive phos protein_cc	5	39371675	39462300	-1	p13.1
ENSG00000186994	1.339	2.5297	2.4696E-05	0.0003	KANK3	KN motif and ankyrin repeat do protein_cc	19	8322584	8343262	-1	p13.2
ENSG00000187513	1.3363	2.525	0.0046	0.0278	GJA4	gap junction protein, alpha 4, ; protein_cc	1	34792998	34795747	1	p34.3
ENSG00000138434	1.3349	2.5225	3.2053E-18	2.5434E-16	SSFA2	sperm specific antigen 2 [Source: protein_cc	2	1.82E+08	1.82E+08	1	q31.3
ENSG00000231107	1.3321	2.5177	0.0057	0.0327	LINC01508	long intergenic non-protein co lincRNA	9	90300902	90433505	-1	q22.2
ENSG00000095596	1.3293	2.5127	0.0003	0.0033	CYP26A1	cytochrome P450, family 26, s1 protein_cc	10	93073475	93077890	1	q23.33
ENSG00000163993	1.329	2.5124	5.0641E-12	2.2324E-10	S100P	S100 calcium binding protein F protein_cc	4	6693069	6697170	1	p16.1
ENSG00000100033	1.329	2.5123	3.3444E-05	0.0004	PRODH	proline dehydrogenase (oxidase protein_cc	22	18912777	18936553	-1	q11.21
ENSG00000025039	1.3272	2.5092	7.5655E-16	5.1273E-14	RRAGD	Ras-related GTP binding D [Source: protein_cc	6	89364636	89412270	-1	q15
ENSG00000119326	1.3255	2.5062	4.7183E-14	2.6506E-12	CTNNA1	catenin (cadherin-associated p protein_cc	9	1.09E+08	1.09E+08	-1	q31.3
ENSG00000081870	1.3241	2.5038	2.5591E-08	6.455E-07	HSPB11	heat shock protein family B (small protein_cc	1	53916574	53945929	-1	p32.3
ENSG00000029153	1.3221	2.5004	1.539E-62	1.1723E-59	ARNTL2	aryl hydrocarbon receptor nuc protein_cc	12	27332854	27425289	1	p11.23
ENSG00000074590	1.3184	2.4939	1.1717E-09	3.7628E-08	NUAK1	NUAK family, SNF1-like kinase, protein_cc	12	1.06E+08	1.06E+08	-1	q23.3
ENSG00000254988	1.3183	2.4938	0.0014	0.0108	CTD-2547H18.1	antisense	11	76955417	76978619	-1	q13.5
ENSG00000068079	1.318	2.4931	4.9915E-25	6.2129E-23	IFI35	interferon-induced protein 35 protein_cc	17	43006725	43014456	1	q21.31
ENSG00000257242	1.3161	2.4899	0.0028	0.0186	C12orf79	chromosome 12 open reading protein_cc	12	91984976	92142914	-1	q21.33
ENSG00000111181	1.3091	2.4779	0.0024	0.0163	SLC6A12	solute carrier family 6 (neurotr protein_cc	12	190077	214570	-1	p13.33
ENSG00000262406	1.3071	2.4745	0.0008	0.0064	MMP12	matrix metalloproteinase 12 (m protein_cc	11	1.03E+08	1.03E+08	-1	q22.2
ENSG00000139668	1.3055	2.4717	1.1838E-27	1.7751E-25	WDFY2	WD repeat and FYVE domain c protein_cc	13	51584455	51767707	1	q14.3
ENSG00000188641	1.3055	2.4716	6.8426E-17	4.9927E-15	DPYD	dihydropyrimidine dehydrogenase protein_cc	1	97077743	97921049	-1	p21.3
ENSG00000139144	1.304	2.469	0.0008	0.0067	PIK3C2G	phosphatidylinositol-4-phosph protein_cc	12	18247614	18648416	1	p12.3
ENSG00000178934	1.3038	2.4689	0.0075	0.041	LGALS7B	lectin, galactoside-binding, soli protein_cc	19	38789211	38791749	1	q13.2
ENSG00000136944	1.3019	2.4655	0.0077	0.0415	LMX1B	LIM homeobox transcription fa protein_cc	9	1.27E+08	1.27E+08	1	q33.3

ENSG00000168421	1.3012	2.4643	0.0013	0.0099	RHOH	ras homolog family member H protein_cc	4	40191053	40246967	1	p14
ENSG00000274642	1.2973	2.4576	0.0046	0.0275	CH17-472G23.1	unprocess	1	1.2E+08	1.2E+08	1	p12
ENSG00000048028	1.2968	2.4569	9.0385E-22	9.2048E-20	USP28	ubiquitin specific peptidase 28 protein_cc	11	1.14E+08	1.14E+08	-1	q23.2
ENSG00000261786	1.2967	2.4567	0.0016	0.0115	RP4-555D20.2	lincRNA	3	44117299	44122365	1	p21.32
ENSG00000198736	1.2954	2.4544	3.1699E-15	2.0189E-13	MSRB1	methionine sulfoxide reductas protein_cc	16	1938210	1943326	-1	p13.3
ENSG00000169710	1.2941	2.4523	1.0823E-12	5.1658E-11	FASN	fatty acid synthase [Source:HG protein_cc	17	82078338	82098332	-1	q25.3
ENSG00000159261	1.2927	2.4498	0.0093	0.0482	CLDN14	claudin 14 [Source:HGNC Symt protein_cc	21	36460621	36576569	-1	q22.13
ENSG00000107960	1.2897	2.4448	5.3192E-46	2.3023E-43	OBFC1	oligonucleotide/oligosaccharid protein_cc	10	1.04E+08	1.04E+08	-1	q24.33
ENSG00000134352	1.2874	2.4409	6.0579E-10	2.0311E-08	IL6ST	interleukin 6 signal transducer protein_cc	5	55935095	55994993	-1	q11.2
ENSG00000166741	1.2847	2.4364	0.0069	0.0381	NNMT	nicotinamide N-methyltransfer protein_cc	11	1.14E+08	1.14E+08	-1	q23.2
ENSG00000163412	1.2837	2.4346	9.775E-30	1.6621E-27	EIF4E3	eukaryotic translation initiatio protein_cc	3	71675416	71754773	-1	p13
ENSG00000111728	1.2836	2.4345	0.0031	0.0203	ST8SIA1	ST8 alpha-N-acetyl-neuraminic protein_cc	12	22063773	22437041	-1	p12.1
ENSG00000225975	1.2825	2.4326	0.0018	0.0129	LINC01534	long intergenic non-protein co lincRNA	19	36685440	36687449	-1	q13.12
ENSG00000198756	1.2759	2.4214	0.0047	0.0282	COLGALT2	collagen beta(1-O)galactosyltr; protein_cc	1	1.84E+08	1.84E+08	-1	q25.3
ENSG00000158246	1.274	2.4182	0.0003	0.0033	FAM46B	family with sequence similarity protein_cc	1	27005020	27012836	-1	p36.11
ENSG00000184226	1.2664	2.4056	7.6648E-06	0.0001	PCDH9	protocadherin 9 [Source:HGNC protein_cc	13	66302834	67230445	-1	q21.32
ENSG00000164638	1.2656	2.4044	0.0018	0.0126	SLC29A4	solute carrier family 29 (equilit protein_cc	7	5274369	5306870	1	p22.1
ENSG00000085719	1.2656	2.4043	8.7302E-34	1.956E-31	CPNE3	copine III [Source:HGNC Symbc protein_cc	8	86484830	86561498	1	q21.3
ENSG00000167642	1.2655	2.404	4.508E-37	1.176E-34	SPINT2	serine peptidase inhibitor, Kun protein_cc	19	38244035	38292614	1	q13.2
ENSG00000137558	1.2648	2.4029	0.0076	0.041	PI15	peptidase inhibitor 15 [Source: protein_cc	8	74824537	74855029	1	q21.13
ENSG00000132170	1.2629	2.3998	1.9235E-08	4.9839E-07	PPARG	peroxisome proliferator-activa protein_cc	3	12287368	12434356	1	p25.2
ENSG00000235269	1.2606	2.3959	2.7762E-06	4.6336E-05	AL162759.1	lincRNA	14	53768942	53850882	-1	q22.2
ENSG00000113231	1.2588	2.393	0.0086	0.0455	PDE8B	phosphodiesterase 8B [Source protein_cc	5	77210449	77429807	1	q13.3
ENSG00000132334	1.2582	2.392	1.003E-06	1.8782E-05	PTPRE	protein tyrosine phosphatase, protein_cc	10	1.28E+08	1.28E+08	1	q26.2
ENSG00000103089	1.2582	2.392	0.0025	0.0168	FA2H	fatty acid 2-hydroxylase [Sourc protein_cc	16	74712955	74774831	-1	q23.1
ENSG00000067057	1.2566	2.3893	8.0085E-12	3.4662E-10	PFKP	phosphofructokinase, platelet protein_cc	10	3066333	3137712	1	p15.2
ENSG00000109689	1.2552	2.387	1.4291E-29	2.3461E-27	STIM2	stromal interaction molecule 2 protein_cc	4	26857678	27025381	1	p15.2
ENSG00000254560	1.2526	2.3827	0.0059	0.0335	BBOX1-AS1	BBOX1 antisense RNA 1 [Sourc antisense	11	27047186	27220113	-1	p14.1
ENSG00000165233	1.2504	2.3791	2.6533E-23	3.0439E-21	C9orf89	chromosome 9 open reading fi protein_cc	9	93096218	93113283	1	q22.31
ENSG00000181577	1.2472	2.3738	0.0079	0.0425	C6orf223	chromosome 6 open reading fi protein_cc	6	44000580	44005958	1	p21.1
ENSG00000240602	1.2469	2.3733	2.125E-09	6.5063E-08	AADACP1	arylacetamide deacetylase pse transcriber	3	1.52E+08	1.52E+08	1	q25.1
ENSG00000107518	1.2452	2.3704	0.0069	0.038	ATRNL1	attractin-like 1 [Source:HGNC ! protein_cc	10	1.15E+08	1.16E+08	1	q25.3
ENSG00000086696	1.2449	2.37	0.0005	0.0048	HSD17B2	hydroxysteroid (17-beta) dehy protein_cc	16	82035004	82098534	1	q23.3
ENSG00000211455	1.2435	2.3678	2.852E-15	1.8287E-13	STK38L	serine/threonine kinase 38 like protein_cc	12	27243968	27325959	1	p11.23
ENSG00000253368	1.2391	2.3605	0.0002	0.0021	TRNP1	TMF1-regulated nuclear protei protein_cc	1	26993707	27000898	1	p36.11
ENSG00000118515	1.2377	2.3583	1.9214E-16	1.3502E-14	SGK1	serum/glucocorticoid regulate protein_cc	6	1.34E+08	1.34E+08	-1	q23.2
ENSG00000136144	1.2333	2.351	5.6801E-10	1.9225E-08	RCBTB1	regulator of chromosome conc protein_cc	13	49531946	49585583	-1	q14.2
ENSG00000049130	1.2321	2.3491	2.2128E-13	1.1514E-11	KITLG	KIT ligand [Source:HGNC Symb protein_cc	12	88492793	88580851	-1	q21.32
ENSG00000204767	1.2319	2.3488	0.0087	0.0458	FAM196B	family with sequence similarity protein_cc	5	1.7E+08	1.7E+08	-1	q35.1
ENSG00000139324	1.231	2.3473	6.7975E-17	4.9789E-15	TMTC3	transmembrane and tetratrico protein_cc	12	88142296	88199887	1	q21.32
ENSG00000157303	1.2309	2.3472	0.0031	0.0201	SUSD3	sushi domain containing 3 [Sou protein_cc	9	93058688	93085138	1	q22.31

ENSG00000258414	1.2266	2.3402	0.0073	0.0398	RP11-35609.1	lincRNA	14	37564047	37579125	1	q21.1
ENSG00000138311	1.2255	2.3383	0.00005914	0.0007	ZNF365	zinc finger protein 365 [Source:protein_cc	10	62374192	62672011	1	q21.2
ENSG00000078725	1.2243	2.3364	7.7773E-06	0.0001	BRINP1	bone morphogenetic protein/r protein_cc	9	1.19E+08	1.19E+08	-1	q33.1
ENSG00000226887	1.2242	2.3362	0.00001167	0.0002	ERVMER34-1	endogenous retrovirus group I protein_cc	4	52722618	52751640	-1	q12
ENSG00000120053	1.2223	2.3332	4.4792E-39	1.3329E-36	GOT1	glutamic-oxaloacetic transamin protein_cc	10	99396870	99430624	-1	q24.2
ENSG00000148339	1.222	2.3327	6.2059E-30	1.0843E-27	SLC25A25	solute carrier family 25 (mitochondrion) protein_cc	9	1.28E+08	1.28E+08	1	q34.11
ENSG00000163931	1.2195	2.3287	2.6367E-38	7.4946E-36	TKT	transketolase [Source:HGNC Symbol] protein_cc	3	53224707	53256052	-1	p21.1
ENSG00000204839	1.2192	2.3282	0.0003	0.0025	MROH6	maestro heat-like repeat family protein_cc	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000179023	1.2179	2.3261	1.613E-08	4.2664E-07	KLHDC7A	kelch domain containing 7A [Source:protein_cc	1	18480982	18486126	1	p36.13
ENSG00000117115	1.2143	2.3203	3.9029E-05	0.0005	PADI2	peptidyl arginine deiminase, type 2 protein_cc	1	17066761	17119435	-1	p36.13
ENSG00000171302	1.2134	2.3188	3.0525E-23	3.4398E-21	CANT1	calcium activated nucleotidase protein_cc	17	78991717	79009867	-1	q25.3
ENSG00000171791	1.2104	2.314	2.6417E-11	1.075E-09	BCL2	B-cell CLL/lymphoma 2 [Source:protein_cc	18	63123346	63320128	-1	q21.33
ENSG00000158089	1.2072	2.3089	0.0009	0.0075	GALNT14	polypeptide N-acetylgalactosaminyltransferase 14 protein_cc	2	30910467	31155202	-1	p23.1
ENSG00000138772	1.2025	2.3013	6.9753E-10	2.3264E-08	ANXA3	annexin A3 [Source:HGNC Symbol] protein_cc	4	78551519	78610451	1	q21.21
ENSG00000026508	1.2022	2.3008	2.9868E-06	4.9461E-05	CD44	CD44 molecule (Indian blood group) protein_cc	11	35138870	35232402	1	p13
ENSG00000215861	1.1968	2.2923	0.0002	0.0023	WI2-1896O14.1	unprocessed	1	1.49E+08	1.49E+08	-1	q21.2
ENSG00000142273	1.1965	2.2919	2.2323E-09	6.7801E-08	CBLC	Cbl proto-oncogene C, E3 ubiquitin protein_cc	19	44777869	44800634	1	q13.32
ENSG00000174564	1.1959	2.2909	1.5568E-20	1.475E-18	IL20RB	interleukin 20 receptor beta [Source:protein_cc	3	1.37E+08	1.37E+08	1	q22.3
ENSG00000221887	1.194	2.2879	0.0077	0.0416	HMSD	histocompatibility (minor) serpin protein_cc	18	63949301	63981774	1	q22.1
ENSG00000169750	1.1912	2.2834	2.8326E-05	0.0004	RAC3	ras-related C3 botulinum toxin protein_cc	17	82031624	82034204	1	q25.3
ENSG00000106537	1.1909	2.283	2.6854E-10	9.488E-09	TSPAN13	tetraspanin 13 [Source:HGNC Symbol] protein_cc	7	16753535	16784536	1	p21.1
ENSG00000271503	1.1903	2.282	0.0044	0.0266	CCL5	chemokine (C-C motif) ligand 5 protein_cc	17	35871491	35880793	-1	q12
ENSG00000112902	1.1875	2.2776	1.0961E-18	9.196E-17	SEMA5A	sema domain, seven thrombospondin type 1 motif 5 protein_cc	5	9035026	9546075	-1	p15.31
ENSG00000107485	1.1875	2.2776	0.0003	0.0031	GATA3	GATA binding protein 3 [Source:protein_cc	10	8053604	8075198	1	p14
ENSG00000198759	1.1839	2.2719	0.0012	0.0095	EGFL6	EGF-like domain, multiple 6 [Source:protein_cc	13	569605	13633575	1	p22.2
ENSG00000158467	1.1824	2.2695	9.1309E-27	1.3173E-24	AHCYL2	adenosylhomocysteinase-like 2 protein_cc	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000101298	1.1771	2.2612	1.4508E-06	2.5968E-05	SNPH	syntrophin [Source:HGNC Symbol] protein_cc	20	1266316	1309328	1	p13
ENSG00000142156	1.1735	2.2556	0.0053	0.0309	COL6A1	collagen, type VI, alpha 1 [Source:protein_cc	21	45981737	46005050	1	q22.3
ENSG00000005243	1.1728	2.2545	1.0551E-09	3.4115E-08	COPZ2	coatamer protein complex, subunit 2 protein_cc	17	48026167	48038030	-1	q21.32
ENSG00000102265	1.1702	2.2505	1.0903E-09	3.5192E-08	TIMP1	TIMP metalloproteinase inhibitor 1 protein_cc	17	47582313	47586789	1	p11.3
ENSG00000162882	1.1684	2.2477	0.0013	0.0098	HAAO	3-hydroxyanthranilate 3,4-dioxygenase protein_cc	2	42767089	42792593	-1	p21
ENSG00000176390	1.1664	2.2445	2.2824E-19	2.003E-17	CRLF3	cytokine receptor-like factor 3 protein_cc	17	30769388	30824776	-1	q11.2
ENSG00000276116	1.1647	2.2418	0.0001	0.0014	FUT8-AS1	FUT8 antisense RNA 1 [Source:antisense	14	65411170	65412589	-1	q23.3
ENSG00000135643	1.1645	2.2415	0.0004	0.0041	KCNMB4	potassium large conductance calcium-activated channel subunit beta 4 protein_cc	12	70366276	70434292	1	q15
ENSG00000148803	1.1588	2.2327	3.2432E-08	8.0211E-07	FUOM	fructose 6-phosphate 1-phosphotransferase protein_cc	10	1.33E+08	1.33E+08	-1	q26.3
ENSG00000139323	1.1565	2.2292	6.6038E-21	6.4493E-19	POC1B	POC1 centriolar protein B [Source:protein_cc	12	89419718	89526024	-1	q21.33
ENSG00000151718	1.1557	2.228	3.4399E-15	2.162E-13	WWC2	WW and C2 domain containing protein_cc	4	1.83E+08	1.83E+08	1	q35.1
ENSG00000101187	1.1557	2.2279	0.0033	0.021	SLCO4A1	solute carrier organic anion transporter family 4 member A1 protein_cc	20	62642445	62685785	1	q13.33
ENSG00000135114	1.1523	2.2226	0.0011	0.0086	OASL	2'-5'-oligoadenylate synthetase protein_cc	12	1.21E+08	1.21E+08	-1	q24.31
ENSG00000140832	1.1519	2.2221	4.9329E-39	1.4453E-36	MARVELD3	MARVEL domain containing 3 [Source:protein_cc	16	71626161	71642114	1	q22.2
ENSG00000131876	1.1518	2.222	1.8211E-46	8.4587E-44	SNRPA1	small nuclear ribonucleoprotein A1 protein_cc	15	1.01E+08	1.01E+08	-1	q26.3

ENSG00000140835	1.1515	2.2215	9.6825E-08	2.2297E-06	CHST4	carbohydrate (N-acetylglucosa protein_cc	16	71525233	71538746	1	q22.2
ENSG00000135046	1.1504	2.2197	1.7985E-10	6.4992E-09	ANXA1	annexin A1 [Source:HGNC Sym protein_cc	9	73151757	73170393	1	q21.13
ENSG00000140391	1.1481	2.2161	3.8964E-40	1.2164E-37	TSPAN3	tetraspanin 3 [Source:HGNC Sy protein_cc	15	77041404	77083984	-1	q24.3
ENSG00000092421	1.1459	2.2128	4.8648E-06	7.6948E-05	SEMA6A	sema domain, transmembrane protein_cc	5	1.16E+08	1.17E+08	-1	q23.1
ENSG00000138193	1.1452	2.2118	0.0002	0.0024	PLCE1	phospholipase C, epsilon 1 [So protein_cc	10	93993989	94332823	1	q23.33
ENSG00000196511	1.144	2.2099	8.1729E-12	3.5294E-10	TPK1	thiamin pyrophosphokinase 1   protein_cc	7	1.44E+08	1.45E+08	-1	q35
ENSG00000135324	1.143	2.2084	0.0007	0.006	MRAP2	melanocortin 2 receptor acces protein_cc	6	84033756	84090881	1	q14.2
ENSG00000178826	1.1422	2.2072	4.9049E-05	0.0006	TMEM139	transmembrane protein 139 [S protein_cc	7	1.43E+08	1.43E+08	1	q34
ENSG00000274605	1.1418	2.2066	9.6559E-13	4.6554E-11	RP11-12G12.7	lincRNA	13	1E+08	1E+08	-1	q32.3
ENSG00000128510	1.1376	2.2001	1.1571E-05	0.0002	CPA4	carboxypeptidase A4 [Source:F protein_cc	7	1.3E+08	1.3E+08	1	q32.2
ENSG00000181754	1.1373	2.1997	1.0626E-07	2.441E-06	AMIGO1	adhesion molecule with Ig-like protein_cc	1	1.1E+08	1.1E+08	-1	p13.3
ENSG00000100196	1.1361	2.1978	1.3423E-07	3.018E-06	KDEL3	KDEL (Lys-Asp-Glu-Leu) endopl protein_cc	22	38468062	38483447	1	q13.1
ENSG00000243629	1.1351	2.1963	0.0045	0.0272	LINC00880	long intergenic non-protein co lincRNA	3	1.57E+08	1.57E+08	-1	q25.31
ENSG00000251152	1.134	2.1947	1.1479E-07	2.6306E-06	RP11-281P23.1	lincRNA	4	11469250	11478196	1	p15.33
ENSG00000081026	1.133	2.1931	1.1734E-14	6.9614E-13	MAGI3	membrane associated guanyla protein_cc	1	1.13E+08	1.14E+08	1	p13.2
ENSG00000146859	1.131	2.1902	9.5044E-11	3.57E-09	TMEM140	transmembrane protein 140 [S protein_cc	7	1.35E+08	1.35E+08	1	q33
ENSG00000174485	1.1309	2.19	3.3299E-37	8.9316E-35	DENND4A	DENN/MADD domain containii protein_cc	15	65658046	65792293	-1	q22.31
ENSG00000169738	1.1307	2.1897	4.21E-24	5.0425E-22	DCXR	dicarbonyl/L-xylulose reductas protein_cc	17	82035136	82037732	-1	q25.3
ENSG00000118257	1.127	2.184	8.5732E-11	3.2394E-09	NRP2	neuropilin 2 [Source:HGNC Syr protein_cc	2	2.06E+08	2.06E+08	1	q33.3
ENSG00000173391	1.1252	2.1814	0.0021	0.0146	OLR1	oxidized low density lipoprotei protein_cc	12	10158301	10172138	-1	p13.2
ENSG00000120833	1.1237	2.179	6.1934E-14	3.4287E-12	SOCS2	suppressor of cytokine signalin protein_cc	12	93569814	93583487	1	q22
ENSG00000134262	1.1199	2.1734	5.9474E-19	5.0563E-17	AP4B1	adaptor-related protein compl protein_cc	1	1.14E+08	1.14E+08	-1	p13.2
ENSG00000117318	1.1192	2.1722	3.3354E-08	8.2279E-07	ID3	inhibitor of DNA binding 3, dor protein_cc	1	23557918	23559794	-1	p36.12
ENSG00000244479	1.1182	2.1707	7.3576E-06	0.0001	OR2A1-AS1	OR2A1 antisense RNA 1 [Sourc antisense	7	1.44E+08	1.44E+08	-1	q35
ENSG00000110171	1.1164	2.168	2.8874E-13	1.4862E-11	TRIM3	tripartite motif containing 3 [S protein_cc	11	6448613	6474459	-1	p15.4
ENSG00000187123	1.1145	2.1652	0.0005	0.0044	LYPD6	LY6/PLAUR domain containing protein_cc	2	1.49E+08	1.49E+08	1	q23.2
ENSG00000125037	1.1143	2.1649	1.5885E-22	1.6713E-20	EMC3	ER membrane protein complex protein_cc	3	9962537	10011116	-1	p25.3
ENSG00000136717	1.1131	2.1631	2.9819E-12	1.3489E-10	BIN1	bridging integrator 1 [Source:F protein_cc	2	1.27E+08	1.27E+08	-1	q14.3
ENSG00000260461	1.1128	2.1626	1.8196E-08	4.734E-07	RP11-541N10.3	sense_ove	10	1.04E+08	1.04E+08	-1	q24.33
ENSG00000130475	1.1126	2.1624	0.007	0.0385	FCHO1	FCH domain only 1 [Source:HG protein_cc	19	17747718	17788568	1	p13.11
ENSG00000123610	1.1122	2.1617	0.0062	0.0349	TNFAIP6	tumor necrosis factor, alpha-in protein_cc	2	1.51E+08	1.51E+08	1	q23.3
ENSG00000166126	1.1102	2.1587	4.1176E-12	1.8279E-10	AMN	amnion associated transmemb protein_cc	14	1.03E+08	1.03E+08	1	q32.32
ENSG00000127528	1.11	2.1584	0.0009	0.0073	KLF2	Kruppel-like factor 2 [Source:H protein_cc	19	16324817	16327874	1	p13.11
ENSG00000160209	1.1082	2.1557	9.2279E-18	7.0577E-16	PDXK	pyridoxal (pyridoxine, vitamin protein_cc	21	43719094	43762307	1	q22.3
ENSG00000123843	1.1061	2.1527	0.0023	0.0157	C4BPB	complement component 4 bin protein_cc	1	2.07E+08	2.07E+08	1	q32.1
ENSG00000133019	1.106	2.1524	0.0031	0.02	CHRM3	cholinergic receptor, muscarin protein_cc	1	2.39E+08	2.4E+08	1	q43
ENSG00000057149	1.1056	2.1519	0.0021	0.0144	SERPINB3	serpin peptidase inhibitor, clac protein_cc	18	63637719	63661963	-1	q21.33
ENSG00000165949	1.1052	2.1513	2.203E-06	3.7661E-05	IFI27	interferon, alpha-inducible pro protein_cc	14	94104836	94116698	1	q32.12
ENSG00000005059	1.1038	2.1491	6.2993E-09	1.7772E-07	CCDC109B	coiled-coil domain containing : protein_cc	4	1.1E+08	1.1E+08	1	q25
ENSG00000164975	1.1036	2.149	1.2156E-39	3.7224E-37	SNAPC3	small nuclear RNA activating cc protein_cc	9	15422704	15465953	1	p22.3
ENSG00000254231	1.103	2.1481	0.0037	0.0231	CTD-2284J15.1	processed_	8	86333274	86343314	-1	q21.3

ENSG00000155918	1.099	2.142	0.006	0.0342	RAET1L	retinoic acid early transcript 1l protein_cc	6	1.5E+08	1.5E+08	-1	q25.1
ENSG00000261618	1.0971	2.1393	0.0027	0.0181	RP11-79H23.3	lincRNA	8	78837529	78840522	1	q21.13
ENSG00000268220	1.0927	2.1327	0.0067	0.0373	RP11-379K17.12	antisense	3	1.7E+08	1.7E+08	1	q26.2
ENSG00000185344	1.0922	2.132	1.3492E-36	3.426E-34	ATP6V0A2	ATPase, H+ transporting, lysosomal protein_cc	12	1.24E+08	1.24E+08	1	q24.31
ENSG00000137857	1.0909	2.13	1.5527E-05	0.0002	DUOX1	dual oxidase 1 [Source:HGNC Symbol] protein_cc	15	45129933	45165576	1	q21.1
ENSG00000146021	1.0901	2.1289	3.1394E-06	5.1786E-05	KLHL3	kelch-like family member 3 [Sc] protein_cc	5	1.38E+08	1.38E+08	-1	q31.2
ENSG00000171357	1.088	2.1258	3.5015E-05	0.0004	LURAP1	leucine rich adaptor protein 1 [protein_cc	1	46203334	46221261	1	p34.1
ENSG00000111860	1.0843	2.1204	1.9004E-08	4.9306E-07	CEP85L	centrosomal protein 85kDa-like protein_cc	6	1.18E+08	1.19E+08	-1	q22.31
ENSG00000162366	1.0777	2.1106	2.6523E-06	4.4581E-05	PDZK1IP1	PDZK1 interacting protein 1 [Sc] protein_cc	1	47183593	47191044	-1	p33
ENSG00000253882	1.0771	2.1098	0.001	0.0081	RP11-61L23.2	transcriber	7	1.44E+08	1.44E+08	-1	q35
ENSG00000035403	1.0761	2.1084	4.0274E-10	1.3819E-08	VCL	vinculin [Source:HGNC Symbol] protein_cc	10	73995193	74121363	1	q22.2
ENSG00000074054	1.0761	2.1083	1.6605E-08	4.3739E-07	CLASP1	cytoplasmic linker associated protein protein_cc	2	1.21E+08	1.22E+08	-1	q14.3
ENSG00000008838	1.0749	2.1066	6.3844E-15	3.8845E-13	MED24	mediator complex subunit 24 [protein_cc	17	40019097	40061215	-1	q21.1
ENSG00000127838	1.0743	2.1058	1.8964E-09	5.8439E-08	PNKD	paroxysmal nonkinesigenic dysplasia protein_cc	2	2.18E+08	2.18E+08	1	q35
ENSG00000076716	1.0733	2.1042	1.7758E-05	0.0002	GPC4	glypican 4 [Source:HGNC Symbol] protein_ccX		1.33E+08	1.33E+08	-1	q26.2
ENSG00000168615	1.0723	2.1027	6.7589E-07	1.3161E-05	ADAM9	ADAM metalloproteinase domain protein_cc	8	38996869	39105144	1	p11.22
ENSG00000107201	1.0615	2.087	3.8207E-10	1.3158E-08	DDX58	DEAD (Asp-Glu-Ala-Asp) box protein_cc	9	32455705	32526324	-1	p21.1
ENSG00000254535	1.0607	2.0859	0.0089	0.0466	PABPC4L	poly(A) binding protein, cytoplasmic protein_cc	4	1.34E+08	1.34E+08	-1	q28.3
ENSG00000050327	1.0561	2.0793	4.5789E-18	3.5592E-16	ARHGEF5	Rho guanine nucleotide exchange factor protein_cc	7	1.44E+08	1.44E+08	1	q35
ENSG00000128594	1.0509	2.0718	4.882E-09	1.4023E-07	LRRC4	leucine rich repeat containing protein_cc	7	1.28E+08	1.28E+08	-1	q32.1
ENSG00000158055	1.0505	2.0712	0.0006	0.005	GRHL3	grainyhead-like 3 (Drosophila) protein_cc	1	24319322	24364482	1	p36.11
ENSG00000135218	1.0485	2.0684	2.2944E-05	0.0003	CD36	CD36 molecule (thrombospondin receptor) protein_cc	7	80369575	80679277	1	q21.11
ENSG00000105974	1.046	2.0648	1.1941E-05	0.0002	CAV1	caveolin 1, caveolae protein, 2 protein_cc	7	1.17E+08	1.17E+08	1	q31.2
ENSG00000110777	1.0452	2.0636	2.5812E-06	4.3462E-05	POU2AF1	POU class 2 associating factor 1 protein_cc	11	1.11E+08	1.11E+08	-1	q23.1
ENSG00000156671	1.0439	2.0618	1.1952E-30	2.1502E-28	SAMD8	sterile alpha motif domain containing protein_cc	10	75099586	75182123	1	q22.2
ENSG00000172345	1.0433	2.061	7.3488E-14	4.0101E-12	STARD5	StAR-related lipid transfer (STAR) protein_cc	15	81309053	81324183	-1	q25.1
ENSG00000196639	1.0365	2.0512	9.9666E-27	1.4271E-24	HRH1	histamine receptor H1 [Source:HGNC Symbol] protein_cc	3	11137093	11263557	1	p25.3
ENSG00000099337	1.0361	2.0506	1.696E-20	1.5989E-18	KCNK6	potassium channel, subfamily J protein_cc	19	38319844	38329020	1	q13.2
ENSG00000198948	1.0338	2.0473	1.1786E-08	3.1837E-07	MFAP3L	microfibrillar-associated protein 3 protein_cc	4	1.7E+08	1.7E+08	-1	q33
ENSG00000186314	1.0335	2.047	3.2928E-05	0.0004	PRELID2	PRELI domain containing 2 [Source:HGNC Symbol] protein_cc	5	1.45E+08	1.46E+08	-1	q32
ENSG00000099194	1.0332	2.0466	1.2042E-23	1.4156E-21	SCD	stearoyl-CoA desaturase (delta) protein_cc	10	1E+08	1E+08	1	q24.31
ENSG00000116701	1.0328	2.0459	2.0777E-07	4.5375E-06	NCF2	neutrophil cytosolic factor 2 [Source:HGNC Symbol] protein_cc	1	1.84E+08	1.84E+08	-1	q25.3
ENSG00000107968	1.0321	2.0449	2.9479E-12	1.3367E-10	MAP3K8	mitogen-activated protein kinase 8 protein_cc	10	30433937	30461833	1	p11.23
ENSG00000141198	1.0319	2.0447	2.3644E-21	2.3699E-19	TOM1L1	target of myb1 (chicken)-like 1 protein_cc	17	54899387	54961956	1	q22
ENSG00000181513	1.0294	2.0412	7.1342E-09	1.9951E-07	ACBD4	acyl-CoA binding domain containing protein_cc	17	45132600	45144181	1	q21.31
ENSG00000182010	1.0251	2.0351	1.4165E-05	0.0002	RTKN2	rhotekin 2 [Source:HGNC Symbol] protein_cc	10	62183035	62268707	-1	q21.2
ENSG00000188959	1.025	2.035	6.1927E-07	1.2196E-05	C9orf152	chromosome 9 open reading frame 152 protein_cc	9	1.1E+08	1.1E+08	-1	q31.3
ENSG00000146707	1.0249	2.0348	3.5955E-06	5.8674E-05	POMZP3	POM121 and ZP3 fusion [Source:HGNC Symbol] protein_cc	7	76609986	76627261	-1	q11.23
ENSG00000148180	1.0212	2.0296	7.5605E-10	2.4957E-08	GSN	gelsolin [Source:HGNC Symbol] protein_cc	9	1.21E+08	1.21E+08	1	q33.2
ENSG00000033170	1.0206	2.0288	1.0789E-10	4.0052E-09	FUT8	fucosyltransferase 8 (alpha (1,4)-N-acetylglucosaminyl) protein_cc	14	65410592	65744121	1	q23.3
ENSG00000156463	1.018	2.0251	3.8862E-07	7.9923E-06	SH3RF2	SH3 domain containing ring finger protein_cc	5	1.46E+08	1.46E+08	1	q32



ENSG00000150787	1.0153	2.0213	1.5903E-13	8.3894E-12	PTS	6-pyruvoyltetrahydropterin synthase protein_cc	11	1.12E+08	1.12E+08	1	q23.1
ENSG00000018408	1.0146	2.0204	6.9683E-11	2.6594E-09	WWTR1	WW domain containing transcription factor protein_cc	3	1.5E+08	1.5E+08	-1	q25.1
ENSG00000167601	1.0125	2.0173	0.002	0.0141	AXL	AXL receptor tyrosine kinase [Source:HGNC] protein_cc	19	41219203	41261766	1	q13.2
ENSG00000164574	1.012	2.0166	0.0003	0.0029	GALNT10	polypeptide N-acetylgalactosyltransferase protein_cc	5	1.54E+08	1.54E+08	1	q33.2
ENSG00000065613	1.0103	2.0143	3.2827E-18	2.594E-16	SLK	STE20-like kinase [Source:HGNC] protein_cc	10	1.04E+08	1.04E+08	1	q24.33
ENSG00000163694	1.0091	2.0127	1.6948E-18	1.3973E-16	RBM47	RNA binding motif protein 47 [Source:HGNC] protein_cc	4	40423267	40630875	-1	p14
ENSG00000215548	1.0058	2.0081	0.0059	0.0336	RP11-764K9.4	unprocessed primary transcript protein_cc	9	63832127	63859641	-1	q13
ENSG00000268913	1.0047	2.0066	3.8749E-07	7.9776E-06	AC026806.2	lincRNA	19	38331634	38332076	1	q13.2
ENSG00000111012	1.0048	2.0066	0.0001	0.0016	CYP27B1	cytochrome P450, family 27, subfamily B, polypeptide 1 protein_cc	12	57762334	57768986	-1	q14.1
ENSG00000148700	1.0041	2.0057	3.1015E-29	4.9634E-27	ADD3	adducin 3 (gamma) [Source:HGNC] protein_cc	10	1.1E+08	1.1E+08	1	q25.1
ENSG00000147697	1.0011	2.0016	1.9691E-10	7.1022E-09	GSDMC	gasdermin C [Source:HGNC] protein_cc	8	1.3E+08	1.3E+08	-1	q24.21
ENSG00000176273	1.0011	2.0015	1.5665E-06	2.7855E-05	SLC35G1	solute carrier family 35, member 1 protein_cc	10	93893973	93956062	1	q23.33
ENSG00000005007	1.0009	2.0012	2.545E-15	1.6485E-13	UPF1	UPF1 regulator of nonsense transcripts protein_cc	19	18831938	18868236	1	p13.11
ENSG00000183580	1.0008	2.0011	1.5732E-08	4.1727E-07	FBXL7	F-box and leucine-rich repeat protein 7 protein_cc	5	15500196	15939795	1	p15.1
ENSG00000153815	0.9981	1.9973	1.0737E-14	6.39E-13	CMIP	c-Maf inducing protein [Source:HGNC] protein_cc	16	81445170	81711762	1	q23.2
ENSG00000223387	0.9979	1.9971	0.0097	0.0494	RP11-408H1.3	lincRNA	3	1.73E+08	1.73E+08	-1	q26.31
ENSG00000133477	0.9958	1.9943	9.2271E-13	4.4713E-11	FAM83F	family with sequence similarity 83 protein_cc	22	39994949	40043529	1	q13.1
ENSG00000133106	0.9952	1.9934	4.8058E-05	0.0006	EPSTI1	epithelial stromal interaction 1 protein_cc	13	42886388	42992271	-1	q14.11
ENSG00000235823	0.995	1.9931	0.0001	0.0013	LINC00263	long intergenic non-protein coding RNA 263 lincRNA	10	1E+08	1E+08	1	q24.31
ENSG00000131981	0.9941	1.9918	1.2774E-06	2.3234E-05	LGALS3	lectin, galactoside-binding, soluble 3 protein_cc	14	55124110	55145413	1	q22.3
ENSG00000108852	0.9929	1.9902	0.0007	0.0061	MPP2	membrane protein, palmitoylated 2 protein_cc	17	43875357	43909711	-1	q21.31
ENSG00000260339	0.9926	1.9898	0.0001	0.0013	HEXA-AS1	HEXA antisense RNA 1 [Source:antisense] protein_cc	15	72376113	72378788	1	q23
ENSG00000135045	0.9919	1.9888	6.1966E-05	0.0007	C9orf40	chromosome 9 open reading frame 40 protein_cc	9	74946581	74952886	-1	q21.13
ENSG00000186480	0.9913	1.988	2.1407E-09	6.5332E-08	INSIG1	insulin induced gene 1 [Source:HGNC] protein_cc	7	1.55E+08	1.55E+08	1	q36.3
ENSG00000147642	0.9907	1.9872	1.1449E-06	2.1046E-05	SYBU	syntabulin (syntaxin-interacting protein 1) protein_cc	8	1.1E+08	1.1E+08	-1	q23.2
ENSG00000104154	0.9903	1.9866	0.0016	0.0117	SLC30A4	solute carrier family 30 (zinc transporter) protein_cc	15	45479611	45522807	-1	q21.1
ENSG00000179241	0.9889	1.9847	6.0569E-06	9.3324E-05	LDLRAD3	low density lipoprotein receptor domain containing protein_cc	11	35943981	36232136	1	p13
ENSG00000099250	0.9848	1.979	4.4549E-05	0.0005	NRP1	neuropilin 1 [Source:HGNC] protein_cc	10	33177492	33336262	-1	p11.22
ENSG00000237943	0.9837	1.9775	8.9222E-05	0.001	PRKCQ-AS1	PRKCQ antisense RNA 1 [Source:antisense] protein_cc	10	6580419	6616452	1	p15.1
ENSG00000198743	0.9836	1.9774	1.453E-16	1.0325E-14	SLC5A3	solute carrier family 5 (sodium dependent) protein_cc	21	34073570	34106260	1	q22.11
ENSG00000182768	0.9836	1.9773	1.8427E-18	1.5061E-16	NGRN	neugrin, neurite outgrowth associated protein 1 protein_cc	15	90265659	90278141	1	q26.1
ENSG00000114378	0.9829	1.9765	0.0013	0.0099	HYAL1	hyaluronoglucosaminidase 1 [Source:HGNC] protein_cc	3	50299889	50312381	-1	p21.31
ENSG00000183208	0.9824	1.9757	1.198E-10	4.4131E-09	GDPGP1	GDP-D-glucose phosphorylase protein_cc	15	90233808	90245811	1	q26.1
ENSG00000184408	0.9821	1.9754	0.0089	0.0465	KCND2	potassium voltage-gated channel domain containing 2 protein_cc	7	1.2E+08	1.21E+08	1	q31.31
ENSG00000173890	0.9818	1.9749	1.374E-09	4.383E-08	GPR160	G protein-coupled receptor 16 protein_cc	3	1.7E+08	1.7E+08	1	q26.2
ENSG00000184988	0.9811	1.9739	0.0022	0.015	TMEM106A	transmembrane protein 106A protein_cc	17	43211835	43220041	1	q21.31
ENSG00000271447	0.9805	1.9732	1.1942E-09	3.8286E-08	MMP28	matrix metalloproteinase 28 [Source:HGNC] protein_cc	17	35756249	35795707	-1	q12
ENSG00000128591	0.9793	1.9715	0.0003	0.0029	FLNC	filamin C, gamma [Source:HGNC] protein_cc	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000069869	0.9784	1.9702	4.4304E-09	1.2803E-07	NEDD4	neural precursor cell expressed, developmentally downregulated 4 protein_cc	15	55826922	55993746	-1	q21.3
ENSG00000143153	0.9781	1.9698	5.0507E-09	1.4442E-07	ATP1B1	ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, plasma membrane 1 protein_cc	1	1.69E+08	1.69E+08	1	q24.2
ENSG00000099256	0.9749	1.9656	1.9316E-07	4.2429E-06	PRTFDC1	phosphoribosyl transferase domain containing 1 protein_cc	10	24848607	24952604	-1	p12.1

ENSG00000166598	0.9746	1.9651	1.1379E-12	5.4176E-11	HSP90B1	heat shock protein 90kDa beta protein_cc	12	1.04E+08	1.04E+08	1	q23.3
ENSG00000160886	0.973	1.9629	0.0051	0.0303	LY6K	lymphocyte antigen 6 complex protein_cc	8	1.43E+08	1.43E+08	1	q24.3
ENSG00000157827	0.9727	1.9626	3.6011E-13	1.8288E-11	FMNL2	formin-like 2 [Source:HGNC Sy protein_cc	2	1.52E+08	1.53E+08	1	q23.3
ENSG00000172183	0.9696	1.9583	8.7443E-13	4.2481E-11	ISG20	interferon stimulated exonucle protein_cc	15	88636153	88656483	1	q26.1
ENSG00000197147	0.9692	1.9577	1.425E-31	2.7977E-29	LRRC8B	leucine rich repeat containing protein_cc	1	89524836	89597864	1	p22.2
ENSG00000164597	0.9685	1.9568	3.6651E-20	3.3719E-18	COG5	component of oligomeric golgi protein_cc	7	1.07E+08	1.08E+08	-1	q22.3
ENSG00000080824	0.9658	1.9532	4.3047E-07	8.785E-06	HSP90AA1	heat shock protein 90kDa alph protein_cc	14	1.02E+08	1.02E+08	-1	q32.31
ENSG00000111859	0.9657	1.953	0.0011	0.0086	NEDD9	neural precursor cell expresser protein_cc	6	11183298	11382348	-1	p24.2
ENSG00000101445	0.9651	1.9521	0.0007	0.0057	PPP1R16B	protein phosphatase 1, regulat protein_cc	20	38805705	38923024	1	q11.23
ENSG00000135148	0.9645	1.9513	4.1589E-37	1.1E-34	TRAFD1	TRAF-type zinc finger domain c protein_cc	12	1.12E+08	1.12E+08	1	q24.13
ENSG00000155380	0.9639	1.9506	0.0005	0.0044	SLC16A1	solute carrier family 16 (mono protein_cc	1	1.13E+08	1.13E+08	-1	p13.2
ENSG00000005486	0.9625	1.9487	3.6564E-14	2.0786E-12	RHBDD2	rhomboid domain containing 2 protein_cc	7	75842602	75888926	1	q11.23
ENSG00000065600	0.9625	1.9487	4.8528E-07	0.0000979	TMEM206	transmembrane protein 206 [S protein_cc	1	2.12E+08	2.12E+08	-1	q32.3
ENSG00000114166	0.9616	1.9475	1.024E-10	3.8088E-09	KAT2B	K(lysine) acetyltransferase 2B [protein_cc	3	20040023	20154404	1	q24.3
ENSG00000118242	0.9614	1.9472	8.2136E-11	3.1159E-09	MREG	melanoregulin [Source:HGNC S protein_cc	2	2.16E+08	2.16E+08	-1	q35
ENSG00000122035	0.9613	1.947	2.4007E-06	4.0638E-05	RASL11A	RAS-like, family 11, member A protein_cc	13	27270327	27273690	1	q12.2
ENSG00000138495	0.9609	1.9465	4.369E-12	1.935E-10	COX17	COX17 cytochrome c oxidase c protein_cc	3	1.2E+08	1.2E+08	-1	q13.33
ENSG00000115350	0.9606	1.9462	7.7958E-12	3.3818E-10	POLE4	polymerase (DNA-directed), e protein_cc	2	74958492	74970128	1	p12
ENSG00000156026	0.9598	1.945	2.5697E-41	8.739E-39	MCU	mitochondrial calcium uniport protein_cc	10	72692131	72887694	1	q22.1
ENSG00000117036	0.9597	1.9449	1.1968E-30	2.1502E-28	ETV3	ets variant 3 [Source:HGNC Sy protein_cc	1	1.57E+08	1.57E+08	-1	q23.1
ENSG00000276045	0.9571	1.9414	2.3957E-08	6.0752E-07	ORAI1	ORAI calcium release-activatec protein_cc	12	1.22E+08	1.22E+08	1	q24.31
ENSG00000262580	0.9567	1.9409	0.0043	0.0264	RP11-334C17.5	antisense	17	80200673	80205949	-1	q25.3
ENSG00000115267	0.9564	1.9405	4.2591E-09	1.2364E-07	IFIH1	interferon induced with helica: protein_cc	2	1.62E+08	1.62E+08	-1	q24.2
ENSG00000103316	0.9557	1.9395	3.5849E-06	5.8552E-05	CRYM	crystallin, mu [Source:HGNC Sy protein_cc	16	21238874	21303083	-1	p12.2
ENSG00000179528	0.9538	1.9369	0.003	0.0194	LBX2	ladybird homeobox 2 [Source: protein_cc	2	74497517	74503316	-1	p13.1
ENSG00000115286	0.9516	1.934	3.1719E-24	3.8232E-22	NDUFS7	NADH dehydrogenase (ubiquir protein_cc	19	1383527	1395589	1	p13.3
ENSG00000027075	0.9501	1.9321	8.4174E-10	2.7556E-08	PRKCH	protein kinase C, eta [Source:H protein_cc	14	61187559	61550976	1	q23.1
ENSG00000184012	0.9502	1.9321	5.3296E-08	1.2815E-06	TMPRSS2	transmembrane protease, seri protein_cc	21	41464551	41531116	-1	q22.3
ENSG00000213214	0.9497	1.9315	2.9655E-07	6.2404E-06	ARHGEF35	Rho guanine nucleotide exchar protein_cc	7	1.44E+08	1.44E+08	-1	q35
ENSG00000104497	0.9487	1.9302	2.9292E-09	8.7027E-08	SNX16	sorting nexin 16 [Source:HGNC protein_cc	8	81799581	81842866	-1	q21.13
ENSG00000164808	0.9476	1.9286	5.5606E-15	3.4101E-13	SPIDR	scaffolding protein involved in protein_cc	8	47260575	47736306	1	q11.21
ENSG00000114738	0.9456	1.926	5.234E-14	2.9145E-12	MAPKAPK3	mitogen-activated protein kin protein_cc	3	50611520	50649297	1	p21.2
ENSG00000205707	0.9442	1.9241	4.2462E-10	1.4518E-08	LYRM5	LYR motif containing 5 [Source protein_cc	12	25195216	25209645	1	p12.1
ENSG00000137145	0.9417	1.9208	4.6154E-21	4.5542E-19	DENND4C	DENN/MADD domain containii protein_cc	9	19230435	19373545	1	p22.1
ENSG00000075790	0.9405	1.9193	9.4935E-08	2.1888E-06	BCAP29	B-cell receptor-associated prot protein_cc	7	1.08E+08	1.08E+08	1	q22.3
ENSG00000136810	0.94	1.9186	2.6424E-07	5.635E-06	TXN	thioredoxin [Source:HGNC Sym protein_cc	9	1.1E+08	1.1E+08	-1	q31.3
ENSG00000135540	0.9393	1.9176	1.9263E-08	4.9843E-07	NHSL1	NHS-like 1 [Source:HGNC Sym protein_cc	6	1.38E+08	1.39E+08	-1	q24.1
ENSG00000116663	0.936	1.9132	1.0366E-06	1.9317E-05	FBXO6	F-box protein 6 [Source:HGNC protein_cc	1	11664124	11674354	1	p36.22
ENSG00000175164	0.9341	1.9107	0.0035	0.0224	ABO	ABO blood group (transferase. protein_cc	9	1.33E+08	1.33E+08	-1	q34.2
ENSG00000001561	0.9333	1.9097	5.943E-06	0.00009191	ENPP4	ectonucleotide pyrophosphata protein_cc	6	46129993	46146699	1	p21.1
ENSG00000137198	0.9327	1.9089	0.0002	0.0024	GMPR	guanosine monophosphate rec protein_cc	6	16238580	16295549	1	p22.3

ENSG00000185513	0.9324	1.9085	5.7442E-05	0.0007	L3MBTL1	l(3)mbt-like 1 (Drosophila) [Soi protein_cc	20	43507680	43550950	1	q13.12
ENSG00000167207	0.932	1.9079	6.4178E-05	0.0007	NOD2	nucleotide-binding oligomeriz protein_cc	16	50693603	50733077	1	q12.1
ENSG00000160752	0.9306	1.906	4.1495E-25	5.1989E-23	FDP5	farnesyl diphosphate synthase protein_cc	1	1.55E+08	1.55E+08	1	q22
ENSG00000188820	0.9273	1.9017	0.0008	0.0067	FAM26F	family with sequence similarity protein_cc	6	1.16E+08	1.16E+08	1	q22.1
ENSG00000179403	0.9268	1.901	2.4256E-10	8.6502E-09	VWA1	von Willebrand factor A domai protein_cc	1	1434861	1442882	1	p36.33
ENSG00000177707	0.9266	1.9008	0.0008	0.0064	PVRL3	poliovirus receptor-related 3 [ protein_cc	3	1.11E+08	1.11E+08	1	q13.13
ENSG00000080493	0.925	1.8987	0.0009	0.0072	SLC4A4	solute carrier family 4 (sodium protein_cc	4	71187286	71572087	1	q13.3
ENSG00000111700	0.9246	1.8982	0.0051	0.03	SLCO1B3	solute carrier organic anion tra protein_cc	12	20810702	20916911	1	p12.2
ENSG00000100342	0.924	1.8974	2.8056E-09	8.3616E-08	APOL1	apolipoprotein L, 1 [Source:HG protein_cc	22	36253010	36267530	1	q12.3
ENSG00000153721	0.9234	1.8966	4.687E-09	1.3483E-07	CNKSR3	CNKSR family member 3 [Sour protein_cc	6	1.54E+08	1.55E+08	-1	q25.2
ENSG00000174514	0.9207	1.893	0.0003	0.0027	MFSD4	major facilitator superfamily d protein_cc	1	2.06E+08	2.06E+08	1	q32.1
ENSG00000057657	0.9203	1.8925	8.1488E-07	1.5565E-05	PRDM1	PR domain containing 1, with 2 protein_cc	6	1.06E+08	1.06E+08	1	q21
ENSG00000123358	0.9183	1.8899	1.7614E-05	0.0002	NR4A1	nuclear receptor subfamily 4, ̑ protein_cc	12	52022832	52059507	1	q13.13
ENSG00000136478	0.9177	1.8892	5.4616E-28	8.3879E-26	TEX2	testis expressed 2 [Source:HG protein_cc	17	64147227	64263301	-1	q23.3
ENSG00000136044	0.9168	1.888	0.0002	0.0019	APPL2	adaptor protein, phosphotyros protein_cc	12	1.05E+08	1.05E+08	-1	q23.3
ENSG00000154645	0.9158	1.8867	0.0001	0.0015	CHODL	chondrolectin [Source:HGNC S protein_cc	21	17901263	18267373	1	q21.1
ENSG00000114854	0.9154	1.8862	0.0062	0.0349	TNNC1	troponin C type 1 (slow) [Sour protein_cc	3	52451102	52454070	-1	p21.1
ENSG00000196562	0.914	1.8842	0.0005	0.0045	SULF2	sulfatase 2 [Source:HGNC Sym protein_cc	20	47656348	47786616	-1	q13.12
ENSG00000185745	0.9133	1.8834	0.0068	0.0376	IFIT1	interferon-induced protein wit protein_cc	10	89392546	89406486	1	q23.31
ENSG00000129538	0.9108	1.8801	0.003	0.0199	RNASE1	ribonuclease, RNase A family, ; protein_cc	14	20801228	20803278	-1	q11.2
ENSG00000154822	0.9087	1.8774	0.0017	0.0122	PLCL2	phospholipase C-like 2 [Source protein_cc	3	16802651	17090594	1	p24.3
ENSG00000064651	0.9083	1.8769	1.3847E-05	0.0002	SLC12A2	solute carrier family 12 (sodiur protein_cc	5	1.28E+08	1.28E+08	1	q23.3
ENSG00000088543	0.9081	1.8766	0.0004	0.0041	C3orf18	chromosome 3 open reading fi protein_cc	3	50558025	50571027	-1	p21.31
ENSG00000109971	0.9072	1.8755	1.7052E-14	9.9919E-13	HSPA8	heat shock 70kDa protein 8 [Sc protein_cc	11	1.23E+08	1.23E+08	-1	q24.1
ENSG00000105619	0.9059	1.8737	4.0085E-08	9.7743E-07	TFPT	TCF3 (E2A) fusion partner (in c protein_cc	19	54107013	54115675	-1	q13.42
ENSG00000204060	0.9046	1.8721	0.0071	0.039	FOXO6	forkhead box O6 [Source:HGN protein_cc	1	41361922	41383590	1	p34.2
ENSG00000204175	0.9041	1.8714	0.0032	0.0204	GPRIN2	G protein regulated inducer of protein_cc	10	46549044	46555530	-1	q11.22
ENSG00000177731	0.9017	1.8683	5.7153E-11	2.1988E-09	FLII	flightless I homolog (Drosophil protein_cc	17	18244836	18258916	-1	p11.2
ENSG00000107036	0.9006	1.8668	1.755E-12	8.1519E-11	RIC1	RAB6A GEF complex partner 1 protein_cc	9	5629025	5776557	1	p24.1
ENSG00000064655	0.9002	1.8663	8.9099E-08	2.0668E-06	EYA2	EYA transcriptional coactivator protein_cc	20	46894624	47188844	1	q13.12
ENSG00000155850	0.8992	1.8651	7.5952E-06	0.0001	SLC26A2	solute carrier family 26 (anion protein_cc	5	1.5E+08	1.5E+08	1	q32
ENSG00000170340	0.8989	1.8647	1.3856E-20	1.3194E-18	B3GNT2	UDP-GlcNAc:betaGal beta-1,3- protein_cc	2	62196113	62224731	1	p15
ENSG00000132781	0.8983	1.8639	1.1106E-06	2.0455E-05	MUTYH	mutY homolog [Source:HGNC ; protein_cc	1	45329163	45340470	-1	p34.1
ENSG00000132640	0.8975	1.8628	5.2212E-06	8.1637E-05	BTBD3	BTB (POZ) domain containing 3 protein_cc	20	11890723	11926609	1	p12.2
ENSG00000224081	0.897	1.8622	0.0001	0.0011	LINC01057	long intergenic non-protein co lincRNA	1	94638461	94820281	-1	p21.3
ENSG00000167600	0.8966	1.8617	0.0005	0.0043	CYP2S1	cytochrome P450, family 2, sul protein_cc	19	41193049	41207539	1	q13.2
ENSG00000177380	0.896	1.8609	1.7244E-05	0.0002	PPFIA3	protein tyrosine phosphatase, protein_cc	19	49119389	49151026	1	q13.33
ENSG00000155330	0.8955	1.8603	7.441E-10	2.4645E-08	C16orf87	chromosome 16 open reading protein_cc	16	46796607	46831411	-1	q11.2
ENSG00000135750	0.8953	1.86	2.6545E-09	7.9486E-08	KCNK1	potassium channel, subfamily l protein_cc	1	2.34E+08	2.34E+08	1	q42.2
ENSG00000105875	0.895	1.8596	3.0166E-08	7.5193E-07	WDR91	WD repeat domain 91 [Source: protein_cc	7	1.35E+08	1.35E+08	-1	q33
ENSG00000179593	0.8937	1.8579	7.7147E-05	0.0009	ALOX15B	arachidonate 15-lipoxygenase, protein_cc	17	8039017	8049134	1	p13.1

ENSG00000142677	0.8922	1.856	0.0039	0.0241	IL22RA1	interleukin 22 receptor, alpha protein_cc	1	24119771	24143121	-1	p36.11
ENSG00000057252	0.8921	1.8558	1.6472E-13	8.6414E-12	SOAT1	sterol O-acyltransferase 1 [Sou protein_cc	1	1.79E+08	1.79E+08	1	q25.2
ENSG00000107669	0.8909	1.8543	2.6325E-26	3.6067E-24	ATE1	arginyltransferase 1 [Source:Hi protein_cc	10	1.22E+08	1.22E+08	-1	q26.13
ENSG00000139629	0.8899	1.853	0.0002	0.0021	GALNT6	polypeptide N-acetylgalactosyl protein_cc	12	51351247	51392867	-1	q13.13
ENSG00000116791	0.8895	1.8525	1.7715E-12	8.2085E-11	CRYZ	crystallin, zeta (quinone reduct protein_cc	1	74705482	74733408	-1	p31.1
ENSG00000143942	0.8869	1.8492	1.4848E-05	0.0002	CHAC2	ChaC, cation transport regulator protein_cc	2	53767792	53775196	1	p16.2
ENSG00000139722	0.8865	1.8487	1.5151E-14	8.933E-13	VPS37B	vacuolar protein sorting 37 homolog protein_cc	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000108828	0.8865	1.8487	2.2937E-07	4.9582E-06	VAT1	vesicle amine transport 1 [Sou protein_cc	17	43014605	43025123	-1	q21.31
ENSG00000094841	0.8857	1.8476	2.958E-13	1.5102E-11	UPRT	uracil phosphoribosyltransferase protein_ccX		75274085	75304600	1	q13.3
ENSG00000058799	0.8837	1.8452	4.3527E-15	2.7001E-13	YIPF1	Yip1 domain family, member 1 protein_cc	1	53851719	53889834	-1	p32.3
ENSG00000237276	0.8827	1.8439	0.0003	0.0033	ANO7P1	anoctamin 7 pseudogene 1 [Sc transcriber	1	16215909	16228027	-1	p36.13
ENSG00000205420	0.8819	1.8427	0.0002	0.0022	KRT6A	keratin 6A [Source:HGNC Symt protein_cc	12	52487174	52493257	-1	q13.13
ENSG00000095970	0.8818	1.8427	0.0013	0.01	TREM2	triggering receptor expressed protein_cc	6	41158506	41163186	-1	p21.1
ENSG00000104886	0.881	1.8417	1.3093E-12	6.1565E-11	PLEKHJ1	pleckstrin homology domain c protein_cc	19	2230084	2237704	-1	p13.3
ENSG00000116117	0.8806	1.8411	1.6114E-08	4.2664E-07	PARD3B	par-3 family cell polarity regulator protein_cc	2	2.05E+08	2.06E+08	1	q33.3
ENSG00000130303	0.8802	1.8407	3.211E-11	1.2901E-09	BST2	bone marrow stromal cell antigen protein_cc	19	17402939	17405648	-1	p13.11
ENSG00000165140	0.8803	1.8407	0.0004	0.0036	FBP1	fructose-1,6-bisphosphatase 1 protein_cc	9	94603133	94640249	-1	q22.32
ENSG00000131711	0.8798	1.8401	1.7386E-05	0.0002	MAP1B	microtubule-associated protein protein_cc	5	72107234	72209570	1	q13.2
ENSG00000121858	0.8786	1.8387	1.5508E-09	4.8496E-08	TNFSF10	tumor necrosis factor (ligand) : protein_cc	3	1.73E+08	1.73E+08	-1	q26.31
ENSG00000184731	0.8784	1.8383	5.7005E-10	1.9225E-08	FAM110C	family with sequence similarity protein_cc	2	38814	46870	-1	p25.3
ENSG00000109586	0.8772	1.8368	8.8583E-11	3.334E-09	GALNT7	polypeptide N-acetylgalactosyl protein_cc	4	1.73E+08	1.73E+08	1	q34.1
ENSG00000073150	0.8737	1.8323	0.0097	0.0496	PANX2	pannexin 2 [Source:HGNC Sym protein_cc	22	50170731	50180294	1	q13.33
ENSG00000168389	0.8732	1.8317	0.0003	0.0027	MFSD2A	major facilitator superfamily domain protein_cc	1	39955112	39969968	1	p34.2
ENSG00000112576	0.8706	1.8284	1.0625E-08	2.8866E-07	CCND3	cyclin D3 [Source:HGNC Symb protein_cc	6	41934933	42050357	-1	p21.1
ENSG00000214063	0.8695	1.827	0.0013	0.0098	TSPAN4	tetraspanin 4 [Source:HGNC Sy protein_cc	11	842808	867116	1	p15.5
ENSG00000082641	0.8676	1.8246	1.1504E-10	4.2539E-09	NFE2L1	nuclear factor, erythroid 2-like protein_cc	17	48048329	48061487	1	q21.32
ENSG00000134258	0.8662	1.8228	5.833E-10	1.9592E-08	VTCN1	V-set domain containing T cell protein_cc	1	1.17E+08	1.17E+08	-1	p12
ENSG00000196074	0.8661	1.8228	0.0012	0.009	SYCP2	synaptonemal complex protein protein_cc	20	59863563	59933655	-1	q13.33
ENSG00000162433	0.8656	1.8221	9.5334E-05	0.0011	AK4	adenylate kinase 4 [Source:HG protein_cc	1	65147549	65232145	1	p31.3
ENSG00000131015	0.8632	1.8191	0.0066	0.0369	ULBP2	UL16 binding protein 2 [Source protein_cc	6	1.5E+08	1.5E+08	1	q25.1
ENSG00000116711	0.862	1.8175	2.0403E-09	6.2671E-08	PLA2G4A	phospholipase A2, group IVA (protein_cc	1	1.87E+08	1.87E+08	1	q31.1
ENSG00000103254	0.8616	1.8171	3.5557E-10	1.2289E-08	FAM173A	family with sequence similarity protein_cc	16	720581	722601	1	p13.3
ENSG00000176454	0.8613	1.8167	3.2365E-16	2.2413E-14	LPCAT4	lysophosphatidylcholine acyltransferase protein_cc	15	34358618	34367278	-1	q14
ENSG00000165092	0.8606	1.8158	0.0059	0.0339	ALDH1A1	aldehyde dehydrogenase 1 family protein_cc	9	72900662	73080442	-1	q21.13
ENSG00000144824	0.8589	1.8136	7.9871E-05	0.0009	PHLDB2	pleckstrin homology-like domain protein_cc	3	1.12E+08	1.12E+08	1	q13.2
ENSG00000106266	0.8583	1.8129	1.2945E-10	4.75E-09	SNX8	sorting nexin 8 [Source:HGNC : protein_cc	7	2251770	2354318	-1	p22.3
ENSG00000119138	0.8579	1.8124	0.00007416	0.0009	KLF9	Kruppel-like factor 9 [Source:H protein_cc	9	70384597	70414624	-1	q21.12
ENSG00000157107	0.8573	1.8116	1.1789E-14	6.9721E-13	FCHO2	FCH domain only 2 [Source:HG protein_cc	5	72955981	73090522	1	q13.2
ENSG00000107821	0.8566	1.8108	0.0018	0.0128	KAZALD1	Kazal-type serine peptidase inhibitor protein_cc	10	1.01E+08	1.01E+08	1	q24.31
ENSG00000172331	0.8537	1.8071	0.0006	0.0056	BPGM	2,3-bisphosphoglycerate mutase protein_cc	7	1.35E+08	1.35E+08	1	q33
ENSG00000135899	0.8532	1.8065	2.2754E-08	5.801E-07	SP110	SP110 nuclear body protein [Sc protein_cc	2	2.3E+08	2.3E+08	-1	q37.1

ENSG00000279806	0.8508	1.8036	0.0009	0.0074	RP11-5809.2	TEC	17	40473554	40475289	-1	q21.2
ENSG00000100522	0.8508	1.8035	1.5481E-13	8.1894E-12	GNPNAT1	glucosamine-phosphate N-ace protein_cc	14	52775194	52791668	-1	q22.1
ENSG00000141527	0.8491	1.8013	0.0006	0.005	CARD14	caspase recruitment domain f2 protein_cc	17	80169992	80209331	1	q25.3
ENSG00000137842	0.8471	1.7989	1.0025E-12	4.8088E-11	TMEM62	transmembrane protein 62 [Sc protein_cc	15	43123279	43185146	1	q15.2
ENSG00000140471	0.8462	1.7977	3.5077E-13	1.7861E-11	LINS	lines homolog (Drosophila) [So protein_cc	15	1.01E+08	1.01E+08	-1	q26.3
ENSG00000121380	0.8433	1.7941	0.00004613	0.0006	BCL2L14	BCL2-like 14 (apoptosis facilita protein_cc	12	12049844	12211084	1	p13.2
ENSG00000127249	0.8431	1.7939	1.3899E-06	2.5018E-05	ATP13A4	ATPase type 13A4 [Source:HG protein_cc	3	1.93E+08	1.94E+08	-1	q29
ENSG00000160285	0.8429	1.7937	3.6406E-06	5.9309E-05	LSS	lanosterol synthase (2,3-oxido: protein_cc	21	46188141	46228824	-1	q22.3
ENSG00000214212	0.8429	1.7937	0.0093	0.0482	C19orf38	chromosome 19 open reading protein_cc	19	10836575	10869790	1	p13.2
ENSG00000145623	0.8418	1.7923	5.1496E-06	8.0781E-05	OSMR	oncostatin M receptor [Source protein_cc	5	38845858	38945596	1	p13.1
ENSG00000104324	0.8415	1.7919	2.2852E-06	3.8926E-05	CPQ	carboxypeptidase Q [Source:H protein_cc	8	96645227	97149654	1	q22.1
ENSG00000170315	0.8413	1.7917	4.1563E-09	1.2103E-07	UBB	ubiquitin B [Source:HGNC Sym protein_cc	17	16380798	16382745	1	p11.2
ENSG00000100036	0.8399	1.79	0.0003	0.0027	SLC35E4	solute carrier family 35, memb protein_cc	22	30635652	30669016	1	q12.2
ENSG00000197860	0.8399	1.79	0.0006	0.0051	SGTB	small glutamine-rich tetratric protein_cc	5	65665928	65723035	-1	q12.3
ENSG00000105401	0.839	1.7888	4.4921E-31	8.5547E-29	CDC37	cell division cycle 37 [Source:H protein_cc	19	10391134	10420121	-1	p13.2
ENSG00000112695	0.8381	1.7876	3.6887E-08	9.0525E-07	COX7A2	cytochrome c oxidase subunit protein_cc	6	75237675	75250323	-1	q14.1
ENSG00000229666	0.8368	1.7861	0.0028	0.0187	MAST4-AS1	MAST4 antisense RNA 1 [Sourc antisense	5	67001383	67003953	-1	q12.3
ENSG00000184828	0.8344	1.7831	0.0093	0.0479	ZBTB7C	zinc finger and BTB domain cor protein_cc	18	48026673	48410752	-1	q21.1
ENSG00000185043	0.8343	1.783	0.0004	0.0038	CIB1	calcium and integrin binding 1 protein_cc	15	90229975	90234047	-1	q26.1
ENSG00000088298	0.8329	1.7813	5.0863E-11	1.9809E-09	EDEM2	ER degradation enhancer, man protein_cc	20	35115357	35147364	-1	q11.22
ENSG00000214796	0.8325	1.7808	0.0022	0.0151	RP11-480I12.5	transcribed	1	2.03E+08	2.03E+08	-1	q32.1
ENSG00000267365	0.8315	1.7796	0.0043	0.0261	KCNJ2-AS1	KCNJ2 antisense RNA 1 (head t antisense	17	70166961	70169402	-1	q24.3
ENSG00000112139	0.8314	1.7794	0.0088	0.046	MDGA1	MAM domain containing glyco protein_cc	6	37630679	37699306	-1	p21.2
ENSG00000143774	0.8306	1.7784	1.1672E-13	6.2613E-12	GUK1	guanylate kinase 1 [Source:HG protein_cc	1	2.28E+08	2.28E+08	1	q42.13
ENSG00000127084	0.8276	1.7748	5.0404E-06	7.9331E-05	FGD3	FYVE, RhoGEF and PH domain protein_cc	9	92947451	93036236	1	q22.31
ENSG00000132773	0.8271	1.7741	1.3931E-07	3.1287E-06	TOE1	target of EGR1, member 1 (nuc protein_cc	1	45339670	45343975	1	p34.1
ENSG00000253276	0.8269	1.7739	0.0006	0.005	CCDC71L	coiled-coil domain containing protein_cc	7	1.07E+08	1.07E+08	-1	q22.3
ENSG00000008952	0.8249	1.7714	3.2654E-10	1.1368E-08	SEC62	SEC62 homolog (S. cerevisiae) protein_cc	3	1.7E+08	1.7E+08	1	q26.2
ENSG00000123992	0.8247	1.7712	1.1335E-30	2.0756E-28	DNPEP	aspartyl aminopeptidase [Sour protein_cc	2	2.19E+08	2.19E+08	-1	q35
ENSG00000147324	0.8236	1.7699	3.8564E-07	7.9482E-06	MFHAS1	malignant fibrous histiocyto protein_cc	8	8783354	8893645	-1	p23.1
ENSG00000106484	0.823	1.769	0.0005	0.0044	MEST	mesoderm specific transcript [ protein_cc	7	1.3E+08	1.31E+08	1	q32.2
ENSG00000050393	0.8227	1.7687	3.6171E-19	3.1169E-17	MCUR1	mitochondrial calcium uniport protein_cc	6	13786557	13814568	-1	p23
ENSG00000123505	0.8225	1.7684	1.7074E-18	1.4015E-16	AMD1	adenosylmethionine decarbox protein_cc	6	1.11E+08	1.11E+08	1	q21
ENSG00000197496	0.8224	1.7684	2.8973E-09	8.6213E-08	SLC2A10	solute carrier family 2 (facilitat protein_cc	20	46709487	46736347	1	q13.12
ENSG00000145349	0.8218	1.7676	2.0934E-07	4.5666E-06	CAMK2D	calcium/calmodulin-dependen protein_cc	4	1.13E+08	1.14E+08	-1	q26
ENSG00000148832	0.8212	1.7668	2.2526E-09	6.82E-08	PAOX	polyamine oxidase (exo-N4-am protein_cc	10	1.33E+08	1.33E+08	1	q26.3
ENSG00000139531	0.8185	1.7636	2.073E-12	9.5128E-11	SUOX	sulfite oxidase [Source:HGNC S protein_cc	12	55997180	56006641	1	q13.2
ENSG00000160211	0.8165	1.7611	2.3104E-06	0.00003932	G6PD	glucose-6-phosphate dehydrog protein_ccX		1.55E+08	1.55E+08	-1	q28
ENSG00000173915	0.8147	1.759	6.1806E-09	1.7463E-07	USMG5	up-regulated during skeletal m protein_cc	10	1.03E+08	1.03E+08	-1	q24.33
ENSG00000107863	0.8138	1.7579	2.0515E-15	1.3472E-13	ARHGAP21	Rho GTPase activating protein protein_cc	10	24583609	24723668	-1	p12.1
ENSG00000162813	0.8124	1.7562	2.3815E-10	8.509E-09	BPNT1	3'(2'), 5'-bisphosphate nucleot protein_cc	1	2.2E+08	2.2E+08	-1	q41



ENSG00000173218	0.8118	1.7553	3.4279E-09	1.009E-07	VANGL1	VANGL planar cell polarity prot protein_cc	1	1.16E+08	1.16E+08	1	p13.1
ENSG00000118849	0.8111	1.7545	0.0068	0.0377	RARRES1	retinoic acid receptor respond protein_cc	3	1.59E+08	1.59E+08	-1	q25.32
ENSG00000165449	0.8088	1.7518	4.7772E-07	9.6476E-06	SLC16A9	solute carrier family 16, memb protein_cc	10	59650761	59736002	-1	q21.2
ENSG00000115355	0.8062	1.7486	7.1703E-10	2.3872E-08	CCDC88A	coiled-coil domain containing i protein_cc	2	55287842	55419921	-1	p16.1
ENSG00000155368	0.8057	1.7481	1.8953E-05	0.0003	DBI	diazepam binding inhibitor (GA protein_cc	2	1.19E+08	1.19E+08	1	q14.2
ENSG00000203952	0.8058	1.7481	0.0003	0.0025	CCDC160	coiled-coil domain containing ; protein_ccX		1.34E+08	1.34E+08	1	q26.2
ENSG00000057294	0.8049	1.7471	8.2429E-12	3.5489E-10	PKP2	plakophilin 2 [Source:HGNC Sy protein_cc	12	32790745	32896840	-1	p11.21
ENSG00000184979	0.8037	1.7455	0.0013	0.0097	USP18	ubiquitin specific peptidase 18 protein_cc	22	18149899	18177397	1	q11.21
ENSG00000256940	0.8037	1.7455	0.0018	0.0129	RP11-783K16.5	antisense	11	64245964	64248217	1	q13.1
ENSG00000100644	0.8025	1.7442	0.0001	0.0012	HIF1A	hypoxia inducible factor 1, alpi protein_cc	14	61695513	61748259	1	q23.2
ENSG00000214814	0.8002	1.7414	0.0035	0.0221	FER1L6	fer-1-like family member 6 [So protein_cc	8	1.24E+08	1.24E+08	1	q24.13
ENSG00000178307	0.7985	1.7392	8.7611E-17	6.344E-15	TMEM11	transmembrane protein 11 [Sc protein_cc	17	21197280	21214624	-1	p11.2
ENSG00000111716	0.7982	1.739	2.4876E-08	6.2914E-07	LDHB	lactate dehydrogenase B [Sour protein_cc	12	21635342	21757857	-1	p12.1
ENSG00000085978	0.7982	1.7389	3.579E-18	2.8165E-16	ATG16L1	autophagy related 16-like 1 (S. protein_cc	2	2.33E+08	2.33E+08	1	q37.1
ENSG00000160753	0.7964	1.7368	2.5084E-13	1.2981E-11	RUSC1	RUN and SH3 domain containi protein_cc	1	1.55E+08	1.55E+08	1	q22
ENSG00000111647	0.7956	1.7358	1.0051E-08	2.7542E-07	UHRF1BP1L	UHRF1 binding protein 1-like [; protein_cc	12	1E+08	1E+08	-1	q23.1
ENSG00000246228	0.7946	1.7346	0.0025	0.0167	CASC8	cancer susceptibility candidate antisense	8	1.27E+08	1.27E+08	-1	q24.21
ENSG00000147813	0.7939	1.7338	0.0002	0.0017	NAPRT	nicotinate phosphoribosyltran: protein_cc	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000113119	0.7936	1.7334	3.8246E-05	0.0005	TMCO6	transmembrane and coiled-coi protein_cc	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000275183	0.7934	1.7331	1.5924E-05	0.0002	LENG9	leukocyte receptor cluster (LR protein_cc	19	54461796	54463711	-1	q13.42
ENSG00000112319	0.7927	1.7323	0.0001	0.0015	EYA4	EYA transcriptional coactivator protein_cc	6	1.33E+08	1.34E+08	1	q23.2
ENSG00000196859	0.7919	1.7314	0.0093	0.048	KRT39	keratin 39 [Source:HGNC Symt protein_cc	17	40958417	40966892	-1	q21.2
ENSG00000187608	0.7911	1.7304	0.0066	0.0369	ISG15	ISG15 ubiquitin-like modifier [; protein_cc	1	1001138	1014541	1	p36.33
ENSG00000169136	0.791	1.7303	1.3889E-05	0.0002	ATF5	activating transcription factor ; protein_cc	19	49928702	49933935	1	q13.33
ENSG00000168758	0.7906	1.7298	2.7615E-11	1.1213E-09	SEMA4C	sema domain, immunoglobulir protein_cc	2	96859716	96870757	-1	q11.2
ENSG00000184227	0.79	1.7291	0.0031	0.0201	ACOT1	acyl-CoA thioesterase 1 [Sourc protein_cc	14	73537114	73543794	1	q24.3
ENSG00000088386	0.7897	1.7288	0.0092	0.0476	SLC15A1	solute carrier family 15 (oligop protein_cc	13	98683801	98752654	-1	q32.3
ENSG00000237149	0.7883	1.727	0.0001	0.0013	ZNF503-AS2	ZNF503 antisense RNA 2 [Sour antisense	10	75401519	75408982	1	q22.2
ENSG00000104626	0.7876	1.7263	1.0906E-07	2.5024E-06	ERI1	exoribonuclease 1 [Source:HGI protein_cc	8	9002147	9116746	1	p23.1
ENSG00000134824	0.787	1.7255	0.0009	0.0074	FADS2	fatty acid desaturase 2 [Source protein_cc	11	61792980	61867354	1	q12.2
ENSG00000109680	0.7866	1.725	1.5748E-05	0.0002	TBC1D19	TBC1 domain family, member ; protein_cc	4	26576437	26755351	1	p15.2
ENSG00000127989	0.7864	1.7247	3.4757E-10	1.2057E-08	MTERF1	mitochondrial transcription ter protein_cc	7	91692008	91880720	-1	q21.2
ENSG00000156218	0.7858	1.724	6.5212E-05	0.0008	ADAMTSL3	ADAMTS-like 3 [Source:HGNC ; protein_cc	15	83654086	84039842	1	q25.2
ENSG00000119922	0.7845	1.7225	0.0042	0.0259	IFIT2	interferon-induced protein wit protein_cc	10	89301955	89309276	1	q23.31
ENSG00000158747	0.7841	1.722	4.576E-07	9.2807E-06	NBL1	neuroblastoma 1, DAN family I protein_cc	1	19640554	19658456	1	p36.13
ENSG00000116691	0.784	1.7219	9.0414E-09	2.51E-07	MIIP	migration and invasion inhibitc protein_cc	1	12019466	12032045	1	p36.22
ENSG00000129235	0.7839	1.7218	1.3984E-09	4.4459E-08	TXNDC17	thioredoxin domain containing protein_cc	17	6640758	6644541	1	p13.1
ENSG00000130881	0.7837	1.7215	0.0002	0.0018	LRP3	low density lipoprotein recepti protein_cc	19	33177603	33208867	1	q13.11
ENSG00000141456	0.783	1.7207	1.4627E-05	0.0002	PELP1	proline, glutamate and leucine protein_cc	17	4671385	4704337	-1	p13.2
ENSG00000135698	0.7825	1.7202	5.7038E-10	1.9225E-08	MPHOSPH6	M-phase phosphoprotein 6 [Sc protein_cc	16	82147798	82170226	-1	q23.3
ENSG00000173156	0.7818	1.7193	2.129E-09	6.5078E-08	RHOD	ras homolog family member D protein_cc	11	67056818	67072013	1	q13.2

ENSG00000167799	0.7816	1.7191	8.0289E-06	0.0001	NUDT8	nudix (nucleoside diphosphate protein_cc	11	67627938	67629930	-1	q13.2
ENSG00000142920	0.7812	1.7186	0.0074	0.0403	AZIN2	antizyme inhibitor 2 [Source:H protein_cc	1	33081104	33120530	1	p35.1
ENSG00000213928	0.7806	1.7179	0.0072	0.0395	IRF9	interferon regulatory factor 9 [ protein_cc	14	24161053	24166565	1	q12
ENSG00000119943	0.7775	1.7142	1.5549E-05	0.0002	PYROXD2	pyridine nucleotide-disulphide protein_cc	10	98383565	98415184	-1	q24.2
ENSG00000128274	0.7773	1.7139	4.9751E-14	2.7866E-12	A4GALT	alpha 1,4-galactosyltransferase protein_cc	22	42692121	42721298	-1	q13.2
ENSG00000108861	0.7767	1.7132	1.2705E-05	0.0002	DUSP3	dual specificity phosphatase 3 protein_cc	17	43766121	43778988	-1	q21.31
ENSG00000167468	0.7759	1.7123	5.0241E-11	1.9647E-09	GPX4	glutathione peroxidase 4 [Sour protein_cc	19	1103926	1106791	1	p13.3
ENSG00000172780	0.7759	1.7122	2.3952E-05	0.0003	RAB43	RAB43, member RAS oncogene protein_cc	3	1.29E+08	1.29E+08	-1	q21.3
ENSG00000141497	0.7758	1.7121	0.0004	0.004	ZMYND15	zinc finger, MYND-type contain protein_cc	17	4740015	4746119	1	p13.2
ENSG00000162896	0.775	1.7111	0.0001	0.0012	PIGR	polymeric immunoglobulin rec protein_cc	1	2.07E+08	2.07E+08	-1	q32.1
ENSG00000111229	0.7743	1.7103	2.0251E-15	1.3345E-13	ARPC3	actin related protein 2/3 comp protein_cc	12	1.1E+08	1.1E+08	-1	q24.11
ENSG00000189043	0.7737	1.7097	2.0694E-07	4.5247E-06	NDUFA4	NDUFA4, mitochondrial compl protein_cc	7	10931951	10940256	-1	p21.3
ENSG00000156110	0.7736	1.7095	5.9623E-12	2.6163E-10	ADK	adenosine kinase [Source:HGN protein_cc	10	74151185	74709303	1	q22.2
ENSG00000198668	0.7707	1.7062	0.00001073	0.0002	CALM1	calmodulin 1 (phosphorylase k protein_cc	14	90396502	90408261	1	q32.11
ENSG00000076864	0.7705	1.7058	0.0007	0.0062	RAP1GAP	RAP1 GTPase activating protei protein_cc	1	21596215	21669363	-1	p36.12
ENSG00000072310	0.7694	1.7046	2.1819E-08	5.5849E-07	SREBF1	sterol regulatory element bind protein_cc	17	17810399	17837002	-1	p11.2
ENSG00000067836	0.767	1.7018	2.6454E-10	9.3986E-09	ROGDI	rogdi homolog (Drosophila) [Sc protein_cc	16	4796968	4802950	-1	p13.3
ENSG00000154305	0.7664	1.701	1.3475E-06	2.4371E-05	MIA3	melanoma inhibitory activity f: protein_cc	1	2.23E+08	2.23E+08	1	q41
ENSG00000131174	0.7663	1.7009	5.8163E-06	0.0000902	COX7B	cytochrome c oxidase subunit ' protein_ccX		77899438	77907373	1	q21.1
ENSG00000198832	0.7663	1.7009	0.001	0.0078	SELM	selenoprotein M precursor [Sc protein_cc	22	31104772	31120069	-1	q12.2
ENSG00000205403	0.7645	1.6988	0.0012	0.0091	CFI	complement factor I [Source:H protein_cc	4	1.1E+08	1.1E+08	-1	q25
ENSG00000085276	0.7644	1.6986	1.909E-12	8.8027E-11	MECOM	MDS1 and EVI1 complex locus protein_cc	3	1.69E+08	1.7E+08	-1	q26.2
ENSG00000136514	0.7642	1.6984	1.0836E-06	2.0073E-05	RTP4	receptor (chemosensory) trans protein_cc	3	1.87E+08	1.87E+08	1	q27.3
ENSG00000130005	0.7633	1.6974	9.2795E-09	2.5723E-07	GAMT	guanidinoacetate N-methyltra protein_cc	19	1397084	1401570	-1	p13.3
ENSG00000154102	0.7632	1.6972	3.8995E-05	0.0005	C16orf74	chromosome 16 open reading protein_cc	16	85690084	85751129	-1	q24.1
ENSG00000138496	0.7624	1.6964	9.5662E-15	5.747E-13	PARP9	poly (ADP-ribose) polymerase ' protein_cc	3	1.23E+08	1.23E+08	-1	q21.1
ENSG00000156515	0.7622	1.6961	5.5563E-11	2.142E-09	HK1	hexokinase 1 [Source:HGNC Sy protein_cc	10	69269984	69401882	1	q22.1
ENSG00000130529	0.7622	1.6961	4.3903E-07	8.9422E-06	TRPM4	transient receptor potential ca protein_cc	19	49157741	49211836	1	q13.33
ENSG00000171462	0.7622	1.6961	0.0011	0.0086	DLK2	delta-like 2 homolog (Drosoph protein_cc	6	43450352	43456632	-1	p21.1
ENSG00000100439	0.7618	1.6957	1.0154E-13	5.4779E-12	ABHD4	abhydrolase domain containin protein_cc	14	22598237	22613215	1	q11.2
ENSG00000063241	0.761	1.6947	1.3913E-15	9.2323E-14	ISOC2	isochorismatase domain conta protein_cc	19	55452985	55462343	-1	q13.42
ENSG00000135926	0.761	1.6947	1.1731E-05	0.0002	TMBIM1	transmembrane BAX inhibitor protein_cc	2	2.18E+08	2.18E+08	-1	q35
ENSG00000176171	0.7596	1.6931	1.009E-06	1.8876E-05	BNIP3	BCL2/adenovirus E1B 19kDa in protein_cc	10	1.32E+08	1.32E+08	-1	q26.3
ENSG00000179178	0.7569	1.6899	5.6064E-08	1.3402E-06	TMEM125	transmembrane protein 125 [S protein_cc	1	43269994	43274002	1	p34.2
ENSG00000143891	0.7565	1.6894	0.0019	0.0137	GALM	galactose mutarotase (aldose : protein_cc	2	38665910	38741237	1	p22.1
ENSG00000198721	0.7532	1.6855	0.0058	0.0333	ECI2	enoyl-CoA delta isomerase 2 [S protein_cc	6	4115689	4135597	-1	p25.2
ENSG00000169047	0.7513	1.6833	5.8798E-07	1.1628E-05	IRS1	insulin receptor substrate 1 [Sc protein_cc	2	2.27E+08	2.27E+08	-1	q36.3
ENSG00000166477	0.7501	1.682	2.8179E-11	1.1394E-09	LEO1	Leo1, Paf1/RNA polymerase II ' protein_cc	15	51938025	51971806	-1	q21.2
ENSG00000103018	0.7498	1.6816	3.8963E-16	2.6595E-14	CYB5B	cytochrome b5 type B (outer n protein_cc	16	69424525	69466266	1	q22.1
ENSG00000197417	0.7487	1.6803	0.0017	0.0126	SHPK	sedoheptulokinase [Source:HG protein_cc	17	3608262	3636322	-1	p13.2
ENSG00000183011	0.7481	1.6795	1.7807E-05	0.0002	NAA38	N(alpha)-acetyltransferase 38, protein_cc	17	7856685	7885238	-1	p13.1

ENSG00000213638	0.7478	1.6792	0.0011	0.0085	ADAT3	adenosine deaminase, tRNA-sf protein_cc	19	1905378	1913447	1	p13.3
ENSG00000178695	0.7476	1.679	0.0003	0.0027	KCTD12	potassium channel tetrameriz protein_cc	13	76880166	76886390	-1	q22.3
ENSG00000178980	0.7469	1.6782	2.1029E-07	4.5821E-06	SEPW1	selenoprotein W, 1 [Source:HG protein_cc	19	47778572	47784686	1	q13.33
ENSG00000197124	0.7451	1.6761	0.0051	0.03	ZNF682	zinc finger protein 682 [Source protein_cc	19	19997058	20039506	-1	p12
ENSG00000072682	0.7443	1.6751	9.4342E-06	0.0001	P4HA2	prolyl 4-hydroxylase, alpha pol protein_cc	5	1.32E+08	1.32E+08	-1	q31.1
ENSG00000114529	0.7428	1.6734	1.4792E-05	0.0002	C3orf52	chromosome 3 open reading fi protein_cc	3	1.12E+08	1.12E+08	1	q13.2
ENSG00000076662	0.7424	1.673	7.5189E-06	0.0001	ICAM3	intercellular adhesion molecul protein_cc	19	10333776	10339823	-1	p13.2
ENSG00000073350	0.7416	1.672	9.3668E-09	2.589E-07	LLGL2	lethal giant larvae homolog 2 ( protein_cc	17	75525080	75575208	1	q25.1
ENSG00000162413	0.7407	1.671	1.6256E-06	2.8719E-05	KLHL21	kelch-like family member 21 [S protein_cc	1	6590724	6614607	-1	p36.31
ENSG00000088826	0.7402	1.6704	0.0004	0.004	SMOX	spermine oxidase [Source:HGN protein_cc	20	4120980	4187747	1	p13
ENSG00000165895	0.74	1.6702	3.6156E-11	1.4375E-09	ARHGAP42	Rho GTPase activating protein protein_cc	11	1.01E+08	1.01E+08	1	q22.1
ENSG00000139514	0.7386	1.6685	3.7963E-08	9.3046E-07	SLC7A1	solute carrier family 7 (cationic protein_cc	13	29509410	29595688	-1	q12.3
ENSG00000173193	0.7384	1.6684	1.2545E-07	2.8475E-06	PARP14	poly (ADP-ribose) polymerase protein_cc	3	1.23E+08	1.23E+08	1	q21.1
ENSG00000166272	0.7377	1.6675	3.0669E-10	1.0737E-08	WBP1L	WW domain binding protein 1- protein_cc	10	1.03E+08	1.03E+08	1	q24.32
ENSG00000183010	0.7372	1.6669	0.0004	0.0039	PYCR1	pyrroline-5-carboxylate reduct protein_cc	17	81932384	81942412	-1	q25.3
ENSG00000144366	0.7371	1.6668	4.4561E-06	7.1133E-05	GULP1	GULP, engulfment adaptor PTE protein_cc	2	1.88E+08	1.89E+08	1	q32.1
ENSG00000162836	0.737	1.6667	7.3209E-14	4.0063E-12	ACP6	acid phosphatase 6, lysosphosp protein_cc	1	1.48E+08	1.48E+08	-1	q21.2
ENSG00000239857	0.7364	1.666	0.0014	0.0107	GET4	golgi to ER traffic protein 4 hor protein_cc	7	876552	896436	1	p22.3
ENSG00000161653	0.7364	1.666	0.0021	0.0146	NAGS	N-acetylglutamate synthase [S protein_cc	17	44004546	44009063	1	q21.31
ENSG00000210107	0.7357	1.6652	0.0012	0.0093	MT-TQ	mitochondrially encoded tRNA Mt_tRNA MT		4329	4400	-1	
ENSG00000169241	0.735	1.6644	8.7094E-16	5.8609E-14	SLC50A1	solute carrier family 50 (sugar protein_cc	1	1.55E+08	1.55E+08	1	q22
ENSG00000124813	0.734	1.6633	8.0565E-07	1.5435E-05	RUNX2	runt-related transcription fact protein_cc	6	45328157	45664349	1	p21.1
ENSG00000140307	0.7327	1.6617	4.5353E-13	2.2551E-11	GTF2A2	general transcription factor IIA protein_cc	15	59638062	59657541	-1	q22.2
ENSG00000175198	0.7317	1.6606	7.0414E-07	1.3614E-05	PCCA	propionyl CoA carboxylase, alp protein_cc	13	1E+08	1.01E+08	1	q32.3
ENSG00000092445	0.7314	1.6602	2.3639E-07	5.0926E-06	TYRO3	TYRO3 protein tyrosine kinase protein_cc	15	41557675	41583586	1	q15.1
ENSG00000054179	0.7307	1.6594	0.0088	0.0462	ENTPD2	ectonucleoside triphosphate d protein_cc	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000134248	0.7304	1.6591	3.267E-12	1.4674E-10	LAMTOR5	late endosomal/lysosomal ada protein_cc	1	1.1E+08	1.1E+08	-1	p13.3
ENSG00000167553	0.7303	1.659	7.5798E-09	2.1166E-07	TUBA1C	tubulin, alpha 1c [Source:HGN protein_cc	12	49188736	49274603	1	q13.12
ENSG00000224259	0.7295	1.6581	0.0047	0.0281	LINC01133	long intergenic non-protein co lincRNA	1	1.6E+08	1.6E+08	1	q23.2
ENSG00000070540	0.7282	1.6565	2.1888E-09	6.6693E-08	WIP1	WD repeat domain, phosphoin protein_cc	17	68420948	68457513	-1	q24.2
ENSG00000115295	0.7276	1.6559	2.1975E-09	6.6852E-08	CLIP4	CAP-GLY domain containing lin protein_cc	2	29097705	29189643	1	p23.2
ENSG00000159202	0.7275	1.6557	4.9287E-13	2.438E-11	UBE2Z	ubiquitin-conjugating enzyme protein_cc	17	48908369	48929056	1	q21.32
ENSG00000178726	0.7272	1.6554	0.0004	0.0037	THBD	thrombomodulin [Source:HGN protein_cc	20	23045633	23049741	-1	p11.21
ENSG00000157601	0.7264	1.6545	4.2655E-05	0.0005	MX1	MX dynamin-like GTPase 1 [So protein_cc	21	41420304	41459214	1	q22.3
ENSG00000117450	0.7262	1.6543	7.5222E-05	0.0009	PRDX1	peroxiredoxin 1 [Source:HGN protein_cc	1	45511036	45523047	-1	p34.1
ENSG00000048707	0.724	1.6518	9.184E-06	0.0001	VPS13D	vacuolar protein sorting 13 hor protein_cc	1	12230067	12512047	1	p36.22
ENSG00000179862	0.7232	1.6508	0.0009	0.0076	CITED4	Cbp/p300-interacting transacti protein_cc	1	40861051	40862366	-1	p34.2
ENSG00000231312	0.723	1.6506	9.5654E-05	0.0011	AC007246.3	antisense	2	39436637	39665343	1	p22.1
ENSG00000237975	0.7221	1.6495	0.0049	0.0291	FLG-AS1	FLG antisense RNA 1 [Source:H antisense	1	1.52E+08	1.52E+08	1	q21.3
ENSG00000113732	0.7216	1.649	5.4624E-09	1.548E-07	ATP6V0E1	ATPase, H+ transporting, lysos protein_cc	5	1.73E+08	1.73E+08	1	q35.1
ENSG00000167105	0.7215	1.6489	0.0032	0.0206	TMEM92	transmembrane protein 92 [Sc protein_cc	17	50271406	50281485	1	q21.33

ENSG00000154845	0.7208	1.6481	1.3202E-25	1.746E-23	PPP4R1	protein phosphatase 4, regulat protein_cc	18	9546791	9615240	-1	p11.22
ENSG00000180448	0.7207	1.648	0.0004	0.0037	HMHA1	histocompatibility (minor) HA- protein_cc	19	1065923	1086628	1	p13.3
ENSG00000099260	0.7199	1.6471	8.0212E-06	0.0001	PALMD	palmdelphin [Source:HGNC Sy protein_cc	1	99645943	99694541	1	p21.2
ENSG00000184378	0.7199	1.647	0.0051	0.0299	ACTRT3	actin-related protein T3 [Sourc protein_cc	3	1.7E+08	1.7E+08	-1	q26.2
ENSG00000136542	0.7188	1.6458	5.9607E-06	9.2064E-05	GALNT5	polypeptide N-acetylgalactosai protein_cc	2	1.57E+08	1.57E+08	1	q24.1
ENSG00000065320	0.7178	1.6446	0.0002	0.0023	NTN1	netrin 1 [Source:HGNC Symbol protein_cc	17	9021542	9244000	1	p13.1
ENSG00000143409	0.7177	1.6445	1.848E-07	4.0687E-06	FAM63A	family with sequence similarity protein_cc	1	1.51E+08	1.51E+08	-1	q21.3
ENSG00000131446	0.7176	1.6444	8.0306E-08	1.8788E-06	MGAT1	mannosyl (alpha-1,3-)-glycoprc protein_cc	5	1.81E+08	1.81E+08	-1	q35.3
ENSG00000189431	0.7168	1.6435	0.0004	0.0035	RASSF10	Ras association (RalGDS/AF-6) protein_cc	11	13009577	13012106	1	p15.3
ENSG00000170647	0.7164	1.6431	1.1066E-06	2.0402E-05	TMEM133	transmembrane protein 133 [S protein_cc	11	1.01E+08	1.01E+08	1	q22.1
ENSG00000243927	0.7138	1.6401	2.686E-12	1.2208E-10	MRPS6	mitochondrial ribosomal prote protein_cc	21	34073224	34143034	1	q22.11
ENSG00000134369	0.7121	1.6382	5.4907E-07	1.0949E-05	NAV1	neuron navigator 1 [Source:HC protein_cc	1	2.02E+08	2.02E+08	1	q32.1
ENSG00000162415	0.7103	1.6361	0.0067	0.0371	ZSWIM5	zinc finger, SWIM-type contain protein_cc	1	45016399	45306209	-1	p34.1
ENSG00000125356	0.7092	1.6349	5.7717E-06	8.9655E-05	NDUFA1	NADH dehydrogenase (ubiquir protein_ccX		1.2E+08	1.2E+08	1	q24
ENSG00000180834	0.7088	1.6345	0.0092	0.0476	MAP6D1	MAP6 domain containing 1 [Sc protein_cc	3	1.84E+08	1.84E+08	-1	q27.1
ENSG00000067064	0.7076	1.6331	1.5916E-06	2.8248E-05	IDI1	isopentenyl-diphosphate delta protein_cc	10	1039908	1049170	-1	p15.3
ENSG00000154265	0.7073	1.6327	6.9228E-07	1.3453E-05	ABCA5	ATP-binding cassette, sub-fam protein_cc	17	69244311	69327244	-1	q24.3
ENSG00000112297	0.7068	1.6321	2.4554E-08	6.2182E-07	AIM1	absent in melanoma 1 [Source protein_cc	6	1.07E+08	1.07E+08	1	q21
ENSG00000072042	0.7065	1.6318	2.7741E-08	6.9606E-07	RDH11	retinol dehydrogenase 11 (all-t protein_cc	14	67676801	67695814	-1	q24.1
ENSG00000169435	0.7063	1.6316	7.9314E-06	0.0001	RASSF6	Ras association (RalGDS/AF-6) protein_cc	4	73571550	73620631	-1	q13.3
ENSG00000168040	0.7061	1.6314	3.0872E-08	7.6853E-07	FADD	Fas (TNFRSF6)-associated via d protein_cc	11	70203163	70207390	1	q13.3
ENSG00000206337	0.7049	1.63	6.7292E-08	1.5865E-06	HCP5	HLA complex P5 (non-protein c sense_ove	6	31400702	31477506	1	p21.33
ENSG00000052126	0.7043	1.6293	3.0948E-12	1.3966E-10	PLEKHA5	pleckstrin homology domain c protein_cc	12	19129752	19376400	1	p12.3
ENSG00000197905	0.7038	1.6288	0.0026	0.0174	TEAD4	TEA domain family member 4   protein_cc	12	2959330	3040673	1	p13.33
ENSG00000129071	0.7019	1.6267	2.8938E-14	1.6551E-12	MBD4	methyl-CpG binding domain pr protein_cc	3	1.29E+08	1.29E+08	-1	q21.3
ENSG00000144040	0.7016	1.6263	0.0001	0.0015	SFXN5	sideroflexin 5 [Source:HGNC S protein_cc	2	72942036	73075619	-1	p13.2
ENSG00000053918	0.7011	1.6257	7.6316E-05	0.0009	KCNQ1	potassium voltage-gated chan protein_cc	11	2444684	2849109	1	p15.5
ENSG00000166347	0.6992	1.6236	5.6997E-05	0.0007	CYB5A	cytochrome b5 type A (microsc protein_cc	18	74250847	74292016	-1	q22.3
ENSG00000143416	0.6992	1.6236	0.0003	0.0031	SELENBP1	selenium binding protein 1 [So protein_cc	1	1.51E+08	1.51E+08	-1	q21.3
ENSG00000088280	0.6989	1.6233	0.0001	0.0015	ASAP3	ArfGAP with SH3 domain, anky protein_cc	1	23428563	23484568	-1	p36.12
ENSG00000160613	0.6982	1.6225	8.2218E-06	0.0001	PCSK7	proprotein convertase subtilisi protein_cc	11	1.17E+08	1.17E+08	-1	q23.3
ENSG00000125285	0.6973	1.6215	0.001	0.0081	SOX21	SRY (sex determining region Y) protein_cc	13	94709622	94712399	-1	q32.1
ENSG00000078124	0.6968	1.6209	8.4343E-13	4.108E-11	ACER3	alkaline ceramidase 3 [Source: protein_cc	11	76860867	77026797	1	q13.5
ENSG00000130589	0.6963	1.6203	1.0624E-05	0.0002	HELZ2	helicase with zinc finger 2, trar protein_cc	20	63558086	63574239	-1	q13.33
ENSG00000122490	0.6962	1.6202	5.9957E-14	3.3289E-12	PQLC1	PQ loop repeat containing 1 [S protein_cc	18	79902420	79951664	-1	q23
ENSG00000104522	0.6954	1.6193	1.6795E-09	5.2093E-08	TSTA3	tissue specific transplantation protein_cc	8	1.44E+08	1.44E+08	-1	q24.3
ENSG00000075415	0.6946	1.6184	3.054E-27	4.5086E-25	SLC25A3	solute carrier family 25 (mitoc protein_cc	12	98593591	98606379	1	q23.1
ENSG00000254285	0.6939	1.6177	1.753E-07	3.8773E-06	KRT8P3	keratin 8 pseudogene 3 [Sourc processed_	8	61578220	61579668	1	q12.3
ENSG00000102471	0.6924	1.6159	7.2401E-11	2.7576E-09	NDFIP2	Nedd4 family interacting prote protein_cc	13	79481124	79556075	1	q31.1
ENSG00000204618	0.6921	1.6157	0.0058	0.0332	RNF39	ring finger protein 39 [Source:l protein_cc	6	30070266	30075887	-1	p22.1
ENSG00000115541	0.6917	1.6152	7.6091E-06	0.0001	HSPE1	heat shock 10kDa protein 1 [Sc protein_cc	2	1.97E+08	1.98E+08	1	q33.1

ENSG0000004478	0.6896	1.6128	4.0253E-11	1.5904E-09	FKBP4	FK506 binding protein 4, 59kD; protein_cc	12	2794953	2805423	1	p13.33
ENSG00000224877	0.6888	1.612	4.3086E-07	8.785E-06	C17orf89	chromosome 17 open reading protein_cc	17	81239239	81241281	1	q25.3
ENSG00000110446	0.6888	1.612	0.0006	0.0052	SLC15A3	solute carrier family 15 (oligoprotein_cc	11	60937083	60952530	-1	q12.2
ENSG00000136950	0.6886	1.6117	3.2928E-23	3.6887E-21	ARPC5L	actin related protein 2/3 complex protein_cc	9	1.25E+08	1.25E+08	1	q33.3
ENSG00000197448	0.6876	1.6106	9.5638E-07	1.7994E-05	GSTK1	glutathione S-transferase kappa protein_cc	7	1.43E+08	1.43E+08	1	q34
ENSG00000155265	0.6876	1.6106	0.0026	0.0173	GOLGA7B	golgin A7 family, member B [Sc] protein_cc	10	97850239	97871580	1	q24.2
ENSG00000130202	0.6874	1.6104	3.5315E-05	0.0004	PVRL2	poliovirus receptor-related 2 (I) protein_cc	19	44846175	44889228	1	q13.32
ENSG00000131746	0.6872	1.6101	0.0063	0.0355	TNS4	tensin 4 [Source:HGNC Symbol] protein_cc	17	40475828	40501597	-1	q21.2
ENSG00000176473	0.6861	1.609	2.4672E-06	4.1622E-05	WDR25	WD repeat domain 25 [Source: protein_cc	14	1E+08	1.01E+08	1	q32.2
ENSG00000143036	0.6861	1.6089	2.6339E-09	7.8991E-08	SLC44A3	solute carrier family 44, member protein_cc	1	94820342	94895246	1	p21.3
ENSG00000204959	0.6858	1.6085	0.0022	0.015	ARHGEF34P	Rho guanine nucleotide exchange process	7	1.44E+08	1.44E+08	-1	q35
ENSG00000162076	0.6853	1.608	2.429E-11	9.9054E-10	FLYWCH2	FLYWCH family member 2 [Source: protein_cc	16	2883186	2899382	1	p13.3
ENSG00000165521	0.6846	1.6073	0.0024	0.0162	EML5	echinoderm microtubule associated protein_cc	14	88612431	88792752	-1	q31.3
ENSG00000243147	0.6844	1.6071	2.9986E-09	8.8949E-08	MRPL33	mitochondrial ribosomal protein_cc	2	27771717	27988087	1	p23.2
ENSG00000004455	0.6842	1.6068	1.7514E-14	1.0231E-12	AK2	adenylate kinase 2 [Source:HG protein_cc	1	33007984	33080996	-1	p35.1
ENSG00000026103	0.6834	1.6059	0.0003	0.0027	FAS	Fas cell surface death receptor protein_cc	10	88990531	89015785	1	q23.31
ENSG00000032389	0.6832	1.6057	0.00001776	0.0002	TSSC1	tumor suppressing subtransfer protein_cc	2	3188925	3377882	-1	p25.3
ENSG00000136098	0.683	1.6055	0.0053	0.0308	NEK3	NIMA-related kinase 3 [Source: protein_cc	13	52132639	52159861	-1	q14.3
ENSG00000142208	0.6829	1.6054	2.1734E-17	1.6359E-15	AKT1	v-akt murine thymoma viral or protein_cc	14	1.05E+08	1.05E+08	-1	q32.33
ENSG00000172725	0.6817	1.6041	2.3668E-22	2.463E-20	CORO1B	coronin, actin binding protein, protein_cc	11	67435510	67443821	-1	q13.2
ENSG00000145979	0.6795	1.6016	5.2174E-07	1.0448E-05	TBC1D7	TBC1 domain family, member protein_cc	6	13266542	13328583	-1	p24.1
ENSG00000130669	0.6785	1.6005	2.0592E-06	3.5489E-05	PAK4	p21 protein (Cdc42/Rac)-activated protein_cc	19	39125770	39182816	1	q13.2
ENSG00000101166	0.6775	1.5993	1.6143E-11	6.6977E-10	SLMO2	slowmo homolog 2 (Drosophila) protein_cc	20	59033145	59042909	-1	q13.32
ENSG00000203865	0.6766	1.5984	0.0058	0.0331	ATP1A1-AS1	ATP1A1 antisense RNA 1 [Source: processed_	1	1.16E+08	1.16E+08	-1	p13.1
ENSG00000163814	0.6761	1.5978	1.7272E-08	4.5306E-07	CDCP1	CUB domain containing protein protein_cc	3	45082278	45146422	-1	p21.31
ENSG00000184164	0.6743	1.5958	8.7382E-07	1.6575E-05	CRELD2	cysteine-rich with EGF-like domain protein_cc	22	49918167	49927540	1	q13.33
ENSG00000138621	0.6743	1.5958	1.0681E-06	1.9826E-05	PPCDC	phosphopantothienylcysteine protein_cc	15	75023555	75117462	1	q24.2
ENSG00000132254	0.6741	1.5956	3.4666E-07	7.2072E-06	ARFIP2	ADP-ribosylation factor interacting protein_cc	11	6474683	6481479	-1	p15.4
ENSG00000136895	0.674	1.5954	0.0016	0.0118	GARNL3	GTPase activating Rap/RanGAP protein_cc	9	1.27E+08	1.27E+08	1	q33.3
ENSG00000141524	0.6732	1.5946	0.0002	0.002	TMC6	transmembrane channel-like 6 protein_cc	17	78110458	78132407	-1	q25.3
ENSG00000164039	0.673	1.5944	6.0749E-09	1.719E-07	BDH2	3-hydroxybutyrate dehydrogenase protein_cc	4	1.03E+08	1.03E+08	-1	q24
ENSG00000175183	0.6726	1.594	0.0023	0.0159	CSRP2	cysteine and glycine-rich protein protein_cc	12	76858715	76879060	-1	q21.2
ENSG00000070214	0.672	1.5933	4.2367E-13	2.1177E-11	SLC44A1	solute carrier family 44 (choline) protein_cc	9	1.05E+08	1.05E+08	1	q31.1
ENSG00000133985	0.6718	1.5931	0.00001511	0.0002	TTC9	tetratricopeptide repeat domain protein_cc	14	70641787	70675360	1	q24.2
ENSG00000246090	0.6704	1.5915	0.0022	0.0152	RP11-696N14.1	antisense	4	99088857	99301356	1	q23
ENSG00000182903	0.6701	1.5912	2.3234E-08	5.9074E-07	ZNF721	zinc finger protein 721 [Source: protein_cc	4	425815	499156	-1	p16.3
ENSG00000159399	0.6691	1.5901	0.007	0.0385	HK2	hexokinase 2 [Source:HGNC Symbol] protein_cc	2	74833981	74893359	1	p12
ENSG00000168461	0.669	1.5899	2.681E-08	6.7446E-07	RAB31	RAB31, member RAS oncogene protein_cc	18	9708165	9862551	1	p11.22
ENSG00000076043	0.6686	1.5895	3.3911E-06	5.5481E-05	REXO2	RNA exonuclease 2 [Source:HG protein_cc	11	1.14E+08	1.14E+08	1	q23.2
ENSG00000077092	0.6681	1.589	1.5546E-08	4.1349E-07	RARB	retinoic acid receptor, beta [Sc] protein_cc	3	25174332	25597932	1	p24.2
ENSG00000142694	0.6675	1.5883	9.4957E-05	0.0011	EVA1B	eva-1 homolog B (C. elegans) [Sc] protein_cc	1	36322031	36324154	-1	p34.3



ENSG00000107281	0.6671	1.5879	0.0016	0.0119 NPDC1	neural proliferation, differenti; protein_cc	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000070610	0.6669	1.5876	1.7455E-09	5.4052E-08 GBA2	glucosidase, beta (bile acid) 2 [ protein_cc	9	35736866	35749228	-1	p13.3
ENSG00000243449	0.6669	1.5876	0.001	0.008 C4orf48	chromosome 4 open reading fi protein_cc	4	2041993	2043970	1	p16.3
ENSG00000196663	0.6667	1.5875	6.7104E-07	1.3093E-05 TECPR2	tectonin beta-propeller repeat protein_cc	14	1.02E+08	1.03E+08	1	q32.31
ENSG00000136379	0.6663	1.587	2.7654E-05	0.0004 ABHD17C	abhydrolase domain containin; protein_cc	15	80679684	80755621	1	q25.1
ENSG00000177096	0.6658	1.5864	3.6047E-08	8.8579E-07 FAM109B	family with sequence similarity protein_cc	22	42074251	42079441	1	q13.2
ENSG00000172366	0.6649	1.5855	0.0018	0.013 FAM195A	family with sequence similarity protein_cc	16	636817	648474	1	p13.3
ENSG00000163170	0.6647	1.5852	6.1868E-05	0.0007 BOLA3	bolA family member 3 [Source: protein_cc	2	74135398	74147994	-1	p13.1
ENSG00000177700	0.6645	1.585	3.2974E-11	1.3192E-09 POLR2L	polymerase (RNA) II (DNA dire; protein_cc	11	837356	842545	-1	p15.5
ENSG00000077044	0.6637	1.5841	0.0051	0.0303 DGKD	diacylglycerol kinase, delta 13C protein_cc	2	2.33E+08	2.33E+08	1	q37.1
ENSG00000198818	0.6635	1.5839	2.2523E-11	9.2242E-10 SFT2D1	SFT2 domain containing 1 [Sou protein_cc	6	1.66E+08	1.66E+08	-1	q27
ENSG00000122644	0.6619	1.5821	1.1998E-05	0.0002 ARL4A	ADP-ribosylation factor-like 4A protein_cc	7	12686856	12690934	1	p21.3
ENSG00000114770	0.6614	1.5816	6.4933E-08	1.5342E-06 ABCC5	ATP-binding cassette, sub-fam; protein_cc	3	1.84E+08	1.84E+08	-1	q27.1
ENSG00000164300	0.6612	1.5814	1.2213E-06	0.0000223 SERINC5	serine incorporator 5 [Source: protein_cc	5	80111651	80256079	-1	q14.1
ENSG00000175416	0.6605	1.5807	7.4304E-05	0.0009 CLTB	clathrin, light chain B [Source: protein_cc	5	1.76E+08	1.76E+08	-1	q35.2
ENSG00000135617	0.6597	1.5797	5.3027E-08	1.2767E-06 PRADC1	protease-associated domain cc protein_cc	2	73228006	73233238	-1	p13.2
ENSG00000237330	0.6595	1.5795	0.007	0.0386 RNF223	ring finger protein 223 [Source protein_cc	1	1070966	1074307	-1	p36.33
ENSG00000131100	0.6593	1.5794	1.606E-10	5.8593E-09 ATP6V1E1	ATPase, H+ transporting, lysosi protein_cc	22	17592136	17628818	-1	q11.21
ENSG00000100647	0.6588	1.5788	0.0016	0.0115 KIAA0247	KIAA0247 [Source:HGNC Symb protein_cc	14	69611596	69715142	1	q24.1
ENSG00000141741	0.6588	1.5787	4.769E-11	1.8726E-09 MIEN1	migration and invasion enhanc protein_cc	17	39728496	39730787	-1	q12
ENSG00000111412	0.6587	1.5787	9.6117E-10	3.1236E-08 C12orf49	chromosome 12 open reading protein_cc	12	1.17E+08	1.17E+08	-1	q24.22
ENSG00000119899	0.658	1.5779	2.1399E-08	5.4922E-07 SLC17A5	solute carrier family 17 (acidic protein_cc	6	73593379	73654155	-1	q13
ENSG00000140853	0.6579	1.5778	0.0001	0.0013 NLRC5	NLR family, CARD domain cont protein_cc	16	56989485	57083531	1	q13
ENSG00000113328	0.6578	1.5777	1.0483E-05	0.0002 CCNG1	cyclin G1 [Source:HGNC Symb; protein_cc	5	1.63E+08	1.63E+08	1	q34
ENSG00000138744	0.6575	1.5773	2.2558E-05	0.0003 NAAA	N-acylethanolamine acid amid; protein_cc	4	75913657	75941051	-1	q21.1
ENSG00000140022	0.6552	1.5748	0.0002	0.0023 STON2	stonin 2 [Source:HGNC Symbol; protein_cc	14	81260656	81436465	-1	q31.1
ENSG00000131236	0.6549	1.5745	4.9777E-08	1.203E-06 CAP1	CAP, adenylate cyclase-associa protein_cc	1	40040233	40072649	1	p34.2
ENSG00000123124	0.653	1.5724	1.3717E-08	3.6845E-07 WWP1	WW domain containing E3 ubi protein_cc	8	86342738	86478420	1	q21.3
ENSG00000154309	0.653	1.5724	0.0002	0.0025 DISP1	dispatched homolog 1 (Drosop protein_cc	1	2.23E+08	2.23E+08	1	q41
ENSG00000160191	0.6528	1.5722	0.0054	0.0317 PDE9A	phosphodiesterase 9A [Source protein_cc	21	42653636	42775509	1	q22.3
ENSG00000101084	0.6525	1.5719	9.5716E-07	1.7994E-05 C20orf24	chromosome 20 open reading protein_cc	20	36605734	36612557	1	q11.23
ENSG00000155660	0.6524	1.5718	1.6241E-07	3.6132E-06 PDIA4	protein disulfide isomerase far protein_cc	7	1.49E+08	1.49E+08	-1	q36.1
ENSG00000173540	0.6519	1.5713	4.1928E-10	1.4361E-08 GMPPB	GDP-mannose pyrophosphoryl protein_cc	3	49716844	49723951	-1	p21.31
ENSG00000115594	0.6519	1.5712	0.0086	0.0451 IL1R1	interleukin 1 receptor, type I [; protein_cc	2	1.02E+08	1.02E+08	1	q11.2
ENSG00000113068	0.6517	1.571	1.873E-09	5.7905E-08 PFDN1	prefoldin subunit 1 [Source:HG protein_cc	5	1.4E+08	1.4E+08	-1	q31.3
ENSG00000096968	0.6507	1.5699	3.0918E-07	6.4845E-06 JAK2	Janus kinase 2 [Source:HGNC S protein_cc	9	4985033	5128183	1	p24.1
ENSG00000097021	0.6496	1.5687	0.0001	0.0012 ACOT7	acyl-CoA thioesterase 7 [Sourc protein_cc	1	6264269	6394391	-1	p36.31
ENSG00000109929	0.6475	1.5665	0.0000748	0.0009 SC5D	sterol-C5-desaturase [Source: protein_cc	11	1.21E+08	1.21E+08	1	q23.3
ENSG00000138640	0.6476	1.5665	0.0018	0.0131 FAM13A	family with sequence similarity protein_cc	4	88725955	89111398	-1	q22.1
ENSG00000204389	0.6473	1.5663	0.0017	0.0121 HSPA1A	heat shock 70kDa protein 1A [; protein_cc	6	31815464	31817946	1	p21.33
ENSG00000272944	0.6473	1.5663	0.0092	0.0476 CTD-2308L22.1	antisense	2	2.22E+08	2.22E+08	1	q36.1

ENSG00000161921	0.6473	1.5662	0.0001	0.0011	CXCL16	chemokine (C-X-C motif) ligand protein_cc	17	4733526	4739922	-1	p13.2
ENSG00000182154	0.6451	1.5638	3.1521E-06	5.1927E-05	MRPL41	mitochondrial ribosomal protein_cc	9	1.38E+08	1.38E+08	1	q34.3
ENSG00000125944	0.6439	1.5626	6.731E-14	3.7048E-12	HNRNPR	heterogeneous nuclear ribonucleoprotein_cc	1	23303771	23344336	-1	p36.12
ENSG00000114346	0.6436	1.5622	1.6723E-09	5.1954E-08	ECT2	epithelial cell transforming 2 [5] protein_cc	3	1.73E+08	1.73E+08	1	q26.31
ENSG00000133818	0.643	1.5616	4.554E-07	9.246E-06	RRAS2	related RAS viral (r-ras) oncogene protein_cc	11	14277926	14364506	-1	p15.2
ENSG00000111110	0.6425	1.5611	1.7931E-08	4.6841E-07	PPM1H	protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> protein_cc	12	62643982	62935037	-1	q14.2
ENSG00000170577	0.6424	1.561	0.0033	0.0213	SIX2	SIX homeobox 2 [Source:HGNC] protein_cc	2	45005161	45009430	-1	p21
ENSG00000247596	0.6409	1.5593	8.8555E-10	2.8828E-08	TWF2	twinfilin actin-binding protein protein_cc	3	52228610	52239260	-1	p21.2
ENSG00000112851	0.6403	1.5586	4.6785E-23	5.2104E-21	ERBB2IP	erbb2 interacting protein [Source:HGNC] protein_cc	5	65926475	66082549	1	q12.3
ENSG00000169926	0.6401	1.5585	5.4621E-11	2.11E-09	KLF13	Kruppel-like factor 13 [Source:HGNC] protein_cc	15	31326855	31435665	1	q13.3
ENSG00000011422	0.6401	1.5585	0.0034	0.0219	PLAUR	plasminogen activator, urokinase protein_cc	19	43646095	43670547	-1	q13.31
ENSG00000115598	0.6398	1.5581	0.0054	0.0316	IL1RL2	interleukin 1 receptor-like 2 [Source:HGNC] protein_cc	2	1.02E+08	1.02E+08	1	q12.1
ENSG00000164258	0.6396	1.5579	4.2593E-06	6.8336E-05	NDUFS4	NADH dehydrogenase (ubiquinone) protein_cc	5	53560633	53683340	1	q11.2
ENSG00000172197	0.6387	1.5569	2.0613E-05	0.0003	MBOAT1	membrane bound O-acyltransferase protein_cc	6	20102145	20212399	-1	p22.3
ENSG00000146950	0.6382	1.5564	1.3499E-05	0.0002	SHROOM2	shroom family member 2 [Source:HGNC] protein_cc	9	9786456	9949443	1	p22.2
ENSG00000183049	0.6381	1.5563	2.0103E-06	3.4734E-05	CAMK1D	calcium/calmodulin-dependent protein kinase II protein_cc	10	12349482	12835545	1	p13
ENSG00000064961	0.6374	1.5555	9.303E-09	2.5751E-07	HMG20B	high mobility group 20B [Source:HGNC] protein_cc	19	3572777	3579088	1	p13.3
ENSG00000127774	0.6374	1.5555	8.1941E-05	0.0009	EMC6	ER membrane protein complex protein_cc	17	3668815	3669668	1	p13.2
ENSG00000113083	0.6373	1.5555	0.0006	0.0051	LOX	lysyl oxidase [Source:HGNC] protein_cc	5	1.22E+08	1.22E+08	-1	q23.1
ENSG00000174977	0.6351	1.553	0.0026	0.0174	AC026271.5	lysyl oxidase [Source:HGNC] protein_cc	17	18650195	18651542	1	p11.2
ENSG00000110090	0.6344	1.5522	0.0011	0.0084	CPT1A	carnitine palmitoyltransferase protein_cc	11	68754620	68844410	-1	q13.3
ENSG00000177076	0.6341	1.5519	0.0001	0.0012	ACER2	alkaline ceramidase 2 [Source:HGNC] protein_cc	9	19409059	19452020	1	p22.1
ENSG00000005469	0.6335	1.5513	2.9156E-08	7.2772E-07	CROT	carnitine O-octanoyltransferase protein_cc	7	87345681	87399795	1	q21.12
ENSG00000154079	0.6326	1.5503	0.0025	0.0168	C6orf57	chromosome 6 open reading frame protein_cc	6	70566917	70589569	1	q13
ENSG00000168575	0.632	1.5497	7.6284E-12	3.3244E-10	SLC20A2	solute carrier family 20 (phosphotransferase) protein_cc	8	42416475	42541926	-1	p11.22
ENSG00000181744	0.6319	1.5496	1.9986E-05	0.0003	C3orf58	chromosome 3 open reading frame protein_cc	3	1.44E+08	1.44E+08	1	q24
ENSG00000272398	0.6314	1.5491	0.0011	0.0085	CD24	CD24 molecule [Source:HGNC] protein_cc	6	1.07E+08	1.07E+08	-1	q21
ENSG00000127922	0.6312	1.5488	3.5255E-05	0.0004	SHFM1	split hand/foot malformation 1 protein_cc	7	96481626	96709891	-1	q21.3
ENSG00000175768	0.6308	1.5484	0.0011	0.0085	TOMM5	translocase of outer mitochondrial membrane protein_cc	9	37582646	37592642	-1	p13.2
ENSG00000002834	0.6307	1.5483	3.2916E-07	6.8809E-06	LASP1	LIM and SH3 protein 1 [Source:HGNC] protein_cc	17	38869859	38921770	1	q12
ENSG00000182208	0.6305	1.5481	2.2654E-08	5.7838E-07	MOB2	MOB kinase activator 2 [Source:HGNC] protein_cc	11	1469457	1501247	-1	p15.5
ENSG00000181649	0.6305	1.5481	0.0005	0.0048	PHLDA2	pleckstrin homology-like domain 2 protein_cc	11	2928273	2929455	-1	p15.4
ENSG00000129946	0.6305	1.5481	0.0022	0.0154	SHC2	SHC (Src homology 2 domain containing) protein_cc	19	416583	460996	-1	p13.3
ENSG00000047644	0.6304	1.548	0.0012	0.0094	WWC3	WWC family member 3 [Source:HGNC] protein_cc	10	10015562	10144478	1	p22.2
ENSG00000158201	0.6297	1.5473	4.9924E-11	1.9563E-09	ABHD3	abhydrolase domain containing protein_cc	18	21650897	21704805	-1	q11.2
ENSG00000170385	0.6279	1.5454	0.001	0.0081	SLC30A1	solute carrier family 30 (zinc transporter) protein_cc	1	2.12E+08	2.12E+08	-1	q32.3
ENSG00000118640	0.6275	1.5449	2.0396E-11	8.3906E-10	VAMP8	vesicle-associated membrane protein 8 protein_cc	2	85561562	85582031	1	p11.2
ENSG00000164405	0.6269	1.5443	1.7362E-05	0.0002	UQCRCQ	ubiquinol-cytochrome c reductase protein_cc	5	1.33E+08	1.33E+08	1	q31.1
ENSG00000130164	0.6264	1.5437	0.0031	0.0199	LDLR	low density lipoprotein receptor protein_cc	19	11089362	11133816	1	p13.2
ENSG00000131069	0.6246	1.5418	5.7943E-10	1.9496E-08	ACSS2	acyl-CoA synthetase short-chain family protein_cc	20	34872146	34927962	1	q11.22
ENSG00000170421	0.6244	1.5416	1.3301E-07	2.9978E-06	KRT8	keratin 8 [Source:HGNC] protein_cc	12	52897187	52949954	-1	q13.13

ENSG00000162627	0.623	1.5401	1.1817E-12	5.5981E-11	SNX7	sorting nexin 7 [Source:HGNC ! protein_cc	1	98661701	98760500	1	p21.3
ENSG00000140650	0.6221	1.5391	6.2158E-07	1.2229E-05	PMM2	phosphomannomutase 2 [Sou protein_cc	16	8788823	8849331	1	p13.2
ENSG00000151729	0.6218	1.5388	0.0009	0.0076	SLC25A4	solute carrier family 25 (mitocl protein_cc	4	1.85E+08	1.85E+08	1	q35.1
ENSG00000128335	0.621	1.538	0.0013	0.01	APOL2	apolipoprotein L, 2 [Source:HG protein_cc	22	36226203	36239954	-1	q12.3
ENSG00000072786	0.6209	1.5378	0.0026	0.0175	STK10	serine/threonine kinase 10 [So protein_cc	5	1.72E+08	1.72E+08	-1	q35.1
ENSG00000175324	0.6202	1.5371	1.0444E-08	2.8494E-07	LSM1	LSM1, U6 small nuclear RNA as protein_cc	8	38163321	38176730	-1	p11.23
ENSG00000067082	0.6198	1.5366	0.0027	0.0179	KLF6	Kruppel-like factor 6 [Source:H protein_cc	10	3775996	3785281	-1	p15.2
ENSG00000268516	0.6197	1.5366	0.0072	0.0394	CTD-3138B18.5	antisense	19	58257270	58278808	-1	q13.43
ENSG00000130545	0.6197	1.5365	4.4137E-06	7.0576E-05	CRB3	crumbs family member 3 [Sou protein_cc	19	6463777	6467221	-1	p13.3
ENSG00000064393	0.6192	1.536	5.1684E-05	0.0006	HIPK2	homeodomain interacting prot protein_cc	7	1.4E+08	1.4E+08	-1	q34
ENSG00000149212	0.6184	1.5352	5.2863E-06	8.2519E-05	SESN3	sestrin 3 [Source:HGNC Symbo protein_cc	11	95165540	95232541	-1	q21
ENSG00000124172	0.6182	1.5349	1.2848E-05	0.0002	ATP5E	ATP synthase, H+ transporting, protein_cc	20	59025467	59032382	-1	q13.32
ENSG00000001630	0.6172	1.5338	3.6716E-05	0.0005	CYP51A1	cytochrome P450, family 51, si protein_cc	7	92112151	92142952	-1	q21.2
ENSG00000077157	0.6141	1.5306	8.9358E-05	0.001	PPP1R12B	protein phosphatase 1, regulat protein_cc	1	2.02E+08	2.03E+08	1	q32.1
ENSG00000164442	0.6139	1.5303	1.4531E-06	2.5984E-05	CITED2	Cbp/p300-interacting transacti protein_cc	6	1.39E+08	1.39E+08	-1	q24.1
ENSG00000134318	0.6135	1.53	2.3376E-12	1.0675E-10	ROCK2	Rho-associated, coiled-coil con protein_cc	2	11179761	11348330	-1	p25.1
ENSG00000119013	0.6133	1.5298	5.5975E-05	0.0007	NDUFB3	NADH dehydrogenase (ubiquir protein_cc	2	2.01E+08	2.01E+08	1	q33.1
ENSG00000233621	0.6125	1.529	0.0002	0.0018	LINC01137	long intergenic non-protein co antisense	1	37454879	37474411	-1	p34.3
ENSG00000100711	0.6122	1.5286	9.336E-16	6.2604E-14	ZFYVE21	zinc finger, FYVE domain conta protein_cc	14	1.04E+08	1.04E+08	1	q32.33
ENSG00000129255	0.6113	1.5277	6.3287E-06	9.6884E-05	MPDU1	mannose-P-dolichol utilization protein_cc	17	7583529	7592789	1	p13.1
ENSG00000083457	0.6107	1.527	3.9715E-06	6.4151E-05	ITGAE	integrin, alpha E (antigen CD1C protein_cc	17	3714628	3801243	-1	p13.2
ENSG00000100567	0.6095	1.5257	1.347E-06	2.4371E-05	PSMA3	proteasome (prosome, macro protein_cc	14	58244831	58272012	1	q23.1
ENSG00000168439	0.6083	1.5244	2.9323E-11	1.1831E-09	STIP1	stress-induced phosphoproteir protein_cc	11	64185272	64204543	1	q13.1
ENSG00000169764	0.6064	1.5225	2.4693E-07	5.3075E-06	UGP2	UDP-glucose pyrophosphoryla: protein_cc	2	63840940	63891562	1	p15
ENSG00000161203	0.6058	1.5218	1.7726E-16	1.2503E-14	AP2M1	adaptor-related protein compl protein_cc	3	1.84E+08	1.84E+08	1	q27.1
ENSG00000120314	0.6054	1.5214	4.4282E-06	7.0748E-05	WDR55	WD repeat domain 55 [Source: protein_cc	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000034533	0.6045	1.5205	4.0923E-05	0.0005	ASTE1	asteroid homolog 1 (Drosophil protein_cc	3	1.31E+08	1.31E+08	-1	q22.1
ENSG00000204267	0.6043	1.5203	0.0096	0.0492	TAP2	transporter 2, ATP-binding cas: protein_cc	6	32821833	32838780	-1	p21.32
ENSG00000126778	0.6043	1.5202	3.7907E-06	6.1491E-05	SIX1	SIX homeobox 1 [Source:HGNC protein_cc	14	60643415	60658259	-1	q23.1
ENSG00000270344	0.6043	1.5202	0.0032	0.0209	RP11-734K2.4	antisense	12	89525654	89548005	1	q21.33
ENSG00000119801	0.6038	1.5197	2.5091E-08	6.3374E-07	YPEL5	yippee-like 5 (Drosophila) [Sou protein_cc	2	30146941	30160533	1	p23.1
ENSG00000138593	0.6032	1.5191	1.7047E-07	3.7758E-06	SECISBP2L	SECIS binding protein 2-like [Sc protein_cc	15	48988476	49046563	-1	q21.1
ENSG00000111832	0.6028	1.5186	6.1354E-07	1.2096E-05	RWDD1	RWD domain containing 1 [Sou protein_cc	6	1.17E+08	1.17E+08	1	q22.1
ENSG00000177156	0.6022	1.518	4.2943E-11	1.6932E-09	TALDO1	transaldolase 1 [Source:HGNC protein_cc	11	747329	765024	1	p15.5
ENSG00000178381	0.6018	1.5176	1.1012E-06	0.00002032	ZFAND2A	zinc finger, AN1-type domain 2 protein_cc	7	1152071	1160759	-1	p22.3
ENSG00000101844	0.6014	1.5172	1.4971E-09	4.7144E-08	ATG4A	autophagy related 4A, cysteine protein_ccX		1.08E+08	1.08E+08	1	q22.3
ENSG00000153391	0.6013	1.5171	0.0002	0.0023	INO80C	INO80 complex subunit C [Sou protein_cc	18	35452230	35497991	-1	q12.2
ENSG00000188647	0.601	1.5167	1.8638E-05	0.0003	PTAR1	protein prenyltransferase alph protein_cc	9	69709522	69759959	-1	q21.12
ENSG00000233493	0.6008	1.5165	0.0093	0.0479	TMEM238	transmembrane protein 238 [S protein_cc	19	55379245	55384598	-1	q13.42
ENSG00000162222	0.6001	1.5158	3.2788E-08	8.0988E-07	TTC9C	tetratricopeptide repeat doma protein_cc	11	62728069	62740293	1	q12.3
ENSG00000102144	0.6	1.5157	1.8694E-14	1.0887E-12	PGK1	phosphoglycerate kinase 1 [So protein_ccX		78065188	78129296	1	q21.1

ENSG00000099785	0.5988	1.5145	1.3784E-08	3.6972E-07	MARCH2	membrane-associated ring finger protein_cc	19	8413270	8439017	1	p13.2
ENSG00000155115	0.5985	1.5141	3.0371E-11	1.2228E-09	GTF3C6	general transcription factor IIIc protein_cc	6	1.11E+08	1.11E+08	1	q21
ENSG00000124802	0.5982	1.5138	0.0016	0.0118	EEF1E1	eukaryotic translation elongation factor protein_cc	6	8073360	8102578	-1	p24.3
ENSG00000131871	0.5979	1.5135	2.0484E-09	6.2817E-08	VIMP	VCP-interacting membrane protein protein_cc	15	1.01E+08	1.01E+08	-1	q26.3
ENSG00000116120	0.5977	1.5133	6.5032E-05	0.0008	FARSB	phenylalanyl-tRNA synthetase, protein_cc	2	2.23E+08	2.23E+08	-1	q36.1
ENSG00000008282	0.5973	1.5129	7.6506E-10	2.5164E-08	SYPL1	synaptophysin-like 1 [Source:HGNC] protein_cc	7	1.06E+08	1.06E+08	-1	q22.3
ENSG00000198937	0.5968	1.5124	0.0002	0.002	CCDC167	coiled-coil domain containing 167 protein_cc	6	37482920	37499922	-1	p21.2
ENSG00000185436	0.5967	1.5123	0.0021	0.0144	IFNLR1	interferon, lambda receptor 1 protein_cc	1	24154157	24187959	-1	p36.11
ENSG00000134056	0.5962	1.5117	7.9879E-05	0.0009	MRPS36	mitochondrial ribosomal protein S36 protein_cc	5	69217760	69230129	1	q13.2
ENSG00000111726	0.5953	1.5108	1.0209E-08	2.7934E-07	CMAS	cytidine monophosphate N-acetyltransferase protein_cc	12	22046174	22065674	1	p12.1
ENSG00000122884	0.5952	1.5106	6.1808E-06	9.4848E-05	P4HA1	prolyl 4-hydroxylase, alpha polypeptide protein_cc	10	73007217	73096974	-1	q22.1
ENSG00000103245	0.5934	1.5088	5.6868E-10	1.9225E-08	NARFL	nuclear prelamin A recognition protein protein_cc	16	729753	741329	-1	p13.3
ENSG00000090266	0.5932	1.5086	5.8155E-05	0.0007	NDUFB2	NADH dehydrogenase (ubiquinone) 1 protein_cc	7	1.41E+08	1.41E+08	1	q34
ENSG00000115339	0.5925	1.5078	2.1928E-06	3.7554E-05	GALNT3	polypeptide N-acetylgalactosyltransferase 3 protein_cc	2	1.66E+08	1.66E+08	-1	q24.3
ENSG00000105523	0.5916	1.5069	0.0005	0.0047	FAM83E	family with sequence similarity 83E protein_cc	19	48600810	48614854	-1	q13.33
ENSG00000164305	0.5912	1.5065	4.7144E-07	9.531E-06	CASP3	caspase 3, apoptosis-related cysteine protease protein_cc	4	1.85E+08	1.85E+08	-1	q35.1
ENSG00000054219	0.5907	1.506	8.4614E-05	0.001	LY75	lymphocyte antigen 75 [Source:HGNC] protein_cc	2	1.6E+08	1.6E+08	-1	q24.2
ENSG00000188643	0.5894	1.5046	9.9385E-12	4.2437E-10	S100A16	S100 calcium binding protein A16 protein_cc	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000139083	0.589	1.5042	1.1365E-06	2.0911E-05	ETV6	ets variant 6 [Source:HGNC] protein_cc	12	11649854	11895402	1	p13.2
ENSG00000245060	0.589	1.5042	0.00002263	0.0003	LINC00847	long intergenic non-protein coding RNA protein_cc	5	1.81E+08	1.81E+08	1	q35.3
ENSG00000129968	0.588	1.5031	1.2944E-09	4.136E-08	ABHD17A	abhydrolase domain containing 17A protein_cc	19	1876810	1885547	-1	p13.3
ENSG00000123374	0.5865	1.5016	1.9957E-07	4.3685E-06	CDK2	cyclin-dependent kinase 2 [Source:HGNC] protein_cc	12	55966769	55972784	1	q13.2
ENSG00000214517	0.5862	1.5013	5.2307E-08	1.2609E-06	PPME1	protein phosphatase methylesterase 1 protein_cc	11	74171099	74254703	1	q13.4
ENSG00000162551	0.5856	1.5007	0.006	0.0342	ALPL	alkaline phosphatase, liver/bone/pancreas protein_cc	1	21509372	21578412	1	p36.12
ENSG00000130748	0.5847	1.4998	0.0001	0.0012	TMEM160	transmembrane protein 160 [Source:HGNC] protein_cc	19	47045907	47048630	-1	q13.33
ENSG00000164919	0.5847	1.4998	0.0004	0.0037	COX6C	cytochrome c oxidase subunit 6c protein_cc	8	99873200	99894062	-1	q22.2
ENSG00000114993	0.5836	1.4986	0.0047	0.028	RTKN	rhotekin [Source:HGNC] protein_cc	2	74425836	74442422	-1	p13.1
ENSG00000101577	0.5836	1.4985	9.6189E-05	0.0011	LPIN2	lipin 2 [Source:HGNC] protein_cc	18	2916994	3013315	-1	p11.31
ENSG00000129250	0.5833	1.4982	1.6223E-06	2.8687E-05	KIF1C	kinesin family member 1C [Source:HGNC] protein_cc	17	4997948	5028401	1	p13.2
ENSG00000044574	0.5826	1.4975	8.6792E-05	0.001	HSPA5	heat shock 70kDa protein 5 (glucosylated) protein_cc	9	1.25E+08	1.25E+08	-1	q33.3
ENSG00000163703	0.5823	1.4972	0.0001	0.0012	CRELD1	cysteine-rich with EGF-like domain protein_cc	3	9933822	9945413	1	p25.3
ENSG00000103121	0.5816	1.4965	2.6519E-05	0.0003	CMC2	C-x(9)-C motif containing 2 [Source:HGNC] protein_cc	16	80966448	81020270	-1	q23.2
ENSG00000128228	0.5804	1.4953	0.0001	0.0013	SDF2L1	stromal cell-derived factor 2-like 1 protein_cc	22	21642261	21644298	1	q11.21
ENSG00000067606	0.5794	1.4942	5.1685E-06	8.0945E-05	PRKCZ	protein kinase C, zeta [Source:HGNC] protein_cc	1	2050470	2185395	1	p36.33
ENSG00000100612	0.5789	1.4937	2.5587E-06	4.3122E-05	DHRS7	dehydrogenase/reductase (SDS) domain containing 7 protein_cc	14	60144120	60169856	-1	q23.1
ENSG00000116106	0.5788	1.4936	0.0001	0.0014	EPHA4	EPH receptor A4 [Source:HGNC] protein_cc	2	2.21E+08	2.22E+08	-1	q36.1
ENSG00000139998	0.5785	1.4933	0.0001	0.0013	RAB15	RAB15, member RAS oncogene family protein_cc	14	64945814	64972776	-1	q23.3
ENSG00000197894	0.5777	1.4924	2.3303E-08	5.9172E-07	ADH5	alcohol dehydrogenase 5 (class I) protein_cc	4	99070978	99088801	-1	q23
ENSG00000181817	0.5776	1.4924	3.8772E-05	0.0005	LSM10	LSM10, U7 small nuclear RNA associated protein_cc	1	36391238	36397892	-1	p34.3
ENSG00000145050	0.5773	1.492	9.6764E-05	0.0011	MANF	mesencephalic astrocyte-derived secretory protein protein_cc	3	51385047	51389397	1	p21.2
ENSG00000086061	0.5766	1.4913	6.1405E-08	1.4563E-06	DNAJA1	DnaJ (Hsp40) homolog, subfamily A protein_cc	9	33025211	33039907	1	p21.1



ENSG00000103047	0.5764	1.4911	0.0002	0.002	TANGO6	transport and golgi organizatio protein_cc	16	68843604	69085180	1	q22.1
ENSG00000109854	0.5755	1.4902	6.2808E-12	2.7497E-10	HTATIP2	HIV-1 Tat interactive protein 2, protein_cc	11	20363685	20383783	1	p15.1
ENSG00000099795	0.5746	1.4893	0.001	0.0082	NDUFB7	NADH dehydrogenase (ubiquir protein_cc	19	14566078	14572062	-1	p13.12
ENSG00000105281	0.5744	1.4891	0.0002	0.0016	SLC1A5	solute carrier family 1 (neutral protein_cc	19	46774883	46788594	-1	q13.32
ENSG00000165644	0.5742	1.4889	0.0005	0.0041	COMTD1	catechol-O-methyltransferase protein_cc	10	75233969	75236030	-1	q22.2
ENSG00000075711	0.5737	1.4883	0.0001	0.0015	DLG1	discs, large homolog 1 (Drosop protein_cc	3	1.97E+08	1.97E+08	-1	q29
ENSG00000165806	0.5732	1.4879	5.367E-09	1.5232E-07	CASP7	caspase 7, apoptosis-related c <sub>1</sub> protein_cc	10	1.14E+08	1.14E+08	1	q25.3
ENSG00000109814	0.5732	1.4878	0.0009	0.0073	UGDH	UDP-glucose 6-dehydrogenase protein_cc	4	39498755	39528311	-1	p14
ENSG000000171621	0.573	1.4876	0.0006	0.0056	SPSB1	splA/ryanodine receptor doma protein_cc	1	9292880	9369532	1	p36.22
ENSG00000002586	0.573	1.4876	0.0009	0.0071	CD99	CD99 molecule [Source:HGNC protein_ccX		2691179	2741309	1	p22.33
ENSG00000129219	0.5726	1.4872	5.4657E-08	1.3093E-06	PLD2	phospholipase D2 [Source:HGI protein_cc	17	4807096	4823434	1	p13.2
ENSG00000081320	0.5708	1.4854	0.00001226	0.0002	STK17B	serine/threonine kinase 17b [S protein_cc	2	1.96E+08	1.96E+08	-1	q32.3
ENSG00000117448	0.5708	1.4854	0.0001	0.0013	AKR1A1	aldo-keto reductase family 1, r protein_cc	1	45550543	45570049	1	p34.1
ENSG00000185262	0.5707	1.4852	3.3236E-07	6.9402E-06	UBALD2	UBA-like domain containing 2   protein_cc	17	76265202	76271299	1	q25.1
ENSG00000114023	0.5701	1.4847	0.0006	0.0054	FAM162A	family with sequence similarity protein_cc	3	1.22E+08	1.22E+08	1	q21.1
ENSG00000183111	0.5701	1.4846	4.9096E-05	0.0006	ARHGEF37	Rho guanine nucleotide exchar protein_cc	5	1.5E+08	1.5E+08	1	q32
ENSG00000161654	0.5684	1.4829	9.8056E-10	3.1758E-08	LSM12	LSM12 homolog (S. cerevisiae) protein_cc	17	44034635	44067619	-1	q21.31
ENSG00000125995	0.5685	1.4829	0.0002	0.0024	ROMO1	reactive oxygen species modul protein_cc	20	35699272	35700984	1	q11.22
ENSG00000180370	0.5682	1.4827	6.1313E-08	1.4559E-06	PAK2	p21 protein (Cdc42/Rac)-activ: protein_cc	3	1.97E+08	1.97E+08	1	q29
ENSG00000038210	0.5679	1.4824	0.00000544	8.4778E-05	PI4K2B	phosphatidylinositol 4-kinase t protein_cc	4	25160641	25279092	1	p15.2
ENSG00000170791	0.5675	1.4819	0.0002	0.0016	CHCHD7	coiled-coil-helix-coiled-coil-hel protein_cc	8	56211686	56218798	1	q12.1
ENSG00000124406	0.5674	1.4819	0.0018	0.0126	ATP8A1	ATPase, aminophospholipid tr: protein_cc	4	42408373	42657105	-1	p13
ENSG00000251615	0.5667	1.4812	0.0083	0.0441	RP11-774O3.3	lincRNA	4	8355090	8358338	-1	p16.1
ENSG00000264230	0.5664	1.4809	0.00003812	0.0005	ANXA8L1	annexin A8-like 1 [Source:HGN protein_cc	10	46375627	46537864	1	q11.22
ENSG00000157557	0.5665	1.4809	0.0011	0.0089	ETS2	v-ets avian erythroblastosis vir protein_cc	21	38805307	38824955	1	q22.2
ENSG00000160213	0.5664	1.4808	5.5085E-25	6.8119E-23	CSTB	cystatin B (stefin B) [Source:HC protein_cc	21	43772512	43776445	-1	q22.3
ENSG00000102786	0.5664	1.4808	8.2541E-13	4.0305E-11	INTS6	integrator complex subunit 6 [: protein_cc	13	51354077	51454264	-1	q14.3
ENSG00000131495	0.5649	1.4793	0.0001	0.0012	NDUFA2	NADH dehydrogenase (ubiquir protein_cc	5	1.41E+08	1.41E+08	-1	q31.3
ENSG00000118922	0.5646	1.479	0.0007	0.0061	KLF12	Kruppel-like factor 12 [Source: protein_cc	13	73686089	74133905	-1	q22.1
ENSG00000126524	0.5635	1.4778	0.0003	0.0028	SBDS	Shwachman-Bodian-Diamond : protein_cc	7	66987677	66995601	-1	q11.21
ENSG00000198258	0.5631	1.4775	8.1324E-06	0.0001	UBL5	ubiquitin-like 5 [Source:HGNC protein_cc	19	9827892	9830115	1	p13.2
ENSG00000170759	0.563	1.4773	1.0844E-22	1.1537E-20	KIF5B	kinesin family member 5B [Sou protein_cc	10	32009010	32056431	-1	p11.22
ENSG00000275764	0.5629	1.4772	4.3782E-05	0.0005	RP11-582E3.6	lincRNA	12	27037100	27038960	1	p11.23
ENSG00000187024	0.5628	1.4771	0.0004	0.0038	PTRH1	peptidyl-tRNA hydrolase 1 hon protein_cc	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000177917	0.5627	1.477	0.00004809	0.0006	ARL6IP6	ADP-ribosylation factor-like 6 i protein_cc	2	1.53E+08	1.53E+08	1	q23.3
ENSG00000173281	0.5622	1.4766	0.0016	0.012	PPP1R3B	protein phosphatase 1, regulat protein_cc	8	9136255	9151574	-1	p23.1
ENSG00000153786	0.5602	1.4744	7.6016E-07	1.4623E-05	ZDHHC7	zinc finger, DHHC-type contain protein_cc	16	84974181	85011535	-1	q24.1
ENSG00000132963	0.5597	1.4739	4.4416E-07	9.0273E-06	POMP	proteasome maturation protei protein_cc	13	28659104	28678925	1	q12.3
ENSG00000105404	0.5595	1.4737	6.1122E-06	9.4023E-05	RABAC1	Rab acceptor 1 (prenylated) [S protein_cc	19	41956681	41959390	-1	q13.2
ENSG00000118985	0.5593	1.4736	7.5964E-07	1.4623E-05	ELL2	elongation factor, RNA polyme protein_cc	5	95885098	95962071	-1	q15
ENSG00000233396	0.5592	1.4734	0.0044	0.0265	RP11-458D21.1	lincRNA	1	1.46E+08	1.46E+08	1	q21.1



ENSG00000168938	0.5591	1.4733	5.0148E-07	1.0085E-05	PPIC	peptidylprolyl isomerase C (cyc protein_cc	5	1.23E+08	1.23E+08	-1	q23.2
ENSG00000136856	0.5589	1.4731	6.6902E-05	0.0008	SLC2A8	solute carrier family 2 (facilitat protein_cc	9	1.27E+08	1.27E+08	1	q33.3
ENSG00000197879	0.5588	1.473	0.0038	0.024	MYO1C	myosin IC [Source:HGNC Symb protein_cc	17	1464098	1492812	-1	p13.3
ENSG00000148735	0.5588	1.473	0.0095	0.0489	PLEKHS1	pleckstrin homology domain c protein_cc	10	1.14E+08	1.14E+08	1	q25.3
ENSG00000119411	0.5577	1.4719	0.0003	0.0026	BSPRY	B-box and SPRY domain contai protein_cc	9	1.13E+08	1.13E+08	1	q32
ENSG00000100865	0.5573	1.4715	2.6528E-07	5.6511E-06	CINP	cyclin-dependent kinase 2 inte protein_cc	14	1.02E+08	1.02E+08	-1	q32.31
ENSG00000143514	0.5571	1.4713	6.4487E-10	2.1583E-08	TP53BP2	tumor protein p53 binding pro protein_cc	1	2.24E+08	2.24E+08	-1	q41
ENSG00000169020	0.5571	1.4713	0.0006	0.0049	ATP5I	ATP synthase, H+ transporting, protein_cc	4	672436	674338	-1	p16.3
ENSG00000127914	0.557	1.4712	0.0007	0.0062	AKAP9	A kinase (PRKA) anchor proteir protein_cc	7	91940867	92110673	1	q21.2
ENSG00000182240	0.5559	1.4701	0.0002	0.0024	BACE2	beta-site APP-cleaving enzyme protein_cc	21	41167801	41282518	1	q22.2
ENSG00000117410	0.5558	1.47	1.018E-10	3.8015E-09	ATP6V0B	ATPase, H+ transporting, lysos protein_cc	1	43974487	43978295	1	p34.1
ENSG00000036257	0.5557	1.4699	1.9053E-12	8.8027E-11	CUL3	cullin 3 [Source:HGNC Symbol; protein_cc	2	2.24E+08	2.25E+08	-1	q36.2
ENSG00000136738	0.5556	1.4698	7.0341E-07	1.3614E-05	STAM	signal transducing adaptor mo protein_cc	10	17644125	17715914	1	p12.33
ENSG00000172428	0.5552	1.4694	2.6857E-05	0.0003	MYEOV2	myeloma overexpressed 2 [So protein_cc	2	2.4E+08	2.4E+08	-1	q37.3
ENSG00000075426	0.555	1.4692	0.0002	0.0021	FOSL2	FOS-like antigen 2 [Source:HG protein_cc	2	28392448	28417312	1	p23.2
ENSG00000087884	0.5549	1.469	0.0016	0.0119	AAMDC	adipogenesis associated, Mth9 protein_cc	11	77821109	77918432	1	q14.1
ENSG00000138463	0.5546	1.4687	2.779E-08	6.9635E-07	DIRC2	disrupted in renal carcinoma 2 protein_cc	3	1.23E+08	1.23E+08	1	q21.1
ENSG00000171202	0.5544	1.4685	0.0001	0.0013	TMEM126A	transmembrane protein 126A protein_cc	11	85647967	85656547	1	q14.1
ENSG00000272636	0.5542	1.4683	0.0042	0.0259	DOC2B	double C2-like domains, beta [ protein_cc	17	142789	181636	-1	p13.3
ENSG00000137714	0.5539	1.4681	2.6812E-12	1.2208E-10	FDX1	ferredoxin 1 [Source:HGNC Syr protein_cc	11	1.1E+08	1.1E+08	1	q22.3
ENSG00000177570	0.5539	1.468	4.8203E-05	0.0006	SAMD12	sterile alpha motif domain con protein_cc	8	1.18E+08	1.19E+08	-1	q24.12
ENSG00000138413	0.5531	1.4672	7.0563E-05	0.0008	IDH1	isocitrate dehydrogenase 1 (N protein_cc	2	2.08E+08	2.08E+08	-1	q34
ENSG00000181788	0.5524	1.4665	3.9422E-09	1.1515E-07	SIAH2	siah E3 ubiquitin protein ligase protein_cc	3	1.51E+08	1.51E+08	-1	q25.1
ENSG00000114735	0.5524	1.4665	5.9149E-05	0.0007	HEMK1	HemK methyltransferase famil protein_cc	3	50569152	50596168	1	p21.31
ENSG00000111057	0.5508	1.4649	9.7278E-06	0.0001	KRT18	keratin 18 [Source:HGNC Sym protein_cc	12	52948871	52952901	1	q13.13
ENSG00000176340	0.5498	1.4639	8.2591E-06	0.0001	COX8A	cytochrome c oxidase subunit ' protein_cc	11	63974607	63976543	1	q13.1
ENSG00000101901	0.5494	1.4635	0.0005	0.0047	ALG13	ALG13, UDP-N-acetylglucosam protein_cc X		1.12E+08	1.12E+08	1	q23
ENSG00000156973	0.5485	1.4626	1.2589E-06	2.2964E-05	PDE6D	phosphodiesterase 6D, cGMP- protein_cc	2	2.32E+08	2.32E+08	-1	q37.1
ENSG00000147533	0.5477	1.4617	2.0674E-13	1.0787E-11	GOLGA7	golgin A7 [Source:HGNC Symb protein_cc	8	41490396	41510980	1	p11.21
ENSG00000139163	0.5472	1.4613	1.8054E-05	0.0002	ETNK1	ethanolamine kinase 1 [Source protein_cc	12	22625075	22690665	1	p12.1
ENSG00000164172	0.5469	1.4609	1.4381E-06	2.5813E-05	MOCS2	molybdenum cofactor synthes protein_cc	5	53095679	53110063	-1	q11.2
ENSG00000049860	0.5469	1.4609	5.0463E-05	0.0006	HEXB	hexosaminidase B (beta polype protein_cc	5	74640023	74722647	1	q13.3
ENSG00000166228	0.5452	1.4592	0.0002	0.0022	PCBD1	pterin-4 alpha-carbinolamine c protein_cc	10	70882280	70888784	-1	q22.1
ENSG00000131149	0.5445	1.4585	1.6174E-05	0.0002	GSE1	Gse1 coiled-coil protein [Sourc protein_cc	16	85611409	85676204	1	q24.1
ENSG00000108010	0.5441	1.4581	7.7322E-15	4.6695E-13	GLRX3	glutaredoxin 3 [Source:HGNC S protein_cc	10	1.3E+08	1.3E+08	1	q26.3
ENSG00000100911	0.5438	1.4578	6.3429E-08	1.5024E-06	PSME2	proteasome (prosome, macro protein_cc	14	24143362	24147570	-1	q12
ENSG00000102575	0.543	1.457	6.6298E-05	0.0008	ACP5	acid phosphatase 5, tartrate re protein_cc	19	11574660	11579008	-1	p13.2
ENSG00000102908	0.542	1.456	0.0005	0.0046	NFAT5	nuclear factor of activated T-c protein_cc	16	69565094	69704666	1	q22.1
ENSG00000137449	0.542	1.456	0.0052	0.0304	CPEB2	cytoplasmic polyadenylation e protein_cc	4	15002674	15070153	1	p15.32
ENSG00000176731	0.5419	1.4559	0.0011	0.0084	C8orf59	chromosome 8 open reading fi protein_cc	8	85214076	85220421	-1	q21.2
ENSG00000168273	0.5408	1.4548	0.0011	0.0089	SMIM4	small integral membrane prote protein_cc	3	52534013	52579237	1	p21.1

ENSG00000108829	0.5406	1.4546	5.8429E-05	0.0007	LRRC59	leucine rich repeat containing protein_cc	17	50375059	50397553	-1	q21.33
ENSG00000196975	0.5405	1.4545	3.116E-10	1.0888E-08	ANXA4	annexin A4 [Source:HGNC Sym protein_cc	2	69644425	69826464	1	p13.3
ENSG00000120910	0.5405	1.4545	1.5138E-06	2.6968E-05	PPP3CC	protein phosphatase 3, catalyt protein_cc	8	22440819	22541142	1	p21.3
ENSG00000153214	0.5406	1.4545	1.0694E-05	0.0002	TMEM87B	transmembrane protein 87B [S protein_cc	2	1.12E+08	1.12E+08	1	q13
ENSG00000187244	0.5399	1.4539	0.0066	0.037	BCAM	basal cell adhesion molecule (L protein_cc	19	44809059	44821420	1	q13.32
ENSG00000082996	0.5396	1.4536	0.00001082	0.0002	RNF13	ring finger protein 13 [Source:l protein_cc	3	1.5E+08	1.5E+08	1	q25.1
ENSG00000164162	0.5394	1.4534	0.0011	0.0089	ANAPC10	anaphase promoting complex : protein_cc	4	1.45E+08	1.45E+08	-1	q31.21
ENSG00000121578	0.5387	1.4527	0.0048	0.0286	B4GALT4	UDP-Gal:betaGlcNAc beta 1,4- protein_cc	3	1.19E+08	1.19E+08	-1	q13.32
ENSG00000171100	0.5384	1.4524	1.5443E-08	4.1132E-07	MTM1	myotubularin 1 [Source:HGNC protein_ccX		1.51E+08	1.51E+08	1	q28
ENSG00000185088	0.5382	1.4522	0.0015	0.0112	RPS27L	ribosomal protein S27-like [Soi protein_cc	15	63125872	63158021	-1	q22.2
ENSG00000136802	0.5379	1.4518	0.0014	0.0105	LRRC8A	leucine rich repeat containing : protein_cc	9	1.29E+08	1.29E+08	1	q34.11
ENSG00000168894	0.5353	1.4493	1.9491E-06	3.3744E-05	RNF181	ring finger protein 181 [Source protein_cc	2	85595725	85597613	1	p11.2
ENSG00000119705	0.5349	1.4489	0.0007	0.0058	SLIRP	SRA stem-loop interacting RNA protein_cc	14	77708071	77761104	1	q24.3
ENSG00000099246	0.5344	1.4483	2.3847E-06	4.0404E-05	RAB18	RAB18, member RAS oncogene protein_cc	10	27504174	27542237	1	p12.1
ENSG00000050001	0.5344	1.4483	0.0015	0.0112	PRSS22	protease, serine, 22 [Source:H protein_cc	16	2852727	2858170	-1	p13.3
ENSG00000213337	0.534	1.448	0.0021	0.0144	ANKRD39	ankyrin repeat domain 39 [Sou protein_cc	2	96836611	96858095	-1	q11.2
ENSG00000102393	0.5339	1.4478	3.9807E-06	6.4244E-05	GLA	galactosidase, alpha [Source:H protein_ccX		1.01E+08	1.01E+08	-1	q22.1
ENSG00000165629	0.5334	1.4474	2.0236E-05	0.0003	ATP5C1	ATP synthase, H+ transporting, protein_cc	10	7788129	7807815	1	p14
ENSG00000182117	0.5332	1.4472	7.6082E-05	0.0009	NOP10	NOP10 ribonucleoprotein [Sou protein_cc	15	34341713	34343177	-1	q14
ENSG00000111335	0.5327	1.4466	5.2682E-05	0.0006	OAS2	2'-5'-oligoadenylate synthetas: protein_cc	12	1.13E+08	1.13E+08	1	q24.13
ENSG00000166233	0.5322	1.4461	2.4883E-10	8.8573E-09	ARIH1	ariadne RBR E3 ubiquitin prote protein_cc	15	72474326	72602985	1	q24.1
ENSG00000118596	0.5321	1.446	9.4021E-06	0.0001	SLC16A7	solute carrier family 16 (mono: protein_cc	12	59596067	59789855	1	q14.1
ENSG00000136147	0.5316	1.4455	3.2227E-08	7.9912E-07	PHF11	PHD finger protein 11 [Source: protein_cc	13	49495610	49528987	1	q14.2
ENSG00000168374	0.5316	1.4455	0.0007	0.0058	ARF4	ADP-ribosylation factor 4 [Sou: protein_cc	3	57571363	57598220	-1	p14.3
ENSG00000159479	0.5297	1.4437	1.2243E-05	0.0002	MED8	mediator complex subunit 8 [S protein_cc	1	43383917	43389808	-1	p34.2
ENSG00000076513	0.5295	1.4435	1.9079E-11	7.8985E-10	ANKRD13A	ankyrin repeat domain 13A [Sc protein_cc	12	1.1E+08	1.1E+08	1	q24.11
ENSG00000100554	0.5294	1.4433	8.9487E-06	0.0001	ATP6V1D	ATPase, H+ transporting, lysos: protein_cc	14	67294371	67360265	-1	q23.3
ENSG00000162777	0.5292	1.4432	1.2992E-08	3.4945E-07	DENND2D	DENN/MADD domain containi protein_cc	1	1.11E+08	1.11E+08	-1	p13.2
ENSG00000103415	0.5292	1.4431	1.3916E-08	3.7275E-07	HMOX2	heme oxygenase (decycling) 2 protein_cc	16	4474690	4510347	1	p13.3
ENSG00000091490	0.5292	1.4431	0.0018	0.0128	SEL1L3	sel-1 suppressor of lin-12-like : protein_cc	4	25747427	25863760	-1	p15.2
ENSG00000111321	0.5284	1.4423	0.0065	0.0365	LTBR	lymphotoxin beta receptor (TN protein_cc	12	6375045	6391571	1	p13.31
ENSG00000155366	0.528	1.4419	0.0003	0.0032	RHOC	ras homolog family member C protein_cc	1	1.13E+08	1.13E+08	-1	p13.2
ENSG00000100902	0.5276	1.4415	0.0001	0.0013	PSMA6	proteasome (prosome, macro: protein_cc	14	35278633	35317493	1	q13.2
ENSG00000135373	0.5276	1.4415	0.0003	0.0028	EHF	ets homologous factor [Source protein_cc	11	34621093	34661057	1	p13
ENSG00000168818	0.527	1.4409	0.0016	0.0117	STX18	syntaxin 18 [Source:HGNC Sym protein_cc	4	4415742	4542346	-1	p16.2
ENSG00000153066	0.5266	1.4406	5.3578E-07	1.0718E-05	TXNDC11	thioredoxin domain containing protein_cc	16	11679080	11742878	-1	p13.13
ENSG00000111237	0.526	1.4399	3.1899E-06	5.2504E-05	VPS29	vacuolar protein sorting 29 ho protein_cc	12	1.1E+08	1.11E+08	-1	q24.11
ENSG00000175662	0.5252	1.4392	0.0007	0.0058	TOM1L2	target of myb1-like 2 (chicken) protein_cc	17	17843511	17972422	-1	p11.2
ENSG00000272779	0.5252	1.4391	0.0084	0.0445	LL22NC03-80A10.6	transcriber	22	22303224	22310401	1	q11.22
ENSG00000213523	0.525	1.4389	1.1107E-09	3.5784E-08	SRA1	steroid receptor RNA activator protein_cc	5	1.41E+08	1.41E+08	-1	q31.3
ENSG00000241837	0.5244	1.4384	0.0033	0.0209	ATP5O	ATP synthase, H+ transporting, protein_cc	21	33903453	33915980	-1	q22.11

ENSG00000112237	0.5243	1.4382	0.001	0.0081	CCNC	cyclin C [Source:HGNC Symbol;protein_cc	6	99542380	99568973	-1	q16.2
ENSG00000123353	0.5232	1.4371	5.1117E-06	8.0319E-05	ORMDL2	ORMDL sphingolipid biosynthe protein_cc	12	55817919	55821879	1	q13.2
ENSG00000184983	0.523	1.4369	0.0006	0.0049	NDUFA6	NADH dehydrogenase (ubiquir protein_cc	22	42085525	42090955	-1	q13.2
ENSG00000170906	0.5224	1.4363	0.00004915	0.0006	NDUFA3	NADH dehydrogenase (ubiquir protein_cc	19	54102728	54109257	1	q13.42
ENSG00000021762	0.5218	1.4357	0.0003	0.0027	OSBPL5	oxysterol binding protein-like ! protein_cc	11	3087116	3166739	-1	p15.4
ENSG00000197798	0.5214	1.4353	3.4663E-07	7.2072E-06	FAM118B	family with sequence similarity protein_cc	11	1.26E+08	1.26E+08	1	q24.2
ENSG00000008294	0.5212	1.4351	5.4465E-11	2.1082E-09	SPAG9	sperm associated antigen 9 [Sc protein_cc	17	50962174	51120865	-1	q21.33
ENSG00000173614	0.5209	1.4348	5.5153E-07	1.0987E-05	NMNAT1	nicotinamide nucleotide adeny protein_cc	1	9943428	9985501	1	p36.22
ENSG00000065357	0.5207	1.4346	0.0015	0.0115	DGKA	diacylglycerol kinase, alpha 80 protein_cc	12	55927319	55954027	1	q13.2
ENSG00000198843	0.5205	1.4344	3.8044E-05	0.0005	SELT	selenoprotein T precursor [Soi protein_cc	3	1.51E+08	1.51E+08	1	q25.1
ENSG00000168032	0.5204	1.4344	0.0003	0.0027	ENTPD3	ectonucleoside triphosphate d protein_cc	3	40387156	40428619	1	p22.1
ENSG00000167508	0.5201	1.4341	9.8182E-05	0.0011	MVD	mevalonate (diphospho) decar protein_cc	16	88651935	88663161	-1	q24.2
ENSG00000150347	0.52	1.4339	0.0019	0.0138	ARID5B	AT rich interactive domain 5B (protein_cc	10	61901300	62096944	1	q21.2
ENSG00000143543	0.5198	1.4337	6.438E-09	1.811E-07	JTB	jumping translocation breakpo protein_cc	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000177054	0.5187	1.4327	0.0002	0.0023	ZDHHC13	zinc finger, DHHC-type contain protein_cc	11	19117099	19176422	1	p15.1
ENSG00000135317	0.5185	1.4325	8.1802E-07	0.00001561	SNX14	sorting nexin 14 [Source:HGNC protein_cc	6	85505496	85594156	-1	q14.3
ENSG00000164070	0.5183	1.4323	0.0043	0.026	HSPA4L	heat shock 70kDa protein 4-lik protein_cc	4	1.28E+08	1.28E+08	1	q28.1
ENSG00000096384	0.5177	1.4317	4.6652E-07	9.4501E-06	HSP90AB1	heat shock protein 90kDa alph protein_cc	6	44246166	44253888	1	p21.1
ENSG00000111775	0.5176	1.4316	0.0007	0.0062	COX6A1	cytochrome c oxidase subunit ' protein_cc	12	1.2E+08	1.2E+08	1	q24.31
ENSG00000172123	0.5173	1.4313	0.0029	0.0193	SLFN12	schlafen family member 12 [Sc protein_cc	17	35411060	35433283	-1	q12
ENSG00000188690	0.517	1.4309	9.4916E-08	2.1888E-06	UROS	uroporphyrinogen III synthase protein_cc	10	1.26E+08	1.26E+08	-1	q26.2
ENSG00000164403	0.5157	1.4297	0.0084	0.0445	SHROOM1	shroom family member 1 [Sou protein_cc	5	1.33E+08	1.33E+08	-1	q31.1
ENSG00000102977	0.5152	1.4292	0.0035	0.0221	ACD	adrenocortical dysplasia homo protein_cc	16	67657512	67660815	-1	q22.1
ENSG00000142327	0.5149	1.4289	0.0014	0.0107	RNPEPL1	arginyl aminopeptidase (aminc protein_cc	2	2.41E+08	2.41E+08	1	q37.3
ENSG00000153975	0.5147	1.4287	0.0001	0.0012	ZUFSP	zinc finger with UFM1-specific protein_cc	6	1.17E+08	1.17E+08	-1	q22.1
ENSG00000147669	0.5135	1.4275	4.7401E-05	0.0006	POLR2K	polymerase (RNA) II (DNA direi protein_cc	8	1E+08	1E+08	1	q22.2
ENSG00000152944	0.5133	1.4273	0.0002	0.0018	MED21	mediator complex subunit 21 [ protein_cc	12	27022546	27066343	1	p11.23
ENSG00000104689	0.5128	1.4269	0.0024	0.0161	TNFRSF10A	tumor necrosis factor receptor protein_cc	8	23190452	23225126	-1	p21.3
ENSG00000106554	0.5127	1.4267	7.8775E-09	2.1965E-07	CHCHD3	coiled-coil-helix-coiled-coil-hel protein_cc	7	1.33E+08	1.33E+08	-1	q33
ENSG00000008311	0.5127	1.4267	0.0012	0.0095	AASS	aminoadipate-semialdehyde sy protein_cc	7	1.22E+08	1.22E+08	-1	q31.32
ENSG00000111684	0.5118	1.4258	1.0971E-05	0.0002	LPCAT3	lysophosphatidylcholine acyltr protein_cc	12	6976186	7018510	-1	p13.31
ENSG00000250786	0.5115	1.4255	2.6363E-05	0.0003	SNHG18	small nucleolar RNA host gene lincRNA	5	9546200	9550609	1	p15.31
ENSG00000141552	0.5107	1.4247	0.0001	0.0013	ANAPC11	anaphase promoting complex ; protein_cc	17	81890790	81900991	1	q25.3
ENSG00000116717	0.5103	1.4243	0.0073	0.04	GADD45A	growth arrest and DNA-damag protein_cc	1	67685061	67688338	1	p31.3
ENSG00000185222	0.5101	1.4241	0.0008	0.0068	WBP5	WW domain binding protein 5 protein_ccX		1.03E+08	1.03E+08	1	q22.2
ENSG00000172586	0.5098	1.4238	7.0316E-05	0.0008	CHCHD1	coiled-coil-helix-coiled-coil-hel protein_cc	10	73782047	73783652	1	q22.2
ENSG00000162654	0.5085	1.4226	8.5098E-05	0.001	GBP4	guanylate binding protein 4 [Sc protein_cc	1	89181148	89198932	-1	p22.2
ENSG00000168062	0.5086	1.4226	0.0042	0.0257	BATF2	basic leucine zipper transcripti protein_cc	11	64987943	64997045	-1	q13.1
ENSG00000163605	0.5084	1.4224	8.56E-07	1.6285E-05	PPP4R2	protein phosphatase 4, regulat protein_cc	3	72996785	73069199	1	p13
ENSG00000156411	0.5084	1.4224	0.0018	0.0128	C14orf2	chromosome 14 open reading protein_cc	14	1.04E+08	1.04E+08	-1	q32.33
ENSG00000170310	0.5083	1.4223	0.0007	0.0062	STX8	syntaxin 8 [Source:HGNC Symt protein_cc	17	9250471	9576591	-1	p13.1

ENSG00000179085	0.5072	1.4213	0.0017	0.0123	DPM3	dolichyl-phosphate mannosylti protein_cc	1	1.55E+08	1.55E+08	-1	q22
ENSG00000111424	0.5068	1.4209	0.0022	0.0152	VDR	vitamin D (1,25- dihydroxyvita protein_cc	12	47841537	47943048	-1	q13.11
ENSG00000160746	0.5067	1.4208	0.0002	0.0019	ANO10	anoctamin 10 [Source:HGNC S protein_cc	3	43354859	43691594	-1	p21.33
ENSG00000100075	0.5038	1.4179	6.1295E-06	9.4213E-05	SLC25A1	solute carrier family 25 (mitocl protein_cc	22	19175575	19178830	-1	q11.21
ENSG00000172172	0.5036	1.4178	0.00007095	0.0008	MRPL13	mitochondrial ribosomal prote protein_cc	8	1.2E+08	1.2E+08	-1	q24.12
ENSG00000127540	0.5036	1.4177	3.6515E-05	0.0005	UQCR11	ubiquinol-cytochrome c reduct protein_cc	19	1597172	1605490	-1	p13.3
ENSG00000117335	0.5024	1.4166	0.0001	0.0015	CD46	CD46 molecule, complement r protein_cc	1	2.08E+08	2.08E+08	1	q32.2
ENSG00000136021	0.5023	1.4165	1.4513E-05	0.0002	SCYL2	SCY1-like 2 (S. cerevisiae) [Sou protein_cc	12	1E+08	1E+08	1	q23.1
ENSG00000145494	0.5021	1.4163	1.633E-08	4.3074E-07	NDUFS6	NADH dehydrogenase (ubiquir protein_cc	5	1801400	1816605	1	p15.33
ENSG00000117758	0.5019	1.4161	2.8979E-13	1.4875E-11	STX12	syntaxin 12 [Source:HGNC Sym protein_cc	1	27773183	27824452	1	p35.3
ENSG00000170430	0.5015	1.4156	0.003	0.0194	MGMT	O-6-methylguanine-DNA meth protein_cc	10	1.29E+08	1.3E+08	1	q26.3
ENSG00000120438	0.501	1.4152	1.5831E-05	0.0002	TCP1	t-complex 1 [Source:HGNC Syn protein_cc	6	1.6E+08	1.6E+08	-1	q25.3
ENSG00000114541	0.5002	1.4144	1.8469E-08	4.7983E-07	FRMD4B	FERM domain containing 4B [S protein_cc	3	69169990	69542583	-1	p14.1
ENSG00000123983	0.5001	1.4144	1.8124E-05	0.0002	ACSL3	acyl-CoA synthetase long-chair protein_cc	2	2.23E+08	2.23E+08	1	q36.1
ENSG00000231991	0.5002	1.4144	0.0004	0.0034	ANXA2P2	annexin A2 pseudogene 2 [Sou processed_	9	33624274	33625293	1	p13.3
ENSG00000085733	0.5	1.4143	1.0842E-05	0.0002	CTTN	cortactin [Source:HGNC Symbc protein_cc	11	70398404	70436584	1	q13.3
ENSG00000163191	0.4999	1.4141	1.9068E-07	4.1933E-06	S100A11	S100 calcium binding protein A protein_cc	1	1.52E+08	1.52E+08	-1	q21.3
ENSG00000174021	0.4998	1.414	4.5215E-10	1.5432E-08	GNG5	guanine nucleotide binding prc protein_cc	1	84498325	84506565	-1	p22.3
ENSG00000136840	0.4998	1.414	0.0009	0.0074	ST6GALNAC4	ST6 (alpha-N-acetyl-neuramin, protein_cc	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000119986	0.4997	1.4139	0.0017	0.0124	AVP1	arginine vasopressin-induced 1 protein_cc	10	97677424	97687323	-1	q24.2
ENSG00000159199	0.4993	1.4136	0.0002	0.0024	ATP5G1	ATP synthase, H+ transporting, protein_cc	17	48892765	48895871	1	q21.32
ENSG00000183648	0.4992	1.4134	0.0018	0.013	NDUFB1	NADH dehydrogenase (ubiquir protein_cc	14	92116122	92121917	-1	q32.12
ENSG00000178449	0.4987	1.413	0.0003	0.0027	COX14	cytochrome c oxidase assembl protein_cc	12	50111979	50120457	1	q13.12
ENSG00000140990	0.4985	1.4127	1.762E-07	3.8928E-06	NDUFB10	NADH dehydrogenase (ubiquir protein_cc	16	1959508	1961975	1	p13.3
ENSG00000060558	0.4985	1.4127	1.2139E-06	2.2186E-05	GNA15	guanine nucleotide binding prc protein_cc	19	3136193	3163769	1	p13.3
ENSG00000120805	0.4981	1.4123	1.5222E-06	2.7093E-05	ARL1	ADP-ribosylation factor-like 1 [ protein_cc	12	1.01E+08	1.01E+08	-1	q23.2
ENSG00000240065	0.4978	1.412	0.0009	0.0074	PSMB9	proteasome (prosome, macro protein_cc	6	32844136	32859585	1	p21.32
ENSG00000126267	0.4969	1.4111	0.0035	0.0222	COX6B1	cytochrome c oxidase subunit ' protein_cc	19	35648223	35658861	1	q13.12
ENSG00000117118	0.4967	1.411	2.2188E-06	3.7896E-05	SDHB	succinate dehydrogenase com protein_cc	1	17018722	17054170	-1	p36.13
ENSG00000054282	0.4965	1.4108	2.103E-08	5.4121E-07	SDCCAG8	serologically defined colon can protein_cc	1	2.43E+08	2.44E+08	1	q43
ENSG00000153006	0.4965	1.4107	3.0537E-05	0.0004	SREK1IP1	SREK1-interacting protein 1 [Sc protein_cc	5	64718144	64768685	-1	q12.3
ENSG00000154447	0.4964	1.4107	0.0003	0.0029	SH3RF1	SH3 domain containing ring fin protein_cc	4	1.69E+08	1.69E+08	-1	q33
ENSG00000127184	0.4964	1.4107	0.0025	0.0168	COX7C	cytochrome c oxidase subunit ' protein_cc	5	86617904	86620962	1	q14.3
ENSG00000142794	0.4962	1.4105	0.0007	0.006	NBPF3	neuroblastoma breakpoint fan protein_cc	1	21440128	21485005	1	p36.12
ENSG00000101608	0.4947	1.4091	9.9578E-05	0.0011	MYL12A	myosin, light chain 12A, regula protein_cc	18	3247481	3256236	1	p11.31
ENSG00000132274	0.4943	1.4086	0.0012	0.0091	TRIM22	tripartite motif containing 22 [ protein_cc	11	5689689	5737089	1	p15.4
ENSG00000146540	0.494	1.4083	1.6888E-05	0.0002	C7orf50	chromosome 7 open reading fi protein_cc	7	996986	1138260	-1	p22.3
ENSG00000161980	0.4935	1.4079	0.0052	0.0305	POLR3K	polymerase (RNA) III (DNA dire protein_cc	16	46407	53628	-1	p13.3
ENSG00000204385	0.4933	1.4077	0.0016	0.0116	SLC44A4	solute carrier family 44, memb protein_cc	6	31863192	31879046	-1	p21.33
ENSG00000066455	0.4933	1.4076	5.5921E-07	1.1105E-05	GOLGA5	golgin A5 [Source:HGNC Symbc protein_cc	14	92794231	92839963	1	q32.12
ENSG00000152332	0.4932	1.4075	2.1616E-06	3.7052E-05	UHMK1	U2AF homology motif (UHM) k protein_cc	1	1.62E+08	1.63E+08	1	q23.3

ENSG00000181061	0.4932	1.4075	0.0002	0.0016	HIGD1A	HIG1 hypoxia inducible domain protein_cc	3	42757177	42804531	-1	p22.1
ENSG00000184432	0.4929	1.4073	1.6378E-07	3.6353E-06	COPB2	coatamer protein complex, sul protein_cc	3	1.39E+08	1.39E+08	-1	q23
ENSG00000198355	0.4928	1.4072	0.0031	0.0201	PIM3	Pim-3 proto-oncogene, serine/ protein_cc	22	49960513	49964080	1	q13.33
ENSG00000085231	0.4928	1.4071	0.002	0.0138	TAF9	TAF9 RNA polymerase II, TATA protein_cc	5	69350984	69370013	-1	q13.2
ENSG00000160877	0.4923	1.4066	1.0142E-05	0.0001	NACC1	nucleus accumbens associated protein_cc	19	13118103	13141141	1	p13.13
ENSG00000088832	0.4919	1.4063	1.9851E-12	9.1313E-11	FKBP1A	FK506 binding protein 1A, 12kl protein_cc	20	1368978	1393172	-1	p13
ENSG00000265190	0.491	1.4055	0.0002	0.002	ANXA8	annexin A8 [Source:HGNC Sym protein_cc	10	47460162	47484158	-1	q11.22
ENSG00000162542	0.4906	1.405	0.0002	0.0018	TMCO4	transmembrane and coiled-coi protein_cc	1	19682213	19799945	-1	p36.13
ENSG00000099849	0.4905	1.4049	3.2147E-05	0.0004	RASSF7	Ras association (RalGDS/AF-6) protein_cc	11	560404	564021	1	p15.5
ENSG00000135709	0.4905	1.4049	0.0001	0.0012	KIAA0513	KIAA0513 [Source:HGNC Symb protein_cc	16	85027751	85094230	1	q24.1
ENSG00000143977	0.4898	1.4043	0.0014	0.0104	SNRPG	small nuclear ribonucleoprotein protein_cc	2	70281362	70293771	-1	p13.3
ENSG00000183617	0.4894	1.4039	0.0006	0.005	MRPL54	mitochondrial ribosomal prote protein_cc	19	3762664	3768575	1	p13.3
ENSG00000096433	0.4894	1.4039	0.0017	0.012	ITPR3	inositol 1,4,5-trisphosphate re protein_cc	6	33620365	33696574	1	p21.31
ENSG00000123416	0.4893	1.4038	4.7754E-05	0.0006	TUBA1B	tubulin, alpha 1b [Source:HGN protein_cc	12	49127782	49131397	-1	q13.12
ENSG00000075624	0.4894	1.4038	0.0055	0.0319	ACTB	actin, beta [Source:HGNC Sym protein_cc	7	5527151	5563784	-1	p22.1
ENSG00000256060	0.489	1.4035	0.0037	0.0231	TRAPP2B	trafficking protein particle com protein_cc	19	57363511	57365353	1	q13.43
ENSG00000184076	0.4888	1.4033	0.0003	0.0026	UQCRI0	ubiquinol-cytochrome c reduct protein_cc	22	29767369	29770413	1	q12.2
ENSG00000131779	0.4877	1.4022	1.6744E-08	4.4044E-07	PEX11B	peroxisomal biogenesis factor protein_cc	1	1.46E+08	1.46E+08	-1	q21.1
ENSG00000169403	0.4874	1.402	2.5052E-07	5.3727E-06	PTAFR	platelet-activating factor recep protein_cc	1	28147166	28193936	-1	p35.3
ENSG00000142864	0.4872	1.4018	1.5208E-09	4.7634E-08	SERP1	SERPINE1 mRNA binding prote protein_cc	1	67407810	67430415	-1	p31.3
ENSG00000144635	0.4871	1.4017	3.2349E-11	1.2969E-09	DYNC1LI1	dynein, cytoplasmic 1, light int protein_cc	3	32525971	32570874	-1	p22.3
ENSG00000112130	0.487	1.4016	1.0834E-05	0.0002	RNF8	ring finger protein 8, E3 ubiqui protein_cc	6	37353972	37394738	1	p21.2
ENSG00000262919	0.4871	1.4016	3.4427E-05	0.0004	FAM58A	family with sequence similarity protein_ccX		1.54E+08	1.54E+08	-1	q28
ENSG00000166710	0.487	1.4015	0.0028	0.0185	B2M	beta-2-microglobulin [Source: protein_cc	15	44711477	44718877	1	q21.1
ENSG00000241468	0.4867	1.4013	8.7015E-08	2.0209E-06	ATP5J2	ATP synthase, H+ transporting, protein_cc	7	99448475	99466331	-1	q22.1
ENSG00000099624	0.4868	1.4013	0.0001	0.0015	ATP5D	ATP synthase, H+ transporting, protein_cc	19	1241746	1244826	1	p13.3
ENSG00000006634	0.4867	1.4013	0.0039	0.0241	DBF4	DBF4 zinc finger [Source:HGNC protein_cc	7	87876216	87909541	1	q21.12
ENSG00000148450	0.4864	1.4009	2.8471E-06	4.7355E-05	MSRB2	methionine sulfoxide reductas protein_cc	10	23095506	23122013	1	p12.2
ENSG00000186654	0.4858	1.4004	0.0035	0.022	PRR5	proline rich 5 (renal) [Source:H protein_cc	22	44668547	44737681	1	q13.31
ENSG00000116161	0.4855	1.4001	4.7451E-05	0.0006	CACYBP	calcyclin binding protein [Sour protein_cc	1	1.75E+08	1.75E+08	1	q25.1
ENSG00000128524	0.4855	1.4001	0.0004	0.0035	ATP6V1F	ATPase, H+ transporting, lysos protein_cc	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000110713	0.4851	1.3997	0.00001483	0.0002	NUP98	nucleoporin 98kDa [Source:HG protein_cc	11	3671083	3797792	-1	p15.4
ENSG00000095794	0.4846	1.3992	0.0016	0.012	CREM	cAMP responsive element moc protein_cc	10	35126791	35212958	1	p11.21
ENSG00000128626	0.4845	1.3991	0.0004	0.0035	MRPS12	mitochondrial ribosomal prote protein_cc	19	38930548	38933162	1	q13.2
ENSG00000060762	0.484	1.3986	0.0002	0.002	MPC1	mitochondrial pyruvate carrier protein_cc	6	1.66E+08	1.66E+08	-1	q27
ENSG00000166595	0.4838	1.3984	5.2432E-06	8.1913E-05	FAM96B	family with sequence similarity protein_cc	16	66932055	66934423	-1	q22.1
ENSG00000130312	0.4835	1.3981	1.7428E-05	0.0002	MRPL34	mitochondrial ribosomal prote protein_cc	19	17292609	17306843	1	p13.11
ENSG00000163319	0.4833	1.3979	0.0013	0.0099	MRPS18C	mitochondrial ribosomal prote protein_cc	4	83455932	83469735	1	q21.23
ENSG00000088854	0.483	1.3976	1.6968E-05	0.0002	C20orf194	chromosome 20 open reading protein_cc	20	3249305	3407625	-1	p13
ENSG00000143549	0.4826	1.3972	9.9078E-11	3.7143E-09	TPM3	tropomyosin 3 [Source:HGNC protein_cc	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000232112	0.4822	1.3969	1.9183E-06	3.3302E-05	TMA7	translation machinery associat protein_cc	3	48440257	48444208	1	p21.31



ENSG00000168404	0.4823	1.3969	0.0008	0.0064 MLKL	mixed lineage kinase domain-l1 protein_cc	16	74671855	74700960	-1	q23.1
ENSG00000154582	0.482	1.3967	0.0005	0.0043 TCEB1	transcription elongation factor protein_cc	8	73939169	73972287	-1	q21.11
ENSG00000014641	0.4817	1.3964	0.0001	0.0011 MDH1	malate dehydrogenase 1, NAD protein_cc	2	63588609	63607197	1	p15
ENSG00000174917	0.4815	1.3962	0.0056	0.0323 C19orf70	chromosome 19 open reading protein_cc	19	5678421	5680896	-1	p13.3
ENSG00000168288	0.4812	1.3959	1.2982E-05	0.0002 MMADHC	methylmalonic aciduria (cobal: protein_cc	2	1.5E+08	1.5E+08	-1	q23.2
ENSG00000104518	0.4809	1.3957	5.0342E-05	0.0006 GSDMD	gasdermin D [Source:HGNC Sym] protein_cc	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000006007	0.481	1.3957	0.0016	0.0117 GDE1	glycerophosphodiester phosph protein_cc	16	19501689	19522145	-1	p12.3
ENSG00000105135	0.4805	1.3952	2.8616E-07	6.0485E-06 ILVBL	ilvB (bacterial acetolactate syn protein_cc	19	15114984	15125785	-1	p13.12
ENSG00000158169	0.4805	1.3952	0.0005	0.0046 FANCC	Fanconi anemia, complementa protein_cc	9	95099054	95317709	-1	q22.32
ENSG00000069329	0.4801	1.3949	6.4517E-07	1.2615E-05 VPS35	vacuolar protein sorting 35 ho protein_cc	16	46656132	46689518	-1	q11.2
ENSG00000181789	0.48	1.3947	3.8865E-08	9.5135E-07 COG1	coatomer protein complex, sul protein_cc	3	1.29E+08	1.29E+08	1	q21.3
ENSG00000100503	0.4794	1.3941	2.5089E-07	5.3746E-06 NIN	ninein (GSK3B interacting prot protein_cc	14	50719763	50831121	-1	q22.1
ENSG00000110536	0.4787	1.3935	0.0000204	0.0003 PTPMT1	protein tyrosine phosphatase, protein_cc	11	47565430	47573461	1	p11.2
ENSG00000170954	0.4784	1.3932	0.0094	0.0484 ZNF415	zinc finger protein 415 [Source protein_cc	19	53107879	53133077	-1	q13.42
ENSG00000228474	0.4776	1.3924	0.0006	0.005 OST4	oligosaccharyltransferase 4 ho protein_cc	2	27070472	27071773	-1	p23.3
ENSG00000137947	0.4763	1.3912	3.7214E-05	0.0005 GTF2B	general transcription factor IIB protein_cc	1	88852932	88891944	-1	p22.2
ENSG00000146476	0.4763	1.3912	0.0002	0.0018 C6orf211	chromosome 6 open reading fi protein_cc	6	1.51E+08	1.51E+08	1	q25.1
ENSG00000179889	0.4761	1.391	8.0254E-05	0.0009 PDXDC1	pyridoxal-dependent decarbox protein_cc	16	14974591	15139339	1	p13.11
ENSG00000117691	0.4761	1.391	0.0001	0.0016 NENF	neudesin neurotrophic factor [ protein_cc	1	2.12E+08	2.12E+08	1	q32.3
ENSG00000166394	0.4761	1.391	0.0009	0.0076 CYB5R2	cytochrome b5 reductase 2 [Sc protein_cc	11	7665100	7677222	-1	p15.4
ENSG00000106348	0.4759	1.3908	0.0021	0.0146 IMPDH1	IMP (inosine 5'-monophosphat protein_cc	7	1.28E+08	1.28E+08	-1	q32.1
ENSG00000160124	0.4754	1.3903	0.0036	0.0229 CCDC58	coiled-coil domain containing t protein_cc	3	1.22E+08	1.22E+08	-1	q21.1
ENSG00000107864	0.4753	1.3902	0.0075	0.0406 CPEB3	cytoplasmic polyadenylation e protein_cc	10	92046692	92291087	-1	q23.32
ENSG00000161813	0.4751	1.39	8.718E-10	2.8478E-08 LARP4	La ribonucleoprotein domain f protein_cc	12	50392383	50480004	1	q13.12
ENSG00000162302	0.4744	1.3894	2.731E-07	5.798E-06 RPS6KA4	ribosomal protein S6 kinase, 9l protein_cc	11	64359148	64372215	1	q13.1
ENSG00000115233	0.4739	1.3889	9.3963E-07	1.7717E-05 PSMD14	proteasome (prosome, macro protein_cc	2	1.61E+08	1.61E+08	1	q24.2
ENSG00000182718	0.4739	1.3888	8.1813E-06	0.0001 ANXA2	annexin A2 [Source:HGNC Sym] protein_cc	15	60347134	60402883	-1	q22.2
ENSG00000100181	0.4738	1.3887	0.0037	0.0232 TPTEP1	transmembrane phosphatase \ lincRNA	22	16601887	16698742	1	q11.1
ENSG00000175793	0.4732	1.3882	3.9608E-06	6.4032E-05 SFN	stratifin [Source:HGNC Symbol protein_cc	1	26863138	26864457	1	p36.11
ENSG00000247134	0.4731	1.3881	0.0006	0.0051 RP11-11N9.4	lincRNA	8	32996178	33044855	1	p12
ENSG00000119888	0.473	1.388	6.0792E-05	0.0007 EPCAM	epithelial cell adhesion molecu protein_cc	2	47345158	47387601	1	p21
ENSG00000189241	0.4731	1.388	0.0002	0.0016 TSPYL1	TSPY-like 1 [Source:HGNC Sym] protein_cc	6	1.16E+08	1.16E+08	-1	q22.1
ENSG00000185651	0.4727	1.3877	3.2124E-15	2.0325E-13 UBE2L3	ubiquitin-conjugating enzyme protein_cc	22	21549447	21624034	1	q11.21
ENSG00000121691	0.4721	1.3871	0.002	0.0139 CAT	catalase [Source:HGNC Symbo protein_cc	11	34438925	34472062	1	p13
ENSG00000143862	0.4719	1.3869	0.0003	0.0028 ARL8A	ADP-ribosylation factor-like 8A protein_cc	1	2.02E+08	2.02E+08	-1	q32.1
ENSG00000116237	0.4712	1.3862	0.00001558	0.0002 ICMT	isoprenylcysteine carboxyl me protein_cc	1	6221193	6235972	-1	p36.31
ENSG00000129292	0.471	1.3861	5.7096E-07	1.1326E-05 PHF20L1	PHD finger protein 20-like 1 [S protein_cc	8	1.33E+08	1.33E+08	1	q24.22
ENSG00000129696	0.4707	1.3858	0.0007	0.0059 TTI2	TELO2 interacting protein 2 [Sc protein_cc	8	33473386	33513601	-1	p12
ENSG00000131626	0.4702	1.3853	6.6187E-05	0.0008 PPIA1	protein tyrosine phosphatase, protein_cc	11	70270700	70384403	1	q13.3
ENSG00000172890	0.47	1.3851	4.429E-08	1.0759E-06 NADSYN1	NAD synthetase 1 [Source:HGT protein_cc	11	71453109	71524107	1	q13.4
ENSG00000151914	0.4699	1.385	0.0008	0.0063 DST	dystonin [Source:HGNC Symbc protein_cc	6	56457987	56954628	-1	p12.1

ENSG0000023330	0.4697	1.3848	0.0094	0.0486	ALAS1	aminolevulinate, delta-, synthase protein_cc	3	52198086	52214327	1	p21.2
ENSG00000154813	0.4695	1.3846	6.1044E-05	0.0007	DPH3	diphthamide biosynthesis 3 [Sc protein_cc	3	16257978	16264972	-1	p25.1
ENSG00000105755	0.4693	1.3844	3.1348E-05	0.0004	ETHE1	ethylmalonic encephalopathy : protein_cc	19	43506719	43527244	-1	q13.31
ENSG00000138190	0.4683	1.3834	0.0007	0.0056	EXOC6	exocyst complex component 6 protein_cc	10	92834713	93059493	1	q23.33
ENSG00000148175	0.4677	1.3829	0.0008	0.0065	STOM	stomatin [Source:HGNC Symbc protein_cc	9	1.21E+08	1.21E+08	-1	q33.2
ENSG00000136169	0.4672	1.3824	2.3748E-05	0.0003	SETDB2	SET domain, bifurcated 2 [Sour protein_cc	13	49444374	49495003	1	q14.2
ENSG00000167700	0.4672	1.3824	0.0022	0.015	MFSD3	major facilitator superfamily d protein_cc	8	1.45E+08	1.45E+08	1	q24.3
ENSG00000100220	0.4666	1.3819	4.4354E-07	9.0242E-06	RTCB	RNA 2',3'-cyclic phosphate and protein_cc	22	32387582	32412255	-1	q12.3
ENSG00000074800	0.4664	1.3816	8.4061E-10	2.7556E-08	ENO1	enolase 1, (alpha) [Source:HGN protein_cc	1	8861002	8879249	-1	p36.23
ENSG00000119655	0.4661	1.3813	0.0014	0.0105	NPC2	Niemann-Pick disease, type C2 protein_cc	14	74476192	74494177	-1	q24.3
ENSG00000177889	0.4651	1.3804	8.4517E-08	1.9653E-06	UBE2N	ubiquitin-conjugating enzyme protein_cc	12	93405673	93442262	-1	q22
ENSG00000174032	0.465	1.3803	2.6409E-07	5.635E-06	SLC25A30	solute carrier family 25, memb protein_cc	13	45393316	45418455	-1	q14.13
ENSG00000168005	0.4646	1.3799	0.0009	0.0075	C11orf84	chromosome 11 open reading protein_cc	11	63813388	63827718	1	q13.1
ENSG00000118680	0.4642	1.3796	0.0000426	0.0005	MYL12B	myosin, light chain 12B, regula protein_cc	18	3261909	3278284	1	p11.31
ENSG00000023191	0.464	1.3793	1.1399E-08	3.0878E-07	RNH1	ribonuclease/angiogenin inhib protein_cc	11	494512	507300	-1	p15.5
ENSG00000170113	0.4637	1.379	5.5826E-07	1.1098E-05	NIPA1	non imprinted in Prader-Willi/ protein_cc	15	22773063	22829791	1	q11.2
ENSG00000162604	0.4637	1.379	0.0039	0.0242	TM2D1	TM2 domain containing 1 [Sou protein_cc	1	61681046	61725423	-1	p31.3
ENSG00000219545	0.4631	1.3785	0.0005	0.0046	UMAD1	UBAP1-MVB12-associated (UM protein_cc	7	7640711	8004059	1	p21.3
ENSG00000081803	0.4631	1.3785	0.0029	0.0191	CADPS2	Ca++-dependent secretion acti protein_cc	7	1.22E+08	1.23E+08	-1	q31.32
ENSG00000109917	0.4624	1.3778	6.3645E-07	0.00001247	ZPR1	ZPR1 zinc finger [Source:HGNC protein_cc	11	1.17E+08	1.17E+08	-1	q23.3
ENSG00000144591	0.4624	1.3778	8.9301E-06	0.0001	GMPPA	GDP-mannose pyrophosphoryl protein_cc	2	2.19E+08	2.2E+08	1	q35
ENSG00000214253	0.4622	1.3777	0.0022	0.0152	FIS1	fission 1 (mitochondrial outer i protein_cc	7	1.01E+08	1.01E+08	-1	q22.1
ENSG00000269335	0.462	1.3774	0.0005	0.0043	IKBK	inhibitor of kappa light polypei protein_ccX		1.55E+08	1.55E+08	1	q28
ENSG00000196507	0.4611	1.3766	5.621E-06	8.7385E-05	TCEAL3	transcription elongation factor protein_ccX		1.04E+08	1.04E+08	1	q22.2
ENSG00000197982	0.4607	1.3762	0.0002	0.0021	C1orf122	chromosome 1 open reading fi protein_cc	1	37806979	37809454	1	p34.3
ENSG00000122778	0.4605	1.376	0.0016	0.0119	KIAA1549	KIAA1549 [Source:HGNC Symb protein_cc	7	1.39E+08	1.39E+08	-1	q34
ENSG00000152082	0.4593	1.3749	0.0017	0.0121	MZT2B	mitotic spindle organizing prot protein_cc	2	1.3E+08	1.3E+08	1	q21.1
ENSG00000145781	0.4594	1.3749	0.0089	0.0466	COMMD10	COMM domain containing 10 [ protein_cc	5	1.16E+08	1.16E+08	1	q23.1
ENSG00000152778	0.4591	1.3747	0.0007	0.0062	IFIT5	interferon-induced protein wit protein_cc	10	89414586	89421001	1	q23.31
ENSG00000229644	0.4586	1.3742	0.0076	0.0414	NAMPTP1	nicotinamide phosphoribosyltr processed_	10	36521721	36524234	-1	p11.21
ENSG00000072609	0.4584	1.374	0.0002	0.002	CHFR	checkpoint with forkhead and protein_cc	12	1.33E+08	1.33E+08	-1	q24.33
ENSG00000185803	0.4584	1.374	0.0052	0.0307	SLC52A2	solute carrier family 52 (ribofla protein_cc	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000099817	0.4575	1.3732	2.365E-13	1.2272E-11	POLR2E	polymerase (RNA) II (DNA dire protein_cc	19	1086579	1095380	-1	p13.3
ENSG00000165819	0.4572	1.3729	1.5873E-05	0.0002	METTL3	methyltransferase like 3 [Sour protein_cc	14	21498133	21511375	-1	q11.2
ENSG00000175701	0.4572	1.3729	0.006	0.0343	LINC00116	long intergenic non-protein co protein_cc	2	1.1E+08	1.1E+08	-1	q13
ENSG00000169490	0.4571	1.3728	0.0007	0.0058	TM2D2	TM2 domain containing 2 [Sou protein_cc	8	38988808	38996824	-1	p11.22
ENSG00000137693	0.4568	1.3725	3.7143E-06	6.0406E-05	YAP1	Yes-associated protein 1 [Sour protein_cc	11	1.02E+08	1.02E+08	1	q22.1
ENSG00000100300	0.4559	1.3716	7.8685E-05	0.0009	TSPO	translocator protein (18kDa) [S protein_cc	22	43151514	43163242	1	q13.2
ENSG00000157020	0.4558	1.3715	2.3483E-05	0.0003	SEC13	SEC13 homolog (S. cerevisiae) protein_cc	3	10293131	10321178	-1	p25.3
ENSG00000175634	0.4556	1.3713	0.00000187	3.2642E-05	RPS6KB2	ribosomal protein S6 kinase, 7l protein_cc	11	67428460	67435408	1	q13.2
ENSG00000182165	0.4554	1.3711	0.0002	0.0022	TP53TG1	TP53 target 1 (non-protein cod lincRNA	7	87325225	87345515	-1	q21.12

ENSG0000081923	0.4553	1.371	1.6078E-05	0.0002	ATP8B1	ATPase, aminophospholipid tr; protein_cc	18	57646426	57803101	-1	q21.31
ENSG00000159063	0.455	1.3708	0.0013	0.0101	ALG8	ALG8, alpha-1,3-glucosyltransf protein_cc	11	78100936	78139660	-1	q14.1
ENSG00000166579	0.4547	1.3705	1.2502E-07	2.8475E-06	NDEL1	nudE neurodevelopment prote protein_cc	17	8413131	8490411	1	p13.1
ENSG00000164111	0.4541	1.37	0.0005	0.0049	ANXA5	annexin A5 [Source:HGNC Sym protein_cc	4	1.22E+08	1.22E+08	-1	q27
ENSG00000104915	0.4537	1.3696	1.657E-06	2.9219E-05	STX10	syntaxin 10 [Source:HGNC Symr protein_cc	19	13144058	13150383	-1	p13.13
ENSG00000198060	0.4537	1.3696	6.3703E-06	9.7443E-05	MARCH5	membrane-associated ring fing protein_cc	10	92291163	92353964	1	q23.32
ENSG00000171953	0.4538	1.3696	8.5195E-05	0.001	ATPAF2	ATP synthase mitochondrial F1 protein_cc	17	17977409	18039209	-1	p11.2
ENSG00000065615	0.4535	1.3693	0.0005	0.0042	CYB5R4	cytochrome b5 reductase 4 [Sc protein_cc	6	83859643	83967424	1	q14.2
ENSG0000020426	0.4532	1.3691	4.2271E-05	0.0005	MNAT1	MNAT CDK-activating kinase a; protein_cc	14	60734742	60969953	1	q23.1
ENSG00000111199	0.4532	1.369	0.0002	0.0017	TRPV4	transient receptor potential ca protein_cc	12	1.1E+08	1.1E+08	-1	q24.11
ENSG00000175606	0.453	1.3689	0.0011	0.0088	TMEM70	transmembrane protein 70 [Sc protein_cc	8	73972437	73982783	1	q21.11
ENSG00000198951	0.4528	1.3687	0.0001	0.0014	NAGA	N-acetylgalactosaminidase, al; protein_cc	22	42058354	42070842	-1	q13.2
ENSG00000180104	0.4527	1.3686	0.0003	0.0031	EXOC3	exocyst complex component 3 protein_cc	5	443158	471937	1	p15.33
ENSG00000173621	0.4526	1.3685	0.0021	0.0147	LRFN4	leucine rich repeat and fibrone protein_cc	11	66856647	66860475	1	q13.2
ENSG00000214530	0.4519	1.3678	0.0007	0.0061	STARD10	StAR-related lipid transfer (STA protein_cc	11	72754729	72794168	-1	q13.4
ENSG00000115514	0.4519	1.3678	0.0011	0.0089	TXNDC9	thioredoxin domain containing protein_cc	2	99318982	99340702	-1	q11.2
ENSG00000108961	0.4516	1.3676	0.0002	0.002	RANGRF	RAN guanine nucleotide releas protein_cc	17	8288497	8290092	1	p13.1
ENSG00000104671	0.4517	1.3676	0.0013	0.01	DCTN6	dynactin 6 [Source:HGNC Sym; protein_cc	8	30156297	30183640	1	p12
ENSG00000186834	0.4511	1.3671	1.7947E-05	0.0002	HEXIM1	hexamethylene bis-acetamide protein_cc	17	45148502	45152101	1	q21.31
ENSG00000154518	0.4511	1.3671	0.0011	0.0087	ATP5G3	ATP synthase, H+ transporting, protein_cc	2	1.75E+08	1.75E+08	-1	q31.1
ENSG00000111300	0.4509	1.3669	1.6006E-06	2.8351E-05	NAA25	N(alpha)-acetyltransferase 25, protein_cc	12	1.12E+08	1.12E+08	-1	q24.13
ENSG00000175938	0.4507	1.3667	0.0001	0.0015	ORAI3	ORAI calcium release-activatec protein_cc	16	30949066	30956461	1	p11.2
ENSG00000105699	0.4497	1.3658	0.0006	0.0053	LSR	lipolysis stimulated lipoprotein protein_cc	19	35248330	35267964	1	q13.12
ENSG00000121350	0.4495	1.3656	0.0003	0.0031	PYROXD1	pyridine nucleotide-disulphide protein_cc	12	21437615	21471252	1	p12.1
ENSG00000136153	0.4492	1.3653	3.9061E-06	6.3255E-05	LMO7	LIM domain 7 [Source:HGNC S; protein_cc	13	75620434	75859870	1	q22.2
ENSG00000124201	0.4492	1.3653	0.0014	0.0104	ZNFX1	zinc finger, NFX1-type containi protein_cc	20	49237946	49278426	-1	q13.13
ENSG00000151229	0.4493	1.3653	0.0024	0.0165	SLC2A13	solute carrier family 2 (facilitat protein_cc	12	39755021	40106089	-1	q12
ENSG00000167283	0.4491	1.3652	0.0012	0.0092	ATP5L	ATP synthase, H+ transporting, protein_cc	11	1.18E+08	1.18E+08	1	q23.3
ENSG00000119812	0.449	1.3651	9.6407E-06	0.0001	FAM98A	family with sequence similarity protein_cc	2	33583658	33599382	-1	p22.3
ENSG00000115841	0.4487	1.3648	0.0023	0.0156	RMDN2	regulator of microtubule dynai protein_cc	2	37923187	38067142	1	p22.2
ENSG00000168214	0.4485	1.3646	2.8007E-09	8.3598E-08	RBPJ	recombination signal binding p protein_cc	4	26163455	26435131	1	p15.2
ENSG00000114209	0.4485	1.3646	0.0008	0.0064	PDCD10	programmed cell death 10 [So; protein_cc	3	1.68E+08	1.68E+08	-1	q26.1
ENSG00000090520	0.4481	1.3643	1.3513E-06	2.4416E-05	DNAJB11	DnaJ (Hsp40) homolog, subfam protein_cc	3	1.87E+08	1.87E+08	1	q27.3
ENSG00000142606	0.4479	1.3641	0.0087	0.0456	MMEL1	membrane metallo-endopeptii protein_cc	1	2590639	2632990	-1	p36.32
ENSG00000080561	0.4479	1.364	0.0006	0.0055	MID2	midline 2 [Source:HGNC Symb; protein_ccX		1.08E+08	1.08E+08	1	q22.3
ENSG00000138794	0.4478	1.3639	8.568E-06	0.0001	CASP6	caspace 6, apoptosis-related c; protein_cc	4	1.1E+08	1.1E+08	-1	q25
ENSG00000198538	0.4477	1.3639	2.0175E-05	0.0003	ZNF28	zinc finger protein 28 [Source:l protein_cc	19	52797409	52857600	-1	q13.41
ENSG00000133731	0.4478	1.3639	0.0002	0.0017	IMP1	inositol(myo)-1(or 4)-monophc protein_cc	8	81657961	81686693	-1	q21.13
ENSG00000155287	0.4475	1.3637	0.0061	0.0348	SLC25A28	solute carrier family 25 (mitoc; protein_cc	10	99610522	99620609	-1	q24.2
ENSG00000100243	0.4472	1.3634	0.0002	0.0023	CYB5R3	cytochrome b5 reductase 3 [Sc protein_cc	22	42617840	42649568	-1	q13.2
ENSG00000105963	0.4472	1.3634	0.0055	0.0317	ADAP1	ArfGAP with dual PH domains ; protein_cc	7	897901	955407	-1	p22.3

ENSG0000013275	0.447	1.3632	5.3833E-08	1.2921E-06	PSMC4	proteasome (prosome, macroprotein_cc	19	39971005	39981441	1	q13.2
ENSG00000112473	0.4469	1.3631	0.003	0.0196	SLC39A7	solute carrier family 39 (zinc tr protein_cc	6	33200445	33204439	1	p21.32
ENSG00000162688	0.4468	1.363	5.0508E-05	0.0006	AGL	amylo-alpha-1, 6-glucosidase, protein_cc	1	99850084	99924023	1	p21.2
ENSG00000150779	0.4456	1.3619	0.0075	0.0406	TIMM8B	translocase of inner mitochondr protein_cc	11	1.12E+08	1.12E+08	-1	q23.1
ENSG0000006015	0.445	1.3613	8.9685E-06	0.0001	C19orf60	chromosome 19 open reading protein_cc	19	18588685	18592336	1	p13.11
ENSG00000129245	0.4448	1.3612	0.00001492	0.0002	FXR2	fragile X mental retardation, a protein_cc	17	7591230	7614871	-1	p13.1
ENSG00000151332	0.4446	1.361	0.0039	0.0244	MBIP	MAP3K12 binding inhibitory pr protein_cc	14	36298558	36320676	-1	q13.3
ENSG00000177425	0.4438	1.3602	1.5126E-05	0.0002	PAWR	PRKC, apoptosis, WT1, regulati protein_cc	12	79574979	79691097	-1	q21.2
ENSG00000183155	0.4436	1.3599	2.7343E-07	5.7987E-06	RABIF	RAB interacting factor [Source: protein_cc	1	2.03E+08	2.03E+08	-1	q32.1
ENSG00000172493	0.4433	1.3597	0.0005	0.0044	AFF1	AF4/FMR2 family, member 1 [ protein_cc	4	86935002	87141054	1	q21.3
ENSG00000137312	0.4431	1.3595	1.4839E-06	2.6461E-05	FLOT1	flotillin 1 [Source:HGNC Symbc protein_cc	6	30727709	30742733	-1	p21.33
ENSG00000187210	0.4425	1.359	0.0006	0.0049	GCNT1	glucosaminyl (N-acetyl) transfe protein_cc	9	76419850	76507416	1	q21.13
ENSG00000140264	0.4423	1.3588	0.0003	0.0025	SERF2	small EDRK-rich factor 2 [Sourc protein_cc	15	43777087	43802589	1	q15.3
ENSG00000169188	0.4422	1.3587	2.2317E-05	0.0003	APEX2	APEX nuclease (apurinic/apyrir protein_ccX		55000357	55009057	1	p11.21
ENSG00000112110	0.442	1.3585	0.0008	0.0069	MRPL18	mitochondrial ribosomal prote protein_cc	6	1.6E+08	1.6E+08	1	q25.3
ENSG00000134809	0.4419	1.3584	0.0025	0.0168	TIMM10	translocase of inner mitochondr protein_cc	11	57528463	57530803	-1	q12.1
ENSG00000065154	0.4419	1.3584	0.0032	0.0207	OAT	ornithine aminotransferase [Sc protein_cc	10	1.24E+08	1.24E+08	-1	q26.13
ENSG00000125734	0.4418	1.3583	5.5265E-07	1.0998E-05	GPR108	G protein-coupled receptor 10 protein_cc	19	6729914	6737603	-1	p13.3
ENSG00000187051	0.4418	1.3583	0.0025	0.0171	RPS19BP1	ribosomal protein S19 binding protein_cc	22	39529093	39532855	-1	q13.1
ENSG00000159423	0.4412	1.3578	0.008	0.043	ALDH4A1	aldehyde dehydrogenase 4 fan protein_cc	1	18871430	18902781	-1	p36.13
ENSG00000185499	0.441	1.3575	0.0038	0.0235	MUC1	mucin 1, cell surface associate protein_cc	1	1.55E+08	1.55E+08	-1	q22
ENSG00000242802	0.4408	1.3574	2.4608E-05	0.0003	AP5Z1	adaptor-related protein compl protein_cc	7	4737388	4794395	1	p22.1
ENSG00000075651	0.4407	1.3573	1.6712E-09	5.1954E-08	PLD1	phospholipase D1, phosphatid protein_cc	3	1.72E+08	1.72E+08	-1	q26.31
ENSG00000169084	0.4405	1.3571	0.0021	0.0148	DHRSX	dehydrogenase/reductase (SD) protein_ccX		2219516	2502805	-1	p22.33
ENSG00000242612	0.4406	1.3571	0.006	0.0343	DECR2	2,4-dienoyl CoA reductase 2, p protein_cc	16	401826	412487	1	p13.3
ENSG00000155975	0.4402	1.3568	0.0000405	0.0005	VPS37A	vacuolar protein sorting 37 ho protein_cc	8	17246571	17302427	1	p22
ENSG00000104756	0.4402	1.3567	0.0002	0.0018	KCTD9	potassium channel tetrameriz protein_cc	8	25427847	25458476	-1	p21.2
ENSG00000135655	0.4401	1.3567	0.0008	0.0064	USP15	ubiquitin specific peptidase 15 protein_cc	12	62260338	62417431	1	q14.1
ENSG00000132825	0.44	1.3566	0.0009	0.0075	PPP1R3D	protein phosphatase 1, regulat protein_cc	20	59936668	59940297	-1	q13.33
ENSG00000134398	0.4394	1.3561	0.0098	0.0497	ERN2	endoplasmic reticulum to nucl protein_cc	16	23690326	23713500	-1	p12.2
ENSG00000111196	0.4393	1.356	0.0031	0.0201	MAGOHB	mago-nashi homolog B (Droso) protein_cc	12	10604190	10613623	-1	p13.2
ENSG00000101343	0.4391	1.3557	0.0001	0.0016	CRNKL1	crooked neck pre-mRNA splici protein_cc	20	20034368	20056046	-1	p11.23
ENSG00000172766	0.4389	1.3555	0.0009	0.0071	NAA16	N(alpha)-acetyltransferase 16, protein_cc	13	41311205	41377030	1	q14.11
ENSG00000182108	0.4387	1.3554	0.0002	0.0021	DEXI	Dexi homolog (mouse) [Source protein_cc	16	10928891	10942460	-1	p13.13
ENSG00000112031	0.4385	1.3552	4.0775E-06	6.5696E-05	MTRF1L	mitochondrial translational rel protein_cc	6	1.53E+08	1.53E+08	-1	q25.2
ENSG00000213699	0.4383	1.355	0.0088	0.046	SLC35F6	solute carrier family 35, memb protein_cc	2	26764284	26781231	1	p23.3
ENSG00000099977	0.4377	1.3544	4.0444E-05	0.0005	DDT	D-dopachrome tautomerase [S protein_cc	22	23971365	23980469	-1	q11.23
ENSG00000112679	0.4365	1.3533	0.001	0.0079	DUSP22	dual specificity phosphatase 2; protein_cc	6	291630	351355	1	p25.3
ENSG00000107816	0.4362	1.353	0.0016	0.0116	LZTS2	leucine zipper, putative tumor protein_cc	10	1.01E+08	1.01E+08	1	q24.31
ENSG00000156171	0.436	1.3528	0.0017	0.0122	DRAM2	DNA-damage regulated autopl protein_cc	1	1.11E+08	1.11E+08	-1	p13.3
ENSG00000066322	0.4359	1.3527	1.3735E-06	0.00002477	ELOVL1	ELOVL fatty acid elongase 1 [Sc protein_cc	1	43363397	43368074	-1	p34.2

ENSG00000155275	0.4359	1.3527	0.002	0.0139	TRMT44	tRNA methyltransferase 44 ho protein_cc	4	8436140	8493531	1	p16.1
ENSG00000165030	0.4357	1.3526	0.0009	0.0076	NFIL3	nuclear factor, interleukin 3 re protein_cc	9	91409045	91423862	-1	q22.31
ENSG00000175197	0.4357	1.3525	0.0093	0.048	DDIT3	DNA-damage-inducible transcr protein_cc	12	57516588	57520517	-1	q13.3
ENSG00000070495	0.4354	1.3523	0.0002	0.0018	JMJD6	jumonji domain containing 6 [S protein_cc	17	76712832	76726799	-1	q25.1
ENSG00000171307	0.4348	1.3518	0.0005	0.0047	ZDHC16	zinc finger, DHC-type contain protein_cc	10	97446131	97457370	1	q24.1
ENSG00000205213	0.4346	1.3515	0.0002	0.0023	LGR4	leucine-rich repeat containing protein_cc	11	27365961	27472775	-1	p14.1
ENSG00000204264	0.4344	1.3514	2.3214E-08	5.9074E-07	PSMB8	proteasome (prosome, macro protein_cc	6	32840717	32844703	-1	p21.32
ENSG00000156261	0.434	1.351	1.9888E-05	0.0003	CCT8	chaperonin containing TCP1, si protein_cc	21	29055805	29073797	-1	q21.3
ENSG00000101182	0.4339	1.3509	1.0177E-05	0.0001	PSMA7	proteasome (prosome, macro protein_cc	20	62136735	62143440	-1	q13.33
ENSG00000115159	0.4334	1.3504	3.7268E-06	6.0557E-05	GP2	glycerol-3-phosphate dehydro protein_cc	2	1.56E+08	1.57E+08	1	q24.1
ENSG00000168701	0.4334	1.3504	2.3936E-05	0.0003	TMEM208	transmembrane protein 208 [S protein_cc	16	67227103	67229278	1	q22.1
ENSG00000134152	0.4333	1.3503	0.0048	0.0286	KATNBL1	katanin p80 subunit B-like 1 [S protein_cc	15	34140674	34210096	-1	q14
ENSG00000165264	0.4322	1.3493	0.0008	0.0067	NDUFB6	NADH dehydrogenase (ubiquir protein_cc	9	32552999	32573184	-1	p21.1
ENSG00000077238	0.4319	1.349	0.0035	0.0223	IL4R	interleukin 4 receptor [Source: protein_cc	16	27313668	27364778	1	p12.1
ENSG00000108375	0.4317	1.3488	0.006	0.0339	RNF43	ring finger protein 43 [Source: protein_cc	17	58352500	58417595	-1	q22
ENSG00000179218	0.4317	1.3488	0.0071	0.039	CALR	calreticulin [Source:HGNC Sym protein_cc	19	12938578	12944489	1	p13.13
ENSG00000198380	0.4315	1.3487	9.3363E-05	0.001	GFPT1	glutamine-fructose-6-phosph protein_cc	2	69319769	69387254	-1	p13.3
ENSG00000168653	0.4315	1.3487	0.0006	0.0054	NDUFS5	NADH dehydrogenase (ubiquir protein_cc	1	39026318	39034636	1	p34.3
ENSG00000167004	0.4312	1.3483	0.0049	0.029	PDIA3	protein disulfide isomerase far protein_cc	15	43746392	43773279	1	q15.3
ENSG00000044115	0.4304	1.3476	1.2374E-07	2.8222E-06	CTNNA1	catenin (cadherin-associated p protein_cc	5	1.39E+08	1.39E+08	1	q31.2
ENSG00000124831	0.43	1.3473	4.1188E-06	6.6137E-05	LRRFIP1	leucine rich repeat (in FLII) inte protein_cc	2	2.38E+08	2.38E+08	1	q37.3
ENSG00000113407	0.4292	1.3465	3.0203E-05	0.0004	TARS	threonyl-tRNA synthetase [Sou protein_cc	5	33440696	33469539	1	p13.3
ENSG00000002330	0.4288	1.3461	0.0085	0.045	BAD	BCL2-associated agonist of cell protein_cc	11	64269830	64284704	-1	q13.1
ENSG00000179152	0.4284	1.3457	2.3001E-07	4.9663E-06	TCAIM	T cell activation inhibitor, mito protein_cc	3	44338119	44409451	1	p21.31
ENSG00000107643	0.4283	1.3457	0.0003	0.0028	MAPK8	mitogen-activated protein kin protein_cc	10	48306639	48439360	1	q11.22
ENSG00000239305	0.4284	1.3457	0.0003	0.003	RNF103	ring finger protein 103 [Source protein_cc	2	86603393	86623866	-1	p11.2
ENSG00000116209	0.4279	1.3453	0.0001	0.0016	TMEM59	transmembrane protein 59 [Sc protein_cc	1	54031663	54053504	-1	p32.3
ENSG00000130958	0.4278	1.3452	0.0001	0.0014	SLC35D2	solute carrier family 35 (UDP-C protein_cc	9	96320706	96383710	-1	q22.32
ENSG00000099341	0.4276	1.345	3.6358E-14	2.0731E-12	PSMD8	proteasome (prosome, macro protein_cc	19	38374536	38383824	1	q13.2
ENSG00000117519	0.4258	1.3433	0.0084	0.0445	CNN3	calponin 3, acidic [Source:HGNC protein_cc	1	94896949	94927278	-1	p21.3
ENSG00000120509	0.4256	1.3431	0.0009	0.0076	PDZD11	PDZ domain containing 11 [Sou protein_cc X		70286595	70290514	-1	q13.1
ENSG00000138642	0.4256	1.3431	0.0037	0.0232	HERC6	HECT and RLD domain containi protein_cc	4	88378739	88443111	1	q22.1
ENSG00000152904	0.4252	1.3428	9.7408E-09	2.6846E-07	GGPS1	geranylgeranyl diphosphate sy protein_cc	1	2.35E+08	2.35E+08	1	q42.3
ENSG00000090686	0.4253	1.3428	1.1096E-05	0.0002	USP48	ubiquitin specific peptidase 48 protein_cc	1	21678298	21783606	-1	p36.12
ENSG00000108039	0.4249	1.3425	2.4097E-06	4.0756E-05	XPNPPE1	X-prolyl aminopeptidase (amin protein_cc	10	1.1E+08	1.1E+08	-1	q25.1
ENSG00000119041	0.4246	1.3422	0.0004	0.0039	GTF3C3	general transcription factor IIIc protein_cc	2	1.97E+08	1.97E+08	-1	q33.1
ENSG00000139793	0.4242	1.3418	0.0002	0.0018	MBNL2	muscleblind-like splicing regul protein_cc	13	97221434	97394120	1	q32.1
ENSG00000171530	0.4239	1.3415	0.0023	0.016	TBCA	tubulin folding cofactor A [Sou protein_cc	5	77691166	77868780	-1	q14.1
ENSG00000120725	0.4236	1.3413	2.9078E-06	4.8321E-05	SIL1	SIL1 nucleotide exchange fact protein_cc	5	1.39E+08	1.39E+08	-1	q31.2
ENSG00000107140	0.4236	1.3413	2.4459E-05	0.0003	TESK1	testis-specific kinase 1 [Source protein_cc	9	35605305	35610041	1	p13.3
ENSG00000198431	0.423	1.3407	0.0007	0.0061	TXNRD1	thioredoxin reductase 1 [Sour protein_cc	12	1.04E+08	1.04E+08	1	q23.3



ENSG00000114520	0.423	1.3407	0.0034	0.0217 SNX4	sorting nexin 4 [Source:HGNC;!protein_cc	3	1.25E+08	1.26E+08	-1	q21.2
ENSG00000145214	0.4228	1.3406	0.0015	0.0114 DGKQ	diacylglycerol kinase, theta 11 (protein_cc	4	958885	986895	-1	p16.3
ENSG00000144655	0.4228	1.3405	0.0056	0.0324 CSRNIP1	cysteine-serine-rich nuclear pr protein_cc	3	39141855	39154562	-1	p22.2
ENSG00000070785	0.4213	1.3392	0.0002	0.0017 EIF2B3	eukaryotic translation initiation protein_cc	1	44850522	44986722	-1	p34.1
ENSG00000103227	0.4214	1.3392	0.0028	0.0187 LMF1	lipase maturation factor 1 [Sou protein_cc	16	853634	981318	-1	p13.3
ENSG00000119048	0.4214	1.3392	0.0039	0.0242 UBE2B	ubiquitin-conjugating enzyme protein_cc	5	1.34E+08	1.34E+08	1	q31.1
ENSG00000147155	0.4211	1.3389	9.5904E-06	0.0001 EBP	emopamil binding protein (ste protein_cc X		48521158	48528716	1	p11.23
ENSG00000111737	0.421	1.3389	2.3114E-05	0.0003 RAB35	RAB35, member RAS oncogene protein_cc	12	1.2E+08	1.2E+08	-1	q24.23
ENSG00000106400	0.4209	1.3388	0.0002	0.0017 ZNHIT1	zinc finger, HIT-type containing protein_cc	7	1.01E+08	1.01E+08	1	q22.1
ENSG00000146066	0.4209	1.3388	0.0019	0.0133 HIGD2A	HIG1 hypoxia inducible domain protein_cc	5	1.76E+08	1.76E+08	1	q35.2
ENSG00000071127	0.4208	1.3387	0.001	0.0077 WDR1	WD repeat domain 1 [Source:f protein_cc	4	10074339	10116949	-1	p16.1
ENSG00000172663	0.4208	1.3387	0.0012	0.0091 TMEM134	transmembrane protein 134 [S protein_cc	11	67461710	67469272	-1	q13.2
ENSG00000140406	0.4205	1.3384	0.0016	0.0119 MESDC1	mesoderm development candi protein_cc	15	81000944	81005788	1	q25.1
ENSG00000172115	0.4204	1.3383	6.5437E-05	0.0008 CYCS	cytochrome c, somatic [Source protein_cc	7	25120091	25125361	-1	p15.3
ENSG00000115762	0.4203	1.3382	5.5689E-15	3.4101E-13 PLEKHB2	pleckstrin homology domain cc protein_cc	2	1.31E+08	1.31E+08	1	q21.1
ENSG00000013523	0.4203	1.3382	0.0002	0.002 ANGEL1	angel homolog 1 (Drosophila)   protein_cc	14	76787243	76826246	-1	q24.3
ENSG00000169131	0.4202	1.3381	0.0029	0.0191 ZNF354A	zinc finger protein 354A [Sour protein_cc	5	1.79E+08	1.79E+08	-1	q35.3
ENSG00000153246	0.42	1.3379	0.0003	0.0029 PLA2R1	phospholipase A2 receptor 1, ; protein_cc	2	1.6E+08	1.6E+08	-1	q24.2
ENSG00000160446	0.4197	1.3377	0.0003	0.0033 ZDHHC12	zinc finger, DHHC-type contain protein_cc	9	1.29E+08	1.29E+08	-1	q34.11
ENSG00000173692	0.4197	1.3376	1.3617E-11	5.7247E-10 PSMD1	proteasome (prosome, macro; protein_cc	2	2.31E+08	2.31E+08	1	q37.1
ENSG00000121073	0.4197	1.3376	6.2737E-06	9.6119E-05 SLC35B1	solute carrier family 35, memb protein_cc	17	49700943	49709014	-1	q21.33
ENSG00000277791	0.4197	1.3376	0.0004	0.0037 PSMB3	proteasome (prosome, macro; protein_cc	17	38752736	38764231	1	q12
ENSG00000171421	0.4192	1.3372	0.0017	0.0121 MRPL36	mitochondrial ribosomal prote protein_cc	5	1798386	1801366	-1	p15.33
ENSG00000189266	0.4189	1.3369	0.0004	0.0038 PNRC2	proline-rich nuclear receptor c protein_cc	1	23959109	23963462	1	p36.11
ENSG00000221963	0.4182	1.3363	0.0002	0.0023 APOL6	apolipoprotein L, 6 [Source:HG protein_cc	22	35648395	35668409	1	q12.3
ENSG00000107020	0.4179	1.336	7.3226E-05	0.0008 PLGRKT	plasminogen receptor, C-termi protein_cc	9	5357973	5437878	-1	p24.1
ENSG00000115415	0.4177	1.3358	0.0028	0.0185 STAT1	signal transducer and activator protein_cc	2	1.91E+08	1.91E+08	-1	q32.2
ENSG00000145555	0.4172	1.3353	0.0004	0.0035 MYO10	myosin X [Source:HGNC Symb; protein_cc	5	16661914	16936276	-1	p15.1
ENSG00000006625	0.4168	1.335	0.0001	0.0012 GGCT	gamma-glutamylcyclotransfer; protein_cc	7	30496621	30551479	-1	p14.3
ENSG00000163754	0.4165	1.3347	3.783E-07	7.8222E-06 GYG1	glycogenin 1 [Source:HGNC Sy; protein_cc	3	1.49E+08	1.49E+08	1	q24
ENSG00000104904	0.4164	1.3346	2.1382E-06	3.6718E-05 OAZ1	ornithine decarboxylase antizy protein_cc	19	2269509	2273490	1	p13.3
ENSG00000110104	0.4162	1.3344	0.0012	0.0091 CCDC86	coiled-coil domain containing ; protein_cc	11	60842071	60851081	1	q12.2
ENSG00000113734	0.4155	1.3337	0.0084	0.0445 BNIP1	BCL2/adenovirus E1B 19kDa in protein_cc	5	1.73E+08	1.73E+08	1	q35.1
ENSG00000140848	0.415	1.3333	0.0085	0.0448 CPNE2	copine II [Source:HGNC Symb; protein_cc	16	57092537	57148367	1	q13
ENSG00000104687	0.4151	1.3333	0.0091	0.0475 GSR	glutathione reductase [Source: protein_cc	8	30678061	30727926	-1	p12
ENSG00000130731	0.4149	1.3332	0.0019	0.0134 C16orf13	chromosome 16 open reading protein_cc	16	634427	636366	-1	p13.3
ENSG00000136152	0.4148	1.3331	0.0002	0.0025 COG3	component of oligomeric golgi protein_cc	13	45464898	45536630	1	q14.13
ENSG00000103978	0.414	1.3324	4.8657E-05	0.0006 TMEM87A	transmembrane protein 87A [S protein_cc	15	42210452	42273663	-1	q15.1
ENSG00000134375	0.414	1.3324	0.0016	0.0117 TIMM17A	translocase of inner mitochon; protein_cc	1	2.02E+08	2.02E+08	1	q32.1
ENSG00000105835	0.4137	1.3321	0.0019	0.0133 NAMPT	nicotinamide phosphoribosyltr protein_cc	7	1.06E+08	1.06E+08	-1	q22.3
ENSG00000188938	0.4134	1.3319	0.0002	0.0019 FAM120AOS	family with sequence similarity protein_cc	9	93446494	93453592	-1	q22.31

ENSG00000175756	0.4129	1.3314	6.2421E-05	0.0007	AURKAIP1	aurora kinase A interacting prc protein_cc	1	1373730	1375495	-1	p36.33
ENSG00000122033	0.4129	1.3313	0.0011	0.0087	MTIF3	mitochondrial translational inii protein_cc	13	27435643	27450591	-1	q12.2
ENSG00000134480	0.4126	1.3311	2.3503E-06	3.9916E-05	CCNH	cyclin H [Source:HGNC Symbol protein_cc	5	87391494	87413019	-1	q14.3
ENSG00000175054	0.4122	1.3307	4.6741E-06	7.4054E-05	ATR	ATR serine/threonine kinase [S protein_cc	3	1.42E+08	1.43E+08	-1	q23
ENSG00000162927	0.4117	1.3303	0.0059	0.0337	PUS10	pseudouridylyl synthase 10 [S protein_cc	2	60940222	61018259	-1	p15
ENSG00000153037	0.4116	1.3302	0.0007	0.0058	SRP19	signal recognition particle 19kI protein_cc	5	1.13E+08	1.13E+08	1	q22.2
ENSG00000105971	0.4117	1.3302	0.0042	0.0258	CAV2	caveolin 2 [Source:HGNC Symt protein_cc	7	1.16E+08	1.17E+08	1	q31.2
ENSG00000165898	0.4116	1.3301	0.0082	0.0437	ISCA2	iron-sulfur cluster assembly 2 [ protein_cc	14	74493720	74497106	1	q24.3
ENSG00000232119	0.4114	1.33	0.0004	0.0037	MCTS1	malignant T cell amplified sequ protein_ccX		1.21E+08	1.21E+08	1	q24
ENSG00000167543	0.4107	1.3293	0.0011	0.0084	TP53I13	tumor protein p53 inducible pr protein_cc	17	29566052	29573157	1	q11.2
ENSG00000132432	0.4106	1.3293	0.0045	0.027	SEC61G	Sec61 gamma subunit [Source: protein_cc	7	54752250	54759974	-1	p11.2
ENSG00000116473	0.4102	1.3289	0.001	0.0079	RAP1A	RAP1A, member of RAS oncog protein_cc	1	1.12E+08	1.12E+08	1	p13.2
ENSG00000137628	0.4101	1.3288	0.0057	0.0328	DDX60	DEAD (Asp-Glu-Ala-Asp) box pr protein_cc	4	1.68E+08	1.68E+08	-1	q32.3
ENSG00000169093	0.4096	1.3283	0.0002	0.0018	ASMTL	acetylserotonin O-methyltrans protein_ccX		1403139	1453762	-1	p22.33
ENSG00000137955	0.4091	1.3278	0.0021	0.0144	RABGGTB	Rab geranylgeranyltransferase protein_cc	1	75786197	75795079	1	p31.1
ENSG00000151276	0.409	1.3277	0.0014	0.0105	MAGI1	membrane associated guanyla protein_cc	3	65353525	66038834	-1	p14.1
ENSG00000102871	0.4087	1.3275	0.0003	0.0026	TRADD	TNFRSF1A-associated via deatl protein_cc	16	67154180	67160298	-1	q22.1
ENSG00000149761	0.4086	1.3274	0.0011	0.0085	NUDT22	nudix (nucleoside diphosphate protein_cc	11	64225941	64230686	1	q13.1
ENSG00000213614	0.4084	1.3272	0.0001	0.0015	HEXA	hexosaminidase A (alpha poly protein_cc	15	72340919	72376476	-1	q23
ENSG00000137106	0.4082	1.327	2.0172E-08	5.2053E-07	GRHPR	glyoxylate reductase/hydroxy protein_cc	9	37422666	37436990	1	p13.2
ENSG00000164983	0.4079	1.3267	0.0056	0.0325	TMEM65	transmembrane protein 65 [Sc protein_cc	8	1.24E+08	1.24E+08	-1	q24.13
ENSG00000103035	0.4076	1.3265	2.7608E-06	4.6161E-05	PSMD7	proteasome (prosome, macro protein_cc	16	74296775	74306288	1	q23.1
ENSG00000006025	0.4074	1.3263	0.0043	0.026	OSBPL7	oxysterol binding protein-like 7 protein_cc	17	47807372	47821834	-1	q21.32
ENSG00000136193	0.407	1.3259	1.2755E-10	4.6891E-09	SCRN1	secernin 1 [Source:HGNC Symt protein_cc	7	29920103	29990289	-1	p14.3
ENSG00000086065	0.4069	1.3258	0.0033	0.0209	CHMP5	charged multivesicular body pr protein_cc	9	33264879	33282069	1	p13.3
ENSG00000101473	0.4066	1.3256	0.0001	0.0015	ACOT8	acyl-CoA thioesterase 8 [Sourc protein_cc	20	45841721	45857406	-1	q13.12
ENSG00000110717	0.4059	1.3249	3.7226E-05	0.0005	NDUFS8	NADH dehydrogenase (ubiquir protein_cc	11	68030617	68036644	1	q13.2
ENSG00000129083	0.4057	1.3248	5.3828E-06	8.3955E-05	COPB1	coatomer protein complex, sul protein_cc	11	14443440	14500027	-1	p15.2
ENSG00000167085	0.4047	1.3238	7.7294E-07	1.4854E-05	PHB	prohibitin [Source:HGNC Symb protein_cc	17	49404049	49414905	-1	q21.33
ENSG00000091483	0.4045	1.3236	0.0031	0.02	FH	fumarate hydratase [Source:Hi protein_cc	1	2.41E+08	2.42E+08	-1	q43
ENSG00000042753	0.4041	1.3232	0.00003225	0.0004	AP2S1	adaptor-related protein compl protein_cc	19	46838136	46850992	-1	q13.32
ENSG00000227640	0.4038	1.323	0.0033	0.0212	SOX21-AS1	SOX21 antisense RNA 1 (head ilincRNA	13	94712716	94716246	1	q32.1
ENSG00000131089	0.4036	1.3228	0.0002	0.0022	ARHGEF9	Cdc42 guanine nucleotide excf protein_ccX		63634967	63809274	-1	q11.2
ENSG00000116898	0.4034	1.3226	2.2296E-05	0.0003	MRPS15	mitochondrial ribosomal prote protein_cc	1	36455718	36464437	-1	p34.3
ENSG00000140374	0.4028	1.3221	8.4225E-06	0.0001	ETFA	electron-transfer-flavoprotein, protein_cc	15	76215355	76311472	-1	q24.3
ENSG00000137996	0.4028	1.3221	0.0007	0.0057	RTCA	RNA 3'-terminal phosphate cyc protein_cc	1	1E+08	1E+08	1	p21.2
ENSG00000103260	0.4028	1.3221	0.002	0.0139	METRN	meteorin, glial cell differentiat protein_cc	16	715115	719655	1	p13.3
ENSG00000172965	0.4027	1.322	0.0096	0.049	MIR4435-1HG	MIR4435-1 host gene (non-prc lincRNA	2	1.11E+08	1.11E+08	-1	q13
ENSG00000169155	0.4018	1.3212	0.0001	0.0011	ZBTB43	zinc finger and BTB domain cor protein_cc	9	1.27E+08	1.27E+08	1	q33.3
ENSG00000105171	0.4018	1.3212	0.0003	0.0025	POP4	processing of precursor 4, ribo protein_cc	19	29604017	29617237	1	q12
ENSG00000082212	0.4015	1.3209	2.3143E-06	3.9352E-05	ME2	malic enzyme 2, NAD(+)-deper protein_cc	18	50879049	50954257	1	q21.2

ENSG00000125656	0.4014	1.3208	1.939E-06	3.3599E-05	CLPP	caseinolytic mitochondrial mat protein_cc	19	6361452	6368908	1	p13.3
ENSG00000101310	0.4014	1.3208	7.6737E-06	0.0001	SEC23B	Sec23 homolog B (S. cerevisiae protein_cc	20	18507493	18561415	1	p11.23
ENSG00000115540	0.4011	1.3205	0.0016	0.0116	MOB4	MOB family member 4, phocei protein_cc	2	1.98E+08	1.98E+08	1	q33.1
ENSG00000177030	0.4007	1.3202	0.0008	0.0065	DEAF1	DEAF1 transcription factor [Soi protein_cc	11	644233	706715	-1	p15.5
ENSG00000167380	0.4006	1.3201	0.0002	0.0019	ZNF226	zinc finger protein 226 [Source protein_cc	19	44165073	44178381	1	q13.31
ENSG00000084754	0.4006	1.32	6.4218E-05	0.0007	HADHA	hydroxyacyl-CoA dehydrogenase protein_cc	2	26190635	26244726	-1	p23.3
ENSG00000149357	0.4	1.3195	8.0806E-08	1.8882E-06	LAMTOR1	late endosomal/lysosomal ada protein_cc	11	72085895	72103387	-1	q13.4
ENSG00000129559	0.3997	1.3192	0.0005	0.0042	NEDD8	neural precursor cell expresser protein_cc	14	24216852	24232454	-1	q12
ENSG00000196850	0.3995	1.3191	3.5922E-05	0.0005	PPTC7	PTC7 protein phosphatase hon protein_cc	12	1.11E+08	1.11E+08	-1	q24.11
ENSG00000166557	0.3995	1.319	0.0019	0.0138	TMED3	transmembrane emp24 protei protein_cc	15	79311062	79427432	1	q25.1
ENSG00000018510	0.3993	1.3189	0.0001	0.0014	AGPS	alkylglycerone phosphate synt protein_cc	2	1.77E+08	1.78E+08	1	q31.2
ENSG00000131473	0.399	1.3186	0.0016	0.0119	ACLY	ATP citrate lyase [Source:HGN protein_cc	17	41866908	41930542	-1	q21.2
ENSG00000109501	0.3987	1.3184	0.006	0.0342	WFS1	Wolfram syndrome 1 (wolfram protein_cc	4	6269849	6303265	1	p16.1
ENSG00000111725	0.3986	1.3182	0.00006112	0.0007	PRKAB1	protein kinase, AMP-activated, protein_cc	12	1.2E+08	1.2E+08	1	q24.23
ENSG00000198168	0.3983	1.318	0.0045	0.0274	SVIP	small VCP/p97-interacting prot protein_cc	11	22813799	22830299	-1	p14.3
ENSG00000115128	0.3977	1.3174	0.0045	0.0272	SF3B6	splicing factor 3b, subunit 6, 1c protein_cc	2	24067584	24076443	-1	p23.3
ENSG00000198860	0.3976	1.3173	0.0032	0.0207	TSEN15	TSEN15 tRNA splicing endonuc protein_cc	1	1.84E+08	1.84E+08	1	q25.3
ENSG00000164054	0.3972	1.317	0.0053	0.0312	SHISA5	shisa family member 5 [Source protein_cc	3	48467798	48504826	-1	p21.31
ENSG00000138107	0.3969	1.3167	0.0004	0.0036	ACTR1A	ARP1 actin-related protein 1 h protein_cc	10	1.02E+08	1.03E+08	-1	q24.32
ENSG00000155363	0.3964	1.3162	0.0058	0.0334	MOV10	Mov10 RISC complex RNA heli protein_cc	1	1.13E+08	1.13E+08	1	p13.2
ENSG00000023318	0.3961	1.316	0.0001	0.0015	ERP44	endoplasmic reticulum protein protein_cc	9	99979179	1E+08	-1	q31.1
ENSG00000113282	0.3962	1.316	0.0005	0.0049	CLINT1	clathrin interactor 1 [Source:H protein_cc	5	1.58E+08	1.58E+08	-1	q33.3
ENSG00000105669	0.3961	1.3159	2.109E-06	3.6249E-05	COPE	coatomer protein complex, sul protein_cc	19	18899514	18919397	-1	p13.11
ENSG00000120800	0.3961	1.3159	0.0002	0.0021	UTP20	UTP20, small subunit (SSU) prc protein_cc	12	1.01E+08	1.01E+08	1	q23.2
ENSG00000161057	0.3954	1.3153	2.1714E-05	0.0003	PSMC2	proteasome (prosome, macro protein_cc	7	1.03E+08	1.03E+08	1	q22.1
ENSG00000116704	0.3953	1.3152	0.0004	0.0034	SLC35D1	solute carrier family 35 (UDP-C protein_cc	1	66999332	67054099	-1	p31.3
ENSG00000100412	0.3948	1.3148	0.0023	0.0156	ACO2	aconitase 2, mitochondrial [So protein_cc	22	41469125	41528989	1	q13.2
ENSG00000169021	0.3945	1.3145	0.0003	0.0025	UQCRFS1	ubiquinol-cytochrome c reduct protein_cc	19	29205321	29213541	-1	q12
ENSG00000154723	0.3943	1.3143	0.0002	0.0019	ATP5J	ATP synthase, H+ transporting, protein_cc	21	25716503	25735673	-1	q21.3
ENSG00000163902	0.3941	1.3141	0.0002	0.0018	RPN1	ribophorin I [Source:HGNC Syn protein_cc	3	1.29E+08	1.29E+08	-1	q21.3
ENSG00000136908	0.3941	1.3141	0.0006	0.0049	DPM2	dolichyl-phosphate mannosylti protein_cc	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000113719	0.3937	1.3138	0.0002	0.0017	ERGIC1	endoplasmic reticulum-golgi in protein_cc	5	1.73E+08	1.73E+08	1	q35.1
ENSG00000063854	0.3936	1.3137	0.0032	0.0205	HAGH	hydroxyacylglutathione hydrol protein_cc	16	1795620	1827194	-1	p13.3
ENSG00000120526	0.3936	1.3137	0.005	0.0296	NUDCD1	NudC domain containing 1 [Soi protein_cc	8	1.09E+08	1.09E+08	-1	q23.1
ENSG00000197620	0.3934	1.3135	0.0013	0.01	CXorf40A	chromosome X open reading fi protein_ccX		1.5E+08	1.5E+08	1	q28
ENSG00000129465	0.3933	1.3134	0.0008	0.0067	RIPK3	receptor-interacting serine-thr protein_cc	14	24336021	24340045	-1	q12
ENSG00000224597	0.3931	1.3132	2.4549E-05	0.0003	SVIL-AS1	SVIL antisense RNA 1 [Source:l antisense	10	29409402	29487745	1	p11.23
ENSG00000181924	0.3924	1.3126	9.5783E-06	0.0001	COA4	cytochrome c oxidase assembl protein_cc	11	73872667	73876988	-1	q13.4
ENSG00000138771	0.3923	1.3125	0.0022	0.0152	SHROOM3	shroom family member 3 [Sou protein_cc	4	76435100	76783253	1	q21.1
ENSG00000114395	0.3922	1.3124	0.0016	0.0117	CYB561D2	cytochrome b561 family, mem protein_cc	3	50350695	50358460	1	p21.31
ENSG00000125971	0.392	1.3122	0.0022	0.0152	DYNLRB1	dynein, light chain, roadblock-i protein_cc	20	34516409	34540958	1	q11.22

ENSG00000172757	0.392	1.3122	0.0056	0.0325 CFL1	cofilin 1 (non-muscle) [Source: protein_cc	11	65823022	65862026	-1	q13.1
ENSG00000172795	0.3918	1.312	0.0003	0.0029 DCP2	decapping mRNA 2 [Source:HG protein_cc	5	1.13E+08	1.13E+08	1	q22.2
ENSG00000196449	0.3917	1.312	0.0045	0.0273 YRDC	yrdc N(6)-threonylcarbamoyltr protein_cc	1	37802944	37808185	-1	p34.3
ENSG00000120686	0.3917	1.3119	0.0007	0.0058 UFM1	ubiquitin-fold modifier 1 [Sour protein_cc	13	38349849	38363619	1	q13.3
ENSG00000004779	0.3917	1.3119	0.0078	0.0421 NDUFAB1	NADH dehydrogenase (ubiquir protein_cc	16	23581002	23596356	-1	p12.2
ENSG00000111144	0.3916	1.3118	0.0007	0.0062 LTA4H	leukotriene A4 hydrolase [Soui protein_cc	12	96000828	96043520	-1	q23.1
ENSG00000110955	0.3911	1.3114	0.0001	0.0014 ATP5B	ATP synthase, H+ transporting, protein_cc	12	56638175	56646068	-1	q13.3
ENSG00000188243	0.3906	1.3109	0.0057	0.0327 COMMD6	COMM domain containing 6 [S protein_cc	13	75525219	75549439	-1	q22.2
ENSG00000068438	0.3899	1.3103	0.0089	0.0465 FTSJ1	FtsJ RNA methyltransferase ho protein_ccX		48476021	48486364	1	p11.23
ENSG00000167578	0.3898	1.3102	0.0074	0.0404 RAB4B	RAB4B, member RAS oncogen protein_cc	19	40778216	40796944	1	q13.2
ENSG00000242779	0.3898	1.3102	0.0079	0.0423 ZNF702P	zinc finger protein 702, pseudc transcriber	19	52968251	53037898	-1	q13.41
ENSG00000185418	0.3896	1.31	0.0016	0.0116 TARSL2	threonyl-tRNA synthetase-like protein_cc	15	1.02E+08	1.02E+08	-1	q26.3
ENSG00000060140	0.3893	1.3098	0.0003	0.0025 STYK1	serine/threonine/tyrosine kina protein_cc	12	10618939	10674318	-1	p13.2
ENSG00000108433	0.389	1.3095	0.0007	0.0059 GOSR2	golgi SNAP receptor complex n protein_cc	17	46923117	46967019	1	q21.32
ENSG00000122218	0.3887	1.3092	2.0752E-06	3.5732E-05 COPA	coatomer protein complex, sul protein_cc	1	1.6E+08	1.6E+08	-1	q23.2
ENSG00000129055	0.3886	1.3092	7.4942E-05	0.0009 ANAPC13	anaphase promoting complex : protein_cc	3	1.34E+08	1.34E+08	-1	q22.2
ENSG00000106803	0.3882	1.3088	0.0008	0.0066 SEC61B	Sec61 beta subunit [Source:HG protein_cc	9	99222064	99230615	1	q22.33
ENSG00000206560	0.3882	1.3087	0.0012	0.0094 ANKRD28	ankyrin repeat domain 28 [Sou protein_cc	3	15667236	15859771	-1	p25.1
ENSG00000176871	0.3879	1.3085	0.0011	0.0086 WSB2	WD repeat and SOCS box cont; protein_cc	12	1.18E+08	1.18E+08	-1	q24.23
ENSG00000085491	0.3865	1.3072	0.0003	0.0026 SLC25A24	solute carrier family 25 (mitocd protein_cc	1	1.08E+08	1.08E+08	-1	p13.3
ENSG00000183020	0.3863	1.307	0.0018	0.0126 AP2A2	adaptor-related protein compl protein_cc	11	924894	1012245	1	p15.5
ENSG00000130340	0.3854	1.3063	0.0009	0.0074 SNX9	sorting nexin 9 [Source:HGNC : protein_cc	6	1.58E+08	1.58E+08	1	q25.3
ENSG00000040531	0.3855	1.3063	0.0013	0.0099 CTNS	cystinosin, lysosomal cystine tr protein_cc	17	3636468	3661542	1	p13.2
ENSG00000081760	0.3848	1.3057	3.3638E-05	0.0004 AACS	acetoacetyl-CoA synthetase [Si protein_cc	12	1.25E+08	1.25E+08	1	q24.31
ENSG00000108771	0.3844	1.3053	0.0009	0.0076 DHX58	DEXH (Asp-Glu-X-His) box poly protein_cc	17	42101404	42112733	-1	q21.2
ENSG00000134153	0.3841	1.3051	1.1561E-05	0.0002 EMC7	ER membrane protein complex protein_cc	15	34084017	34101948	-1	q14
ENSG00000197548	0.3835	1.3045	6.7119E-05	0.0008 ATG7	autophagy related 7 [Source:H protein_cc	3	11272309	11557665	1	p25.3
ENSG00000163882	0.3833	1.3043	3.8383E-05	0.0005 POLR2H	polymerase (RNA) II (DNA direi protein_cc	3	1.84E+08	1.84E+08	1	q27.1
ENSG00000171222	0.383	1.304	0.0087	0.0455 SCAND1	SCAN domain containing 1 [Soi protein_cc	20	35953617	35959472	-1	q11.23
ENSG00000138777	0.3827	1.3038	0.001	0.0078 PPA2	pyrophosphatase (inorganic) 2 protein_cc	4	1.05E+08	1.05E+08	-1	q24
ENSG00000172339	0.3826	1.3037	0.0029	0.0193 ALG14	ALG14, UDP-N-acetylglucosam protein_cc	1	94974407	95072945	-1	p21.3
ENSG00000126088	0.3819	1.303	0.0003	0.0027 UROD	uroporphyrinogen decarboxyla protein_cc	1	45012147	45015575	1	p34.1
ENSG00000106105	0.3816	1.3028	0.0015	0.0112 GARS	glycyl-tRNA synthetase [Source protein_cc	7	30594681	30634033	1	p14.3
ENSG00000115091	0.3814	1.3026	2.6119E-05	0.0003 ACTR3	ARP3 actin-related protein 3 h protein_cc	2	1.14E+08	1.14E+08	1	q14.1
ENSG00000116096	0.3812	1.3025	0.0018	0.0129 SPR	sepiapterin reductase (7,8-dih) protein_cc	2	72887360	72892158	1	p13.2
ENSG00000120265	0.381	1.3022	4.8068E-05	0.0006 PCMT1	protein-L-isoaspartate (D-aspa protein_cc	6	1.5E+08	1.5E+08	1	q25.1
ENSG00000168275	0.3806	1.3019	0.0043	0.0262 COA6	cytochrome c oxidase assembl protein_cc	1	2.34E+08	2.34E+08	1	q42.2
ENSG00000033178	0.3806	1.3019	0.0073	0.0398 UBA6	ubiquitin-like modifier activatii protein_cc	4	67612652	67701179	-1	q13.2
ENSG00000171680	0.3803	1.3016	0.0073	0.0397 PLEKHG5	pleckstrin homology domain cc protein_cc	1	6466092	6520061	-1	p36.31
ENSG00000198898	0.3795	1.3009	0.0052	0.0305 CAPZA2	capping protein (actin filament protein_cc	7	1.17E+08	1.17E+08	1	q31.2
ENSG00000116957	0.3792	1.3006	0.002	0.0143 TBCE	tubulin folding cofactor E [Soui protein_cc	1	2.35E+08	2.35E+08	1	q42.3

ENSG00000105700	0.3789	1.3004	2.752E-07	5.8233E-06	KXD1	KxDL motif containing 1 [Source: protein_cc	19	18557762	18569387	1	p13.11
ENSG00000134996	0.3788	1.3002	1.9024E-06	3.3086E-05	OSTF1	osteoclast stimulating factor 1 protein_cc	9	75088543	75147265	1	q21.13
ENSG00000115271	0.3787	1.3002	0.0021	0.0145	GCA	grancalcin, EF-hand calcium binding protein_cc	2	1.62E+08	1.62E+08	1	q24.2
ENSG00000198862	0.3786	1.3001	0.0055	0.0318	LTN1	listerin E3 ubiquitin protein ligase protein_cc	21	28928144	28992956	-1	q21.3
ENSG00000105393	0.3785	1.3	0.001	0.0077	BABAM1	BRISC and BRCA1 A complex member protein_cc	19	17267350	17281249	1	p13.11
ENSG00000175110	0.3785	1.3	0.0016	0.0119	MRPS22	mitochondrial ribosomal protein protein_cc	3	1.39E+08	1.39E+08	1	q23
ENSG00000000457	0.3778	1.2993	0.0083	0.0443	SCYL3	SCY1-like 3 (S. cerevisiae) [Source: protein_cc	1	1.7E+08	1.7E+08	-1	q24.2
ENSG00000168036	0.3776	1.2992	0.0007	0.0062	CTNFB1	catenin (cadherin-associated protein) protein_cc	3	41194837	41260096	1	p22.1
ENSG00000119421	0.3776	1.2992	0.0018	0.0131	NDUFA8	NADH dehydrogenase (ubiquinone) protein_cc	9	1.22E+08	1.22E+08	-1	q33.2
ENSG00000100564	0.3774	1.299	0.0008	0.0069	PIGH	phosphatidylinositol glycan anchor protein_cc	14	67581955	67600287	-1	q24.1
ENSG00000170860	0.3773	1.2989	0.0047	0.0282	LSM3	LSM3 homolog, U6 small nuclear protein_cc	3	14178358	14201119	1	p25.1
ENSG00000088356	0.3772	1.2988	0.0008	0.0068	PDRG1	p53 and DNA-damage regulated protein_cc	20	31944342	31952092	-1	q11.21
ENSG00000100321	0.377	1.2986	0.0093	0.048	SYNGR1	synaptogyrin 1 [Source: HGNC] protein_cc	22	39349925	39385588	1	q13.1
ENSG00000163541	0.3766	1.2983	0.0025	0.0168	SUCLG1	succinate-CoA ligase, alpha subunit protein_cc	2	84423523	84460045	-1	p11.2
ENSG00000120992	0.3765	1.2982	0.0025	0.0171	LYPLA1	lysophospholipase I [Source: HGNC] protein_cc	8	54046367	54102017	-1	q11.23
ENSG00000163840	0.3764	1.2981	0.0023	0.0159	DTX3L	deltex 3 like, E3 ubiquitin ligase protein_cc	3	1.23E+08	1.23E+08	1	q21.1
ENSG00000184207	0.3761	1.2979	0.0074	0.0404	PGP	phosphoglycolate phosphatase protein_cc	16	2211997	2214807	-1	p13.3
ENSG00000121900	0.3761	1.2978	0.0004	0.0034	TMEM54	transmembrane protein 54 [Source: protein_cc	1	32894594	32901438	-1	p35.1
ENSG00000111481	0.376	1.2977	0.0006	0.0055	COPZ1	coatamer protein complex, subunit protein_cc	12	54301202	54351849	1	q13.13
ENSG00000123130	0.3758	1.2976	0.0021	0.0146	ACOT9	acyl-CoA thioesterase 9 [Source: protein_cc]X		23702253	23766475	-1	p22.11
ENSG00000103591	0.3758	1.2975	2.9855E-06	4.9461E-05	AAGAB	alpha- and gamma-adaptin binding protein_cc	15	67201033	67255195	-1	q23
ENSG00000169567	0.3756	1.2974	0.0061	0.0347	HINT1	histidine triad nucleotide binding protein_cc	5	1.31E+08	1.31E+08	-1	q23.3
ENSG00000089818	0.3754	1.2972	2.5696E-08	6.473E-07	NECAP1	NECAP endocytosis associated protein_cc	12	8082211	8097771	1	p13.31
ENSG00000182541	0.375	1.2969	1.204E-07	2.7527E-06	LIMK2	LIM domain kinase 2 [Source: HGNC] protein_cc	22	31212239	31280080	1	q12.2
ENSG00000093167	0.375	1.2969	3.4272E-05	0.0004	LRRFIP2	leucine rich repeat (in FHL1) interacting protein_cc	3	37052656	37183689	-1	p22.2
ENSG00000117305	0.3746	1.2964	0.0004	0.0036	HMGCL	3-hydroxymethyl-3-methylglutamate protein_cc	1	23801885	23838620	-1	p36.11
ENSG00000130724	0.3743	1.2963	0.0022	0.0152	CHMP2A	charged multivesicular body protein protein_cc	19	58551566	58555124	-1	q13.43
ENSG00000137575	0.3737	1.2957	0.0008	0.0066	SDCBP	syndecan binding protein (syndecan) protein_cc	8	58552924	58582860	1	q12.1
ENSG00000175283	0.3734	1.2954	0.0004	0.0038	DOLK	dolichol kinase [Source: HGNC] protein_cc	9	1.29E+08	1.29E+08	-1	q34.11
ENSG00000123213	0.3734	1.2954	0.0064	0.0361	NLN	neurolysin (metallopeptidase I) protein_cc	5	65722196	65871725	1	q12.3
ENSG00000185298	0.3732	1.2953	0.0003	0.0031	CCDC137	coiled-coil domain containing 137 protein_cc	17	81666364	81673904	1	q25.3
ENSG00000067221	0.3731	1.2952	0.0074	0.0404	STOML1	stomatin (EPB72)-like 1 [Source: protein_cc	15	73978923	73994622	-1	q24.1
ENSG00000136522	0.373	1.295	0.0039	0.024	MRPL47	mitochondrial ribosomal protein protein_cc	3	1.8E+08	1.8E+08	-1	q26.33
ENSG00000107798	0.3726	1.2947	0.0007	0.0061	LIPA	lipase A, lysosomal acid, cholesterol protein_cc	10	89213569	89414557	-1	q23.31
ENSG00000156931	0.3722	1.2944	2.2247E-07	4.8158E-06	VPS8	vacuolar protein sorting 8 homolog protein_cc	3	1.85E+08	1.85E+08	1	q27.2
ENSG00000139180	0.3721	1.2943	0.0028	0.0187	NDUFA9	NADH dehydrogenase (ubiquinone) protein_cc	12	4649095	4694317	1	p13.32
ENSG00000134265	0.372	1.2941	0.0006	0.0053	NAPG	N-ethylmaleimide-sensitive factor protein_cc	18	10525905	10552761	1	p11.22
ENSG00000103342	0.3718	1.2939	1.634E-07	3.6309E-06	GSPT1	G1 to S phase transition 1 [Source: protein_cc	16	11868128	11916082	-1	p13.13
ENSG00000101935	0.3715	1.2937	1.0075E-05	0.0001	AMMECR1	Alport syndrome, mental retardation protein_cc]X		1.1E+08	1.1E+08	-1	q23
ENSG00000113161	0.3714	1.2936	3.8406E-05	0.0005	HMGCR	3-hydroxy-3-methylglutaryl-CoA reductase protein_cc	5	75336329	75362104	1	q13.3
ENSG00000129562	0.3713	1.2935	0.0036	0.0228	DAD1	defender against cell death 1 [Source: protein_cc	14	22564905	22589269	-1	q11.2



ENSG00000100764	0.3712	1.2934	0.0012	0.0095	PSMC1	proteasome (prosome, macroprotein_cc	14	90256495	90275429	1	q32.11
ENSG00000188186	0.3711	1.2934	0.0097	0.0497	LAMTOR4	late endosomal/lysosomal ada protein_cc	7	1E+08	1E+08	1	q22.1
ENSG00000140563	0.3709	1.2931	0.0002	0.0018	MCTP2	multiple C2 domains, transmem protein_cc	15	94231538	94483952	1	q26.2
ENSG00000198712	0.3709	1.2931	0.0055	0.032	MT-CO2	mitochondrially encoded cytochrome c protein_cc		7586	8269	1	
ENSG00000102699	0.3707	1.293	3.3279E-07	6.9416E-06	PARP4	poly (ADP-ribose) polymerase protein_cc	13	24420926	24512810	-1	q12.12
ENSG00000156709	0.3706	1.2929	0.0013	0.0098	AIFM1	apoptosis-inducing factor, mitochondrial protein_cc		1.3E+08	1.3E+08	-1	q26.1
ENSG00000127884	0.3703	1.2926	4.9126E-06	7.7575E-05	ECHS1	enoyl CoA hydratase, short chain protein_cc	10	1.33E+08	1.33E+08	-1	q26.3
ENSG00000185880	0.3701	1.2925	0.0003	0.0026	TRIM69	tripartite motif containing 69 protein_cc	15	44728988	44767829	1	q21.1
ENSG00000148154	0.3702	1.2925	0.003	0.0198	UGCG	UDP-glucose ceramide glucosyltransferase protein_cc	9	1.12E+08	1.12E+08	1	q31.3
ENSG00000100387	0.3701	1.2924	0.0007	0.0062	RBX1	ring-box 1, E3 ubiquitin protein ligase protein_cc	22	40951347	40973309	1	q13.2
ENSG00000135930	0.3689	1.2914	4.5573E-10	1.5526E-08	EIF4E2	eukaryotic translation initiation factor 4E2 protein_cc	2	2.33E+08	2.33E+08	1	q37.1
ENSG00000108788	0.3674	1.2901	1.4164E-06	2.5472E-05	MLX	MLX, MAX dimerization partner protein_cc	17	42567068	42573239	1	q21.2
ENSG00000121989	0.3673	1.2899	0.0003	0.0028	ACVR2A	activin A receptor, type IIA [Source:HGNC] protein_cc	2	1.48E+08	1.48E+08	1	q22.3
ENSG00000225151	0.3673	1.2899	0.0057	0.0329	GOLGA2P7	golgin A2 pseudogene 7 [Source:Ensembl] protein_cc	15	84199311	84230136	-1	q25.2
ENSG00000159884	0.3671	1.2897	0.0026	0.0175	CCDC107	coiled-coil domain containing 107 protein_cc	9	35658290	35661511	1	p13.3
ENSG00000085832	0.3669	1.2896	6.3719E-07	1.2471E-05	EPS15	epidermal growth factor receptor protein tyrosine kinase protein_cc	1	51354263	51519328	-1	p32.3
ENSG00000135404	0.3669	1.2896	0.0002	0.0018	CD63	CD63 molecule [Source:HGNC] protein_cc	12	55725323	55729707	-1	q13.2
ENSG00000159792	0.3669	1.2896	0.0003	0.0026	PSKH1	protein serine kinase H1 [Source:Ensembl] protein_cc	16	67893272	67929678	1	q22.1
ENSG00000163444	0.3668	1.2895	0.0048	0.0286	TMEM183A	transmembrane protein 183A protein_cc	1	2.03E+08	2.03E+08	1	q32.1
ENSG00000140939	0.3668	1.2895	0.0068	0.0378	NOL3	nucleolar protein 3 (apoptosis inhibitor 1) protein_cc	16	67170154	67175735	1	q22.1
ENSG00000116641	0.3667	1.2894	1.2644E-05	0.0002	DOCK7	dedicator of cytokinesis 7 [Source:Ensembl] protein_cc	1	62454728	62688368	-1	p31.3
ENSG00000183723	0.3666	1.2893	3.1408E-06	5.1786E-05	CMTM4	CKLF-like MARVEL transmembrane protein 4 protein_cc	16	66614750	66696707	-1	q22.1
ENSG00000112685	0.3665	1.2892	1.4472E-06	2.5928E-05	EXOC2	exocyst complex component 2 protein_cc	6	485133	693111	-1	p25.3
ENSG00000187079	0.3665	1.2892	0.0036	0.0227	TEAD1	TEA domain family member 1 protein_cc	11	12674591	12944483	1	p15.3
ENSG00000156381	0.3664	1.2891	0.0019	0.0137	ANKRD9	ankyrin repeat domain 9 [Source:Ensembl] protein_cc	14	1.03E+08	1.03E+08	-1	q32.31
ENSG00000256294	0.3662	1.289	0.0097	0.0494	ZNF225	zinc finger protein 225 [Source:Ensembl] protein_cc	19	44112181	44134816	1	q13.31
ENSG00000157800	0.3662	1.2889	0.0001	0.0012	SLC37A3	solute carrier family 37, member 3 protein_cc	7	1.4E+08	1.4E+08	-1	q34
ENSG00000114744	0.3662	1.2889	0.0006	0.0051	COMMD2	COMM domain containing 2 [Source:Ensembl] protein_cc	3	1.5E+08	1.5E+08	-1	q25.1
ENSG00000159788	0.3661	1.2889	0.0013	0.0102	RGS12	regulator of G-protein signaling 12 protein_cc	4	3293028	3439913	1	p16.3
ENSG00000160688	0.366	1.2888	0.0003	0.0026	FLAD1	flavin adenine dinucleotide dependent protein tyrosine phosphatase protein_cc	1	1.55E+08	1.55E+08	1	q21.3
ENSG00000120533	0.366	1.2887	0.0034	0.0215	ENY2	enhancer of yellow 2 homolog protein_cc	8	1.09E+08	1.09E+08	1	q23.1
ENSG00000138674	0.3655	1.2884	1.9419E-05	0.0003	SEC31A	SEC31 homolog A (S. cerevisiae) protein_cc	4	82818661	82901166	-1	q21.22
ENSG00000158552	0.365	1.2879	0.0007	0.0059	ZFAND2B	zinc finger, AN1-type domain 2 protein_cc	2	2.19E+08	2.19E+08	1	q35
ENSG00000112305	0.3649	1.2878	0.0001	0.0015	SMAP1	small ArfGAP 1 [Source:HGNC] protein_cc	6	70667776	70862015	1	q13
ENSG00000170473	0.3643	1.2873	0.001	0.0083	WIBG	within bgn homolog (Drosophila) protein_cc	12	55901413	55932618	-1	q13.2
ENSG00000048140	0.3635	1.2866	4.1746E-05	0.0005	TSPAN17	tetraspanin 17 [Source:HGNC] protein_cc	5	1.77E+08	1.77E+08	1	q35.2
ENSG00000185009	0.3621	1.2853	5.0907E-05	0.0006	AP3M1	adaptor-related protein complex 1 protein_cc	10	74120255	74151063	-1	q22.2
ENSG00000110442	0.362	1.2852	0.0013	0.0101	COMMD9	COMM domain containing 9 [Source:Ensembl] protein_cc	11	36269284	36289449	-1	p13
ENSG00000128654	0.3619	1.2851	6.5249E-05	0.0008	MTX2	metaxin 2 [Source:HGNC] protein_cc	2	1.76E+08	1.76E+08	1	q31.1
ENSG00000119912	0.3615	1.2848	0.0002	0.0017	IDE	insulin-degrading enzyme [Source:Ensembl] protein_cc	10	92451684	92574076	-1	q23.33
ENSG00000092098	0.3616	1.2848	0.0078	0.0418	RNF31	ring finger protein 31 [Source:Ensembl] protein_cc	14	24146683	24160661	1	q12

ENSG00000171017	0.3615	1.2847	0.0035	0.022	LRRCE	leucine rich repeat containing protein_cc	19	7888505	7902021	1	p13.2
ENSG00000125826	0.3613	1.2846	0.0005	0.0042	RBCK1	RanBP-type and C3HC4-type zinc protein_cc	20	407498	430966	1	p13
ENSG00000105993	0.3611	1.2844	4.0864E-07	8.3859E-06	DNAJB6	DnaJ (Hsp40) homolog, subfamily protein_cc	7	1.57E+08	1.57E+08	1	q36.3
ENSG00000136830	0.3611	1.2844	1.5521E-05	0.0002	FAM129B	family with sequence similarity protein_cc	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000106636	0.361	1.2844	0.0011	0.0088	YKT6	YKT6 v-SNARE homolog (S. cerevisiae) protein_cc	7	44200968	44214294	1	p13
ENSG00000130150	0.3611	1.2844	0.006	0.0343	MOSPD2	motile sperm domain containing protein_cc		14873441	14922327	1	p22.2
ENSG00000213593	0.3607	1.284	3.6145E-06	5.8934E-05	TMX2	thioredoxin-related transmembrane protein_cc	11	57712600	57740973	1	q12.1
ENSG00000082146	0.359	1.2825	0.0046	0.0275	STRADB	STE20-related kinase adaptor protein_cc	2	2.01E+08	2.01E+08	1	q33.1
ENSG00000163866	0.3589	1.2824	4.4218E-05	0.0005	SMIM12	small integral membrane protein protein_cc	1	34712737	34859816	-1	p34.3
ENSG00000087470	0.3589	1.2824	0.0000901	0.001	DNM1L	dynamitin 1-like [Source:HGNC] protein_cc	12	32679200	32745650	1	p11.21
ENSG00000000419	0.3585	1.2821	0.0047	0.028	DPM1	dolichyl-phosphate mannosyltransferase protein_cc	20	50934867	50958555	-1	q13.13
ENSG00000038532	0.3579	1.2815	0.0047	0.0281	CLEC16A	C-type lectin domain family 16 protein_cc	16	10944488	11182189	1	p13.13
ENSG00000151532	0.3573	1.2811	4.3095E-06	6.8967E-05	VT11A	vesicle transport through intermembrane protein_cc	10	1.12E+08	1.13E+08	1	q25.2
ENSG00000178896	0.3574	1.2811	0.0034	0.0219	EXOSC4	exosome component 4 [Source:HGNC] protein_cc	8	1.44E+08	1.44E+08	1	q4.3
ENSG00000074201	0.3573	1.281	4.266E-06	6.8385E-05	CLNS1A	chloride channel, nucleotide-sensitive protein_cc	11	77514936	77637805	-1	q14.1
ENSG00000265354	0.3569	1.2807	0.0003	0.0026	TIMM23	translocase of inner mitochondrial membrane protein_cc	10	45972449	46003734	1	q11.22
ENSG00000189077	0.3565	1.2803	0.0086	0.0454	TMEM120A	transmembrane protein 120A protein_cc	7	75986837	75994659	-1	q11.23
ENSG00000172590	0.3564	1.2802	0.0014	0.0107	MRPL52	mitochondrial ribosomal protein protein_cc	14	22829879	22835037	1	q11.2
ENSG00000177119	0.3564	1.2802	0.0076	0.0411	ANO6	anoctamin 6 [Source:HGNC] protein_cc	12	45215987	45440404	1	q12
ENSG00000109919	0.3563	1.2801	1.4221E-06	0.00002555	MTCH2	mitochondrial carrier 2 [Source:HGNC] protein_cc	11	47617315	47642623	-1	p11.2
ENSG00000122008	0.3563	1.2801	0.0072	0.0394	POLK	polymerase (DNA directed) kappa protein_cc	5	75511756	75601144	1	q13.3
ENSG00000141447	0.3561	1.28	0.0006	0.0054	OSBPL1A	oxysterol binding protein-like 1 protein_cc	18	24162044	24397880	-1	q11.2
ENSG00000131143	0.3559	1.2798	0.0097	0.0496	COX4I1	cytochrome c oxidase subunit 4 protein_cc	16	85798633	85807044	1	q24.1
ENSG00000073921	0.3553	1.2793	0.00002374	0.0003	PICALM	phosphatidylinositol binding clathrate protein_cc	11	85957684	86069882	-1	q14.2
ENSG00000115307	0.3554	1.2793	0.0053	0.0309	AUP1	ancient ubiquitous protein 1 [Source:HGNC] protein_cc	2	74526645	74529939	-1	p13.1
ENSG00000250317	0.355	1.279	0.0094	0.0484	SMIM20	small integral membrane protein protein_cc	4	25861830	25929874	1	p15.2
ENSG00000169718	0.3544	1.2784	7.7753E-05	0.0009	DUS1L	dihydrouridine synthase 1-like protein_cc	17	82057506	82065887	-1	q25.3
ENSG00000109445	0.3542	1.2783	0.0002	0.002	ZNF330	zinc finger protein 330 [Source:HGNC] protein_cc	4	1.41E+08	1.41E+08	1	q31.21
ENSG00000107745	0.3541	1.2782	7.8137E-06	0.0001	MICU1	mitochondrial calcium uptake protein 1 protein_cc	10	72367327	72626191	-1	q22.1
ENSG00000115380	0.3541	1.2782	0.0078	0.0421	EFEMP1	EGF containing fibulin-like extracellular domain protein_cc	2	55865967	55924139	-1	p16.1
ENSG00000010017	0.354	1.2781	0.0008	0.0065	RANBP9	RAN binding protein 9 [Source:HGNC] protein_cc	6	13621498	13711564	-1	p23
ENSG00000057663	0.354	1.2781	0.001	0.0077	ATG5	autophagy related 5 [Source:HGNC] protein_cc	6	1.06E+08	1.06E+08	-1	q21
ENSG00000113712	0.3537	1.2778	4.1163E-14	2.3192E-12	CSNK1A1	casein kinase 1, alpha 1 [Source:HGNC] protein_cc	5	1.49E+08	1.5E+08	-1	q32
ENSG00000059378	0.3536	1.2778	0.0032	0.0205	PARP12	poly (ADP-ribose) polymerase 12 protein_cc	7	1.4E+08	1.4E+08	-1	q34
ENSG00000055332	0.3533	1.2775	0.0006	0.0053	EIF2AK2	eukaryotic translation initiation factor 2A protein_cc	2	37099210	37157065	-1	p22.2
ENSG00000095321	0.3526	1.2768	0.0074	0.0406	CRAT	carnitine O-acetyltransferase [Source:HGNC] protein_cc	9	1.29E+08	1.29E+08	-1	q34.11
ENSG00000198931	0.3523	1.2766	0.0007	0.0059	APRT	adenine phosphoribosyltransferase protein_cc	16	88809339	88811944	-1	q24.3
ENSG00000197712	0.3523	1.2766	0.0012	0.0093	FAM114A1	family with sequence similarity 114 protein_cc	4	38867677	38945739	1	p14
ENSG00000163930	0.3522	1.2765	0.0042	0.0259	BAP1	BRCA1 associated protein-1 (ubiquitin ligase) protein_cc	3	52401013	52410350	-1	p21.1
ENSG00000241685	0.3521	1.2764	1.7426E-10	6.3211E-09	ARPC1A	actin related protein 2/3 complex protein_cc	7	99325898	99388164	1	q22.1
ENSG00000103544	0.3519	1.2762	0.0006	0.0052	C16orf62	chromosome 16 open reading frame 62 protein_cc	16	19555240	19706793	1	p12.3

ENSG00000114745	0.3517	1.2761	0.0001	0.0012	GORASP1	golgi reassembly stacking prot	protein_cc	3	39096659	39108363	-1	p22.2
ENSG00000184178	0.3512	1.2756	0.0072	0.0395	SCFD2	sec1 family domain containing	protein_cc	4	52872982	53366075	-1	q12
ENSG00000131408	0.3509	1.2754	6.9804E-08	1.6432E-06	NR1H2	nuclear receptor subfamily 1, $\xi$	protein_cc	19	50329653	50382982	1	q13.33
ENSG00000165355	0.3509	1.2753	0.0021	0.0145	FBXO33	F-box protein 33 [Source:HGN	protein_cc	14	39397669	39432500	-1	q21.1
ENSG0000004864	0.3507	1.2752	3.9805E-05	0.0005	SLC25A13	solute carrier family 25 (aspart	protein_cc	7	96120220	96322147	-1	q21.3
ENSG00000197375	0.3507	1.2752	0.0047	0.0282	SLC22A5	solute carrier family 22 (organi	protein_cc	5	1.32E+08	1.32E+08	1	q31.1
ENSG00000160336	0.3503	1.2748	0.0023	0.0158	ZNF761	zinc finger protein 761 [Source	protein_cc	19	53431993	53458261	-1	q13.42
ENSG00000123609	0.3502	1.2747	0.0013	0.0097	NMI	N-myc (and STAT) interactor [S	protein_cc	2	1.51E+08	1.51E+08	-1	q23.3
ENSG00000115539	0.3502	1.2747	0.0016	0.0116	PDCL3	phosducin-like 3 [Source:HGN	protein_cc	2	1.01E+08	1.01E+08	1	q11.2
ENSG00000082269	0.3501	1.2746	0.008	0.043	FAM135A	family with sequence similarity	protein_cc	6	70412941	70561174	1	q13
ENSG00000228300	0.35	1.2745	0.0016	0.0118	C19orf24	chromosome 19 open reading	protein_cc	19	1275438	1279249	1	p13.3
ENSG00000092531	0.3497	1.2743	5.1327E-06	8.0583E-05	SNAP23	synaptosomal-associated prot	protein_cc	15	42491233	42545356	1	q15.1
ENSG00000077713	0.3495	1.2742	0.0041	0.0252	SLC25A43	solute carrier family 25, memb	protein_ccX		1.19E+08	1.19E+08	1	q24
ENSG00000134330	0.3495	1.2741	0.0037	0.0232	IAH1	isoamyl acetate-hydrolyzing es	protein_cc	2	9473658	9496543	1	p25.1
ENSG00000166575	0.3492	1.2738	0.0031	0.02	TMEM135	transmembrane protein 135 [S	protein_cc	11	87037844	87323758	1	q14.2
ENSG00000123178	0.3491	1.2738	0.0073	0.0398	SPRYD7	SPRY domain containing 7 [Sou	protein_cc	13	49912706	49936490	-1	q14.2
ENSG00000012822	0.3491	1.2737	0.00002817	0.0004	CALCOCO1	calcium binding and coiled-coil	protein_cc	12	53708517	53727745	-1	q13.13
ENSG00000143106	0.349	1.2737	0.0027	0.0178	PSMA5	proteasome (prosome, macro $\phi$	protein_cc	1	1.09E+08	1.09E+08	-1	p13.3
ENSG00000006125	0.3487	1.2734	3.3708E-06	5.5197E-05	AP2B1	adaptor-related protein compl	protein_cc	17	35578046	35726409	1	q12
ENSG00000196586	0.3487	1.2734	3.9288E-06	6.3569E-05	MYO6	myosin VI [Source:HGNC Symb	protein_cc	6	75749192	75919537	1	q14.1
ENSG00000092841	0.3485	1.2733	0.0023	0.0158	MYL6	myosin, light chain 6, alkali, sr	protein_cc	12	56158161	56163496	1	q13.2
ENSG00000165704	0.3477	1.2725	0.0012	0.0094	HPRT1	hypoxanthine phosphoribosylt	protein_ccX		1.34E+08	1.35E+08	1	q26.2
ENSG00000174886	0.3477	1.2725	0.0054	0.0315	NDUFA11	NADH dehydrogenase (ubiquir	protein_cc	19	5891276	5904006	-1	p13.3
ENSG00000041357	0.3475	1.2724	0.0018	0.0131	PSMA4	proteasome (prosome, macro $\phi$	protein_cc	15	78540405	78552419	1	q25.1
ENSG00000054148	0.3473	1.2722	0.0004	0.0035	PHPT1	phosphohistidine phosphatase	protein_cc	9	1.37E+08	1.37E+08	1	q34.3
ENSG00000172380	0.3473	1.2722	0.0004	0.0036	GNG12	guanine nucleotide binding pr	protein_cc	1	67701466	67833467	-1	p31.3
ENSG00000103671	0.3473	1.2722	0.0015	0.0114	TRIP4	thyroid hormone receptor inte	protein_cc	15	64387748	64455303	1	q22.31
ENSG00000141378	0.3465	1.2715	0.0049	0.029	PTRH2	peptidyl-tRNA hydrolase 2 [Sou	protein_cc	17	59674636	59707626	-1	q23.1
ENSG00000058262	0.3464	1.2714	0.0091	0.0471	SEC61A1	Sec61 alpha 1 subunit (S. cerev	protein_cc	3	1.28E+08	1.28E+08	1	q21.3
ENSG00000140688	0.3462	1.2712	0.003	0.0194	C16orf58	chromosome 16 open reading	protein_cc	16	31489471	31509309	-1	p11.2
ENSG00000181751	0.3459	1.271	0.009	0.047	C5orf30	chromosome 5 open reading fi	protein_cc	5	1.03E+08	1.03E+08	1	q21.1
ENSG00000123179	0.3456	1.2706	0.0094	0.0485	EBPL	emopamil binding protein-like	protein_cc	13	49660723	49691475	-1	q14.2
ENSG00000180329	0.3454	1.2705	6.8992E-06	0.0001	CCDC43	coiled-coil domain containing 4	protein_cc	17	44673069	44689779	-1	q21.31
ENSG00000176853	0.3452	1.2704	0.0012	0.0093	FAM91A1	family with sequence similarity	protein_cc	8	1.24E+08	1.24E+08	1	q24.13
ENSG00000126067	0.3449	1.2701	1.4925E-05	0.0002	PSMB2	proteasome (prosome, macro $\phi$	protein_cc	1	35599544	35641844	-1	p34.3
ENSG00000100030	0.3447	1.2699	7.8359E-08	1.8355E-06	MAPK1	mitogen-activated protein kin	protein_cc	22	21754500	21867680	-1	q11.22
ENSG00000163466	0.3447	1.2699	0.0011	0.0089	ARPC2	actin related protein 2/3 comp	protein_cc	2	2.18E+08	2.18E+08	1	q35
ENSG00000122873	0.3445	1.2697	0.0098	0.0498	CISD1	CDGSH iron sulfur domain 1 [S	protein_cc	10	58269058	58289586	1	q21.1
ENSG00000132842	0.3444	1.2696	2.2511E-06	3.8414E-05	AP3B1	adaptor-related protein compl	protein_cc	5	78000525	78294755	-1	q14.1
ENSG00000004961	0.3443	1.2696	3.2661E-06	0.00005362	HCCS	holocytochrome c synthase [Sc	protein_ccX		11111301	11123078	1	p22.2
ENSG00000150753	0.3442	1.2695	0.0009	0.0072	CCT5	chaperonin containing TCP1, si	protein_cc	5	10249921	10266412	1	p15.2

ENSG00000100151	0.3439	1.2692	0.0036	0.023 PICK1	protein interacting with PRKCA protein_cc	22	38056311	38075701	1	q13.1
ENSG00000102893	0.3438	1.2691	5.3319E-05	0.0006 PHKB	phosphorylase kinase, beta [Sc protein_cc	16	47461123	47701523	1	q12.1
ENSG00000100442	0.3437	1.269	0.0006	0.0055 FKBP3	FK506 binding protein 3, 25kD; protein_cc	14	45115600	45135319	-1	q21.2
ENSG00000010803	0.3434	1.2688	0.0004	0.0038 SCMHI	sex comb on midleg homolog 1 protein_cc	1	41027200	41242154	-1	p34.2
ENSG00000108443	0.3433	1.2687	1.7262E-05	0.0002 RPS6KB1	ribosomal protein S6 kinase, 71 protein_cc	17	59893046	59950564	1	q23.1
ENSG00000013364	0.343	1.2684	0.0021	0.0149 MVP	major vault protein [Source:HG protein_cc	16	29820394	29848039	1	p11.2
ENSG00000104964	0.3429	1.2683	1.4193E-05	0.0002 AES	amino-terminal enhancer of sc protein_cc	19	3052910	3063107	-1	p13.3
ENSG00000129566	0.3428	1.2682	0.0026	0.0173 TEP1	telomerase-associated protein protein_cc	14	20365667	20413429	-1	q11.2
ENSG00000174151	0.3423	1.2678	0.0017	0.0122 CYB561D1	cytochrome b561 family, mem protein_cc	1	1.09E+08	1.1E+08	1	p13.3
ENSG00000120742	0.3421	1.2676	0.0005	0.0043 SERP1	stress-associated endoplasmic protein_cc	3	1.51E+08	1.51E+08	-1	q25.1
ENSG00000143612	0.3412	1.2668	0.0011	0.0085 C1orf43	chromosome 1 open reading fi protein_cc	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000163832	0.3409	1.2666	0.0033	0.0211 ELP6	elongator acetyltransferase co protein_cc	3	47495640	47513761	-1	p21.31
ENSG00000151665	0.341	1.2666	0.0044	0.0265 PIGF	phosphatidylinositol glycan an protein_cc	2	46580937	46617119	-1	p21
ENSG00000082458	0.3408	1.2665	0.0011	0.0086 DLG3	discs, large homolog 3 (Drosop protein_ccX		70444861	70505490	1	q13.1
ENSG00000113845	0.3407	1.2664	0.0002	0.0023 TIMMDC1	translocase of inner mitochondr protein_cc	3	1.19E+08	1.2E+08	1	q13.33
ENSG00000174851	0.3407	1.2664	0.0011	0.0089 YIF1A	Yip1 interacting factor homolo protein_cc	11	66284580	66289170	-1	q13.2
ENSG00000113811	0.3408	1.2664	0.0095	0.0487 SELK	selenoprotein K [Source:RefSe protein_cc	3	53884410	53891988	-1	p21.1
ENSG00000123595	0.3405	1.2662	0.0009362	0.001 RAB9A	RAB9A, member RAS oncogen protein_ccX		13689121	13710506	1	p22.2
ENSG00000125733	0.3402	1.2659	0.0002	0.0023 TRIP10	thyroid hormone receptor inte protein_cc	19	6737925	6751526	1	p13.3
ENSG00000160190	0.3402	1.2659	0.005	0.0295 SLC37A1	solute carrier family 37 (glucos protein_cc	21	42496008	42581440	1	q22.3
ENSG00000100804	0.34	1.2658	0.0003	0.0031 PSMB5	proteasome (prosome, macro protein_cc	14	23016543	23035230	-1	q11.2
ENSG00000119446	0.3394	1.2653	0.0016	0.0118 RBM18	RNA binding motif protein 18 [ protein_cc	9	1.22E+08	1.22E+08	-1	q33.2
ENSG00000173171	0.3392	1.2651	0.007	0.0388 MTX1	metaxin 1 [Source:HGNC Symb protein_cc	1	1.55E+08	1.55E+08	1	q22
ENSG00000142186	0.3391	1.265	0.0002	0.0025 SCYL1	SCY1-like 1 (S. cerevisiae) [Sou protein_cc	11	65525077	65538704	1	q13.1
ENSG00000138785	0.3391	1.265	0.0053	0.0308 INTS12	integrator complex subunit 12 protein_cc	4	1.06E+08	1.06E+08	-1	q24
ENSG00000164022	0.339	1.2649	0.0071	0.039 AIMP1	aminoacyl tRNA synthetase co protein_cc	4	1.06E+08	1.06E+08	1	q24
ENSG00000197808	0.3387	1.2646	0.0093	0.0482 ZNF461	zinc finger protein 461 [Source protein_cc	19	36637192	36666853	-1	q13.12
ENSG00000011198	0.3384	1.2643	0.0011	0.0089 ABHD5	abhydrolase domain containin protein_cc	3	43690113	43734371	1	p21.33
ENSG00000163636	0.3383	1.2642	0.0013	0.0098 PSMD6	proteasome (prosome, macro protein_cc	3	64010549	64024010	-1	p14.1
ENSG00000159322	0.3375	1.2636	0.0038	0.0237 ADPGK	ADP-dependent glucokinase [S protein_cc	15	72751369	72785846	-1	q24.1
ENSG00000125970	0.3372	1.2633	1.8371E-07	4.0494E-06 RALY	RALY heterogeneous nuclear ri protein_cc	20	33993646	34108308	1	q11.22
ENSG00000110756	0.3368	1.263	0.0003	0.0025 HPS5	Hermansky-Pudlak syndrome 5 protein_cc	11	18278668	18322198	-1	p15.1
ENSG00000170185	0.3367	1.2628	0.0002	0.0017 USP38	ubiquitin specific peptidase 38 protein_cc	4	1.43E+08	1.43E+08	1	q31.21
ENSG00000160813	0.336	1.2623	0.0092	0.0477 PPP1R35	protein phosphatase 1, regulat protein_cc	7	1E+08	1E+08	-1	q22.1
ENSG00000010704	0.3356	1.2619	0.0058	0.0332 HFE	hemochromatosis [Source:HGI protein_cc	6	26087281	26098343	1	p22.2
ENSG00000116459	0.3355	1.2618	0.0009	0.0075 ATP5F1	ATP synthase, H+ transporting, protein_cc	1	1.11E+08	1.11E+08	1	p13.2
ENSG00000070831	0.3353	1.2616	1.5619E-05	0.0002 CDC42	cell division cycle 42 [Source:H protein_cc	1	22052627	22092946	1	p36.12
ENSG00000132406	0.3351	1.2615	0.0025	0.0169 TMEM128	transmembrane protein 128 [S protein_cc	4	4235542	4248212	-1	p16.3
ENSG00000125841	0.335	1.2614	0.0015	0.0112 NRSN2	neurensin 2 [Source:HGNC Syn protein_cc	20	346782	359660	1	p13
ENSG00000171862	0.3348	1.2612	0.0004	0.0034 PTEN	phosphatase and tensin homol protein_cc	10	87863113	87971930	1	q23.31
ENSG00000150593	0.3349	1.2612	0.0013	0.0097 PDCD4	programmed cell death 4 (neo protein_cc	10	1.11E+08	1.11E+08	1	q25.2

ENSG00000137309	0.3348	1.2612	0.0028	0.0184 HMGA1	high mobility group AT-hook 1 protein_cc	6	34236873	34246231	1	p21.31
ENSG00000140995	0.3343	1.2608	0.0005	0.0049 DEF8	differentially expressed in FDC protein_cc	16	89947925	89968060	1	q24.3
ENSG00000165280	0.334	1.2605	0.0011	0.0085 VCP	valosin containing protein [Sou protein_cc	9	35056064	35073249	-1	p13.3
ENSG00000106153	0.334	1.2605	0.0029	0.0193 CHCHD2	coiled-coil-helix-coiled-coil-hel protein_cc	7	56101569	56106576	-1	p11.2
ENSG00000162704	0.3331	1.2597	0.001	0.0077 ARPC5	actin related protein 2/3 comp protein_cc	1	1.84E+08	1.84E+08	-1	q25.3
ENSG00000067829	0.3329	1.2595	0.0029	0.0188 IDH3G	isocitrate dehydrogenase 3 (N/ protein_cc X		1.54E+08	1.54E+08	-1	q28
ENSG00000118961	0.3325	1.2592	4.8874E-05	0.0006 C2orf43	chromosome 2 open reading fi protein_cc	2	20684014	20823130	-1	p24.1
ENSG00000130706	0.3324	1.2591	2.7153E-05	0.0004 ADRM1	adhesion regulating molecule 7 protein_cc	20	62302093	62308862	1	q13.33
ENSG00000136888	0.3323	1.259	0.0009	0.0072 ATP6V1G1	ATPase, H+ transporting, lysosi protein_cc	9	1.15E+08	1.15E+08	1	q32
ENSG00000075234	0.3321	1.2588	0.0064	0.0359 TTC38	tetratricopeptide repeat doma protein_cc	22	46267961	46294008	1	q13.31
ENSG00000170633	0.3319	1.2587	0.0001	0.0013 RNF34	ring finger protein 34, E3 ubiq protein_cc	12	1.21E+08	1.21E+08	1	q24.31
ENSG00000170242	0.3316	1.2584	0.0027	0.0182 USP47	ubiquitin specific peptidase 47 protein_cc	11	11841423	11959323	1	p15.3
ENSG00000162517	0.3315	1.2583	0.0015	0.0111 PEF1	penta-EF-hand domain contain protein_cc	1	31629862	31644896	-1	p35.2
ENSG00000166847	0.3309	1.2578	7.4903E-05	0.0009 DCTN5	dynactin 5 (p25) [Source:HGNC protein_cc	16	23641392	23677455	1	p12.2
ENSG00000112992	0.3305	1.2575	0.0003	0.0028 NNT	nicotinamide nucleotide transl protein_cc	5	43602692	43707405	1	p12
ENSG00000144645	0.3305	1.2575	0.0097	0.0496 OSBPL10	oxysterol binding protein-like 7 protein_cc	3	31657890	32077580	-1	p22.3
ENSG00000164855	0.3304	1.2574	0.0087	0.0455 TMEM184A	transmembrane protein 184A protein_cc	7	1542235	1560821	-1	p22.3
ENSG00000065518	0.3302	1.2572	0.0028	0.0187 NDUFB4	NADH dehydrogenase (ubiquir protein_cc	3	1.21E+08	1.21E+08	1	q13.33
ENSG00000088869	0.3298	1.2569	5.5902E-05	0.0007 HEATR5B	HEAT repeat containing 5B [So protein_cc	2	36968383	37084342	-1	p22.2
ENSG00000047621	0.3292	1.2563	0.0025	0.0168 C12orf4	chromosome 12 open reading protein_cc	12	4487728	4538508	-1	p13.32
ENSG00000116353	0.3291	1.2562	0.0029	0.019 MECR	mitochondrial trans-2-enoyl-Co protein_cc	1	29192873	29230942	-1	p35.3
ENSG00000136933	0.3289	1.256	0.0052	0.0305 RABEPK	Rab9 effector protein with kelc protein_cc	9	1.25E+08	1.25E+08	1	q33.3
ENSG00000165678	0.3285	1.2557	0.0005	0.0049 GHITM	growth hormone inducible tra protein_cc	10	84139429	84153555	1	q23.1
ENSG00000002919	0.3284	1.2556	7.2829E-06	0.0001 SNX11	sorting nexin 11 [Source:HGNC protein_cc	17	48103357	48123074	1	q21.32
ENSG00000140319	0.3282	1.2554	7.3831E-05	0.0008 SRP14	signal recognition particle 14kl protein_cc	15	40035739	40039188	-1	q15.1
ENSG00000187239	0.328	1.2553	0.0045	0.0273 FBNP1	formin binding protein 1 [Sour protein_cc	9	1.3E+08	1.3E+08	-1	q34.11
ENSG00000110063	0.3271	1.2545	0.0058	0.0334 DCPS	decapping enzyme, scavenger protein_cc	11	1.26E+08	1.26E+08	1	q24.2
ENSG00000132002	0.327	1.2544	8.9753E-06	0.0001 DNAJB1	DnaJ (Hsp40) homolog, subfar protein_cc	19	14514770	14529770	-1	p13.12
ENSG00000162972	0.327	1.2544	0.0022	0.0152 C2orf47	chromosome 2 open reading fi protein_cc	2	2E+08	2E+08	1	q33.1
ENSG00000128016	0.3268	1.2542	0.0011	0.0085 ZFP36	ZFP36 ring finger protein [Sour protein_cc	19	39406813	39409412	1	q13.2
ENSG00000189171	0.3267	1.2541	0.0045	0.0272 S100A13	S100 calcium binding protein A protein_cc	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000241553	0.3265	1.254	0.0003	0.0027 ARPC4	actin related protein 2/3 comp protein_cc	3	9792495	9807726	1	p25.3
ENSG00000010256	0.3266	1.254	0.0037	0.0234 UQCRC1	ubiquinol-cytochrome c reduct protein_cc	3	48599002	48610976	-1	p21.31
ENSG00000174903	0.3264	1.2539	3.0836E-05	0.0004 RAB1B	RAB1B, member RAS oncogene protein_cc	11	66268533	66277492	1	q13.2
ENSG00000101363	0.3262	1.2537	0.0002	0.0019 MANBAL	mannosidase, beta A, lysosom: protein_cc	20	37289638	37317260	1	q11.23
ENSG00000087086	0.3256	1.2532	0.0027	0.0181 FTL	ferritin, light polypeptide [Sou protein_cc	19	48965301	48966878	1	q13.33
ENSG00000144848	0.3253	1.2529	3.4515E-05	0.0004 ATG3	autophagy related 3 [Source:H protein_cc	3	1.13E+08	1.13E+08	-1	q13.2
ENSG00000115211	0.3252	1.2529	0.001	0.0079 EIF2B4	eukaryotic translation initiatio protein_cc	2	27364352	27370486	-1	p23.3
ENSG00000168282	0.3253	1.2529	0.0077	0.0417 MGAT2	mannosyl (alpha-1,6-)-glycoprc protein_cc	14	49620795	49623481	1	q21.3
ENSG00000159377	0.325	1.2527	0.0004	0.004 PSMB4	proteasome (prosome, macro protein_cc	1	1.51E+08	1.51E+08	1	q21.3
ENSG00000185627	0.3247	1.2524	1.0429E-05	0.0002 PSMD13	proteasome (prosome, macro protein_cc	11	236546	252984	1	p15.5



ENSG0000022277	0.3246	1.2523	8.5215E-06	0.0001	RTFDC1	replication termination factor ; protein_cc	20	56468585	56519449	1	q13.31
ENSG0000014216	0.3245	1.2523	0.0069	0.038	CAPN1	calpain 1, (mu/l) large subunit protein_cc	11	65180566	65212006	1	q13.1
ENSG00000143079	0.3245	1.2522	0.0003	0.0025	CTTNBP2NL	CTTNBP2 N-terminal like [Sour protein_cc	1	1.12E+08	1.12E+08	1	p13.2
ENSG00000166986	0.3245	1.2522	0.0035	0.0222	MARS	methionyl-tRNA synthetase [Sc protein_cc	12	57475445	57517569	1	q13.3
ENSG00000100568	0.3244	1.2521	1.176E-08	3.1812E-07	VTI1B	vesicle transport through inter protein_cc	14	67647075	67674831	-1	q24.1
ENSG00000113558	0.3244	1.2521	1.674E-06	2.9436E-05	SKP1	S-phase kinase-associated prot protein_cc	5	1.34E+08	1.34E+08	-1	q31.1
ENSG00000188428	0.3233	1.2512	0.0089	0.0465	BLOC155	biogenesis of lysosomal organ protein_cc	6	8013567	8064414	-1	p24.3
ENSG00000089006	0.3232	1.2511	0.0002	0.002	SNX5	sorting nexin 5 [Source:HGNC protein_cc	20	17941597	17968980	-1	p11.23
ENSG000000007520	0.3229	1.2509	0.0002	0.0018	TSR3	TSR3, 20S rRNA accumulation, protein_cc	16	1349240	1351911	-1	p13.3
ENSG00000143256	0.323	1.2509	0.0013	0.0101	PFDN2	prefoldin subunit 2 [Source:HG protein_cc	1	1.61E+08	1.61E+08	-1	q23.3
ENSG00000278259	0.3226	1.2506	0.0009	0.007	MYO19	myosin XIX [Source:HGNC Sym protein_cc	17	36495633	36543435	-1	q12
ENSG00000113597	0.3221	1.2502	0.001	0.0082	TRAPPC13	trafficking protein particle cor protein_cc	5	65624716	65666233	1	q12.3
ENSG00000170445	0.3217	1.2498	1.4019E-05	0.0002	HARS	histidyl-tRNA synthetase [Sour protein_cc	5	1.41E+08	1.41E+08	-1	q31.3
ENSG00000103326	0.3215	1.2496	0.0021	0.0146	CAPN15	calpain 15 [Source:HGNC Sym protein_cc	16	527717	554636	1	p13.3
ENSG00000176108	0.3213	1.2494	0.0048	0.0287	CHMP6	charged multivesicular body pr protein_cc	17	80991598	81009517	1	q25.3
ENSG00000197601	0.3211	1.2493	0.0014	0.0107	FAR1	fatty acyl CoA reductase 1 [Sou protein_cc	11	13668670	13732346	1	p15.3
ENSG00000095139	0.321	1.2492	0.0025	0.0168	ARCN1	archain 1 [Source:HGNC Symb protein_cc	11	1.19E+08	1.19E+08	1	q23.3
ENSG00000165502	0.3209	1.2491	0.0026	0.0172	RPL36AL	ribosomal protein L36a-like [Sc protein_cc	14	49618519	49620685	-1	q21.3
ENSG00000183576	0.3207	1.2489	0.0002	0.0019	SETD3	SET domain containing 3 [Sour protein_cc	14	99397746	99480879	-1	q32.2
ENSG00000213995	0.3204	1.2487	3.4959E-07	7.2524E-06	CARKD	carbohydrate kinase domain c protein_cc	13	1.11E+08	1.11E+08	1	q34
ENSG00000168118	0.3203	1.2486	1.3515E-05	0.0002	RAB4A	RAB4A, member RAS oncogen protein_cc	1	2.29E+08	2.29E+08	1	q42.13
ENSG00000122643	0.32	1.2484	0.0052	0.0306	NT5C3A	5'-nucleotidase, cytosolic IIIA [ protein_cc	7	33014114	33062797	-1	p14.3
ENSG00000173113	0.3192	1.2477	0.0014	0.0105	TRMT112	tRNA methyltransferase 11-2 h protein_cc	11	64316460	64318084	-1	q13.1
ENSG00000169410	0.3191	1.2476	0.0011	0.0087	PTPN9	protein tyrosine phosphatase, protein_cc	15	75463251	75579289	-1	q24.2
ENSG00000178425	0.3184	1.247	0.0013	0.0101	NT5DC1	5'-nucleotidase domain contain protein_cc	6	1.16E+08	1.16E+08	1	q22.1
ENSG00000174437	0.3184	1.247	0.0037	0.0233	ATP2A2	ATPase, Ca++ transporting, car protein_cc	12	1.1E+08	1.1E+08	1	q24.11
ENSG00000125863	0.3182	1.2468	0.0002	0.0024	MKKS	McKusick-Kaufman syndrome   protein_cc	20	10401009	10434222	-1	p12.2
ENSG00000159842	0.3176	1.2463	0.0083	0.0441	ABR	active BCR-related [Source:HG protein_cc	17	1003518	1229021	-1	p13.3
ENSG00000163558	0.3168	1.2455	0.0004	0.0039	PRKCI	protein kinase C, iota [Source:l protein_cc	3	1.7E+08	1.7E+08	1	q26.2
ENSG00000103266	0.3168	1.2455	0.0013	0.0097	STUB1	STIP1 homology and U-box cor protein_cc	16	680224	682870	1	p13.3
ENSG00000103876	0.3164	1.2452	0.0066	0.037	FAH	fumarylacetoacetate hydrolase protein_cc	15	80152490	80186946	1	q25.1
ENSG00000131116	0.3162	1.2451	0.0013	0.01	ZNF428	zinc finger protein 428 [Source protein_cc	19	43607219	43619874	-1	q13.31
ENSG00000174165	0.3158	1.2447	0.0034	0.0217	ZDHHC24	zinc finger, DHHC-type contain protein_cc	11	66520637	66546238	-1	q13.2
ENSG00000127125	0.3158	1.2447	0.0095	0.0488	PPCS	phosphopantothenoylecysteine protein_cc	1	42456117	42473385	1	p34.2
ENSG00000008018	0.3153	1.2443	0.0013	0.0096	PSMB1	proteasome (prosome, macro protein_cc	6	1.71E+08	1.71E+08	-1	q27
ENSG00000108826	0.3148	1.2438	0.0021	0.0145	MRPL27	mitochondrial ribosomal prote protein_cc	17	50367857	50373214	-1	q21.33
ENSG00000182827	0.3146	1.2437	0.0001	0.0015	ACBD3	acyl-CoA binding domain cont protein_cc	1	2.26E+08	2.26E+08	-1	q42.12
ENSG00000166337	0.3144	1.2435	3.2812E-05	0.0004	TAF10	TAF10 RNA polymerase II, TAT, protein_cc	11	6606296	6612667	-1	p15.4
ENSG00000115484	0.3142	1.2433	0.0002	0.0018	CCT4	chaperonin containing TCP1, si protein_cc	2	61868089	61888804	-1	p15
ENSG00000161547	0.3135	1.2427	2.5789E-05	0.0003	SRSF2	serine/arginine-rich splicing fa protein_cc	17	76734115	76737374	-1	q25.1
ENSG00000157538	0.3129	1.2422	4.8525E-05	0.0006	DSCR3	Down syndrome critical region protein_cc	21	37223420	37267919	-1	q22.13

ENSG00000277972	0.3128	1.2421	0.0044	0.0269	CISD3	CDGSH iron sulfur domain 3 [S protein_cc	17	38730235	38735044	1	q12
ENSG00000132849	0.312	1.2415	0.0002	0.0018	INADL	InaD-like (Drosophila) [Source: protein_cc	1	61742477	62163920	1	p31.3
ENSG00000095059	0.3118	1.2413	0.0003	0.0029	DHPS	deoxyhypusine synthase [Sour protein_cc	19	12675717	12681902	-1	p13.13
ENSG00000197119	0.3115	1.241	0.0046	0.028	SLC25A29	solute carrier family 25 (mitocl protein_cc	14	1E+08	1E+08	-1	q32.2
ENSG00000143761	0.3112	1.2408	5.2549E-05	0.0006	ARF1	ADP-ribosylation factor 1 [Soui protein_cc	1	2.28E+08	2.28E+08	1	q42.13
ENSG00000197728	0.3111	1.2407	0.0008	0.0069	RPS26	ribosomal protein S26 [Source: protein_cc	12	56041853	56044675	1	q13.2
ENSG00000107897	0.3111	1.2407	0.0013	0.01	ACBD5	acyl-CoA binding domain contz protein_cc	10	27195214	27242130	-1	p12.1
ENSG00000103356	0.3109	1.2405	0.0019	0.0132	EARS2	glutamyl-tRNA synthetase 2, m protein_cc	16	23522014	23557731	-1	p12.2
ENSG00000182107	0.3108	1.2404	0.0014	0.0106	TMEM30B	transmembrane protein 30B [S protein_cc	14	61277370	61281840	-1	q23.1
ENSG00000131269	0.3108	1.2404	0.0037	0.0233	ABCB7	ATP-binding cassette, sub-fam protein_ccX		75053172	75156732	-1	q13.3
ENSG00000114125	0.3106	1.2402	0.0001	0.0015	RNF7	ring finger protein 7 [Source:H protein_cc	3	1.42E+08	1.42E+08	1	q23
ENSG00000121022	0.3105	1.2401	0.006	0.0339	ROP55	COP9 signalosome subunit 5 [S protein_cc	8	67043079	67083783	-1	q13.1
ENSG00000141759	0.3101	1.2398	8.366E-07	1.5948E-05	TXNL4A	thioredoxin-like 4A [Source:HG protein_cc	18	79970811	80033949	-1	q23
ENSG00000101856	0.3099	1.2396	4.2592E-05	0.0005	PGRMC1	progesterone receptor membr protein_ccX		1.19E+08	1.19E+08	1	q24
ENSG00000165672	0.3097	1.2395	0.0047	0.0282	PRDX3	peroxiredoxin 3 [Source:HGNC protein_cc	10	1.19E+08	1.19E+08	-1	q26.11
ENSG00000116586	0.3096	1.2394	2.2904E-05	0.0003	LAMTOR2	late endosomal/lysosomal ada protein_cc	1	1.56E+08	1.56E+08	1	q22
ENSG00000109270	0.3092	1.239	0.0086	0.0452	LAMTOR3	late endosomal/lysosomal ada protein_cc	4	99878336	99894490	-1	q23
ENSG00000146386	0.3089	1.2388	0.0086	0.0453	ABRA1	ABRA C-terminal like [Source:F protein_cc	6	1.39E+08	1.39E+08	1	q24.1
ENSG00000161204	0.3088	1.2387	0.0004	0.0039	ABCF3	ATP-binding cassette, sub-fam protein_cc	3	1.84E+08	1.84E+08	1	q27.1
ENSG00000133313	0.3088	1.2387	0.001	0.008	CNDP2	CNDP dipeptidase 2 (metallope protein_cc	18	74495816	74523454	1	q22.3
ENSG00000107104	0.3087	1.2386	0.0009	0.0075	KANK1	KN motif and ankyrin repeat di protein_cc	9	470291	746106	1	p24.3
ENSG00000075336	0.3079	1.2379	0.0069	0.0383	TIMM21	translocase of inner mitochondr protein_cc	18	74148511	74160530	1	q22.3
ENSG00000148925	0.3065	1.2367	0.0047	0.0283	BTBD10	BTB (POZ) domain containing 1 protein_cc	11	13388001	13463297	-1	p15.3
ENSG00000145390	0.3063	1.2365	0.0042	0.0256	USP53	ubiquitin specific peptidase 53 protein_cc	4	1.19E+08	1.19E+08	1	q26
ENSG00000112335	0.3059	1.2362	0.0012	0.0093	SNX3	sorting nexin 3 [Source:HGNC ! protein_cc	6	1.08E+08	1.08E+08	-1	q21
ENSG00000172009	0.3058	1.2361	0.0034	0.0218	THOP1	thimet oligopeptidase 1 [Sourc protein_cc	19	2785460	2815807	1	p13.3
ENSG00000182179	0.3057	1.236	3.9824E-05	0.0005	UBA7	ubiquitin-like modifier activatii protein_cc	3	49805207	49813946	-1	p21.31
ENSG00000156976	0.3056	1.2359	0.0035	0.0223	EIF4A2	eukaryotic translation initiatio protein_cc	3	1.87E+08	1.87E+08	1	q27.3
ENSG00000173545	0.3054	1.2357	0.00009305	0.001	ZNF622	zinc finger protein 622 [Source protein_cc	5	16451519	16465792	-1	p15.1
ENSG00000004059	0.3051	1.2355	0.0009	0.0076	ARF5	ADP-ribosylation factor 5 [Soui protein_cc	7	1.28E+08	1.28E+08	1	q32.1
ENSG00000149923	0.3047	1.2352	1.7549E-06	3.0745E-05	PPP4C	protein phosphatase 4, catalyt protein_cc	16	30075978	30085377	1	p11.2
ENSG00000116171	0.3044	1.2349	0.0017	0.0121	SCP2	sterol carrier protein 2 [Source protein_cc	1	52927229	53051703	1	p32.3
ENSG000000011566	0.3041	1.2347	0.0018	0.0126	MAP4K3	mitogen-activated protein kinz protein_cc	2	39249266	39437312	-1	p22.1
ENSG00000155959	0.3038	1.2344	0.0029	0.0189	VBP1	von Hippel-Lindau binding proi protein_ccX		1.55E+08	1.55E+08	1	q28
ENSG00000129625	0.3036	1.2342	0.0013	0.0096	REEP5	receptor accessory protein 5 [S protein_cc	5	1.13E+08	1.13E+08	-1	q22.2
ENSG00000273749	0.3032	1.2339	0.0017	0.0121	CYFIP1	cytoplasmic FMR1 interacting i protein_cc	15	22867052	22981063	-1	q11.2
ENSG00000099800	0.3025	1.2333	0.0026	0.0172	TIMM13	translocase of inner mitochondr protein_cc	19	2425624	2427894	-1	p13.3
ENSG00000158006	0.3025	1.2333	0.0042	0.026	PAFAH2	platelet-activating factor acety protein_cc	1	25959767	25998157	-1	p36.11
ENSG00000001629	0.3025	1.2332	0.0043	0.026	ANKIB1	ankyrin repeat and IBR domair protein_cc	7	92246234	92401384	1	q21.2
ENSG00000198677	0.3024	1.2332	0.0049	0.0289	TTC37	tetratricopeptide repeat doma protein_cc	5	95463895	95555007	-1	q15
ENSG00000113658	0.302	1.2329	0.0049	0.029	SMAD5	SMAD family member 5 [Sourc protein_cc	5	1.36E+08	1.36E+08	1	q31.1

ENSG00000110075	0.3015	1.2324	1.566E-08	4.1595E-07	PPP6R3	protein phosphatase 6, regulat protein_cc	11	68460731	68615334	1	q13.2
ENSG00000075785	0.3015	1.2324	0.0003	0.0028	RAB7A	RAB7A, member RAS oncogene protein_cc	3	1.29E+08	1.29E+08	1	q21.3
ENSG00000244045	0.3013	1.2322	0.0021	0.0146	TMEM199	transmembrane protein 199 [S protein_cc	17	28357581	28363683	1	q11.2
ENSG00000159216	0.3009	1.2319	0.0056	0.0323	RUNX1	runt-related transcription factor protein_cc	21	34787801	36004667	-1	q22.12
ENSG00000164897	0.3009	1.2319	0.0087	0.0458	TMUB1	transmembrane and ubiquitin- protein_cc	7	1.51E+08	1.51E+08	-1	q36.1
ENSG00000175582	0.3003	1.2314	0.0066	0.0369	RAB6A	RAB6A, member RAS oncogene protein_cc	11	73675638	73761137	-1	q13.4
ENSG00000176953	0.3001	1.2312	0.0032	0.0205	NFATC2IP	nuclear factor of activated T-cell protein_cc	16	28950807	28967097	1	p11.2
ENSG00000117151	0.2994	1.2306	0.0058	0.0334	CTBS	chitinase, di-N-acetyl- [Source protein_cc	1	84549606	84574480	-1	p22.3
ENSG00000132196	0.2992	1.2305	0.0095	0.049	HSD17B7	hydroxysteroid (17-beta) dehydrogenase protein_cc	1	1.63E+08	1.63E+08	1	q23.3
ENSG00000198055	0.299	1.2303	0.0084	0.0443	GRK6	G protein-coupled receptor kinase protein_cc	5	1.77E+08	1.77E+08	1	q35.3
ENSG00000073969	0.2989	1.2302	0.0023	0.016	NSF	N-ethylmaleimide-sensitive factor protein_cc	17	46590669	46757464	1	q21.31
ENSG00000102921	0.2989	1.2302	0.0087	0.0455	N4BP1	NEDD4 binding protein 1 [Source protein_cc	16	48538726	48620148	-1	q12.1
ENSG00000107175	0.2988	1.2301	3.2454E-05	0.0004	NREB3	cAMP responsive element binding protein_cc	9	35732320	35737007	1	p13.3
ENSG00000115520	0.2985	1.2298	0.0061	0.0347	COQ10B	coenzyme Q10 homolog B (S. cerevisiae) protein_cc	2	1.97E+08	1.97E+08	1	q33.1
ENSG00000180891	0.2978	1.2293	0.0021	0.0148	CUEDC1	CUE domain containing 1 [Source protein_cc	17	57861243	57955323	-1	q22
ENSG00000134697	0.297	1.2286	0.0038	0.0237	GNL2	guanine nucleotide binding protein gamma protein_cc	1	37566816	37595935	-1	p34.3
ENSG00000185359	0.2968	1.2284	0.0002	0.0024	HGS	hepatocyte growth factor-regulatory protein_cc	17	81683326	81703138	1	q25.3
ENSG00000213585	0.2964	1.2281	5.4514E-06	8.4887E-05	VDAC1	voltage-dependent anion channel protein_cc	5	1.34E+08	1.34E+08	-1	q31.1
ENSG00000104979	0.2957	1.2275	0.0003	0.0032	C19orf53	chromosome 19 open reading frame protein_cc	19	13774168	13778462	1	p13.13
ENSG00000074071	0.2951	1.227	0.0081	0.0431	MRPS34	mitochondrial ribosomal protein 34 protein_cc	16	1771890	1773155	-1	p13.3
ENSG00000149269	0.2947	1.2266	0.0031	0.0201	PAK1	p21 protein (Cdc42/Rac)-activated protein_cc	11	77321707	77474635	-1	q14.1
ENSG00000176978	0.2945	1.2265	0.004	0.0246	DPP7	dipeptidyl-peptidase 7 [Source protein_cc	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000172315	0.2942	1.2262	0.0006	0.0049	TP53RK	TP53 regulating kinase [Source protein_cc	20	46684365	46689779	-1	q13.12
ENSG00000117411	0.2941	1.2261	0.008	0.0428	B4GALT2	UDP-Gal:betaGlcNAc beta 1,4-galactose 4-epimerase protein_cc	1	43978943	43991170	1	p34.1
ENSG00000173230	0.2933	1.2254	0.0055	0.0319	GOLGB1	golgin B1 [Source:HGNC Symbol; curated protein_cc	3	1.22E+08	1.22E+08	-1	q13.33
ENSG00000129480	0.2931	1.2253	0.008	0.0428	DTD2	D-tyrosyl-tRNA deacylase 2 (putative) protein_cc	14	31446036	31457510	-1	q12
ENSG00000125445	0.2924	1.2247	0.0017	0.0122	MRPS7	mitochondrial ribosomal protein 7 protein_cc	17	75261674	75266373	1	q25.1
ENSG00000160194	0.2923	1.2246	0.0049	0.029	NDUFV3	NADH dehydrogenase (ubiquinone) protein_cc	21	42879644	42913304	1	q22.3
ENSG00000198727	0.2916	1.224	0.0031	0.0203	MT-CYB	mitochondrially encoded cytochrome b protein_cc MT		14747	15887	1	
ENSG00000126777	0.2906	1.2232	8.4413E-05	0.001	KTN1	kinectin 1 (kinesin receptor) [S protein_cc	14	55559072	55701526	1	q22.3
ENSG00000182534	0.2903	1.2229	0.0043	0.026	MXRA7	matrix-remodelling associated protein_cc	17	76672551	76711016	-1	q25.1
ENSG00000067560	0.2895	1.2222	2.5303E-09	7.6006E-08	RHOA	ras homolog family member A protein_cc	3	49359145	49412998	-1	p21.31
ENSG00000142507	0.2894	1.2221	0.0034	0.0217	PSMB6	proteasome (prosome, multicatalytic proteinase) protein_cc	17	4796144	4798503	1	p13.2
ENSG00000124786	0.2893	1.2221	0.0046	0.0279	SLC35B3	solute carrier family 35 (adenosine nucleoside) protein_cc	6	8413068	8435483	-1	p24.3
ENSG00000167515	0.2892	1.2219	0.0087	0.0455	TRAPPC2L	trafficking protein particle complex protein_cc	16	88856220	88862686	1	q24.3
ENSG00000169599	0.289	1.2218	0.0051	0.0299	NFU1	NFU1 iron-sulfur cluster scaffold protein_cc	2	69395750	69437628	-1	p13.3
ENSG00000054611	0.289	1.2218	0.0062	0.0352	TBC1D22A	TBC1 domain family, member 22 protein_cc	22	46762617	47175699	1	q13.31
ENSG00000179632	0.2886	1.2214	0.0006	0.0055	MAF1	MAF1 homolog (S. cerevisiae) protein_cc	8	1.44E+08	1.44E+08	1	q24.3
ENSG00000017260	0.2883	1.2212	0.0093	0.048	ATP2C1	ATPase, Ca++ transporting, type 2C protein_cc	3	1.31E+08	1.31E+08	1	q22.1
ENSG00000160014	0.2882	1.2211	0.0018	0.0127	CALM3	calmodulin 3 (phosphorylase kinase) protein_cc	19	46601074	46610793	1	q13.32
ENSG00000131966	0.288	1.221	0.0023	0.0156	ACTR10	actin-related protein 10 homolog protein_cc	14	58200080	58235636	1	q23.1

ENSG00000165916	0.2879	1.2209	0.0075	0.041 PSMC3	proteasome (prosome, macroprotein_cc	11	47418769	47426473	-1	p11.2
ENSG00000183726	0.2877	1.2207	3.1262E-05	0.0004 TMEM50A	transmembrane protein 50A [Sc protein_cc	1	25337917	25362361	1	p36.11
ENSG00000086504	0.2865	1.2196	0.0003	0.0026 MRPL28	mitochondrial ribosomal prote protein_cc	16	367384	370527	-1	p13.3
ENSG00000102978	0.2863	1.2195	0.0028	0.0187 POLR2C	polymerase (RNA) II (DNA dire protein_cc	16	57462387	57472010	1	q21
ENSG00000156052	0.2858	1.2191	0.0044	0.0268 GNAQ	guanine nucleotide binding prc protein_cc	9	77716087	78031458	-1	q21.2
ENSG00000179041	0.2852	1.2186	0.008	0.0427 RRS1	RRS1 ribosome biogenesis regu protein_cc	8	66429028	66430733	1	q13.1
ENSG00000131043	0.285	1.2184	0.0027	0.0181 AAR2	AAR2 splicing factor homolog ( protein_cc	20	36236459	36270918	-1	q11.23
ENSG00000125977	0.2848	1.2182	0.0008	0.0066 EIF52	eukaryotic translation initiatio protein_cc	20	34088298	34112332	-1	q11.22
ENSG00000181991	0.2847	1.2182	0.0089	0.0465 MRPS11	mitochondrial ribosomal prote protein_cc	15	88467453	88480773	1	q25.3
ENSG00000122203	0.2843	1.2178	7.6026E-05	0.0009 KIAA1191	KIAA1191 [Source:HGNC Symb protein_cc	5	1.76E+08	1.76E+08	-1	q35.2
ENSG00000159352	0.2837	1.2173	0.0059	0.0336 PSMD4	proteasome (prosome, macroprotein_cc	1	1.51E+08	1.51E+08	1	q21.3
ENSG00000108528	0.2835	1.2171	0.0048	0.0288 SLC25A11	solute carrier family 25 (mitocd protein_cc	17	4937130	4940251	-1	p13.2
ENSG00000143801	0.2831	1.2168	0.0069	0.0384 PSEN2	presenilin 2 [Source:HGNC Syn protein_cc	1	2.27E+08	2.27E+08	1	q42.13
ENSG00000092010	0.283	1.2167	0.0001	0.0013 PSME1	proteasome (prosome, macroprotein_cc	14	24136158	24138967	1	q12
ENSG00000166925	0.2824	1.2162	0.003	0.0194 TSC22D4	TSC22 domain family, member protein_cc	7	1E+08	1E+08	-1	q22.1
ENSG00000146731	0.2817	1.2156	0.0032	0.0206 CCT6A	chaperonin containing TCP1, si protein_cc	7	56051630	56063989	1	p11.2
ENSG00000136238	0.2806	1.2147	0.0006	0.0051 RAC1	ras-related C3 botulinum toxin protein_cc	7	6374523	6403977	1	p22.1
ENSG00000083937	0.2806	1.2147	0.0051	0.0302 CHMP2B	charged multivesicular body pr protein_cc	3	87227271	87255548	1	p11.2
ENSG00000089737	0.2802	1.2143	5.2393E-05	0.0006 DDX24	DEAD (Asp-Glu-Ala-Asp) box h protein_cc	14	94048291	94081245	-1	q32.12
ENSG00000091640	0.2798	1.2141	0.0064	0.0359 SPAG7	sperm associated antigen 7 [Sc protein_cc	17	4959226	4967872	-1	p13.2
ENSG00000162664	0.2793	1.2136	0.0009	0.0074 ZNF326	zinc finger protein 326 [Source protein_cc	1	89995112	90035531	1	p22.2
ENSG00000115084	0.2793	1.2136	0.0079	0.0425 SLC35F5	solute carrier family 35, memb protein_cc	2	1.14E+08	1.14E+08	-1	q14.1
ENSG00000100983	0.2792	1.2135	0.0007	0.0057 GSS	glutathione synthetase [Source protein_cc	20	34928430	34955817	-1	q11.22
ENSG00000103769	0.279	1.2133	0.0001	0.0012 RAB11A	RAB11A, member RAS oncogei protein_cc	15	65726054	65891991	1	q22.31
ENSG00000165660	0.2787	1.2131	0.009	0.0468 FAM175B	family with sequence similarity protein_cc	10	1.25E+08	1.25E+08	1	q26.13
ENSG00000104375	0.2781	1.2126	0.0035	0.0223 STK3	serine/threonine kinase 3 [Sou protein_cc	8	98401403	98942827	-1	q22.2
ENSG00000173812	0.278	1.2125	0.0018	0.0127 EIF1	eukaryotic translation initiatio protein_cc	17	41688885	41692668	1	q21.2
ENSG00000164896	0.2775	1.2121	0.001	0.0081 FASTK	Fas-activated serine/threonine protein_cc	7	1.51E+08	1.51E+08	-1	q36.1
ENSG00000180957	0.2771	1.2118	0.0044	0.0265 PITPNB	phosphatidylinositol transfer p protein_cc	22	27851669	27920134	-1	q12.1
ENSG00000109133	0.2767	1.2114	0.0037	0.0231 TMEM33	transmembrane protein 33 [Sc protein_cc	4	41935120	41960572	1	p13
ENSG00000183475	0.2766	1.2113	0.007	0.0385 ASB7	ankyrin repeat and SOCS box c protein_cc	15	1.01E+08	1.01E+08	1	q26.3
ENSG00000138942	0.2764	1.2112	0.0012	0.0093 RNF185	ring finger protein 185 [Source protein_cc	22	31160183	31207019	1	q12.2
ENSG00000214013	0.2754	1.2104	0.0027	0.0179 GANC	glucosidase, alpha; neutral C [ protein_cc	15	42273233	42356935	1	q15.1
ENSG00000105058	0.2753	1.2102	2.7937E-06	4.6587E-05 FAM32A	family with sequence similarity protein_cc	19	16185380	16192046	1	p13.11
ENSG00000105778	0.2752	1.2101	0.0009	0.0075 AVL9	AVL9 homolog (S. cerevisiae) protein_cc	7	32495426	32588721	1	p14.3
ENSG00000147439	0.2751	1.2101	0.0093	0.048 BIN3	bridging integrator 3 [Source: protein_cc	8	22620418	22669148	-1	p21.3
ENSG00000242247	0.2736	1.2088	0.0065	0.0365 ARFGAP3	ADP-ribosylation factor GTPase protein_cc	22	42796502	42858106	-1	q13.2
ENSG00000157916	0.2735	1.2087	5.4714E-05	0.0007 RER1	retention in endoplasmic retici protein_cc	1	2391775	2405444	1	p36.32
ENSG00000005700	0.2734	1.2087	0.0002	0.0024 IBTK	inhibitor of Bruton agammaglc protein_cc	6	82169983	82247754	-1	q14.1
ENSG00000067900	0.2731	1.2084	0.0079	0.0426 ROCK1	Rho-associated, coiled-coil con protein_cc	18	20946906	21111851	-1	q11.1
ENSG00000139132	0.2728	1.2082	0.0062	0.0352 FGD4	FYVE, RhoGEF and PH domain protein_cc	12	32399529	32646050	1	p11.21

ENSG00000165637	0.2716	1.2071	8.7992E-07	1.6674E-05	VDAC2	voltage-dependent anion chan protein_cc	10	75210154	75231448	1	q22.2
ENSG00000198466	0.2713	1.2069	0.003	0.0194	ZNF587	zinc finger protein 587 [Source:protein_cc	19	57849857	57865112	1	q13.43
ENSG00000132305	0.2711	1.2067	0.0024	0.0164	IMMT	inner membrane protein, mito protein_cc	2	86143932	86195770	-1	p11.2
ENSG00000106524	0.2707	1.2064	0.0027	0.0183	ANKMY2	ankyrin repeat and MYND domr protein_cc	7	16599776	16645817	-1	p21.1
ENSG00000087263	0.2704	1.2062	0.0014	0.0107	OGFOD1	2-oxoglutarate and iron-depen protein_cc	16	56451490	56479100	1	q13
ENSG00000138069	0.2701	1.2059	0.0052	0.0306	RAB1A	RAB1A, member RAS oncogen protein_cc	2	65070701	65130106	-1	p14
ENSG00000149600	0.2699	1.2057	0.0023	0.0157	COMMD7	COMM domain containing 7 [S protein_cc	20	32702691	32743997	-1	q11.21
ENSG00000198001	0.2698	1.2057	0.0073	0.0401	IRAK4	interleukin-1 receptor-associat protein_cc	12	43758944	43789543	1	q12
ENSG00000196262	0.2694	1.2053	0.0073	0.0397	PPIA	peptidylprolyl isomerase A (cy protein_cc	7	44796680	44824564	1	p13
ENSG00000166411	0.2693	1.2052	0.0054	0.0312	IDH3A	isocitrate dehydrogenase 3 (N protein_cc	15	78131498	78171949	1	q25.1
ENSG00000100991	0.2693	1.2052	0.0062	0.0349	TRPC4AP	transient receptor potential ca protein_cc	20	35002404	35092871	-1	q11.22
ENSG00000213341	0.2686	1.2047	0.0008	0.007	CHUK	conserved helix-loop-helix ubiq protein_cc	10	1E+08	1E+08	-1	q24.31
ENSG00000083099	0.2687	1.2047	0.0062	0.0352	LYRM2	LYR motif containing 2 [Source:protein_cc	6	89568144	89638753	-1	q15
ENSG00000141367	0.2684	1.2045	0.001	0.0083	CLTC	clathrin, heavy chain (Hc) [Sou protein_cc	17	59619689	59696956	1	q23.1
ENSG00000168883	0.2684	1.2045	0.0029	0.0188	USP39	ubiquitin specific peptidase 39 protein_cc	2	85602856	85649282	1	p11.2
ENSG00000167461	0.2679	1.2041	0.0041	0.0252	RAB8A	RAB8A, member RAS oncogen protein_cc	19	16111629	16134234	1	p13.11
ENSG00000122705	0.2676	1.2038	0.0016	0.0118	CLTA	clathrin, light chain A [Source: protein_cc	9	36190856	36304781	1	p13.3
ENSG00000198356	0.2674	1.2037	0.0012	0.0091	ASNA1	arsA arsenite transporter, ATP: protein_cc	19	12737139	12748323	1	p13.13
ENSG00000133835	0.267	1.2033	0.0004	0.0038	HSD17B4	hydroxysteroid (17-beta) dehy protein_cc	5	1.19E+08	1.2E+08	1	q23.1
ENSG00000204220	0.267	1.2033	0.0078	0.0418	PFDN6	prefoldin subunit 6 [Source:HG protein_cc	6	33289302	33298401	1	p21.32
ENSG00000156587	0.2664	1.2028	0.0043	0.0264	UBE2L6	ubiquitin-conjugating enzyme protein_cc	11	57551656	57568284	-1	q12.1
ENSG00000123395	0.2661	1.2026	0.0094	0.0486	ATG101	autophagy related 101 [Source:protein_cc	12	52069246	52077494	1	q13.13
ENSG00000140367	0.266	1.2025	0.0023	0.0159	UBE2Q2	ubiquitin-conjugating enzyme protein_cc	15	75843285	75901078	1	q24.2
ENSG00000007202	0.266	1.2024	0.0022	0.015	KIAA0100	KIAA0100 [Source:HGNC Symb protein_cc	17	28614440	28645454	-1	q11.2
ENSG00000100225	0.2652	1.2018	6.2706E-06	9.6119E-05	FBXO7	F-box protein 7 [Source:HGNC protein_cc	22	32474676	32498829	1	q12.3
ENSG00000136874	0.2651	1.2017	0.0051	0.03	STX17	syntaxin 17 [Source:HGNC Sym protein_cc	9	99906633	99970341	1	q31.1
ENSG00000119139	0.2649	1.2016	0.0075	0.041	TJP2	tight junction protein 2 [Source: protein_cc	9	69121264	69255208	1	q21.11
ENSG00000100883	0.2646	1.2013	0.0041	0.0254	SRP54	signal recognition particle 54k protein_cc	14	34981957	35029567	1	q13.2
ENSG00000079459	0.2646	1.2013	0.0058	0.0333	FDFT1	farnesyl-diphosphate farnesylt protein_cc	8	11795573	11839309	1	p23.1
ENSG00000162928	0.2642	1.201	0.0059	0.0337	PEX13	peroxisomal biogenesis factor protein_cc	2	61017225	61051990	1	p15
ENSG00000171503	0.2638	1.2007	0.0035	0.0224	ETFDH	electron-transferring-flavoprot protein_cc	4	1.59E+08	1.59E+08	1	q32.1
ENSG00000124299	0.2637	1.2006	0.0048	0.0284	PEPD	peptidase D [Source:HGNC Syn protein_cc	19	33386950	33521794	-1	q13.11
ENSG00000148358	0.2637	1.2005	0.0033	0.0214	GPR107	G protein-coupled receptor 10 protein_cc	9	1.3E+08	1.3E+08	1	q34.11
ENSG00000211456	0.263	1.2	0.0012	0.009	SACM1L	SAC1 suppressor of actin muta protein_cc	3	45689056	45745424	1	p21.31
ENSG00000170088	0.2625	1.1996	0.0082	0.0437	TMEM192	transmembrane protein 192 [S protein_cc	4	1.65E+08	1.65E+08	-1	q32.3
ENSG00000181885	0.2617	1.1989	0.0008	0.0067	CLDN7	claudin 7 [Source:HGNC Symb protein_cc	17	7259903	7263983	-1	p13.1
ENSG00000150403	0.2616	1.1988	2.3736E-06	4.0252E-05	TMCO3	transmembrane and coiled-coi protein_cc	13	1.13E+08	1.14E+08	1	q34
ENSG00000116752	0.2615	1.1988	0.0043	0.0263	BCAS2	breast carcinoma amplified sec protein_cc	1	1.15E+08	1.15E+08	-1	p13.2
ENSG00000105341	0.2613	1.1985	0.0017	0.0123	ATP5SL	ATP5S-like [Source:HGNC Sym protein_cc	19	41431318	41440717	-1	q13.2
ENSG00000104164	0.2612	1.1984	0.001	0.0078	BLOC1S6	biogenesis of lysosomal organ protein_cc	15	45587123	45615999	1	q21.1
ENSG00000145293	0.261	1.1983	0.0054	0.0313	ENOPH1	enolase-phosphatase 1 [Source: protein_cc	4	82430562	82461091	1	q21.22



ENSG00000128585	0.2609	1.1983	0.0062	0.0351 MKLN1	muskelin 1, intracellular media protein_cc	7	1.31E+08	1.31E+08	1	q32.3
ENSG00000198804	0.2609	1.1982	0.0096	0.0492 MT-CO1	mitochondrially encoded cytochrome c oxidase subunit I protein_cc		5904	7445	1	
ENSG00000169727	0.2604	1.1978	0.0016	0.0118 GPS1	G protein pathway suppressor protein_cc	17	82050691	82057470	1	q25.3
ENSG00000099203	0.2603	1.1977	0.0077	0.0416 TMED1	transmembrane emp24 protein family class 1 member A protein_cc	19	10832438	10836318	-1	p13.2
ENSG00000109519	0.2601	1.1976	0.0021	0.0148 GRPEL1	GrpE-like 1, mitochondrial (E. coli) protein_cc	4	7058906	7068197	-1	p16.1
ENSG00000125304	0.2595	1.1971	9.5378E-06	0.0001 TM9SF2	transmembrane 9 superfamily protein_cc	13	99501417	99564006	1	q32.3
ENSG00000163159	0.2587	1.1964	0.0066	0.0369 VPS72	vacuolar protein sorting 72 homolog protein_cc	1	1.51E+08	1.51E+08	-1	q21.3
ENSG00000132286	0.2585	1.1962	0.0049	0.0292 TIMM10B	translocase of inner mitochondrial membrane protein_cc	11	6481447	6484679	1	p15.4
ENSG00000156471	0.2582	1.196	0.0068	0.0379 PTDSS1	phosphatidylserine synthase 1 protein_cc	8	96261715	96336995	1	q22.1
ENSG00000115808	0.2581	1.1959	0.0023	0.0156 STRN	striatin, calmodulin binding protein protein_cc	2	36843640	36966472	-1	p22.2
ENSG00000101367	0.2577	1.1956	0.0004	0.0037 SUPRE1	microtubule-associated protein protein_cc	20	32819893	32850405	1	q11.21
ENSG00000136143	0.2573	1.1953	0.0039	0.0243 SUCLA2	succinate-CoA ligase, ADP-forming protein_cc	13	47936487	48001326	-1	q14.2
ENSG00000166266	0.2574	1.1953	0.0061	0.0347 CUL5	cullin 5 [Source:HGNC Symbol; protein_cc	11	1.08E+08	1.08E+08	1	q22.3
ENSG00000204272	0.2572	1.1951	0.0019	0.0136 LINC01420	long intergenic non-protein coding RNA 1420		56729259	56818380	1	p11.21
ENSG00000115204	0.2571	1.195	0.004	0.0247 MPV17	MpV17 mitochondrial inner membrane protein_cc	2	27309492	27325680	-1	p23.3
ENSG00000168802	0.2566	1.1947	0.004	0.0244 CHTF8	CTF8, chromosome transmission fidelity factor protein_cc	16	69118010	69132584	-1	q22.1
ENSG00000065135	0.2565	1.1946	0.0007	0.0058 GNAI3	guanine nucleotide binding protein (G_i) protein_cc	1	1.1E+08	1.1E+08	1	p13.3
ENSG00000126581	0.2556	1.1939	0.0006	0.0054 BECN1	beclin 1, autophagy related [Sc] protein_cc	17	42810134	42833350	-1	q21.31
ENSG00000119559	0.2556	1.1938	0.0034	0.0218 C19orf25	chromosome 19 open reading frame 25 protein_cc	19	1461143	1479556	-1	p13.3
ENSG00000055130	0.2548	1.1932	0.0036	0.0224 CUL1	cullin 1 [Source:HGNC Symbol; protein_cc	7	1.49E+08	1.49E+08	1	q36.1
ENSG00000115561	0.2544	1.1929	0.0095	0.0489 CHMP3	charged multivesicular body protein protein_cc	2	86503430	86620493	-1	p11.2
ENSG00000140157	0.2536	1.1922	0.0023	0.0156 NIPA2	non imprinted in Prader-Willi syndrome protein_cc	15	22838641	22868384	1	q11.2
ENSG00000126653	0.2533	1.192	0.002	0.014 NSRP1	nuclear speckle splicing regulator protein_cc	17	30115521	30186475	1	q11.2
ENSG00000172936	0.2529	1.1916	0.0008	0.0069 MYD88	myeloid differentiation primary sequence protein_cc	3	38138478	38143022	1	p22.2
ENSG00000166619	0.2526	1.1914	0.0003	0.003 BLCAP	bladder cancer associated protein protein_cc	20	37492472	37527931	-1	q11.23
ENSG00000119689	0.2524	1.1912	0.0004	0.0036 DLST	dihydroliipoamide S-succinyltransferase protein_cc	14	74881891	74903745	1	q24.3
ENSG00000139842	0.2525	1.1912	0.0062	0.0351 CUL4A	cullin 4A [Source:HGNC Symbol; protein_cc	13	1.13E+08	1.13E+08	1	q34
ENSG00000124532	0.252	1.1909	0.0004	0.0035 MRS2	MRS2 magnesium transporter protein_cc	6	24402908	24426194	1	p22.3
ENSG00000173020	0.2515	1.1905	0.0021	0.0146 ADRBK1	adrenergic, beta, receptor kinase protein_cc	11	67266410	67286556	1	q13.2
ENSG00000138286	0.2516	1.1905	0.0063	0.0356 FAM149B1	family with sequence similarity 149B protein_cc	10	73168166	73244504	1	q22.2
ENSG00000197265	0.2514	1.1904	0.0066	0.0369 GTF2E2	general transcription factor II E protein_cc	8	30578318	30658251	-1	p12
ENSG00000108669	0.2506	1.1897	0.0007	0.0058 CYTH1	cytohesin 1 [Source:HGNC Symbol; protein_cc	17	78674048	78782297	-1	q25.3
ENSG00000137168	0.2499	1.1891	0.0031	0.0203 PP1L1	peptidylprolyl isomerase (cyclic) protein_cc	6	36854827	36875024	-1	p21.2
ENSG00000134283	0.2495	1.1888	0.0035	0.0221 PPHLN1	periphilin 1 [Source:HGNC Symbol; protein_cc	12	42238447	42459715	1	q12
ENSG00000077380	0.2492	1.1886	0.0032	0.0205 DYNC1I2	dynein, cytoplasmic 1, intermediate chain protein_cc	2	1.72E+08	1.72E+08	1	q31.1
ENSG00000247556	0.2489	1.1883	0.0002	0.0024 OIP5-AS1	OIP5 antisense RNA 1 [Source:Ensembl; protein_cc	15	41283990	41309737	1	q15.1
ENSG00000011009	0.2489	1.1883	0.0068	0.0377 LYPLA2	lysophospholipase II [Source:Ensembl; protein_cc	1	23790970	23795539	1	p36.11
ENSG00000105821	0.2482	1.1877	0.0048	0.0287 DNAJC2	DnaJ (Hsp40) homolog, subfamily C protein_cc	7	1.03E+08	1.03E+08	-1	q22.1
ENSG00000151923	0.2473	1.187	0.0025	0.0171 TIAL1	TIA1 cytotoxic granule-associated protein_cc	10	1.2E+08	1.2E+08	-1	q26.11
ENSG00000071189	0.2473	1.187	0.0075	0.0408 SNX13	sorting nexin 13 [Source:HGNC Symbol; protein_cc	7	17790761	17940501	-1	p21.1
ENSG00000170248	0.2468	1.1866	0.0007	0.0059 PDCD6IP	programmed cell death 6 interacting protein_cc	3	33798352	33869707	1	p22.3

ENSG00000254999	0.2465	1.1864	0.005	0.0294 BRK1	BRICK1, SCAR/WAVE actin-nuc protein_cc	3	10115592	10127190	1	p25.3
ENSG00000124541	0.2441	1.1844	0.009	0.047 RRP36	ribosomal RNA processing 36 f protein_cc	6	43021645	43034156	1	p21.1
ENSG00000117868	0.2435	1.1839	0.0043	0.0262 ESYT2	extended synaptotagmin-like f protein_cc	7	1.59E+08	1.59E+08	-1	q36.3
ENSG00000064995	0.2434	1.1838	0.0082	0.0437 TAF11	TAF11 RNA polymerase II, TAT, protein_cc	6	34877778	34888089	-1	p21.31
ENSG00000124356	0.2431	1.1835	0.0043	0.0263 STAMBIP	STAM binding protein [Source: protein_cc	2	73828916	73873659	1	p13.1
ENSG00000065978	0.2427	1.1832	0.004	0.0249 YBX1	Y box binding protein 1 [Source: protein_cc	1	42682395	42702349	1	p34.2
ENSG00000122912	0.2427	1.1832	0.0096	0.0491 SLC25A16	solute carrier family 25 (mitoch protein_cc	10	68477999	68527474	-1	q21.3
ENSG00000035687	0.2426	1.1831	0.0016	0.0116 ADSS	adenylosuccinate synthase [So protein_cc	1	2.44E+08	2.44E+08	-1	q44
ENSG00000118454	0.2424	1.183	0.0042	0.0258 ANKRD13C	ankyrin repeat domain 13C [Sc protein_cc	1	70260588	70354734	-1	p31.1
ENSG00000163755	0.2419	1.1825	0.0041	0.025 HPS3	Hermansky-Pudlak syndrome 3 protein_cc	3	1.49E+08	1.49E+08	1	q24
ENSG00000151465	0.2417	1.1824	0.0025	0.0169 CDC123	cell division cycle 123 [Source: protein_cc	10	12195965	12250589	1	p14
ENSG00000091140	0.2416	1.1823	0.0059	0.0339 DLD	dihydrofolipoamide dehydrogen: protein_cc	7	1.08E+08	1.08E+08	1	q31.1
ENSG00000164466	0.2377	1.1791	0.0017	0.0122 SFXN1	sideroflexin 1 [Source:HGNC S) protein_cc	5	1.75E+08	1.76E+08	1	q35.2
ENSG00000168906	0.2369	1.1784	0.0002	0.0021 MAT2A	methionine adenosyltransfera: protein_cc	2	85539165	85545280	1	p11.2
ENSG00000065559	0.2353	1.1771	0.0032	0.0209 MAP2K4	mitogen-activated protein kin: protein_cc	17	12020824	12143830	1	p12
ENSG00000134444	0.2345	1.1765	0.0083	0.0443 KIAA1468	KIAA1468 [Source:HGNC Symb protein_cc	18	62187258	62307829	1	q21.33
ENSG00000179918	0.2342	1.1762	0.0051	0.03 SEPHS2	selenophosphate synthetase 2 protein_cc	16	30443631	30446181	-1	p11.2
ENSG00000106635	0.2339	1.176	0.0016	0.0116 BCL7B	B-cell CLL/lymphoma 7B [Sour: protein_cc	7	73536356	73558002	-1	q11.23
ENSG00000197170	0.2326	1.175	0.008	0.0429 PSMD12	proteasome (prosome, macro: protein_cc	17	67337916	67366627	-1	q24.2
ENSG00000101421	0.2323	1.1747	0.0009	0.0071 CHMP4B	charged multivesicular body pr protein_cc	20	33811304	33854366	1	q11.22
ENSG00000215717	0.2323	1.1747	0.0073	0.04 TMEM167B	transmembrane protein 167B   protein_cc	1	1.09E+08	1.09E+08	1	p13.3
ENSG00000090316	0.2317	1.1742	0.0003	0.003 MAEA	macrophage erythroblast attac protein_cc	4	1289851	1340147	1	p16.3
ENSG00000167778	0.2311	1.1738	0.0004	0.0039 SPRYD3	SPRY domain containing 3 [Sou protein_cc	12	53064316	53079420	-1	q13.13
ENSG00000040633	0.2307	1.1734	0.0088	0.0459 PHF23	PHD finger protein 23 [Source: protein_cc	17	7235028	7239722	-1	p13.1
ENSG00000116685	0.2297	1.1726	0.0017	0.0121 KIAA2013	KIAA2013 [Source:HGNC Symb protein_cc	1	11919591	11926428	-1	p36.22
ENSG00000121964	0.2296	1.1725	0.0054	0.0316 GTDC1	glycosyltransferase-like domai protein_cc	2	1.44E+08	1.44E+08	-1	q22.3
ENSG00000138768	0.2296	1.1725	0.0074	0.0404 USO1	USO1 vesicle transport factor [ protein_cc	4	75724593	75814286	1	q21.1
ENSG00000114030	0.2278	1.171	0.0077	0.0416 KPNA1	karyopherin alpha 1 (importin protein_cc	3	1.22E+08	1.23E+08	-1	q21.1
ENSG00000110435	0.2269	1.1703	0.0026	0.0175 PDHX	pyruvate dehydrogenase com: protein_cc	11	34915829	35020591	1	p13
ENSG00000112343	0.2264	1.1699	0.0079	0.0425 TRIM38	tripartite motif containing 38 [ protein_cc	6	25962802	25987156	1	p22.2
ENSG00000213463	0.2256	1.1693	0.0001	0.0016 SYNJ2BP	synaptojanin 2 binding protein protein_cc	14	70366496	70417061	-1	q24.2
ENSG00000172531	0.2256	1.1693	0.0089	0.0464 PPP1CA	protein phosphatase 1, catalyt protein_cc	11	67398183	67421183	-1	q13.2
ENSG00000137824	0.2255	1.1692	0.0013	0.0097 RMDN3	regulator of microtubule dyna: protein_cc	15	40735884	40755851	-1	q15.1
ENSG00000167118	0.225	1.1688	0.0011	0.0088 URM1	ubiquitin related modifier 1 [Sc protein_cc	9	1.28E+08	1.28E+08	1	q34.11
ENSG00000182544	0.2243	1.1682	0.0068	0.0378 MFSD5	major facilitator superfamily di protein_cc	12	53251251	53254405	1	q13.13
ENSG00000198399	0.2242	1.1681	0.0021	0.0147 ITSN2	intersectin 2 [Source:HGNC Sy) protein_cc	2	24202864	24360714	-1	p23.3
ENSG00000058063	0.224	1.1679	0.0015	0.0114 ATP11B	ATPase, class VI, type 11B [Sou protein_cc	3	1.83E+08	1.83E+08	1	q26.33
ENSG00000162613	0.2235	1.1676	0.0006	0.0051 FUBP1	far upstream element (FUSE) b protein_cc	1	77944055	77979110	-1	p31.1
ENSG00000077254	0.2229	1.1671	0.0039	0.0242 USP33	ubiquitin specific peptidase 33 protein_cc	1	77695987	77759852	-1	p31.1
ENSG00000134001	0.2225	1.1668	0.0006	0.0053 EIF2S1	eukaryotic translation initiati: protein_cc	14	67359997	67386516	1	q23.3
ENSG00000138594	0.2221	1.1664	0.0044	0.0269 TMOD3	tropomodulin 3 (ubiquitous) [S protein_cc	15	51829628	51947295	1	q21.2

ENSG0000082213	0.2214	1.1659	0.0051	0.0302 C5orf22	chromosome 5 open reading fi protein_cc	5	31532266	31555058	1	p13.3
ENSG00000198858	0.2213	1.1658	0.0076	0.0413 R3HDM4	R3H domain containing 4 [Soui protein_cc	19	896503	913245	-1	p13.3
ENSG00000131238	0.2208	1.1654	0.0033	0.021 PPT1	palmitoyl-protein thioesterase protein_cc	1	40072705	40097703	-1	p34.2
ENSG00000029364	0.2184	1.1635	6.1271E-05	0.0007 SLC39A9	solute carrier family 39, memb protein_cc	14	69398015	69462388	1	q24.1
ENSG00000116679	0.2179	1.163	0.0092	0.0477 IVNS1ABP	influenza virus NS1A binding p protein_cc	1	1.85E+08	1.85E+08	-1	q25.3
ENSG00000155097	0.2168	1.1621	0.0077	0.0418 ATP6V1C1	ATPase, H+ transporting, lysosi protein_cc	8	1.03E+08	1.03E+08	1	q22.3
ENSG00000155229	0.2161	1.1616	0.0053	0.0308 MMS19	MMS19 nucleotide excision rej protein_cc	10	97458324	97498794	-1	q24.1
ENSG00000274523	0.2161	1.1616	0.0097	0.0493 WBSCR16	Williams-Beuren syndrome chr protein_cc	7	75027122	75074228	-1	q11.23
ENSG00000137509	0.2142	1.16	0.009	0.047 PRCP	prolylcarboxypeptidase (angioi protein_cc	11	82823502	82970584	-1	q14.1
ENSG00000145868	0.2139	1.1598	0.0006	0.0054 FBXO38	F-box protein 38 [Source:HGN( protein_cc	5	1.48E+08	1.48E+08	1	q32
ENSG00000121644	0.2135	1.1595	0.0011	0.0088 DESI2	desumoylating isopeptidase 2 protein_cc	1	2.45E+08	2.45E+08	1	q44
ENSG00000114573	0.2117	1.158	0.0051	0.0303 ATP6V1A	ATPase, H+ transporting, lysosi protein_cc	3	1.14E+08	1.14E+08	1	q13.31
ENSG00000158417	0.2113	1.1577	0.0022	0.0151 EIF5B	eukaryotic translation initiatio protein_cc	2	99337353	99401326	1	q11.2
ENSG00000215193	0.2111	1.1576	0.0059	0.0337 PEX26	peroxisomal biogenesis factor protein_cc	22	18077920	18131138	1	q11.21
ENSG00000106682	0.2108	1.1573	2.4714E-05	0.0003 EIF4H	eukaryotic translation initiatio protein_cc	7	74174245	74197101	1	q11.23
ENSG00000136758	0.2096	1.1564	0.0052	0.0305 YME1L1	YME1-like 1 ATPase [Source:HC protein_cc	10	27110112	27155266	-1	p12.1
ENSG00000060339	0.2086	1.1556	0.0011	0.0089 CCAR1	cell division cycle and apoptosi protein_cc	10	68721012	68792377	1	q21.3
ENSG00000151689	0.2081	1.1552	0.0083	0.0441 INPP1	inositol polyphosphate-1-phos protein_cc	2	1.9E+08	1.9E+08	1	q32.2
ENSG00000109606	0.2069	1.1542	0.0035	0.0223 DHX15	DEAH (Asp-Glu-Ala-His) box he protein_cc	4	24517441	24584550	-1	p15.2
ENSG00000034713	0.2061	1.1536	0.003	0.0199 GABARAPL2	GABA(A) receptor-associated $\zeta$ protein_cc	16	75566351	75577881	1	q23.1
ENSG00000197451	0.2047	1.1525	0.0063	0.0356 HNRNPAB	heterogeneous nuclear ribonu protein_cc	5	1.78E+08	1.78E+08	1	q35.3
ENSG00000147416	0.2044	1.1522	0.006	0.0343 ATP6V1B2	ATPase, H+ transporting, lysosi protein_cc	8	20197367	20226819	1	p21.3
ENSG00000182180	0.2009	1.1494	0.0006	0.0052 MRPS16	mitochondrial ribosomal prote protein_cc	10	73248843	73252693	-1	q22.2
ENSG00000119541	0.1987	1.1476	0.0001	0.0013 VPS4B	vacuolar protein sorting 4 hom protein_cc	18	63389190	63422483	-1	q21.33
ENSG00000120705	0.198	1.1471	0.0004	0.0035 ETF1	eukaryotic translation termina protein_cc	5	1.39E+08	1.39E+08	-1	q31.2
ENSG00000189306	0.1973	1.1466	0.0075	0.0408 RRP7A	ribosomal RNA processing 7 hc protein_cc	22	42509968	42519802	-1	q13.2
ENSG00000049245	0.1943	1.1442	0.009	0.0468 VAMP3	vesicle-associated membrane $\mu$ protein_cc	1	7771269	7781432	1	p36.23
ENSG00000104695	0.1939	1.1439	0.0026	0.0175 PPP2CB	protein phosphatase 2, catalyt protein_cc	8	30774457	30814314	-1	p12
ENSG00000161217	0.1937	1.1437	0.0069	0.038 PCYT1A	phosphate cytidyltransferase protein_cc	3	1.96E+08	1.96E+08	-1	q29
ENSG00000163798	0.1926	1.1428	0.0073	0.0399 SLC4A1AP	solute carrier family 4 (anion e protein_cc	2	27663471	27694976	1	p23.3
ENSG00000166747	0.191	1.1416	0.0043	0.0263 AP1G1	adaptor-related protein compl protein_cc	16	71729000	71809201	-1	q22.2
ENSG00000108061	0.191	1.1415	0.0074	0.0405 SHOC2	soc-2 suppressor of clear hom protein_cc	10	1.11E+08	1.11E+08	1	q25.2
ENSG00000131165	0.1904	1.1411	0.0037	0.023 CHMP1A	charged multivesicular body pr protein_cc	16	89644431	89657845	-1	q24.3
ENSG00000113575	0.1878	1.1391	0.0031	0.0201 PPP2CA	protein phosphatase 2, catalyt protein_cc	5	1.34E+08	1.34E+08	-1	q31.1
ENSG00000162735	0.1876	1.1389	0.0045	0.0273 PEX19	peroxisomal biogenesis factor protein_cc	1	1.6E+08	1.6E+08	-1	q23.2
ENSG00000149187	0.1869	1.1383	0.0037	0.0234 CELF1	CUGBP, Elav-like family memb protein_cc	11	47465944	47565569	-1	p11.2
ENSG00000084733	0.1767	1.1303	0.0072	0.0395 RAB10	RAB10, member RAS oncogene protein_cc	2	26034107	26137454	1	p23.3
ENSG00000133961	0.1732	1.1275	0.0086	0.0452 NUMB	numb homolog (Drosophila) [S protein_cc	14	73275107	73463642	-1	q24.3
ENSG00000145740	0.1715	1.1262	0.0087	0.0456 SLC30A5	solute carrier family 30 (zinc tr protein_cc	5	69093646	69131069	1	q13.1
ENSG00000163812	0.1676	1.1232	0.0033	0.0214 ZDHHC3	zinc finger, DHHC-type contain protein_cc	3	44915257	44976185	-1	p21.31
ENSG00000179010	0.1652	1.1213	0.0031	0.0202 MRFAP1	Morf4 family associated protei protein_cc	4	6640091	6642745	1	p16.1

ENSG00000153827	0.1577	1.1155	0.0085	0.0447 TRIP12	thyroid hormone receptor inte protein_cc	2	2.3E+08	2.3E+08	-1	q36.3
ENSG00000160310	0.1534	1.1122	0.0042	0.0259 PRMT2	protein arginine methyltransfe protein_cc	21	46635167	46665124	1	q22.3
ENSG00000106049	-0.1984	-1.1474	0.0025	0.0167 HIBADH	3-hydroxyisobutyrate dehydro protein_cc	7	27525442	27662995	-1	p15.2
ENSG00000164124	-0.2233	-1.1674	0.0058	0.0335 TMEM144	transmembrane protein 144 [S protein_cc	4	1.58E+08	1.58E+08	1	q32.1
ENSG00000077097	-0.2272	-1.1705	0.0016	0.0116 TOP2B	topoisomerase (DNA) II beta 1; protein_cc	3	25597905	25664907	-1	p24.2
ENSG00000087338	-0.2277	-1.171	0.0085	0.045 GMCL1	germ cell-less, spermatogenesi protein_cc	2	69829642	69881396	1	p13.3
ENSG00000182307	-0.228	-1.1712	0.0056	0.0325 C8orf33	chromosome 8 open reading fi protein_cc	8	1.45E+08	1.45E+08	1	q24.3
ENSG00000102241	-0.231	-1.1737	0.0084	0.0443 HTATSF1	HIV-1 Tat specific factor 1 [Sou protein_ccX		1.36E+08	1.37E+08	1	q26.3
ENSG00000145495	-0.2338	-1.1759	0.0031	0.0203 MARCH6	membrane-associated ring fing protein_cc	5	10353703	10440388	1	p15.2
ENSG00000173726	-0.236	-1.1777	0.0006	0.0049 TOMM20	translocase of outer mitochondri protein_cc	1	2.35E+08	2.35E+08	-1	q42.3
ENSG00000113441	-0.2363	-1.178	0.0028	0.0187 LNPEP	leucyl/cystinyl aminopeptidase protein_cc	5	96935394	97037515	1	q15
ENSG00000122565	-0.2374	-1.1789	0.0031	0.0203 CBX3	chromobox homolog 3 [Source protein_cc	7	26201162	26213356	1	p15.2
ENSG00000166855	-0.2417	-1.1824	0.0055	0.0319 CLPX	caseinolytic mitochondrial mat protein_cc	15	65148219	65185342	-1	q22.31
ENSG00000166750	-0.2466	-1.1864	0.0034	0.0219 SLFN5	schlafen family member 5 [Sou protein_cc	17	35243036	35273655	1	q12
ENSG00000276293	-0.2478	-1.1874	0.0084	0.0445 PIP4K2B	phosphatidylinositol-5-phosph protein_cc	17	38765689	38800126	-1	q12
ENSG00000101444	-0.2479	-1.1875	0.0054	0.0315 AHCY	adenosylhomocysteinase [Sou protein_cc	20	34280268	34311802	-1	q11.22
ENSG00000148672	-0.2479	-1.1875	0.0074	0.0402 GLUD1	glutamate dehydrogenase 1 [S protein_cc	10	87050486	87094866	-1	q23.2
ENSG00000084093	-0.2483	-1.1878	0.0058	0.0332 REST	RE1-silencing transcription fact protein_cc	4	56907876	56935844	1	q12
ENSG00000163608	-0.2505	-1.1896	0.0019	0.0137 C3orf17	chromosome 3 open reading fi protein_cc	3	1.13E+08	1.13E+08	-1	q13.2
ENSG00000168385	-0.2516	-1.1905	0.0041	0.0252 SEPT2	septin 2 [Source:HGNC Symbol protein_cc	2	2.41E+08	2.41E+08	1	q37.3
ENSG00000170540	-0.2561	-1.1942	0.0066	0.0367 ARLGIP1	ADP-ribosylation factor-like 6 i protein_cc	16	18791667	18801678	-1	p12.3
ENSG00000115421	-0.2577	-1.1955	0.0082	0.0437 PAPOLG	poly(A) polymerase gamma [Sc protein_cc	2	60756230	60802085	1	p16.1
ENSG00000152061	-0.2607	-1.198	0.004	0.0249 RABGAP1L	RAB GTPase activating protein protein_cc	1	1.74E+08	1.75E+08	1	q25.1
ENSG00000115504	-0.2614	-1.1986	0.0042	0.0256 EHBP1	EH domain binding protein 1 [S protein_cc	2	62673851	63046487	1	p15
ENSG00000173273	-0.2624	-1.1995	0.0052	0.0304 TNKS	tankyrase, TRF1-interacting an protein_cc	8	9555914	9782346	1	p23.1
ENSG00000236287	-0.2653	-1.2019	0.0075	0.0407 ZBED5	zinc finger, BED-type containin protein_cc	11	10812074	10858796	-1	p15.4
ENSG00000130517	-0.2676	-1.2038	0.0031	0.0201 PGPEP1	pyroglutamyl-peptidase I [Sou protein_cc	19	18340587	18369950	1	p13.11
ENSG00000188554	-0.2681	-1.2042	0.0009	0.0072 NBR1	neighbor of BRCA1 gene 1 [Sou protein_cc	17	43170481	43211689	1	q21.31
ENSG00000163565	-0.2689	-1.2049	0.007	0.0385 IFI16	interferon, gamma-inducible p protein_cc	1	1.59E+08	1.59E+08	1	q23.1
ENSG00000073584	-0.269	-1.205	0.0014	0.0105 SMARCE1	SWI/SNF related, matrix associ protein_cc	17	40624962	40648508	-1	q21.2
ENSG00000111371	-0.2691	-1.2051	0.0019	0.0132 SLC38A1	solute carrier family 38, memb protein_cc	12	46183063	46270017	-1	q13.11
ENSG00000177034	-0.2699	-1.2058	0.0022	0.0155 MTX3	metaxin 3 [Source:HGNC Symb protein_cc	5	79976731	79991262	-1	q14.1
ENSG00000044090	-0.2705	-1.2062	0.0051	0.0299 CUL7	cullin 7 [Source:HGNC Symbol; protein_cc	6	43037617	43053945	-1	p21.1
ENSG00000146463	-0.2711	-1.2067	0.0028	0.0183 ZMYM4	zinc finger, MYM-type 4 [Sourc protein_cc	1	35268967	35422058	1	p34.3
ENSG00000162521	-0.2723	-1.2077	8.2232E-05	0.0009 RBBP4	retinoblastoma binding proteir protein_cc	1	32651142	32686211	1	p35.1
ENSG00000167005	-0.2736	-1.2088	0.0051	0.0299 NUDT21	nudix (nucleoside diphosphate protein_cc	16	56429133	56452199	-1	q13
ENSG00000157764	-0.2741	-1.2092	0.0068	0.0379 BRAF	B-Raf proto-oncogene, serine/ protein_cc	7	1.41E+08	1.41E+08	-1	q34
ENSG00000147162	-0.2776	-1.2122	0.0029	0.0191 OGT	O-linked N-acetylglucosamine protein_ccX		71533083	71575897	1	q13.1
ENSG00000137075	-0.2777	-1.2123	0.0038	0.024 RNF38	ring finger protein 38 [Source: protein_cc	9	36336396	36487548	-1	p13.2
ENSG00000183808	-0.278	-1.2126	0.0044	0.0267 RBM12B	RNA binding motif protein 12B protein_cc	8	93729356	93741017	-1	q22.1
ENSG00000003402	-0.2786	-1.213	7.588E-06	0.0001 CFLAR	CASP8 and FADD-like apoptosi protein_cc	2	2.01E+08	2.01E+08	1	q33.1

ENSG00000137161	-0.2795	-1.2138	0.0029	0.0192 CNPY3	canopy FGF signaling regulator protein_cc	6	42929192	42939287	1	p21.1
ENSG00000105483	-0.281	-1.215	0.0042	0.0259 CARD8	caspase recruitment domain f2 protein_cc	19	48180770	48255946	-1	q13.33
ENSG00000171456	-0.2815	-1.2155	0.0021	0.0146 ASXL1	additional sex combs like trans protein_cc	20	32358344	32439319	1	q11.21
ENSG00000138660	-0.2826	-1.2164	0.0055	0.0321 AP1AR	adaptor-related protein compl protein_cc	4	1.12E+08	1.12E+08	1	q25
ENSG00000106617	-0.2826	-1.2164	0.0068	0.0379 PRKAG2	protein kinase, AMP-activated, protein_cc	7	1.52E+08	1.52E+08	-1	q36.1
ENSG00000198315	-0.2834	-1.2171	0.0061	0.0344 ZKSCAN8	zinc finger with KRAB and SCAF protein_cc	6	28141910	28159472	1	p22.1
ENSG00000103495	-0.2857	-1.219	0.0057	0.0326 MAZ	MYC-associated zinc finger pro protein_cc	16	29806106	29812328	1	p11.2
ENSG00000108312	-0.2898	-1.2225	0.0085	0.0448 UBTF	upstream binding transcription protein_cc	17	44205033	44221626	-1	q21.31
ENSG00000260032	-0.29	-1.2226	0.0004	0.0034 LINC00657	long intergenic non-protein co lincRNA	20	36045622	36050960	-1	q11.23
ENSG00000204304	-0.2904	-1.223	0.0003	0.0029 PBX2	pre-B-cell leukemia homeobox protein_cc	6	32184741	32190186	-1	p21.32
ENSG00000215114	-0.2908	-1.2233	0.0008	0.0069 UBXLN2B	UBX domain protein 2B [Source: protein_cc	8	58411264	58451501	1	q12.1
ENSG00000136068	-0.2911	-1.2236	0.0094	0.0484 FLNB	filamin B, beta [Source:HGNC protein_cc	3	58008400	58172251	1	p14.3
ENSG00000105968	-0.2928	-1.225	0.0012	0.0091 H2AFV	H2A histone family, member V protein_cc	7	44826791	44848083	-1	p13
ENSG00000163947	-0.2933	-1.2255	0.002	0.0139 ARHGGEF3	Rho guanine nucleotide exchar protein_cc	3	56727418	57079329	-1	p14.3
ENSG00000169018	-0.2951	-1.2269	0.0093	0.0479 FEM1B	fem-1 homolog b (C. elegans) [ protein_cc	15	68277803	68295865	1	q23
ENSG00000109320	-0.2955	-1.2273	0.0093	0.048 NFKB1	nuclear factor of kappa light pr protein_cc	4	1.03E+08	1.03E+08	1	q24
ENSG00000123636	-0.298	-1.2294	0.0001	0.0015 BAZ2B	bromodomain adjacent to zinc protein_cc	2	1.59E+08	1.6E+08	-1	q24.2
ENSG00000160803	-0.2986	-1.2299	0.0059	0.0339 UBQLN4	ubiquilin 4 [Source:HGNC SymI protein_cc	1	1.56E+08	1.56E+08	-1	q22
ENSG00000186448	-0.3	-1.2311	0.0064	0.0358 ZNF197	zinc finger protein 197 [Source protein_cc	3	44584888	44648471	1	p21.31
ENSG00000143379	-0.3013	-1.2322	0.003	0.0197 SETDB1	SET domain, bifurcated 1 [Sour protein_cc	1	1.51E+08	1.51E+08	1	q21.3
ENSG00000119927	-0.3016	-1.2325	0.0068	0.0376 GPAM	glycerol-3-phosphate acyltrans protein_cc	10	1.12E+08	1.12E+08	-1	q25.2
ENSG00000152443	-0.3017	-1.2326	0.0029	0.0192 ZNF776	zinc finger protein 776 [Source protein_cc	19	57746796	57758159	1	q13.43
ENSG00000068796	-0.3019	-1.2328	0.0006	0.0054 KIF2A	kinesin heavy chain member 2, protein_cc	5	62306162	62537249	1	q12.1
ENSG00000168763	-0.3023	-1.2331	0.007	0.0385 CNNM3	cyclin and CBS domain divalen protein_cc	2	96816245	96833911	1	q11.2
ENSG00000136451	-0.3031	-1.2338	0.0067	0.0373 VEZF1	vascular endothelial zinc finger protein_cc	17	57971547	57988259	-1	q22
ENSG00000162599	-0.3046	-1.2351	0.0065	0.0362 NFIA	nuclear factor I/A [Source:HGN protein_cc	1	60865259	61462793	1	p31.3
ENSG00000196670	-0.3053	-1.2357	0.0013	0.0101 ZFP62	ZFP62 zinc finger protein [Sour protein_cc	5	1.81E+08	1.81E+08	-1	q35.3
ENSG00000138386	-0.3071	-1.2372	0.0002	0.0021 NAB1	NGFI-A binding protein 1 (EGR; protein_cc	2	1.91E+08	1.91E+08	1	q32.2
ENSG00000033800	-0.3094	-1.2392	0.0047	0.028 PIAS1	protein inhibitor of activated S protein_cc	15	68054179	68198603	1	q23
ENSG00000168813	-0.3098	-1.2396	0.0064	0.0361 ZNF507	zinc finger protein 507 [Source protein_cc	19	32345594	32387667	1	q13.11
ENSG00000116984	-0.3099	-1.2396	0.0096	0.0491 MTR	5-methyltetrahydrofolate-horr protein_cc	1	2.37E+08	2.37E+08	1	q43
ENSG00000184575	-0.3104	-1.24	0.0006	0.005 XPOT	exportin, tRNA [Source:HGNC; protein_cc	12	64404350	64451127	1	q14.2
ENSG00000171316	-0.3125	-1.2419	0.0053	0.0311 CHD7	chromodomain helicase DNA t protein_cc	8	60678778	60868028	1	q12.2
ENSG00000147274	-0.3134	-1.2426	9.1941E-05	0.001 RBMX	RNA binding motif protein, X-li protein_ccX		1.37E+08	1.37E+08	-1	q26.3
ENSG00000132635	-0.3142	-1.2433	0.0073	0.04 PCED1A	PC-esterase domain containing protein_cc	20	2835314	2841190	-1	p13
ENSG00000163659	-0.3148	-1.2439	0.007	0.0389 TIPARP	TCDD-inducible poly(ADP-ribos protein_cc	3	1.57E+08	1.57E+08	1	q25.31
ENSG00000047346	-0.3152	-1.2442	0.0002	0.0024 FAM214A	family with sequence similarity protein_cc	15	52581317	52709817	-1	q21.3
ENSG00000171469	-0.3156	-1.2445	8.5778E-07	1.6303E-05 ZNF561	zinc finger protein 561 [Source protein_cc	19	9604680	9621399	-1	p13.2
ENSG00000100823	-0.3156	-1.2446	0.0005	0.0044 APEX1	APEX nuclease (multifunctiona protein_cc	14	20455191	20457772	1	q11.2
ENSG00000080503	-0.3157	-1.2446	0.0027	0.0178 SMARCA2	SWI/SNF related, matrix associ protein_cc	9	2015219	2193624	1	p24.3
ENSG00000100354	-0.3165	-1.2453	0.0011	0.0088 TNRC6B	trinucleotide repeat containing protein_cc	22	40044817	40335808	1	q13.1



ENSG00000165406	-0.3171	-1.2458	0.0087	0.0455	MARCH8	membrane-associated ring finger protein_cc	10	45454585	45594906	-1	q11.22
ENSG00000119004	-0.3187	-1.2472	1.2253E-05	0.0002	CYP20A1	cytochrome P450, family 20, subfamily 1 protein_cc	2	2.03E+08	2.03E+08	1	q33.2
ENSG00000225830	-0.319	-1.2475	0.0009	0.0074	ERCC6	excision repair cross-complement protein_cc	10	49455368	49539538	-1	q11.23
ENSG00000163257	-0.3191	-1.2476	0.0038	0.0236	DCAF16	DDB1 and CUL4 associated factor protein_cc	4	17800655	17810758	-1	p15.31
ENSG00000197121	-0.3199	-1.2483	0.0058	0.0332	PGAP1	post-GPI attachment to protein protein_cc	2	1.97E+08	1.97E+08	-1	q33.1
ENSG00000119906	-0.3213	-1.2494	0.002	0.014	FAM178A	family with sequence similarity 178 protein_cc	10	1.01E+08	1.01E+08	1	q24.31
ENSG00000188021	-0.3212	-1.2494	0.0045	0.0273	UBQLN2	ubiquilin 2 [Source:HGNC Symbol] protein_cc	1	56563639	56567868	-1	p11.21
ENSG00000174579	-0.3235	-1.2513	0.0067	0.0375	MSL2	male-specific lethal 2 homolog protein_cc	3	1.36E+08	1.36E+08	-1	q22.3
ENSG00000104369	-0.3234	-1.2513	0.0085	0.0447	JPH1	junctophilin 1 [Source:HGNC Symbol] protein_cc	8	74234700	74321328	-1	q21.11
ENSG00000091317	-0.3244	-1.2521	0.001	0.008	RCMT6	CKLF-like MARVEL transmembrane protein_cc	3	32481312	32503408	-1	p22.3
ENSG00000135870	-0.3247	-1.2524	0.0011	0.0089	RCT3H1	ring finger and CCHC-type domain protein_cc	1	1.74E+08	1.74E+08	-1	q25.1
ENSG00000139178	-0.325	-1.2527	0.0076	0.041	C1RL	complement component 1, receptor protein_cc	12	7089587	7109273	-1	p13.31
ENSG00000023516	-0.326	-1.2535	1.0246E-06	1.9111E-05	AKAP11	A kinase (PRKA) anchor protein protein_cc	13	42272153	42323267	1	q14.11
ENSG00000264522	-0.3261	-1.2536	6.6671E-05	0.0008	OTUD7B	OTU deubiquitinase 7B [Source:HGNC Symbol] protein_cc	1	1.5E+08	1.5E+08	-1	q21.2
ENSG00000119787	-0.3261	-1.2536	0.0007	0.0059	ATL2	atlastin GTPase 2 [Source:HGNC Symbol] protein_cc	2	38294880	38377285	-1	p22.1
ENSG00000189339	-0.3274	-1.2548	0.0019	0.0137	SLC35E2B	solute carrier family 35, member 2 protein_cc	1	1659529	1692728	-1	p36.33
ENSG00000110002	-0.3279	-1.2552	0.0021	0.0144	VWA5A	von Willebrand factor A domain protein_cc	11	1.24E+08	1.24E+08	1	q24.2
ENSG00000264364	-0.3281	-1.2553	0.0039	0.0241	DYNLL2	dynein, light chain, LC8-type 2 protein_cc	17	58083415	58095536	1	q22
ENSG00000196139	-0.3286	-1.2558	0.0056	0.0325	AKR1C3	aldo-keto reductase family 1, member 3 protein_cc	10	5035354	5107686	1	p15.1
ENSG00000079691	-0.3289	-1.256	0.0088	0.0462	LRRC16A	leucine rich repeat containing protein_cc	6	25279078	25620530	1	p22.2
ENSG00000105722	-0.329	-1.2561	0.0014	0.0108	ERF	Ets2 repressor factor [Source:HGNC Symbol] protein_cc	19	42247572	42255157	-1	q13.2
ENSG00000166716	-0.3304	-1.2574	0.0042	0.0257	ZNF592	zinc finger protein 592 [Source:HGNC Symbol] protein_cc	15	84748635	84806432	1	q25.3
ENSG00000166444	-0.3311	-1.258	0.0004	0.0036	ST5	suppression of tumorigenicity 5 protein_cc	11	8693351	8910951	-1	p15.4
ENSG00000165714	-0.3319	-1.2586	0.0054	0.0314	LOH12CR1	loss of heterozygosity, 12, chromosome 12 protein_cc	12	12357079	12469694	1	p13.2
ENSG00000103994	-0.3325	-1.2592	0.0066	0.0369	ZNF106	zinc finger protein 106 [Source:HGNC Symbol] protein_cc	15	42412823	42491123	-1	q15.1
ENSG00000152795	-0.3332	-1.2598	0.0015	0.0109	HNRNPDL	heterogeneous nuclear ribonucleoprotein protein_cc	4	82422564	82430225	-1	q21.22
ENSG00000106261	-0.3335	-1.2601	0.0048	0.0286	ZKSCAN1	zinc finger with KRAB and SCAN domain protein_cc	7	1E+08	1E+08	1	q22.1
ENSG00000101126	-0.3354	-1.2618	0.0017	0.0125	ADNP	activity-dependent neuroprotector protein_cc	20	50888919	50931240	-1	q13.13
ENSG00000103490	-0.3357	-1.262	0.0052	0.0307	PYCARD	PYD and CARD domain containing protein_cc	16	31201485	31203450	-1	p11.2
ENSG00000189180	-0.3368	-1.2629	0.0014	0.0105	ZNF33A	zinc finger protein 33A [Source:HGNC Symbol] protein_cc	10	38010650	38065088	1	p11.1
ENSG00000156273	-0.3369	-1.263	0.0029	0.0189	BACH1	BTB and CNC homology 1, basic helix-loop-helix protein_cc	21	29194071	29630751	1	q21.3
ENSG00000100422	-0.337	-1.2631	0.0068	0.0379	CERK	ceramide kinase [Source:HGNC Symbol] protein_cc	22	46684411	46738261	-1	q13.31
ENSG00000143815	-0.3372	-1.2633	0.0051	0.0302	LBR	lamin B receptor [Source:HGNC Symbol] protein_cc	1	2.25E+08	2.25E+08	-1	q42.12
ENSG00000153292	-0.3378	-1.2639	0.0008	0.0068	GPR110	G protein-coupled receptor 11 protein_cc	6	46997703	47042363	-1	p12.3
ENSG00000001167	-0.3384	-1.2643	0.0004	0.0037	NFYA	nuclear transcription factor Y, family A protein_cc	6	41072945	41099976	1	p21.1
ENSG00000185404	-0.339	-1.2649	4.3818E-05	0.0005	SP140L	SP140 nuclear body protein-like protein_cc	2	2.3E+08	2.3E+08	1	q37.1
ENSG00000143624	-0.3396	-1.2654	0.0007	0.006	INTS3	integrator complex subunit 3 [Source:HGNC Symbol] protein_cc	1	1.54E+08	1.54E+08	1	q21.3
ENSG00000130826	-0.3402	-1.2659	0.0054	0.0315	DKC1	dyskeratosis congenita 1, dyskerin protein_cc	1	1.55E+08	1.55E+08	1	q28
ENSG00000150054	-0.3401	-1.2659	0.0067	0.0375	MPP7	membrane protein, palmitoylated protein_cc	10	28050993	28334486	-1	p12.1
ENSG00000185591	-0.3409	-1.2666	0.0014	0.0107	SP1	Sp1 transcription factor [Source:HGNC Symbol] protein_cc	12	53380176	53416446	1	q13.13
ENSG00000141736	-0.3441	-1.2694	0.0096	0.0493	ERBB2	v-erb-b2 avian erythroblastic leukemia protein_cc	17	39687914	39730426	1	q12

ENSG00000108064	-0.3445	-1.2697	0.0007	0.0061 TFAM	transcription factor A, mitochc protein_cc	10	58385022	58399221	1	q21.1
ENSG00000142166	-0.3458	-1.2708	0.0002	0.0017 IFNAR1	interferon (alpha, beta and om protein_cc	21	33324477	33359862	1	q22.11
ENSG00000187257	-0.3462	-1.2712	0.0009	0.0074 RSNB1L	round spermatid basic protein protein_cc	7	77696443	77783022	1	q11.23
ENSG00000168807	-0.3464	-1.2714	0.001	0.0078 SNTB2	syntrophin, beta 2 (dystrophin protein_cc	16	69187129	69309052	1	q22.1
ENSG00000125827	-0.3468	-1.2717	0.0013	0.0097 TMX4	thioredoxin-related transmem protein_cc	20	7977348	8019829	-1	p12.3
ENSG00000184517	-0.347	-1.2719	0.0071	0.039 ZFP1	ZFP1 zinc finger protein [Sourc protein_cc	16	75148492	75172236	1	q23.1
ENSG00000198551	-0.347	-1.272	0.0065	0.0367 ZNF627	zinc finger protein 627 [Source protein_cc	19	11559374	11619135	1	p13.2
ENSG00000174718	-0.3491	-1.2738	0.0072	0.0394 KIAA1551	KIAA1551 [Source:HGNC Symb protein_cc	12	31959370	31993107	1	p11.21
ENSG00000115548	-0.3493	-1.2739	0.0006	0.0051 KDM3A	lysine (K)-specific demethylase protein_cc	2	86440647	86492716	1	p11.2
ENSG00000196968	-0.3502	-1.2748	0.0072	0.0397 FUT11	fucosyltransferase 11 (alpha (1 protein_cc	10	73772291	73780251	1	q22.2
ENSG00000130684	-0.352	-1.2763	0.0039	0.024 ZNF337	zinc finger protein 337 [Source protein_cc	20	25674215	25696841	-1	p11.21
ENSG00000066427	-0.3524	-1.2767	0.0005	0.0047 ATXN3	ataxin 3 [Source:HGNC Symbol protein_cc	14	92038652	92106621	-1	q32.12
ENSG00000165138	-0.3528	-1.277	0.0064	0.0362 ANKS6	ankyrin repeat and sterile alph protein_cc	9	98731329	98796965	-1	q22.33
ENSG00000175215	-0.354	-1.2781	0.0056	0.0325 CTDSP2	CTD (carboxy-terminal domain protein_cc	12	57819927	57846739	-1	q14.1
ENSG00000109381	-0.3545	-1.2785	0.0037	0.0234 ELF2	E74-like factor 2 (ets domain tr protein_cc	4	1.39E+08	1.39E+08	-1	q31.1
ENSG00000181827	-0.3549	-1.2789	0.0096	0.049 RFX7	regulatory factor X, 7 [Source: protein_cc	15	56087280	56243266	-1	q21.3
ENSG00000169957	-0.3554	-1.2793	0.0005	0.0045 ZNF768	zinc finger protein 768 [Source protein_cc	16	30524001	30526821	-1	p11.2
ENSG00000162607	-0.3559	-1.2798	0.004	0.0245 USP1	ubiquitin specific peptidase 1 [ protein_cc	1	62436297	62451804	1	p31.3
ENSG00000148498	-0.356	-1.2799	0.0024	0.0162 PARD3	par-3 family cell polarity regul; protein_cc	10	34109560	34815325	-1	p11.21
ENSG00000124120	-0.3583	-1.2819	0.0001	0.0015 TTPAL	tocopherol (alpha) transfer prc protein_cc	20	44475886	44494603	1	q13.12
ENSG00000166886	-0.3584	-1.282	0.0079	0.0426 NAB2	NGFI-A binding protein 2 (EGR; protein_cc	12	57088894	57095476	1	q13.3
ENSG00000011258	-0.3592	-1.2827	0.0058	0.0333 MBTD1	mbt domain containing 1 [Soui protein_cc	17	51177425	51260163	-1	q21.33
ENSG00000170412	-0.3595	-1.283	0.0013	0.0098 GPRC5C	G protein-coupled receptor, cl; protein_cc	17	74424851	74451653	1	q25.1
ENSG00000154217	-0.3602	-1.2836	0.0007	0.0061 PITPNC1	phosphatidylinositol transfer p protein_cc	17	67377281	67697261	1	q24.2
ENSG00000198740	-0.3604	-1.2838	0.0065	0.0365 ZNF652	zinc finger protein 652 [Source protein_cc	17	49289206	49362473	-1	q21.33
ENSG00000131263	-0.3615	-1.2848	4.9417E-06	7.7906E-05 RLIM	ring finger protein, LIM domain protein_cc X		74585217	74614617	-1	q13.2
ENSG00000130741	-0.3617	-1.285	5.1922E-06	8.1249E-05 EIF2S3	eukaryotic translation initiation protein_cc X		24054716	24077971	1	p22.11
ENSG00000179912	-0.3618	-1.285	0.0043	0.026 R3HDM2	R3H domain containing 2 [Soui protein_cc	12	57253762	57431005	-1	q13.3
ENSG00000083097	-0.3624	-1.2855	2.6044E-05	0.0003 DOPEY1	dopey family member 1 [Sourc protein_cc	6	83067666	83171350	1	q14.1
ENSG00000196323	-0.3626	-1.2857	0.0086	0.0453 ZBTB44	zinc finger and BTB domain coi protein_cc	11	1.3E+08	1.3E+08	-1	q24.3
ENSG00000152642	-0.3635	-1.2865	0.0048	0.0286 GPD1L	glycerol-3-phosphate dehydro; protein_cc	3	32105689	32168713	1	p22.3
ENSG00000204054	-0.3641	-1.287	0.0003	0.0027 LINC00963	long intergenic non-protein co processed_	9	1.29E+08	1.3E+08	1	q34.11
ENSG00000177189	-0.3654	-1.2882	1.2223E-07	2.791E-06 RPS6KA3	ribosomal protein S6 kinase, 9l protein_cc X		20149911	20267100	-1	p22.12
ENSG00000109184	-0.3663	-1.289	0.0004	0.0039 DCUN1D4	DCN1, defective in cullin neddy protein_cc	4	51843000	51916837	1	q12
ENSG00000166912	-0.3663	-1.2891	0.0016	0.0116 MTMR10	myotubularin related protein 1 protein_cc	15	30938941	30991607	-1	q13.3
ENSG00000152990	-0.367	-1.2897	0.009	0.047 GPR125	G protein-coupled receptor 12 protein_cc	4	22345071	22516054	-1	p15.2
ENSG00000106789	-0.3695	-1.2919	0.0018	0.0131 CORO2A	coronin, actin binding protein, protein_cc	9	98120975	98192640	-1	q22.33
ENSG00000164010	-0.3721	-1.2942	0.0016	0.0116 ERMAPP	erythroblast membrane-associ protein_cc	1	42817124	42844989	1	p34.2
ENSG00000111679	-0.3738	-1.2957	0.0038	0.0239 PTPN6	protein tyrosine phosphatase, protein_cc	12	6946468	6961316	1	p13.31
ENSG00000175354	-0.3738	-1.2957	0.0063	0.0356 PTPN2	protein tyrosine phosphatase, protein_cc	18	12785478	12929643	-1	p11.21
ENSG00000178607	-0.3779	-1.2995	0.0019	0.0137 ERN1	endoplasmic reticulum to nucl protein_cc	17	64039142	64130819	-1	q23.3

ENSG00000181191	-0.3794	-1.3008	0.0003	0.0032	PJA1	praja ring finger 1, E3 ubiquitin protein_ccX	69160851	69165793	-1	q13.1	
ENSG00000143772	-0.3795	-1.3009	0.005	0.0296	ITPKB	inositol-trisphosphate 3-kinase protein_cc	1	2.27E+08	2.27E+08	-1	q42.12
ENSG00000130816	-0.3797	-1.301	0.0052	0.0307	DNMT1	DNA (cytosine-5-)-methyltransferase protein_cc	19	10133345	10231286	-1	p13.2
ENSG00000198040	-0.3803	-1.3016	0.0003	0.0031	ZNF84	zinc finger protein 84 [Source:UniProt protein_cc	12	1.33E+08	1.33E+08	1	q24.33
ENSG00000118689	-0.3805	-1.3018	5.8714E-05	0.0007	FOXO3	forkhead box O3 [Source:HGNC Symbol protein_cc	6	1.09E+08	1.09E+08	1	q21
ENSG00000163635	-0.381	-1.3022	0.0014	0.0108	ATXN7	ataxin 7 [Source:HGNC Symbol protein_cc	3	63864557	64003462	1	p14.1
ENSG00000174738	-0.3818	-1.303	0.0009	0.0073	NR1D2	nuclear receptor subfamily 1, group 1 protein_cc	3	23945260	23980618	1	p24.2
ENSG00000234616	-0.3818	-1.303	0.0031	0.0201	JRK	Jrk homolog (mouse) [Source:UniProt protein_cc	8	1.43E+08	1.43E+08	-1	q24.3
ENSG00000016402	-0.3823	-1.3034	5.1303E-05	0.0006	IL20RA	interleukin 20 receptor, alpha 1 protein_cc	6	1.37E+08	1.37E+08	-1	q23.3
ENSG00000095585	-0.3823	-1.3034	0.0027	0.0182	BLNK	B-cell linker [Source:HGNC Symbol protein_cc	10	96191702	96271587	-1	q24.1
ENSG00000088448	-0.3828	-1.3039	0.0038	0.0239	ANKRD10	ankyrin repeat domain 10 [Source:UniProt protein_cc	13	1.11E+08	1.11E+08	-1	q34
ENSG00000102359	-0.3838	-1.3047	0.0039	0.024	SRPX2	sushi-repeat containing protein 2 protein_ccX		1.01E+08	1.01E+08	1	q22.1
ENSG00000198146	-0.3843	-1.3053	2.6711E-07	5.6837E-06	ZNF770	zinc finger protein 770 [Source:UniProt protein_cc	15	34978341	34988287	-1	q14
ENSG00000166704	-0.3864	-1.3072	0.0015	0.011	ZNF606	zinc finger protein 606 [Source:UniProt protein_cc	19	57977053	58003349	-1	q13.43
ENSG00000091436	-0.3879	-1.3085	6.9181E-05	0.0008	PK	Mitogen-activated protein kinase protein_cc	2	1.73E+08	1.73E+08	1	q31.1
ENSG00000204160	-0.3885	-1.3091	0.0015	0.0113	ZDHC18	zinc finger, DHC-type containing protein_cc	1	26826710	26857602	1	p36.11
ENSG00000075945	-0.3897	-1.3101	0.0091	0.0473	KIFAP3	kinesin-associated protein 3 [Source:UniProt protein_cc	1	1.7E+08	1.7E+08	-1	q24.2
ENSG00000186812	-0.3901	-1.3105	0.0016	0.0116	ZNF397	zinc finger protein 397 [Source:UniProt protein_cc	18	35241030	35267133	1	q12.2
ENSG00000104341	-0.391	-1.3113	0.0006	0.0049	LAPTM4B	lysosomal protein transmembrane protein_cc	8	97775057	97853013	1	q22.1
ENSG00000196743	-0.3911	-1.3114	0.0002	0.0019	GM2A	GM2 ganglioside activator [Source:UniProt protein_cc	5	1.51E+08	1.51E+08	1	q33.1
ENSG00000054793	-0.3927	-1.3129	0.0007	0.006	ATP9A	ATPase, class II, type 9A [Source:UniProt protein_cc	20	51596514	51768634	-1	q13.2
ENSG00000188707	-0.3931	-1.3132	0.0074	0.0403	ZBED6CL	ZBED6 C-terminal like [Source:UniProt protein_cc	7	1.5E+08	1.5E+08	1	q36.1
ENSG00000171490	-0.3934	-1.3135	0.0009	0.0073	RSL1D1	ribosomal L1 domain containing protein_cc	16	11833850	11851585	-1	p13.13
ENSG00000143819	-0.3946	-1.3146	0.0076	0.0411	EPHX1	epoxide hydrolase 1, microsomal protein_cc	1	2.26E+08	2.26E+08	1	q42.12
ENSG00000129534	-0.396	-1.3159	0.0083	0.044	MIS18BP1	MIS18 binding protein 1 [Source:UniProt protein_cc	14	45203190	45253540	-1	q21.2
ENSG00000152620	-0.3965	-1.3163	0.0004	0.0034	NADK2	NAD kinase 2, mitochondrial [Source:UniProt protein_cc	5	36192592	36242279	-1	p13.2
ENSG00000124795	-0.3974	-1.3172	0.0031	0.02	DEK	DEK proto-oncogene [Source:UniProt protein_cc	6	18223868	18264823	-1	p22.3
ENSG00000134744	-0.398	-1.3177	0.0072	0.0396	ZCCHC11	zinc finger, CCHC domain containing protein_cc	1	52408282	52553487	-1	p32.3
ENSG00000171045	-0.3981	-1.3178	0.0065	0.0363	TSNARE1	t-SNARE domain containing 1 [Source:UniProt protein_cc	8	1.42E+08	1.42E+08	-1	q24.3
ENSG00000117984	-0.3989	-1.3185	0.0019	0.0137	CTSD	cathepsin D [Source:HGNC Symbol protein_cc	11	1752752	1763992	-1	p15.5
ENSG00000197822	-0.3991	-1.3187	1.1004E-06	0.00002032	OCLN	occludin [Source:HGNC Symbol protein_cc	5	69492292	69558104	1	q13.2
ENSG00000101417	-0.3991	-1.3187	0.0003	0.0029	PXMP4	peroxisomal membrane protein 4 protein_cc	20	33702754	33720319	-1	q11.22
ENSG00000068097	-0.3991	-1.3187	0.0003	0.0031	HEATR6	HEAT repeat containing 6 [Source:UniProt protein_cc	17	60043194	60078931	-1	q23.1
ENSG00000138363	-0.3998	-1.3193	0.0003	0.003	ATIC	5-aminoimidazole-4-carboxamide protein_cc	2	2.15E+08	2.15E+08	1	q35
ENSG00000269905	-0.4002	-1.3197	0.0004	0.0035	TFDP2	transcription factor Dp-2 (E2F1) protein_cc	3	1.42E+08	1.42E+08	-1	q23
ENSG00000145476	-0.4003	-1.3197	0.0045	0.0271	CYP4V2	cytochrome P450, family 4, subfamily 2 protein_cc	4	1.86E+08	1.86E+08	1	q35.1
ENSG00000204186	-0.401	-1.3204	0.007	0.0384	ZDBF2	zinc finger, DBF-type containing protein_cc	2	2.06E+08	2.06E+08	1	q33.3
ENSG00000099875	-0.4019	-1.3213	7.4854E-05	0.0009	MKNK2	MAP kinase interacting serine/threonine protein_cc	19	2037465	2051244	-1	p13.3
ENSG00000197312	-0.4024	-1.3217	0.003	0.0195	DDI2	DNA-damage inducible 1 homolog 2 protein_cc	1	15617500	15669044	1	p36.21
ENSG00000248092	-0.4034	-1.3226	0.0038	0.0238	NNT-AS1	NNT antisense RNA 1 [Source:UniProt antisense	5	43571594	43603230	-1	p12
ENSG00000198625	-0.4043	-1.3234	0.0064	0.0361	MDM4	MDM4, p53 regulator [Source:UniProt protein_cc	1	2.05E+08	2.05E+08	1	q32.1

ENSG00000183255	-0.4044	-1.3235	0.0001	0.0013	PTTG1IP	pituitary tumor-transforming 1 protein_cc	21	44849585	44873903	-1	q22.3	
ENSG00000177426	-0.4043	-1.3235	0.0048	0.0288	TGIF1	TGFB-induced factor homeobo protein_cc	18	3411608	3459978	1	p11.31	
ENSG00000137274	-0.4045	-1.3236	0.0094	0.0484	BPHL	biphenyl hydrolase-like (serine protein_cc	6	3118374	3153578	1	p25.2	
ENSG00000124145	-0.4051	-1.3242	0.0025	0.017	SDC4	syndecan 4 [Source:HGNC Sym protein_cc	20	45325288	45348424	-1	q13.12	
ENSG00000116191	-0.4056	-1.3246	0.0019	0.0134	RALGPS2	Ral GEF with PH domain and Sl protein_cc	1	1.79E+08	1.79E+08	1	q25.2	
ENSG00000144791	-0.4062	-1.3252	0.0009	0.0071	LIMD1	LIM domains containing 1 [Sou protein_cc	3	45555394	45686338	1	p21.31	
ENSG00000159335	-0.4067	-1.3257	0.0058	0.0333	PTMS	parathymosin [Source:HGNC S protein_cc	12	6765516	6770952	1	p13.31	
ENSG00000139117	-0.4069	-1.3258	0.0009	0.0073	CPNE8	copine VIII [Source:HGNC Sym] protein_cc	12	38646822	38907430	-1	q12	
ENSG00000130193	-0.4071	-1.326	0.0009	0.0076	THEM6	thioesterase superfamily mem protein_cc	8	1.43E+08	1.43E+08	1	q24.3	
ENSG00000197016	-0.4082	-1.327	0.0033	0.0211	ZNF470	zinc finger protein 470 [Source protein_cc	19	56567511	56588911	1	q13.43	
ENSG00000198169	-0.4089	-1.3277	0.005	0.0295	ZNF251	zinc finger protein 251 [Source protein_cc	8	1.45E+08	1.45E+08	-1	q24.3	
ENSG00000108468	-0.4109	-1.3295	1.1713E-05	0.0002	CBX1	chromobox homolog 1 [Source protein_cc	17	48070052	48101521	-1	q21.32	
ENSG00000102221	-0.4121	-1.3306	0.0003	0.0031	JADE3	jade family PHD finger 3 [Sour protein_ccX		46912276	47061242		1	p11.3
ENSG00000136938	-0.4122	-1.3307	0.0003	0.0032	ANP32B	acidic (leucine-rich) nuclear ph protein_cc	9	97983361	98015943		1	q22.33
ENSG00000165804	-0.4125	-1.331	0.0077	0.0416	ZNF219	zinc finger protein 219 [Source protein_cc	14	21090046	21104722	-1	q11.2	
ENSG00000152782	-0.4136	-1.332	0.003	0.0194	PANK1	pantothenate kinase 1 [Source protein_cc	10	89579497	89645572	-1	q23.31	
ENSG00000064787	-0.4147	-1.333	0.0089	0.0466	BCAS1	breast carcinoma amplified seq protein_cc	20	53936777	54070594	-1	q13.2	
ENSG00000140455	-0.4158	-1.334	1.1521E-06	2.1138E-05	USP3	ubiquitin specific peptidase 3 [ protein_cc	15	63504511	63594640		1	q22.31
ENSG00000114796	-0.4169	-1.3351	4.0427E-05	0.0005	KLHL24	kelch-like family member 24 [S protein_cc	3	1.84E+08	1.84E+08		1	q27.1
ENSG00000101639	-0.4172	-1.3353	3.5341E-07	7.3235E-06	CEP192	centrosomal protein 192kDa [S protein_cc	18	12991362	13125052		1	p11.21
ENSG00000132669	-0.4177	-1.3358	7.0744E-05	0.0008	RIN2	Ras and Rab interactor 2 [Sour protein_cc	20	19886521	20002457		1	p11.23
ENSG00000178904	-0.419	-1.337	0.0086	0.0453	DPY19L3	dpy-19-like 3 (C. elegans) [Sou] protein_cc	19	32405543	32485895		1	q13.11
ENSG00000065057	-0.4197	-1.3377	0.0056	0.0322	NTHL1	nth endonuclease III-like 1 (E. c protein_cc	16	2039815	2047866	-1	p13.3	
ENSG00000117461	-0.4202	-1.3381	0.0009	0.0076	PIK3R3	phosphoinositide-3-kinase, reg protein_cc	1	46040140	46133036	-1	p34.1	
ENSG00000152601	-0.4221	-1.3398	3.4476E-05	0.0004	MBNL1	muscleblind-like splicing regul; protein_cc	3	1.52E+08	1.52E+08		1	q25.1
ENSG00000102804	-0.4224	-1.3402	0.0011	0.0089	TSC22D1	TSC22 domain family, member protein_cc	13	44432143	44577147	-1	q14.11	
ENSG00000073536	-0.4232	-1.3409	0.0073	0.04	NLE1	notchless homolog 1 (Drosoph protein_cc	17	35128753	35142315	-1	q12	
ENSG00000186767	-0.4239	-1.3415	0.001	0.0079	SPIN4	spindlin family, member 4 [Sou protein_ccX		63347228	63351344		-1	q11.1
ENSG00000159166	-0.4242	-1.3418	0.0009	0.0076	LAD1	ladinin 1 [Source:HGNC Symbo protein_cc	1	2.01E+08	2.01E+08	-1	q32.1	
ENSG00000162522	-0.4249	-1.3425	0.0051	0.03	KIAA1522	KIAA1522 [Source:HGNC Symb protein_cc	1	32741885	32774970		1	p35.1
ENSG00000080546	-0.4251	-1.3427	3.0568E-06	5.0489E-05	SESN1	sestrin 1 [Source:HGNC Symbo protein_cc	6	1.09E+08	1.09E+08	-1	q21	
ENSG00000227372	-0.4253	-1.3428	0.0028	0.0184	TP73-AS1	TP73 antisense RNA 1 [Source: antisense	1	3735601	3747336	-1	p36.32	
ENSG00000160299	-0.4254	-1.3429	0.0006	0.0054	PCNT	pericentrin [Source:HGNC Sym protein_cc	21	46324122	46445769		1	q22.3
ENSG00000114853	-0.4257	-1.3432	0.0032	0.0205	ZBTB47	zinc finger and BTB domain coi protein_cc	3	42653684	42665854		1	p22.1
ENSG00000110721	-0.4267	-1.3442	0.0005	0.0044	CHKA	choline kinase alpha [Source:H protein_cc	11	68052859	68121444	-1	q13.2	
ENSG00000112941	-0.4272	-1.3446	0.0012	0.0094	PAPD7	PAP associated domain contain protein_cc	5	6714605	6757048		1	p15.31
ENSG00000135503	-0.4308	-1.348	0.0004	0.0035	ACVR1B	activin A receptor, type IB [Sou protein_cc	12	51951667	51997078		1	q13.13
ENSG00000205336	-0.4308	-1.348	0.0069	0.0382	GPR56	G protein-coupled receptor 56 protein_cc	16	57610652	57665580		1	q21
ENSG00000112378	-0.4311	-1.3482	1.5309E-05	0.0002	PERP	PERP, TP53 apoptosis effector protein_cc	6	1.38E+08	1.38E+08	-1	q23.3	
ENSG00000135473	-0.4313	-1.3484	0.0022	0.0154	PAN2	PAN2 poly(A) specific ribonucl protein_cc	12	56316223	56334053	-1	q13.3	
ENSG00000175087	-0.4317	-1.3488	0.0013	0.0098	PDIK1L	PDLIM1 interacting kinase 1 lik protein_cc	1	26111165	26125543		1	p36.11

ENSG00000237441	-0.4317	-1.3489	1.6469E-06	2.9067E-05	RGL2	ral guanine nucleotide dissociation protein	6	33291654	33299324	-1	p21.32
ENSG00000260804	-0.4328	-1.3499	0.0097	0.0493	PKI55	DKFZp434H1419 [Source:Entre lincRNA	2	2.16E+08	2.16E+08	1	q35
ENSG00000176055	-0.4336	-1.3506	0.0021	0.0146	MBLAC2	metallo-beta-lactamase domain protein	5	90458203	90474768	-1	q14.3
ENSG00000153982	-0.4343	-1.3512	0.0093	0.048	GDPD1	glycerophosphodiester phosphatase	17	59220467	59275967	1	q22
ENSG00000111266	-0.4362	-1.353	2.7325E-06	4.5848E-05	DUSP16	dual specificity phosphatase 16 protein	12	12474210	12562383	-1	p13.2
ENSG00000116584	-0.4363	-1.3531	0.0001	0.0016	ARHGGEF2	Rho/Rac guanine nucleotide exchange	1	1.56E+08	1.56E+08	-1	q22
ENSG00000176834	-0.4364	-1.3532	0.0081	0.0431	VSIG10	V-set and immunoglobulin domain	12	1.18E+08	1.18E+08	-1	q24.23
ENSG00000107566	-0.4366	-1.3534	0.001	0.0077	ERLIN1	ER lipid raft associated 1 [Source:HGNC	10	1E+08	1E+08	-1	q24.31
ENSG00000142207	-0.4375	-1.3542	0.0004	0.0036	URB1	URB1 ribosome biogenesis 1 homolog	21	32311018	32393026	-1	q22.11
ENSG00000174442	-0.4377	-1.3544	0.0005	0.0045	ZWILCH	zwillch kinetochore protein [Source:HGNC	15	66504959	66550128	1	q22.31
ENSG00000111642	-0.4388	-1.3555	0.0007	0.006	CHD4	chromodomain helicase DNA binding	12	6570083	6607476	-1	p13.31
ENSG00000173801	-0.4398	-1.3564	0.0027	0.0181	JUP	junction plakoglobin [Source:HGNC	17	41754604	41786931	-1	q21.2
ENSG00000147862	-0.4408	-1.3573	0.0058	0.0333	NFIB	nuclear factor I/B [Source:HGNC	9	14081843	14398983	-1	q22.3
ENSG00000166783	-0.4409	-1.3575	0.0032	0.0205	KIAA0430	KIAA0430 [Source:HGNC Symb protein	16	15594386	15643166	-1	p13.11
ENSG00000178996	-0.4412	-1.3577	1.4656E-07	3.2837E-06	SNX18	sorting nexin 18 [Source:HGNC	5	54517759	54546585	1	q11.2
ENSG00000073910	-0.4419	-1.3584	0.0063	0.0355	FRY	furry homolog (Drosophila) [Source:HGNC	13	32031300	32299122	1	q13.1
ENSG00000124226	-0.4421	-1.3586	0.0037	0.0232	RNF114	ring finger protein 114 [Source:HGNC	20	49936336	49953892	1	q13.13
ENSG00000176842	-0.4435	-1.3599	0.0004	0.0034	IRX5	iroquois homeobox 5 [Source:HGNC	16	54930862	54934485	1	q12.2
ENSG00000280128	-0.4439	-1.3603	0.0053	0.0308	XXBAC-BPG283O16.9	TEC	6	30282349	30286054	-1	p22.1
ENSG00000117479	-0.4448	-1.3611	0.002	0.0143	SLC19A2	solute carrier family 19 (thiamine	1	1.69E+08	1.69E+08	-1	q24.2
ENSG00000108306	-0.4452	-1.3615	3.2141E-06	5.2858E-05	FBXL20	F-box and leucine-rich repeat	17	39252644	39402523	-1	q12
ENSG00000102226	-0.4457	-1.362	0.0034	0.0217	USP11	ubiquitin specific peptidase 11	17	47232690	47248328	1	p11.3
ENSG00000275023	-0.4464	-1.3626	0.0009	0.0076	MLLT6	myeloid/lymphoid or mixed-lineage	17	38705542	38729803	1	q12
ENSG00000140326	-0.4465	-1.3628	0.0034	0.0215	CDAN1	codanin 1 [Source:HGNC Symb	15	42723559	42737126	-1	q15.2
ENSG00000070882	-0.4472	-1.3634	0.0016	0.0118	OSBPL3	oxysterol binding protein-like 3	7	24796539	24981634	-1	p15.3
ENSG00000159388	-0.4494	-1.3655	0.0001	0.0013	BTG2	BTG family, member 2 [Source:HGNC	1	2.03E+08	2.03E+08	1	q32.1
ENSG00000135482	-0.4498	-1.3659	0.0089	0.0465	ZC3H10	zinc finger CCCH-type containing	12	56118159	56127514	1	q13.2
ENSG00000122779	-0.4513	-1.3673	3.3293E-05	0.0004	TRIM24	tripartite motif containing 24	7	1.38E+08	1.39E+08	1	q33
ENSG00000148660	-0.4519	-1.3678	4.6049E-06	7.3168E-05	CAMK2G	calcium/calmodulin-dependent	10	73812501	73874591	-1	q22.2
ENSG00000128309	-0.452	-1.3679	8.5121E-07	0.00001621	MPST	mercaptopyruvate sulfurtransferase	22	37019635	37029822	1	q12.3
ENSG00000170779	-0.4524	-1.3683	0.003	0.0194	CDCA4	cell division cycle associated 4	14	1.05E+08	1.05E+08	-1	q32.33
ENSG00000187109	-0.4525	-1.3684	2.1885E-05	0.0003	NAP1L1	nucleosome assembly protein 1	12	76036587	76085033	-1	q21.2
ENSG00000170846	-0.4528	-1.3687	0.0016	0.0118	AC093323.3	lincRNA	4	6673451	6676047	1	p16.1
ENSG00000076928	-0.4544	-1.3702	1.4241E-05	0.0002	ARHGGEF1	Rho guanine nucleotide exchange	19	41883161	41930150	1	q13.2
ENSG00000158321	-0.4553	-1.3711	0.0039	0.0241	AUTS2	autism susceptibility candidate 2	7	69598919	70793068	1	q11.22
ENSG00000147676	-0.4563	-1.372	0.0005	0.0045	MAL2	mal, T-cell differentiation protein	8	1.19E+08	1.19E+08	1	q24.12
ENSG00000113916	-0.4572	-1.3729	0.0063	0.0355	BCL6	B-cell CLL/lymphoma 6 [Source:HGNC	3	1.88E+08	1.88E+08	-1	q27.3
ENSG00000156011	-0.4576	-1.3733	2.1182E-08	5.4438E-07	PSD3	pleckstrin and Sec7 domain containing	8	18527301	19084730	-1	p22
ENSG00000198680	-0.4588	-1.3744	0.0007	0.0062	TUSC1	tumor suppressor candidate 1	9	25676389	25678440	-1	p21.2
ENSG00000118058	-0.4591	-1.3746	0.0003	0.0027	KMT2A	lysine (K)-specific methyltransferase	11	1.18E+08	1.19E+08	1	q23.3
ENSG00000144642	-0.4595	-1.3751	0.0055	0.0318	RBMS3	RNA binding motif, single strand	3	29280982	30010391	1	p24.1



ENSG00000179163	-0.46	-1.3756	0.0019	0.0132 FUCA1	fucoisidase, alpha-L- 1, tissue [s protein_cc	1 23845077 23868294	-1 p36.11
ENSG00000255310	-0.4621	-1.3776	0.0047	0.0281 AF131215.2	sense_intr	8 11107788 11109726	-1 p23.1
ENSG00000145545	-0.4626	-1.3781	0.0027	0.0178 SRD5A1	steroid-5-alpha-reductase, alpl protein_cc	5 6633343 6669562	1 p15.31
ENSG00000141258	-0.4629	-1.3783	0.0005	0.0049 SGSM2	small G protein signaling modu protein_cc	17 2337498 2381058	1 p13.3
ENSG00000151151	-0.4632	-1.3786	0.0013	0.0101 IPMK	inositol polyphosphate multiki protein_cc	10 58191517 58267934	-1 q21.1
ENSG00000101888	-0.4632	-1.3786	0.0018	0.013 NXT2	nuclear transport factor 2-like protein_ccX	1.1E+08 1.1E+08	1 q23
ENSG00000156170	-0.4634	-1.3788	0.0014	0.0103 NDUFAF6	NADH dehydrogenase (ubiquir protein_cc	8 94895767 95116455	1 q22.1
ENSG00000103037	-0.465	-1.3803	0.0013	0.0099 SETD6	SET domain containing 6 [Sour protein_cc	16 58515479 58521181	1 q21
ENSG00000188785	-0.4653	-1.3806	0.0008	0.0067 ZNF548	zinc finger protein 548 [Source protein_cc	19 57389850 57401418	1 q13.43
ENSG00000170145	-0.4654	-1.3807	0.0039	0.0241 SIK2	salt-inducible kinase 2 [Source protein_cc	11 1.12E+08 1.12E+08	1 q23.1
ENSG00000197142	-0.4655	-1.3808	0.005	0.0298 ACSL5	acyl-CoA synthetase long-chain protein_cc	10 1.12E+08 1.12E+08	1 q25.2
ENSG00000105866	-0.4665	-1.3818	0.0052	0.0305 SP4	Sp4 transcription factor [Sour protein_cc	7 21428034 21514822	1 p15.3
ENSG00000187554	-0.4668	-1.3821	0.0005	0.0047 TLR5	toll-like receptor 5 [Source:HG protein_cc	1 2.23E+08 2.23E+08	-1 q41
ENSG00000125885	-0.4671	-1.3823	0.0066	0.0367 MCM8	minichromosome maintenanc protein_cc	20 5950652 5995894	1 p12.3
ENSG00000187325	-0.4698	-1.3849	7.8366E-05	0.0009 TAF9B	TAF9B RNA polymerase II, TAT. protein_ccX	78129748 78139706	-1 q21.1
ENSG00000138443	-0.47	-1.3851	0.0027	0.0178 ABI2	abl-interactor 2 [Source:HGNC protein_cc	2 2.03E+08 2.03E+08	1 q33.2
ENSG00000131067	-0.471	-1.386	0.0001	0.0013 GGT7	gamma-glutamyltransferase 7 protein_cc	20 34844720 34872860	-1 q11.22
ENSG00000058804	-0.4715	-1.3866	1.5406E-05	0.0002 NDC1	NDC1 transmembrane nucleoprotein_cc	1 53765460 53838860	-1 p32.3
ENSG00000105289	-0.4726	-1.3876	0.0025	0.0168 TJP3	tight junction protein 3 [Source protein_cc	19 3708109 3750813	1 p13.3
ENSG00000000003	-0.4734	-1.3884	0.0005	0.0048 TSPAN6	tetraspanin 6 [Source:HGNC Sy protein_ccX	1.01E+08 1.01E+08	-1 q22.1
ENSG00000254837	-0.4741	-1.3891	0.0043	0.0264 AP001372.2	lincRNA	11 74493366 74498533	1 q13.4
ENSG00000106829	-0.4754	-1.3903	0.0004	0.0037 TLE4	transducin-like enhancer of spl protein_cc	9 79571773 79726882	1 q21.31
ENSG00000146648	-0.4758	-1.3906	0.0008	0.0064 EGFR	epidermal growth factor recep protein_cc	7 55019021 55256620	1 p11.2
ENSG00000144711	-0.4761	-1.391	0.0007	0.0059 IQSEC1	IQ motif and Sec7 domain 1 [S protein_cc	3 12897220 13073117	-1 p25.2
ENSG00000179051	-0.4767	-1.3916	0.0006	0.0052 RCC2	regulator of chromosome conc protein_cc	1 17406760 17439724	-1 p36.13
ENSG00000259623	-0.4777	-1.3925	0.0086	0.0451 RP11-156E6.1	sense_ove	17 41848518 41851447	-1 q21.2
ENSG00000152127	-0.4783	-1.3931	0.0048	0.0286 MGAT5	mannosyl (alpha-1,6-)-glycoprc protein_cc	2 1.34E+08 1.34E+08	1 q21.2
ENSG00000030419	-0.4786	-1.3934	1.3681E-06	2.4696E-05 IKZF2	IKAROS family zinc finger 2 (He protein_cc	2 2.13E+08 2.13E+08	-1 q34
ENSG00000186918	-0.4789	-1.3936	0.0092	0.0476 ZNF395	zinc finger protein 395 [Source protein_cc	8 28345585 28402701	-1 p21.1
ENSG00000114120	-0.4791	-1.3939	0.0001	0.0013 SLC25A36	solute carrier family 25 (pyrimi protein_cc	3 1.41E+08 1.41E+08	1 q23
ENSG00000138764	-0.4799	-1.3946	0.0012	0.0091 CCNG2	cyclin G2 [Source:HGNC Symbc protein_cc	4 77157151 77433388	1 q21.1
ENSG00000143322	-0.4814	-1.3961	0.0028	0.0186 ABL2	ABL proto-oncogene 2, non-re protein_cc	1 1.79E+08 1.79E+08	-1 q25.2
ENSG00000186350	-0.4819	-1.3966	0.0018	0.013 RXRA	retinoid X receptor, alpha [Sou protein_cc	9 1.34E+08 1.34E+08	1 q34.2
ENSG00000184939	-0.4821	-1.3968	4.3044E-06	6.8942E-05 ZFP90	ZFP90 zinc finger protein [Sour protein_cc	16 68530090 68576072	1 q22.1
ENSG00000112624	-0.4827	-1.3974	0.0012	0.0092 GLTSCR1L	GLTSCR1-like [Source:HGNC Sy protein_cc	6 42746958 42868560	1 p21.1
ENSG00000020256	-0.4831	-1.3978	5.2197E-05	0.0006 ZFP64	ZFP64 zinc finger protein [Sour protein_cc	20 52051663 52204308	-1 q13.2
ENSG00000134250	-0.4833	-1.3979	0.0041	0.0252 NOTCH2	notch 2 [Source:HGNC Symbol, protein_cc	1 1.2E+08 1.2E+08	-1 p12
ENSG00000165626	-0.4837	-1.3983	0.0021	0.0149 BEND7	BEN domain containing 7 [Sou protein_cc	10 13438484 13528974	-1 p13
ENSG00000099204	-0.4839	-1.3986	0.0018	0.0131 ABLIM1	actin binding LIM protein 1 [So protein_cc	10 1.14E+08 1.15E+08	-1 q25.3
ENSG00000107815	-0.4843	-1.3989	0.0007	0.0057 C10orf2	chromosome 10 open reading protein_cc	10 1.01E+08 1.01E+08	1 q24.31
ENSG00000142065	-0.4845	-1.3991	0.0001	0.0014 ZFP14	ZFP14 zinc finger protein [Sour protein_cc	19 36334453 36379199	-1 q13.12

ENSG00000178035	-0.4846	-1.3992	0.0052	0.0304 IMPDH2	IMP (inosine 5'-monophosphat protein_cc	3	49024325	49029408	-1	p21.31
ENSG00000149256	-0.4847	-1.3993	0.0041	0.025 TENM4	teneurin transmembrane prot: protein_cc	11	78652831	79440948	-1	q14.1
ENSG00000019582	-0.4859	-1.4005	0.008	0.0429 CD74	CD74 molecule, major histocor protein_cc	5	1.5E+08	1.5E+08	-1	q33.1
ENSG00000184083	-0.487	-1.4015	6.5991E-05	0.0008 FAM120C	family with sequence similarity protein_cc X		54068324	54183281	-1	p11.22
ENSG00000171914	-0.4888	-1.4033	0.0098	0.0497 TLN2	taln 2 [Source:HGNC Symbol;A protein_cc	15	62390526	62844631	1	q22.2
ENSG00000168496	-0.4893	-1.4038	0.0026	0.0175 FEN1	flap structure-specific endonuc protein_cc	11	61792637	61797244	1	q12.2
ENSG00000133030	-0.4904	-1.4048	2.7506E-05	0.0004 MPRIP	myosin phosphatase Rho inter protein_cc	17	17042545	17217679	1	p11.2
ENSG00000168234	-0.4906	-1.405	1.2766E-05	0.0002 TTC39C	tetratricopeptide repeat doma protein_cc	18	23992773	24135610	1	q11.2
ENSG00000153936	-0.4907	-1.4052	0.0004	0.0036 HS2ST1	heparan sulfate 2-O-sulfotrans protein_cc	1	86914648	87109998	1	p22.3
ENSG00000263956	-0.4922	-1.4066	6.4329E-05	0.0008 NBPF11	neuroblastoma breakpoint fan protein_cc	1	1.48E+08	1.48E+08	-1	q21.2
ENSG00000149054	-0.4932	-1.4075	0.0082	0.0437 ZNF215	zinc finger protein 215 [Source protein_cc	11	6926404	6984632	1	p15.4
ENSG00000185453	-0.4933	-1.4077	0.0012	0.0092 C19orf68	chromosome 19 open reading protein_cc	19	48170692	48197620	1	q13.33
ENSG00000136997	-0.4974	-1.4116	0.0028	0.0186 MYC	v-myc avian myelocytomatosis protein_cc	8	1.28E+08	1.28E+08	1	q24.21
ENSG00000137054	-0.4979	-1.4121	0.0023	0.0155 POLR1E	polymerase (RNA) l polypeptid protein_cc	9	37485935	37503697	1	p13.2
ENSG00000273136	-0.4983	-1.4125	0.0073	0.0398 CH17-3B23.1	Uncharacterized protein {ECO: protein_cc	1	1.21E+08	1.21E+08	1	p11.2
ENSG00000000460	-0.499	-1.4132	0.002	0.0141 C1orf112	chromosome 1 open reading fi protein_cc	1	1.7E+08	1.7E+08	1	q24.2
ENSG00000139263	-0.4991	-1.4133	1.4735E-05	0.0002 LRIG3	leucine-rich repeats and immu protein_cc	12	58872149	58920522	-1	q14.1
ENSG00000197362	-0.5009	-1.4151	0.009	0.0471 ZNF786	zinc finger protein 786 [Source protein_cc	7	1.49E+08	1.49E+08	-1	q36.1
ENSG00000259673	-0.5023	-1.4164	0.0023	0.0158 IQCH-AS1	IQCH antisense RNA 1 [Source: lincRNA	15	67403619	67521844	-1	q23
ENSG00000226752	-0.5025	-1.4167	0.0003	0.0026 PSMD5-AS1	PSMD5 antisense RNA 1 (head antisense	9	1.21E+08	1.21E+08	1	q33.2
ENSG00000011105	-0.5026	-1.4168	0.0007	0.0062 TSPAN9	tetraspanin 9 [Source:HGNC Sy protein_cc	12	3077355	3286564	1	p13.33
ENSG00000179979	-0.504	-1.4181	0.0067	0.0373 CRIPAK	cysteine-rich PAK1 inhibitor [S: protein_cc	4	1391552	1395989	1	p16.3
ENSG00000114315	-0.5044	-1.4185	8.1487E-07	1.5565E-05 HES1	hes family bHLH transcription l protein_cc	3	1.94E+08	1.94E+08	1	q29
ENSG00000197457	-0.5044	-1.4185	0.0026	0.0175 STMN3	stathmin-like 3 [Source:HGNC : protein_cc	20	63639705	63653427	-1	q13.33
ENSG00000157741	-0.5092	-1.4233	7.4535E-06	0.0001 UBN2	ubinuclen 2 [Source:HGNC Syr protein_cc	7	1.39E+08	1.39E+08	1	q34
ENSG00000267106	-0.5101	-1.4241	0.0023	0.016 ZNF561-AS1	ZNF561 antisense RNA 1 (head processed_	19	9621291	9645896	1	p13.2
ENSG00000181830	-0.5106	-1.4247	0.0038	0.0239 SLC35C1	solute carrier family 35 (GDP-fi protein_cc	11	45804072	45813015	1	p11.2
ENSG00000090238	-0.5107	-1.4248	1.4362E-05	0.0002 YPEL3	yippee-like 3 (Drosophila) [Sou protein_cc	16	30092314	30096915	-1	p11.2
ENSG00000158352	-0.5107	-1.4248	2.7133E-05	0.0004 SHROOM4	shroom family member 4 [Sou protein_cc X		50591647	50814302	-1	p11.22
ENSG00000110400	-0.5108	-1.4248	0.0094	0.0485 PVRL1	poliovirus receptor-related 1 (l protein_cc	11	1.2E+08	1.2E+08	-1	q23.3
ENSG00000108773	-0.511	-1.425	5.5094E-05	0.0007 KAT2A	K(lysine) acetyltransferase 2A l protein_cc	17	42113108	42121358	-1	q21.2
ENSG00000189362	-0.5113	-1.4253	0.0006	0.0051 TMEM194B	transmembrane protein 194B l protein_cc	2	1.91E+08	1.91E+08	-1	q32.2
ENSG00000152558	-0.5122	-1.4262	2.1421E-07	4.6568E-06 TMEM123	transmembrane protein 123 [S protein_cc	11	1.02E+08	1.02E+08	-1	q22.2
ENSG00000231365	-0.5128	-1.4269	0.0005	0.0048 RP11-418J17.1	antisense	1	1.19E+08	1.19E+08	1	p12
ENSG00000234420	-0.5137	-1.4277	0.0037	0.0234 ZNF37BP	zinc finger protein 37B, pseudc transcriber	10	42513510	42552822	-1	q11.21
ENSG00000151292	-0.5143	-1.4283	0.0005	0.0045 CSNK1G3	casein kinase 1, gamma 3 [Sou protein_cc	5	1.24E+08	1.24E+08	1	q23.2
ENSG00000134815	-0.515	-1.429	0.0097	0.0494 DHX34	DEAH (Asp-Glu-Ala-His) box po protein_cc	19	47349281	47382704	1	q13.32
ENSG00000203668	-0.5155	-1.4295	0.0098	0.0498 CHML	choroideremia-like (Rab escort protein_cc	1	2.42E+08	2.42E+08	-1	q43
ENSG00000151491	-0.5159	-1.4299	3.2728E-05	0.0004 EPS8	epidermal growth factor recep protein_cc	12	15620158	15882329	-1	p12.3
ENSG00000111752	-0.5161	-1.43	0.0082	0.0436 PHC1	polyhomeotic homolog 1 (Dros protein_cc	12	8913896	8941467	1	p13.31
ENSG00000183779	-0.5161	-1.4301	1.9502E-05	0.0003 ZNF703	zinc finger protein 703 [Source protein_cc	8	37695751	37700021	1	p11.23

ENSG00000115919	-0.5175	-1.4314	0.0029	0.0189	KYNU	kynureninase [Source:HGNC S <sub>y</sub> protein_cc	2	1.43E+08	1.43E+08	1	q22.2
ENSG00000108840	-0.519	-1.4329	0.0003	0.0028	HDAC5	histone deacetylase 5 [Source: protein_cc	17	44076746	44123702	-1	q21.31
ENSG00000164733	-0.5204	-1.4343	6.0385E-07	1.1929E-05	CTSB	cathepsin B [Source:HGNC S <sub>yr</sub> protein_cc	8	11842524	11869448	-1	p23.1
ENSG00000173848	-0.5207	-1.4346	0.0094	0.0484	NET1	neuroepithelial cell transformi protein_cc	10	5412551	5458463	1	p15.1
ENSG00000119729	-0.5209	-1.4349	0.0025	0.0171	RHOQ	ras homolog family member Q protein_cc	2	46541806	46583121	1	p21
ENSG00000163393	-0.5211	-1.435	0.0032	0.0206	SLC22A15	solute carrier family 22, memb protein_cc	1	1.16E+08	1.16E+08	1	p13.1
ENSG00000258890	-0.5211	-1.435	0.0047	0.0281	CEP95	centrosomal protein 95kDa [Sc protein_cc	17	64506588	64542461	1	q23.3
ENSG00000177508	-0.5212	-1.4351	0.0003	0.0029	IRX3	iroquois homeobox 3 [Source:l protein_cc	16	54283304	54286763	-1	q12.2
ENSG00000137462	-0.5213	-1.4352	0.0064	0.0361	TLR2	toll-like receptor 2 [Source:HG protein_cc	4	1.54E+08	1.54E+08	1	q31.3
ENSG00000156030	-0.5216	-1.4355	1.5644E-05	0.0002	ELMSAN1	ELM2 and Myb/SANT-like dom protein_cc	14	73715122	73790285	-1	q24.3
ENSG00000090776	-0.5224	-1.4364	3.3734E-05	0.0004	ELFN1	ephrin-B1 [Source:HGNC Symb protein_ccX		68828997	68842147	1	q13.1
ENSG00000132326	-0.523	-1.437	0.0004	0.0036	PER2	period circadian clock 2 [Sour protein_cc	2	2.38E+08	2.38E+08	-1	q37.3
ENSG00000196369	-0.5233	-1.4373	0.0004	0.004	SRGAP2B	SLIT-ROBO Rho GTPase activat protein_cc	1	1.45E+08	1.45E+08	-1	q21.1
ENSG00000170425	-0.5238	-1.4378	0.0003	0.0029	ADORA2B	adenosine A2b receptor [Sour protein_cc	17	15944917	15975746	1	p12
ENSG00000108091	-0.5242	-1.4382	1.597E-06	2.8318E-05	CCDC6	coiled-coil domain containing ( protein_cc	10	59788763	59906656	-1	q21.2
ENSG00000241399	-0.5248	-1.4387	0.0077	0.0415	CD302	CD302 molecule [Source:HGNC protein_cc	2	1.6E+08	1.6E+08	-1	q24.2
ENSG00000143320	-0.5256	-1.4395	0.0018	0.0126	CRABP2	cellular retinoic acid binding pr protein_cc	1	1.57E+08	1.57E+08	-1	q23.1
ENSG00000116127	-0.5261	-1.44	0.0042	0.0258	ALMS1	Alstrom syndrome 1 [Source:H protein_cc	2	73385758	73610793	1	p13.1
ENSG00000251247	-0.5268	-1.4407	0.0054	0.0313	ZNF345	zinc finger protein 345 [Source protein_cc	19	36850361	36913029	1	q13.12
ENSG00000184208	-0.5273	-1.4412	7.8669E-07	1.5087E-05	C22orf46	chromosome 22 open reading protein_cc	22	41688939	41698136	1	q13.2
ENSG00000147041	-0.5283	-1.4422	0.0094	0.0484	SYTL5	synaptotagmin-like 5 [Source:l protein_ccX		38006582	38128819	1	p11.4
ENSG00000082805	-0.5284	-1.4423	0.0001	0.0013	ERC1	ELKS/RAB6-interacting/CAST f <sub>2</sub> protein_cc	12	990509	1495933	1	p13.33
ENSG00000121316	-0.5284	-1.4424	0.0053	0.0308	PLBD1	phospholipase B domain conta protein_cc	12	14503661	14568349	-1	p13.1
ENSG00000253598	-0.5286	-1.4426	0.0057	0.0331	SLC10A5	solute carrier family 10, memb protein_cc	8	81693607	81696174	-1	q21.13
ENSG00000213654	-0.5296	-1.4435	0.0006	0.0051	GPSM3	G-protein signaling modulator protein_cc	6	32190766	32195523	-1	p21.32
ENSG00000105426	-0.5296	-1.4435	0.0065	0.0364	PTPRS	protein tyrosine phosphatase, protein_cc	19	5158495	5340803	-1	p13.3
ENSG00000100596	-0.5314	-1.4453	1.0753E-11	4.5608E-10	SPTLC2	serine palmitoyltransferase, lo protein_cc	14	77505997	77616773	-1	q24.3
ENSG00000186153	-0.5314	-1.4454	0.0014	0.0107	WVVOX	WW domain containing oxidor protein_cc	16	78099413	79212667	1	q23.1
ENSG00000104765	-0.5333	-1.4472	1.456E-12	6.8129E-11	BNIP3L	BCL2/adenovirus E1B 19kDa in protein_cc	8	26382898	26505636	1	p21.2
ENSG00000273015	-0.5342	-1.4481	0.0003	0.003	LINC00938	long intergenic non-protein co lincRNA	12	45718046	45727775	-1	q12
ENSG00000146278	-0.5344	-1.4483	3.8607E-06	6.2572E-05	PNRC1	proline-rich nuclear receptor c protein_cc	6	89080751	89085160	1	q15
ENSG00000077348	-0.5344	-1.4483	0.001	0.008	EXOSC5	exosome component 5 [Source protein_cc	19	41386374	41397479	-1	q13.2
ENSG00000124429	-0.5361	-1.45	0.006	0.0339	POF1B	premature ovarian failure, 1B   protein_ccX		85277396	85379743	-1	q21.1
ENSG00000084774	-0.5363	-1.4502	0.0005	0.0046	CAD	carbamoyl-phosphate synthet; protein_cc	2	27217390	27243943	1	p23.3
ENSG00000175155	-0.5365	-1.4504	3.7581E-05	0.0005	YPEL2	yippee-like 2 (Drosophila) [Sou protein_cc	17	59331689	59401729	1	q22
ENSG00000124243	-0.5365	-1.4505	4.0908E-06	6.5757E-05	BCAS4	breast carcinoma amplified sec protein_cc	20	50794894	50882676	1	q13.13
ENSG00000134780	-0.5367	-1.4506	1.2052E-05	0.0002	DAGLA	diacylglycerol lipase, alpha [So protein_cc	11	61680433	61747001	1	q12.2
ENSG00000279348	-0.5371	-1.4511	0.0003	0.0031	RP11-566E18.1	TEC	2	2.16E+08	2.16E+08	1	q35
ENSG00000171206	-0.5379	-1.4519	6.848E-07	1.3321E-05	TRIM8	tripartite motif containing 8 [S protein_cc	10	1.03E+08	1.03E+08	1	q24.32
ENSG00000171448	-0.538	-1.4519	0.0002	0.002	ZBTB26	zinc finger and BTB domain cor protein_cc	9	1.23E+08	1.23E+08	-1	q33.2
ENSG00000133111	-0.54	-1.454	0.0079	0.0425	RFXAP	regulatory factor X-associated protein_cc	13	36819224	36829104	1	q13.3

ENSG00000124766	-0.5403	-1.4543	9.9887E-05	0.0011 SOX4	SRY (sex determining region Y) protein_cc	6	21592769	21598619	1	p22.3
ENSG00000136870	-0.5434	-1.4574	0.0066	0.037 ZNF189	zinc finger protein 189 [Source protein_cc	9	1.01E+08	1.01E+08	1	q31.1
ENSG00000100599	-0.5437	-1.4577	0.0001	0.0014 RIN3	Ras and Rab interactor 3 [Sour protein_cc	14	92513774	92688994	1	q32.12
ENSG00000140993	-0.5438	-1.4578	0.0014	0.0106 TIGD7	tigger transposable element de protein_cc	16	3298832	3305729	-1	p13.3
ENSG00000185561	-0.5438	-1.4578	0.0068	0.0376 TLCD2	TLC domain containing 2 [Sour protein_cc	17	1702790	1710438	-1	p13.3
ENSG00000120318	-0.544	-1.458	0.0014	0.0108 ARAP3	ArfGAP with RhoGAP domain, protein_cc	5	1.42E+08	1.42E+08	-1	q31.3
ENSG00000167528	-0.5442	-1.4582	5.1197E-09	1.4618E-07 ZNF641	zinc finger protein 641 [Source protein_cc	12	48337180	48351414	-1	q13.11
ENSG00000278834	-0.5471	-1.4611	0.0044	0.0265 RP11-458J1.1	antisense	17	40648300	40649718	1	q21.2
ENSG00000146373	-0.5472	-1.4612	0.001	0.0081 RNF217	ring finger protein 217 [Source protein_cc	6	1.25E+08	1.25E+08	1	q22.31
ENSG00000177406	-0.5473	-1.4613	0.0025	0.0167 RP11-218M22.1	antisense	12	630891	663706	1	p13.33
ENSG00000174469	-0.5475	-1.4615	0.0063	0.0357 CNTNAP2	contactin associated protein-ii protein_cc	7	1.46E+08	1.48E+08	1	q35
ENSG00000155324	-0.5476	-1.4616	9.4296E-06	0.0001 GRAMD3	GRAM domain containing 3 [Sc protein_cc	5	1.26E+08	1.26E+08	1	q23.2
ENSG00000107262	-0.5481	-1.4622	0.0028	0.0183 BAG1	BCL2-associated athanogene [ protein_cc	9	33247820	33264763	-1	p13.3
ENSG00000196814	-0.5484	-1.4625	0.0084	0.0446 MVB12B	multivesicular body subunit 12 protein_cc	9	1.26E+08	1.27E+08	1	q33.3
ENSG00000171604	-0.5486	-1.4627	1.049E-08	2.8579E-07 CXXC5	CXXC finger protein 5 [Source: protein_cc	5	1.4E+08	1.4E+08	1	q31.2
ENSG00000101040	-0.5495	-1.4636	0.0002	0.0022 ZMYND8	zinc finger, MYND-type contain protein_cc	20	47209214	47356889	-1	q13.12
ENSG00000070814	-0.5501	-1.4642	0.0002	0.0016 TCOF1	Treacher Collins-Franceschetti protein_cc	5	1.5E+08	1.5E+08	1	q32
ENSG00000196705	-0.5503	-1.4644	4.5576E-06	0.00007251 ZNF431	zinc finger protein 431 [Source protein_cc	19	21142024	21196053	1	p12
ENSG00000057704	-0.5511	-1.4652	1.8069E-08	4.7137E-07 TMCC3	transmembrane and coiled-coil protein_cc	12	94567124	94650562	-1	q22
ENSG00000243716	-0.5515	-1.4656	0.0068	0.0379 NPIP5	nuclear pore complex interacti protein_cc	16	22479121	22536521	1	p12.2
ENSG00000129353	-0.5519	-1.4661	0.0015	0.0111 SLC44A2	solute carrier family 44 (cholin protein_cc	19	10602457	10644559	1	p13.2
ENSG00000168264	-0.5534	-1.4676	2.1871E-07	4.7439E-06 IRF2BP2	interferon regulatory factor 2 l protein_cc	1	2.35E+08	2.35E+08	-1	q42.3
ENSG00000164938	-0.5535	-1.4676	4.9853E-06	7.8527E-05 TP53INP1	tumor protein p53 inducible n protein_cc	8	94925972	94949411	-1	q22.1
ENSG00000263528	-0.5549	-1.4691	0.0082	0.0437 IKBKE	inhibitor of kappa light polype protein_cc	1	2.06E+08	2.06E+08	1	q32.1
ENSG00000079819	-0.5556	-1.4697	0.0014	0.0107 EPB41L2	erythrocyte membrane proteir protein_cc	6	1.31E+08	1.31E+08	-1	q23.2
ENSG00000119950	-0.5557	-1.4699	0.0009	0.007 MXI1	MAX interactor 1, dimerizatio protein_cc	10	1.1E+08	1.1E+08	1	q25.2
ENSG00000112365	-0.5559	-1.4701	1.0515E-05	0.0002 ZBTB24	zinc finger and BTB domain coi protein_cc	6	1.09E+08	1.09E+08	-1	q21
ENSG00000109323	-0.5562	-1.4704	0.0002	0.0023 MANBA	mannosidase, beta A, lysosom protein_cc	4	1.03E+08	1.03E+08	-1	q24
ENSG00000148019	-0.5568	-1.471	0.0083	0.0439 CEP78	centrosomal protein 78kDa [Sc protein_cc	9	78236062	78279690	1	q21.2
ENSG00000164237	-0.557	-1.4712	0.0011	0.0084 CMBL	carboxymethylenbutenolidas protein_cc	5	10275875	10308026	-1	p15.2
ENSG00000162636	-0.5574	-1.4716	0.0026	0.0175 FAM102B	family with sequence similarity protein_cc	1	1.09E+08	1.09E+08	1	p13.3
ENSG00000197956	-0.5577	-1.4719	0.0015	0.011 S100A6	S100 calcium binding protein A protein_cc	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000167333	-0.5596	-1.4738	0.0003	0.0032 TRIM68	tripartite motif containing 68 [ protein_cc	11	4598672	4608259	-1	p15.4
ENSG00000076770	-0.5597	-1.474	0.0052	0.0306 MBNL3	muscleblind-like splicing regul protein_ccX		1.32E+08	1.32E+08	-1	q26.2
ENSG00000147010	-0.5608	-1.4751	1.7546E-05	0.0002 SH3KBP1	SH3-domain kinase binding prc protein_ccX		19533975	19887601	-1	p22.12
ENSG00000133739	-0.5609	-1.4752	0.0007	0.006 LRRC1	leucine rich repeat and coiled- protein_cc	8	85107147	85146076	1	q21.2
ENSG00000196935	-0.5611	-1.4754	0.0005	0.0047 SRGAP1	SLIT-ROBO Rho GTPase activat protein_cc	12	63844293	64162221	1	q14.2
ENSG00000089775	-0.5629	-1.4773	4.8952E-05	0.0006 ZBTB25	zinc finger and BTB domain coi protein_cc	14	64449106	64505213	-1	q23.3
ENSG00000163545	-0.5635	-1.4779	0.0004	0.0037 NUAK2	NUAK family, SNF1-like kinase, protein_cc	1	2.05E+08	2.05E+08	-1	q32.1
ENSG00000196411	-0.5655	-1.4799	0.0001	0.0013 EPHB4	EPH receptor B4 [Source:HGN protein_cc	7	1.01E+08	1.01E+08	-1	q22.1
ENSG00000187098	-0.5657	-1.4801	6.8669E-05	0.0008 MITF	microphthalmia-associated tra protein_cc	3	69739435	69968337	1	p13

ENSG00000189046	-0.5671	-1.4815	0.0023	0.0157	ALKBH2	alkB, alkylation repair homolog protein_cc	12	1.09E+08	1.09E+08	-1	q24.11
ENSG00000164171	-0.5687	-1.4832	0.0001	0.0014	ITGA2	integrin, alpha 2 (CD49B, alpha protein_cc	5	52989326	53094779	1	q11.2
ENSG00000196372	-0.5702	-1.4847	2.828E-06	4.7118E-05	ASB13	ankyrin repeat and SOCS box c protein_cc	10	5638867	5666595	-1	p15.1
ENSG00000184428	-0.5703	-1.4848	0.0002	0.0018	TOP1MT	topoisomerase (DNA) I, mitoch protein_cc	8	1.43E+08	1.43E+08	-1	q24.3
ENSG00000148841	-0.5711	-1.4856	0.0091	0.0472	ITPRIP	inositol 1,4,5-trisphosphate re protein_cc	10	1.04E+08	1.04E+08	-1	q25.1
ENSG00000120327	-0.5712	-1.4858	0.0079	0.0425	PCDHB14	protocadherin beta 14 [Source protein_cc	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000178409	-0.5736	-1.4882	0.0033	0.0211	BEND3	BEN domain containing 3 [Sou protein_cc	6	1.07E+08	1.07E+08	-1	q21
ENSG00000163406	-0.5747	-1.4894	0.0002	0.0016	SLC15A2	solute carrier family 15 (oligop protein_cc	3	1.22E+08	1.22E+08	1	q13.33
ENSG00000119698	-0.5747	-1.4894	0.0056	0.0323	PPP4R4	protein phosphatase 4, regulat protein_cc	14	94146128	94279735	1	q32.12
ENSG00000088836	-0.5761	-1.4908	0.0085	0.0449	SLC4A11	solute carrier family 4, sodium protein_cc	20	3227417	3239190	-1	p13
ENSG00000109089	-0.5768	-1.4915	0.0084	0.0445	CDR2L	cerebellar degeneration-relate protein_cc	17	74987632	75005800	1	q25.1
ENSG00000099860	-0.5769	-1.4916	8.0947E-07	1.5493E-05	GADD45B	growth arrest and DNA-damag protein_cc	19	2476122	2478259	1	p13.3
ENSG00000173166	-0.5771	-1.4919	3.4176E-07	7.121E-06	RAPH1	Ras association (RalGDS/AF-6) protein_cc	2	2.03E+08	2.04E+08	-1	q33.2
ENSG00000133808	-0.5791	-1.4939	0.005	0.0297	MICALCL	MICAL C-terminal like [Source: protein_cc	11	12276080	12359144	1	p15.3
ENSG00000152409	-0.5796	-1.4944	1.1732E-05	0.0002	JMY	junction mediating and regulat protein_cc	5	79236189	79327215	1	q14.1
ENSG00000145365	-0.5823	-1.4973	4.6819E-06	7.4117E-05	TIFA	TRAF-interacting protein with I protein_cc	4	1.12E+08	1.12E+08	-1	q25
ENSG00000156966	-0.5827	-1.4976	6.6692E-06	0.0001	B3GNT7	UDP-GlcNAc:betaGal beta-1,3- protein_cc	2	2.31E+08	2.31E+08	1	q37.1
ENSG00000267100	-0.5827	-1.4977	0.0018	0.0127	ILF3-AS1	ILF3 antisense RNA 1 (head to lincRNA	19	10651862	10653844	-1	p13.2
ENSG00000198246	-0.583	-1.498	0.0059	0.0339	SLC29A3	solute carrier family 29 (equilit protein_cc	10	71319258	71363385	1	q22.1
ENSG00000167536	-0.5836	-1.4986	0.0035	0.0221	DHRS13	dehydrogenase/reductase (SD) protein_cc	17	28897781	28903071	-1	q11.2
ENSG00000249115	-0.5843	-1.4994	0.0016	0.0116	HAUS5	HAUS augmin-like complex, su protein_cc	19	35612744	35625349	1	q13.12
ENSG00000054598	-0.5846	-1.4996	1.8219E-05	0.0002	FOXC1	forkhead box C1 [Source:HGN( protein_cc	6	1609972	1613897	1	p25.3
ENSG00000072954	-0.5863	-1.5014	9.1702E-06	0.0001	TMEM38A	transmembrane protein 38A [s protein_cc	19	16661127	16690029	1	p13.11
ENSG00000101213	-0.5866	-1.5017	0.0052	0.0305	PTK6	protein tyrosine kinase 6 [Sour protein_cc	20	63528001	63537370	-1	q13.33
ENSG00000143479	-0.5874	-1.5026	0.0087	0.0456	DYRK3	dual-specificity tyrosine-(Y)-ph protein_cc	1	2.07E+08	2.07E+08	1	q32.1
ENSG00000227036	-0.5875	-1.5027	2.7478E-05	0.0004	LINC00511	long intergenic non-protein co lincRNA	17	72323123	72640472	-1	q24.3
ENSG00000260336	-0.59	-1.5053	0.0005	0.0045	RP11-395B7.7	sense_ove	7	1.01E+08	1.01E+08	1	q22.1
ENSG00000187187	-0.5913	-1.5066	0.0026	0.0173	ZNF546	zinc finger protein 546 [Source protein_cc	19	39984134	40017607	1	q13.2
ENSG00000178038	-0.5913	-1.5066	0.0048	0.0286	ALS2CL	ALS2 C-terminal like [Source:H protein_cc	3	46668997	46693704	-1	p21.31
ENSG00000162783	-0.5929	-1.5083	2.9878E-05	0.0004	IER5	immediate early response 5 [S protein_cc	1	1.81E+08	1.81E+08	1	q25.3
ENSG00000143190	-0.5932	-1.5086	1.2238E-05	0.0002	POU2F1	POU class 2 homeobox 1 [Sour protein_cc	1	1.67E+08	1.67E+08	1	q24.2
ENSG00000274349	-0.5941	-1.5095	0.0009	0.0075	ZNF658	zinc finger protein 658 [Source protein_cc	9	66856426	66932141	1	q21.11
ENSG00000186260	-0.5943	-1.5098	4.6682E-05	0.0006	MKL2	MKL/myocardin-like 2 [Source: protein_cc	16	14071321	14266773	1	p13.12
ENSG00000076351	-0.5946	-1.51	0.0001	0.0012	SLC46A1	solute carrier family 46 (folate protein_cc	17	28394756	28407197	-1	q11.2
ENSG00000079215	-0.5945	-1.51	0.0031	0.0201	SLC1A3	solute carrier family 1 (glial hig protein_cc	5	36606355	36688334	1	p13.2
ENSG00000177337	-0.5953	-1.5107	0.0047	0.0281	DLGAP1-AS1	DLGAP1 antisense RNA 1 [Sour antisense	18	3593732	3598352	1	p11.31
ENSG00000173898	-0.5956	-1.5111	0.0022	0.0154	SPTBN2	spectrin, beta, non-erythrocyti protein_cc	11	66685248	66729226	-1	q13.2
ENSG00000177842	-0.597	-1.5125	0.0068	0.0379	ZNF620	zinc finger protein 620 [Source protein_cc	3	40505992	40518736	1	p22.1
ENSG00000269973	-0.5979	-1.5135	0.0094	0.0484	RP11-95D17.1	lincRNA	2	9936360	9939590	1	p25.1
ENSG00000065413	-0.5984	-1.514	0.0043	0.0263	ANKRD44	ankyrin repeat domain 44 [Sou protein_cc	2	1.97E+08	1.97E+08	-1	q33.1
ENSG00000128311	-0.5987	-1.5144	7.0534E-09	1.9754E-07	TST	thiosulfate sulfurtransferase (r protein_cc	22	37010859	37020183	-1	q12.3



ENSG00000109794	-0.6017	-1.5175	0.0009	0.0072	FAM149A	family with sequence similarity, protein_cc	4	1.86E+08	1.86E+08	1	q35.1
ENSG00000100994	-0.6033	-1.5192	1.8768E-06	3.2701E-05	PYGB	phosphorylase, glycogen; brair protein_cc	20	25248069	25298014	1	p11.21
ENSG00000069493	-0.61	-1.5263	0.003	0.0195	CLEC2D	C-type lectin domain family 2, protein_cc	12	9664969	9699555	1	p13.31
ENSG00000119900	-0.6107	-1.527	9.8033E-07	1.8412E-05	OGFRL1	opioid growth factor receptor- protein_cc	6	71288803	71308950	1	q13
ENSG00000269343	-0.6109	-1.5272	7.0363E-05	0.0008	ZNF587B	zinc finger protein 587B [Source: protein_cc	19	57819741	57846238	1	q13.43
ENSG00000165816	-0.6138	-1.5303	0.0004	0.0036	VWA2	von Willebrand factor A domain protein_cc	10	1.14E+08	1.14E+08	1	q25.3
ENSG00000164543	-0.6144	-1.5309	0.0023	0.0158	STK17A	serine/threonine kinase 17a [Source: protein_cc	7	43582758	43626786	1	p13
ENSG00000101773	-0.6149	-1.5315	0.0048	0.0286	RBBP8	retinoblastoma binding protein protein_cc	18	22798261	23026488	1	q11.2
ENSG00000223745	-0.6155	-1.5321	0.0014	0.0108	RP4-717I23.3	processed_	1	93262186	93346025	-1	p22.1
ENSG00000134107	-0.6163	-1.5329	1.8573E-06	0.0003245	BHLHE40	basic helix-loop-helix family, member protein_cc	3	4979116	4985323	1	p26.1
ENSG00000183741	-0.6175	-1.5342	0.0001	0.0013	CBX6	chromobox homolog 6 [Source: protein_cc	22	38861450	38872314	-1	q13.1
ENSG00000138835	-0.6181	-1.5349	7.7675E-06	0.0001	RGS3	regulator of G-protein signaling, protein_cc	9	1.13E+08	1.14E+08	1	q32
ENSG00000276600	-0.6184	-1.5352	3.4382E-05	0.0004	RAB7B	RAB7B, member RAS oncogene family protein_cc	1	2.06E+08	2.06E+08	-1	q32.1
ENSG00000173926	-0.6184	-1.5352	0.0072	0.0397	MARCH3	membrane-associated ring finger protein_cc	5	1.27E+08	1.27E+08	-1	q23.2
ENSG00000091592	-0.6233	-1.5404	0.0006	0.005	NLRP1	NLR family, pyrin domain containing protein_cc	17	5499427	5619424	-1	p13.2
ENSG00000138439	-0.6239	-1.541	0.0011	0.0084	FAM117B	family with sequence similarity, protein_cc	2	2.03E+08	2.03E+08	1	q33.2
ENSG00000072133	-0.6258	-1.5431	0.0005	0.0042	RPS6KA6	ribosomal protein S6 kinase, 90 kilodalton protein_cc	84058346	84187925	-1	q21.1	
ENSG00000105518	-0.626	-1.5433	0.0002	0.0018	TMEM205	transmembrane protein 205 [Source: protein_cc	19	11342776	11346518	-1	p13.2
ENSG00000101751	-0.6263	-1.5436	0.0009	0.007	POLI	polymerase (DNA directed) iota protein_cc	18	54269404	54321266	1	q21.2
ENSG00000143458	-0.6266	-1.544	0.0002	0.0023	GABPB2	GA binding protein transcriptic protein_cc	1	1.51E+08	1.51E+08	1	q21.3
ENSG00000232229	-0.6272	-1.5446	3.0921E-05	0.0004	LINC00865	long intergenic non-protein coding lincRNA	10	89829510	89840861	1	q23.31
ENSG00000129667	-0.6275	-1.5449	0.0024	0.0164	RHBDF2	rhomboid 5 homolog 2 (Drosophila) protein_cc	17	76470891	76501790	-1	q25.1
ENSG00000155189	-0.6277	-1.5451	0.0001	0.0014	AGPAT5	1-acylglycerol-3-phosphate O-acyltransferase protein_cc	8	6708357	6759666	1	p23.1
ENSG00000127586	-0.6282	-1.5456	0.0062	0.0351	CTHF18	CTF18, chromosome transmission fidelity protein_cc	16	788622	800737	1	p13.3
ENSG00000109062	-0.6296	-1.5472	3.8147E-07	7.8708E-06	SLC9A3R1	solute carrier family 9, subfamily 3 protein_cc	17	74748652	74769353	1	q25.1
ENSG00000075240	-0.6301	-1.5476	3.7192E-05	0.0005	GRAMD4	GRAM domain containing 4 [Source: protein_cc	22	46576012	46679790	1	q13.31
ENSG00000154380	-0.6303	-1.5479	5.3675E-05	0.0006	ENAH	enabled homolog (Drosophila) protein_cc	1	2.25E+08	2.26E+08	-1	q42.12
ENSG00000167202	-0.6309	-1.5485	3.5141E-05	0.0004	TBC1D2B	TBC1 domain family, member 2 protein_cc	15	77984036	78077724	-1	q25.1
ENSG00000137103	-0.6319	-1.5496	2.7694E-06	4.6264E-05	TMEM8B	transmembrane protein 8B [Source: protein_cc	9	35814451	35854847	1	p13.3
ENSG00000105486	-0.6336	-1.5514	0.001	0.0081	LIG1	ligase I, DNA, ATP-dependent [Source: protein_cc	19	48115445	48170603	-1	q13.33
ENSG00000105559	-0.6364	-1.5544	0.0062	0.0351	PLEKHA4	pleckstrin homology domain containing protein_cc	19	48837097	48868632	-1	q13.33
ENSG00000173818	-0.6365	-1.5545	3.8976E-05	0.0005	ENDOV	endonuclease V [Source: HGNC] protein_cc	17	80415165	80438086	1	q25.3
ENSG00000153294	-0.6386	-1.5568	0.0012	0.0096	GPR115	G protein-coupled receptor 11 protein_cc	6	47685864	47722021	1	p12.3
ENSG00000183018	-0.6391	-1.5574	0.0023	0.016	SPNS2	spinster homolog 2 (Drosophila) protein_cc	17	4498838	4539035	1	p13.2
ENSG00000261659	-0.6396	-1.5579	0.0083	0.0441	LA16c-313D11.12	processed_	16	689001	692554	1	p13.3
ENSG00000147689	-0.64	-1.5583	0.0002	0.002	FAM83A	family with sequence similarity, protein_cc	8	1.23E+08	1.23E+08	1	q24.13
ENSG00000197818	-0.6407	-1.5591	0.0004	0.004	SLC9A8	solute carrier family 9, subfamily 8 protein_cc	20	49812713	49892242	1	q13.13
ENSG00000180626	-0.6411	-1.5595	3.7586E-05	0.0005	ZNF594	zinc finger protein 594 [Source: protein_cc	17	5179536	5191883	-1	p13.2
ENSG00000120129	-0.6415	-1.5599	0.0028	0.0185	DUSP1	dual specificity phosphatase 1 protein_cc	5	1.73E+08	1.73E+08	-1	q35.1
ENSG00000006555	-0.6429	-1.5614	2.9336E-05	0.0004	TTC22	tetratricopeptide repeat domain protein_cc	1	54779712	54801267	-1	p32.3
ENSG00000168646	-0.6429	-1.5615	0.0031	0.0201	AXIN2	axin 2 [Source: HGNC Symbol; A] protein_cc	17	65528563	65561647	-1	q24.1

ENSG00000104093	-0.6432	-1.5617	2.3758E-05	0.0003 DMXL2	Dmx-like 2 [Source:HGNC Sym] protein_cc	15	51447711	51622833	-1	q21.2
ENSG00000144445	-0.6434	-1.5621	0.0012	0.0095 KANSL1L	KAT8 regulatory NSL complex s protein_cc	2	2.1E+08	2.1E+08	-1	q34
ENSG00000177045	-0.6437	-1.5623	1.7626E-05	0.0002 SIX5	SIX homeobox 5 [Source:HGNC protein_cc	19	45764785	45769226	-1	q13.32
ENSG00000174080	-0.6438	-1.5624	0.0035	0.0223 CTSF	cathepsin F [Source:HGNC Symr protein_cc	11	66563463	66568841	-1	q13.2
ENSG00000111602	-0.6441	-1.5628	0.00004064	0.0005 TIMELESS	timeless circadian clock [Sourc protein_cc	12	56416373	56449403	-1	q13.3
ENSG00000087253	-0.6466	-1.5655	0.0023	0.0155 LPCAT2	lysophosphatidylcholine acyltr protein_cc	16	55508998	55586670	1	q12.2
ENSG00000186205	-0.6483	-1.5673	0.0006	0.0051 MARC1	mitochondrial amidoxime redu protein_cc	1	2.21E+08	2.21E+08	1	q41
ENSG00000180739	-0.6487	-1.5678	5.1164E-05	0.0006 S1PR5	sphingosine-1-phosphate rece protein_cc	19	10512742	10517931	-1	p13.2
ENSG00000197714	-0.6489	-1.5679	0.0032	0.0209 ZNF460	zinc finger protein 460 [Source protein_cc	19	57280051	57293569	1	q13.43
ENSG00000159915	-0.6497	-1.5688	0.0093	0.0482 ZNF233	zinc finger protein 233 [Source protein_cc	19	44259880	44275317	1	q13.31
ENSG00000135052	-0.652	-1.5713	1.0923E-05	0.0002 GOLM1	golgi membrane protein 1 [Sou protein_cc	9	86026146	86100173	-1	q21.33
ENSG00000116133	-0.6532	-1.5727	2.7165E-05	0.0004 DHCR24	24-dehydrocholesterol reduct protein_cc	1	54849633	54887218	-1	p32.3
ENSG00000177694	-0.6535	-1.573	0.0004	0.0033 NAALADL2	N-acetylated alpha-linked acid protein_cc	3	1.74E+08	1.76E+08	1	q26.31
ENSG00000214756	-0.6535	-1.573	0.0095	0.0487 METTL12	methyltransferase like 12 [Sou protein_cc	11	62665309	62668496	1	q12.3
ENSG00000099219	-0.6538	-1.5733	5.6089E-08	1.3402E-06 ERMP1	endoplasmic reticulum metall protein_cc	9	5765076	5833117	-1	p24.1
ENSG00000156050	-0.6565	-1.5762	0.0005	0.0043 FAM161B	family with sequence similarity protein_cc	14	73931501	73950414	-1	q24.3
ENSG00000074964	-0.6566	-1.5763	1.3158E-06	2.3891E-05 ARHGEF10L	Rho guanine nucleotide exchar protein_cc	1	17539835	17697874	1	p36.13
ENSG00000228223	-0.6572	-1.577	9.873E-06	0.0001 HCG11	HLA complex group 11 (non-pr lincRNA	6	26523450	26526579	1	p22.2
ENSG00000178935	-0.6574	-1.5773	1.0186E-06	1.9036E-05 ZNF552	zinc finger protein 552 [Source protein_cc	19	57803841	57814913	-1	q13.43
ENSG00000137033	-0.659	-1.579	0.0074	0.0403 IL33	interleukin 33 [Source:HGNC S protein_cc	9	6215786	6257983	1	p24.1
ENSG00000179388	-0.6594	-1.5794	0.0066	0.0368 EGR3	early growth response 3 [Sourc protein_cc	8	22687659	22693302	-1	p21.3
ENSG00000185650	-0.6622	-1.5825	6.0922E-06	9.3792E-05 ZFP36L1	ZFP36 ring finger protein-like 1 protein_cc	14	68787660	68796253	-1	q24.1
ENSG00000137834	-0.6629	-1.5833	0.0091	0.0472 SMAD6	SMAD family member 6 [Sourc protein_cc	15	66702228	66782848	1	q22.31
ENSG00000131944	-0.6638	-1.5842	0.0053	0.0312 C19orf40	chromosome 19 open reading protein_cc	19	32972209	32978222	1	q13.11
ENSG00000137962	-0.6653	-1.5859	0.0039	0.024 ARHGAP29	Rho GTPase activating protein protein_cc	1	94148988	94275068	-1	p22.1
ENSG00000185090	-0.6667	-1.5874	0.0003	0.0027 MANEAL	mannosidase, endo-alpha-like protein_cc	1	37793802	37801137	1	p34.3
ENSG00000135480	-0.667	-1.5878	1.6224E-05	0.0002 KRT7	keratin 7 [Source:HGNC Symbc protein_cc	12	52232520	52252186	1	q13.13
ENSG00000143412	-0.6673	-1.5881	0.0024	0.0161 ANXA9	annexin A9 [Source:HGNC Sym protein_cc	1	1.51E+08	1.51E+08	1	q21.3
ENSG00000177606	-0.6691	-1.5901	1.2543E-08	3.3786E-07 JUN	jun proto-oncogene [Source:Hi protein_cc	1	58780788	58784327	-1	p32.1
ENSG00000118263	-0.6702	-1.5913	0.0036	0.0225 KLF7	Kruppel-like factor 7 (ubiquito protein_cc	2	2.07E+08	2.07E+08	-1	q33.3
ENSG00000134070	-0.6706	-1.5918	0.0082	0.0438 IRAK2	interleukin-1 receptor-associa protein_cc	3	10164865	10243743	1	p25.3
ENSG00000131370	-0.6718	-1.5931	2.7562E-06	4.6161E-05 SH3BP5	SH3-domain binding protein 5 protein_cc	3	15254853	15341368	-1	p25.1
ENSG00000144908	-0.676	-1.5977	1.6979E-05	0.0002 ALDH1L1	aldehyde dehydrogenase 1 fan protein_cc	3	1.26E+08	1.26E+08	-1	q21.3
ENSG00000079435	-0.6788	-1.6008	0.0029	0.0192 LIPE	lipase, hormone-sensitive [Sou protein_cc	19	42401507	42427426	-1	q13.2
ENSG00000196517	-0.6791	-1.6012	0.0002	0.0019 SLC6A9	solute carrier family 6 (neurotr protein_cc	1	43991500	44031467	-1	p34.1
ENSG00000173267	-0.6811	-1.6033	0.0028	0.0186 SNCG	synuclein, gamma (breast canc protein_cc	10	86958618	86963260	1	q23.2
ENSG00000261716	-0.6819	-1.6043	0.0057	0.0329 RP11-196G18.22	sense_ove	1	1.5E+08	1.5E+08	-1	q21.2
ENSG00000169621	-0.682	-1.6044	0.0033	0.0213 APLF	aprataxin and PNKP like factor protein_cc	2	68467561	68655576	1	p13.3
ENSG00000106852	-0.6834	-1.6059	0.0042	0.026 LHX6	LIM homeobox 6 [Source:HGN protein_cc	9	1.22E+08	1.22E+08	-1	q33.2
ENSG00000279207	-0.6837	-1.6062	0.0016	0.0118 RP11-159D12.8	TEC	17	58095672	58101479	1	q22
ENSG00000197077	-0.6837	-1.6063	0.00001129	0.0002 KIAA1671	KIAA1671 [Source:HGNC Symb protein_cc	22	24952730	25197448	1	q11.23

ENSG0000079385	-0.6839	-1.6064	0.0002	0.002	CEACAM1	carcinoembryonic antigen-rela protein_cc	19	42507304	42561234	-1	q13.2
ENSG00000119669	-0.6849	-1.6076	2.3105E-09	6.9843E-08	IRF2BPL	interferon regulatory factor 2 l protein_cc	14	77024543	77028699	-1	q24.3
ENSG00000179859	-0.6852	-1.608	0.0079	0.0425	AC025335.1	antisense	17	7913324	7915953	-1	p13.1
ENSG00000138639	-0.6865	-1.6093	1.7309E-06	3.0409E-05	ARHGAP24	Rho GTPase activating protein protein_cc	4	85475114	86002670	1	q21.23
ENSG00000250588	-0.6877	-1.6107	0.0044	0.0265	IQCJ-SCHIP1	IQCJ-SCHIP1 readthrough [Sou protein_cc	3	1.59E+08	1.6E+08	1	q25.32
ENSG00000213906	-0.6908	-1.6142	0.008	0.0428	LTB4R2	leukotriene B4 receptor 2 [Sou protein_cc	14	24305734	24312053	1	q12
ENSG00000160111	-0.6924	-1.616	0.0002	0.0022	CPAMD8	C3 and PZP-like, alpha-2-macr protein_cc	19	16892947	17026815	-1	p13.11
ENSG00000132561	-0.6934	-1.6171	0.0006	0.0052	MATN2	matrilin 2 [Source:HGNC Symb protein_cc	8	97868840	98036716	1	q22.1
ENSG00000235217	-0.694	-1.6178	6.4957E-05	0.0008	TSPY26P	testis specific protein, Y-linked transcriber	20	32186477	32190527	-1	q11.21
ENSG00000123146	-0.6943	-1.6181	0.0038	0.0235	CD97	CD97 molecule [Source:HGNC protein_cc	19	14380501	14408725	1	p13.12
ENSG00000157429	-0.6947	-1.6186	0.0022	0.015	CNF19	zinc finger protein 19 [Source:l protein_cc	16	71464555	71565089	-1	q22.2
ENSG00000271721	-0.6953	-1.6192	0.0097	0.0496	RP11-337C18.9	antisense	1	1.47E+08	1.47E+08	1	q21.1
ENSG00000164951	-0.6959	-1.6199	1.0582E-06	0.00001966	PDP1	pyruvate dehydrogenase phosp protein_cc	8	93857807	93926066	1	q22.1
ENSG00000184500	-0.698	-1.6223	0.0018	0.0127	PROS1	protein S (alpha) [Source:HGNC protein_cc	3	93873033	93974066	-1	q11.1
ENSG00000186395	-0.6984	-1.6228	0.004	0.0245	KRT10	keratin 10 [Source:HGNC Symb protein_cc	17	40818117	40822595	-1	q21.2
ENSG00000054690	-0.6989	-1.6233	2.5133E-05	0.0003	PLEKHH1	pleckstrin homology domain cc protein_cc	14	67533301	67589612	1	q24.1
ENSG00000163050	-0.6993	-1.6237	0.0022	0.015	ADCK3	aarF domain containing kinase protein_cc	1	2.27E+08	2.27E+08	1	q42.13
ENSG00000121039	-0.7005	-1.6251	6.7693E-05	0.0008	RDH10	retinol dehydrogenase 10 (all-t protein_cc	8	73294612	73325281	1	q21.11
ENSG00000136002	-0.7009	-1.6256	0.0002	0.0019	ARHGEF4	Rho guanine nucleotide exchar protein_cc	2	1.31E+08	1.31E+08	1	q21.1
ENSG00000123411	-0.7025	-1.6273	5.1086E-05	0.0006	IKZF4	IKAROS family zinc finger 4 (Eo protein_cc	12	56007659	56038435	1	q13.2
ENSG00000120899	-0.7032	-1.6281	2.0118E-06	3.4734E-05	PTK2B	protein tyrosine kinase 2 beta protein_cc	8	27311482	27459391	1	p21.2
ENSG00000111275	-0.704	-1.629	1.3206E-06	2.3952E-05	ALDH2	aldehyde dehydrogenase 2 fan protein_cc	12	1.12E+08	1.12E+08	1	q24.12
ENSG00000102996	-0.705	-1.6302	0.0022	0.0155	MMP15	matrix metalloproteinase 15 (m protein_cc	16	58025566	58046901	1	q21
ENSG00000154358	-0.7052	-1.6303	2.5577E-05	0.0003	OBSCN	obscurin, cytoskeletal calmodu protein_cc	1	2.28E+08	2.28E+08	1	q42.13
ENSG00000151090	-0.7054	-1.6306	8.2381E-06	0.0001	THRB	thyroid hormone receptor, bet protein_cc	3	24117160	24495282	-1	p24.2
ENSG00000162073	-0.7068	-1.6321	0.0069	0.0382	PAQR4	progesterone and adipoQ receptor protein_cc	16	2969245	2973489	1	p13.3
ENSG00000139679	-0.7069	-1.6323	6.9857E-06	0.0001	LPAR6	lysophosphatidic acid receptor protein_cc	13	48389567	48444704	-1	q14.2
ENSG00000115750	-0.7069	-1.6323	2.6748E-05	0.0003	TAF1B	TATA box binding protein (TBP protein_cc	2	9843354	9934416	1	p25.1
ENSG00000101849	-0.7086	-1.6342	0.0003	0.0029	TBL1X	transducin (beta)-like 1X-linker protein_ccX		9463295	9719743	1	p22.31
ENSG00000092964	-0.7088	-1.6345	0.0053	0.0309	DPYSL2	dihydropyrimidinase-like 2 [So protein_cc	8	26514275	26658178	1	p21.2
ENSG00000079337	-0.7095	-1.6352	0.0015	0.0114	RAPGEF3	Rap guanine nucleotide exchar protein_cc	12	47734672	47771040	-1	q13.11
ENSG00000136383	-0.7105	-1.6363	0.0031	0.0201	ALPK3	alpha-kinase 3 [Source:HGNC protein_cc	15	84816680	84873482	1	q25.3
ENSG00000150995	-0.7113	-1.6373	6.345E-07	1.2444E-05	ITPR1	inositol 1,4,5-trisphosphate re protein_cc	3	4493348	4847840	1	p26.1
ENSG00000198947	-0.7121	-1.6382	1.4562E-07	3.2663E-06	DMD	dystrophin [Source:HGNC Sym protein_ccX		31097677	33339441	-1	p21.1
ENSG00000115902	-0.7126	-1.6387	0.0012	0.009	SLC1A4	solute carrier family 1 (glutam; protein_cc	2	64988477	65023865	1	p14
ENSG00000124920	-0.7139	-1.6402	4.9888E-07	1.0043E-05	MYRF	myelin regulatory factor [Sour protein_cc	11	61752642	61788518	1	q12.2
ENSG00000076248	-0.7161	-1.6427	1.8176E-08	4.734E-07	UNG	uracil-DNA glycosylase [Source protein_cc	12	1.09E+08	1.09E+08	1	q24.11
ENSG00000112759	-0.7161	-1.6427	0.0015	0.0111	SLC29A1	solute carrier family 29 (equilik protein_cc	6	44219505	44234151	1	p21.1
ENSG00000117174	-0.7173	-1.6441	0.00002982	0.0004	ZNHIT6	zinc finger, HIT-type containing protein_cc	1	85649423	85708433	-1	p22.3
ENSG00000088899	-0.7185	-1.6455	1.0916E-06	2.0183E-05	LZTS3;	Leucine zipper putative tumor protein_cc	20	3162617	3173592	-1	p13
ENSG00000166997	-0.7214	-1.6488	0.0001	0.0015	CNPY4	canopy FGF signaling regulator protein_cc	7	1E+08	1E+08	1	q22.1

ENSG00000101276	-0.7215	-1.6489	0.0003	0.0025	SLC52A3	solute carrier family 52 (ribofla protein_cc	20	760080	768487	-1	p13
ENSG00000162849	-0.7217	-1.6492	0.0086	0.0451	KIF26B	kinesin family member 26B [Sc protein_cc	1	2.45E+08	2.46E+08	1	q44
ENSG00000166046	-0.7252	-1.6531	0.0019	0.0133	TCP11L2	t-complex 11, testis-specific-lik protein_cc	12	1.06E+08	1.06E+08	1	q23.3
ENSG00000138755	-0.7275	-1.6557	0.0097	0.0494	CXCL9	chemokine (C-X-C motif) liganc protein_cc	4	76001275	76007488	-1	q21.1
ENSG00000185432	-0.7287	-1.6571	0.0003	0.0032	METTL7A	methyltransferase like 7A [Sou protein_cc	12	50923472	50932517	1	q13.12
ENSG00000164056	-0.7292	-1.6577	0.0012	0.0094	SPRY1	sprouty homolog 1, antagonist protein_cc	4	1.23E+08	1.23E+08	-1	q28.1
ENSG00000247400	-0.7299	-1.6585	0.0005	0.0046	DNAJC3-AS1	DNAJC3 antisense RNA 1 (heac lincRNA	13	95648733	95676925	-1	q32.1
ENSG00000149050	-0.73	-1.6586	0.0071	0.0392	ZNF214	zinc finger protein 214 [Source protein_cc	11	6999318	7020368	-1	p15.4
ENSG00000178401	-0.7303	-1.6589	0.0028	0.0188	DNAJC22	DnaJ (Hsp40) homolog, subfam protein_cc	12	49346917	49357546	1	q13.12
ENSG00000153885	-0.7303	-1.659	0.0041	0.0252	KCTD15	potassium channel tetrameriz protein_cc	19	33795933	33815763	1	q13.11
ENSG00000114812	-0.7304	-1.6591	0.0009	0.0075	VIPR1	vasoactive intestinal peptide r protein_cc	3	42489299	42537573	1	p22.1
ENSG00000149131	-0.7338	-1.663	0.0004	0.0034	SERPING1	serpin peptidase inhibitor, clac protein_cc	11	57597387	57614853	1	q12.1
ENSG00000261609	-0.7357	-1.6652	4.0902E-06	6.5757E-05	GAN	gigaxonin [Source:HGNC Symb protein_cc	16	81314952	81390884	1	q23.2
ENSG00000166669	-0.7362	-1.6658	0.0034	0.0217	ATF7IP2	activating transcription factor protein_cc	16	10326434	10483638	1	p13.2
ENSG00000185278	-0.7373	-1.667	2.3412E-07	5.0494E-06	ZBTB37	zinc finger and BTB domain cor protein_cc	1	1.74E+08	1.74E+08	1	q25.1
ENSG00000187510	-0.7386	-1.6686	0.0016	0.0115	PLEKHG7	pleckstrin homology domain cc protein_cc	12	92721505	92772455	1	q22
ENSG00000163013	-0.7394	-1.6695	0.0064	0.0362	FBXO41	F-box protein 41 [Source:HGNC protein_cc	2	73254682	73284431	-1	p13.2
ENSG00000047457	-0.7396	-1.6697	0.0024	0.0166	CP	ceruloplasmin (ferroxidase) [Sc protein_cc	3	1.49E+08	1.49E+08	-1	q25.1
ENSG00000172818	-0.7404	-1.6706	0.0052	0.0306	OVOL1	ovo-like zinc finger 1 [Source:F protein_cc	11	65787022	65797219	1	q13.1
ENSG00000187801	-0.7408	-1.6711	0.0014	0.0103	ZFP69B	ZFP69 zinc finger protein B [So protein_cc	1	40450102	40463718	1	p34.2
ENSG00000132613	-0.7409	-1.6713	0.0003	0.0033	MTSS1L	metastasis suppressor 1-like [S protein_cc	16	70661204	70686066	-1	q22.1
ENSG00000153048	-0.7457	-1.6767	2.6663E-06	4.4778E-05	CARHSP1	calcium regulated heat stable protein_cc	16	8852942	8869012	-1	p13.2
ENSG00000176678	-0.7459	-1.677	0.0072	0.0395	FOXL1	forkhead box L1 [Source:HGNC protein_cc	16	86576368	86582160	1	q24.1
ENSG00000197442	-0.746	-1.6771	7.7606E-12	3.3743E-10	MAP3K5	mitogen-activated protein kin protein_cc	6	1.37E+08	1.37E+08	-1	q23.3
ENSG00000022267	-0.7459	-1.6771	0.0067	0.0373	FHL1	four and a half LIM domains 1 protein_cc X		1.36E+08	1.36E+08	1	q26.3
ENSG00000114739	-0.7476	-1.679	0.0003	0.003	ACVR2B	activin A receptor, type IIB [So protein_cc	3	38453851	38493142	1	p22.2
ENSG00000134121	-0.7484	-1.6799	0.0018	0.0129	CHL1	cell adhesion molecule L1-like protein_cc	3	196596	409417	1	p26.3
ENSG00000142973	-0.7484	-1.68	0.0082	0.0436	CYP4B1	cytochrome P450, family 4, sul protein_cc	1	46757838	46819413	1	p33
ENSG00000138182	-0.7488	-1.6803	0.001	0.0083	KIF20B	kinesin family member 20B [Sc protein_cc	10	89701610	89774939	1	q23.31
ENSG00000143776	-0.7503	-1.6822	3.0953E-09	9.1674E-08	CDC42BPA	CDC42 binding protein kinase protein_cc	1	2.27E+08	2.27E+08	-1	q42.13
ENSG00000137486	-0.7521	-1.6843	0.0008	0.0068	ARRB1	arrestin, beta 1 [Source:HGNC protein_cc	11	75264182	75351705	-1	q13.4
ENSG00000058668	-0.7534	-1.6858	3.1735E-09	9.3845E-08	ATP2B4	ATPase, Ca++ transporting, pla protein_cc	1	2.04E+08	2.04E+08	1	q32.1
ENSG00000168255	-0.7535	-1.6858	0.006	0.0343	POLR2J3	polymerase (RNA) II (DNA dire protein_cc	7	1.03E+08	1.03E+08	-1	q22.1
ENSG00000169752	-0.7541	-1.6865	0.0077	0.0415	NRG4	neuregulin 4 [Source:HGNC Syp protein_cc	15	75935969	76059795	-1	q24.2
ENSG00000197256	-0.7543	-1.6868	1.572E-07	3.5055E-06	KANK2	KN motif and ankyrin repeat di protein_cc	19	11164267	11197791	-1	p13.2
ENSG00000205268	-0.7545	-1.687	8.1998E-08	1.9137E-06	PDE7A	phosphodiesterase 7A [Source protein_cc	8	65717510	65842322	-1	q13.1
ENSG00000266094	-0.7573	-1.6903	0.0009	0.0074	RASSF5	Ras association (RalGDS/AF-6) protein_cc	1	2.07E+08	2.07E+08	1	q32.1
ENSG00000188372	-0.7572	-1.6903	0.0044	0.0268	ZP3	zona pellucida glycoprotein 3 ( protein_cc	7	76397518	76442071	1	q11.23
ENSG00000185875	-0.7579	-1.691	3.6934E-05	0.0005	THNSL1	threonine synthase-like 1 (S. cc protein_cc	10	25016658	25026664	1	p12.1
ENSG00000164292	-0.758	-1.6911	0.0036	0.0226	RHOBTB3	Rho-related BTB domain conta protein_cc	5	95713522	95824383	1	q15
ENSG00000122547	-0.7589	-1.6922	0.002	0.0142	EEPDP1	endonuclease/exonuclease/ph protein_cc	7	36153149	36301543	1	p14.2

ENSG00000173846	-0.7598	-1.6933	0.008	0.0427	PLK3	polo-like kinase 3 [Source:HGN protein_cc	1	44800225	44805990	1	p34.1
ENSG00000247271	-0.7607	-1.6944	0.0059	0.0335	ZBED5-AS1	ZBED5 antisense RNA 1 [Source:antisense	11	10858259	10906802	1	p15.4
ENSG00000160999	-0.7627	-1.6966	0.0089	0.0464	SH2B2	SH2B adaptor protein 2 [Source:protein_cc	7	1.02E+08	1.02E+08	1	q22.1
ENSG00000106571	-0.7637	-1.6979	0.0011	0.0088	GLI3	GLI family zinc finger 3 [Source:protein_cc	7	41960950	42237870	-1	p14.1
ENSG00000088367	-0.7647	-1.699	2.9284E-06	4.8621E-05	EPB41L1	erythrocyte membrane protein protein_cc	20	36091504	36232799	1	q11.23
ENSG00000196730	-0.7654	-1.6998	0.0002	0.0018	DAPK1	death-associated protein kinase protein_cc	9	87497228	87708633	-1	q21.33
ENSG00000079482	-0.7677	-1.7025	0.0005	0.0047	OPHN1	oligophrenin 1 [Source:HGNC:protein_ccX		68042344	68433913	-1	q12
ENSG00000261324	-0.7678	-1.7026	0.0089	0.0463	RP11-174G6.5		12	14762504	14767931	-1	p12.3
ENSG00000126803	-0.7687	-1.7037	0.0011	0.0088	HSPA2	heat shock 70kDa protein 2 [Source:protein_cc	14	64535905	64546173	1	q23.3
ENSG00000176692	-0.77	-1.7053	0.0053	0.0312	FOXC2	forkhead box C2 (MFH-1, meso) protein_cc	16	86567251	86569728	1	q24.1
ENSG00000166780	-0.7705	-1.7059	6.7464E-05	0.0008	C16orf45	chromosome 16 open reading frame protein_cc	16	15434295	15625028	1	p13.11
ENSG00000175130	-0.7714	-1.707	7.2223E-08	1.6959E-06	MARCKSL1	MARCKS-like 1 [Source:HGNC:protein_cc	1	32333832	32336379	-1	p35.1
ENSG00000175906	-0.7727	-1.7084	8.5875E-05	0.001	ARL4D	ADP-ribosylation factor-like 4D protein_cc	17	43398959	43401137	1	q21.31
ENSG00000175873	-0.7741	-1.7101	0.0004	0.0038	AC004840.9	lincRNA	7	2437763	2447850	1	p22.3
ENSG00000106714	-0.7748	-1.7109	5.7467E-11	2.2065E-09	CNTNAP3	contactin associated protein-like protein_cc	9	39072767	39288315	-1	p12
ENSG00000204084	-0.7773	-1.714	1.2284E-05	0.0002	INPP5B	inositol polyphosphate-5-phosphatase protein_cc	1	37860697	37947057	-1	p34.3
ENSG00000170522	-0.7801	-1.7172	3.3251E-11	1.3275E-09	ELOVL6	ELOVL fatty acid elongase 6 [Source:protein_cc	4	1.1E+08	1.1E+08	-1	q25
ENSG00000163362	-0.7803	-1.7174	1.4994E-09	4.7144E-08	C1orf106	chromosome 1 open reading frame protein_cc	1	2.01E+08	2.01E+08	1	q32.1
ENSG00000161912	-0.7806	-1.7179	0.0014	0.0107	ADCY10P1	adenylate cyclase 10 (soluble) transcribed	6	41101022	41140835	1	p21.1
ENSG00000122870	-0.7842	-1.7221	0.0037	0.0233	BICC1	BicC family RNA binding protein protein_cc	10	58513140	58831437	1	q21.1
ENSG00000116667	-0.7847	-1.7228	1.2825E-12	6.0604E-11	C1orf21	chromosome 1 open reading frame protein_cc	1	1.84E+08	1.85E+08	1	q25.3
ENSG00000166483	-0.7847	-1.7228	4.2876E-09	1.2428E-07	WEE1	WEE1 G2 checkpoint kinase [Source:protein_cc	11	9573681	9593457	1	p15.4
ENSG00000004139	-0.7849	-1.7229	6.3025E-07	1.2386E-05	SARM1	sterile alpha and TIR motif containing protein_cc	17	28364356	28404049	1	q11.2
ENSG00000174500	-0.7849	-1.723	0.0033	0.0211	GCSAM	germinal center-associated, signal protein_cc	3	1.12E+08	1.12E+08	-1	q13.2
ENSG00000135272	-0.785	-1.7231	1.3258E-10	4.8553E-09	MDFIC	MyoD family inhibitor domain protein_cc	7	1.15E+08	1.15E+08	1	q31.1
ENSG00000078487	-0.7862	-1.7245	0.0044	0.0265	ZCWPW1	zinc finger, CW type with PWM protein_cc	7	1E+08	1E+08	-1	q22.1
ENSG00000176890	-0.7908	-1.73	0.0008	0.0065	TYMS	thymidylate synthetase [Source:protein_cc	18	657604	673578	1	p11.32
ENSG00000154262	-0.792	-1.7315	0.0047	0.0282	ABCA6	ATP-binding cassette, sub-family protein_cc	17	69078702	69141888	-1	q24.3
ENSG00000081059	-0.7938	-1.7337	0.0095	0.0489	TCF7	transcription factor 7 (T-cell specific) protein_cc	5	1.34E+08	1.34E+08	1	q31.1
ENSG00000230943	-0.7944	-1.7343	0.0065	0.0365	RP11-367G18.1	lincRNA	6	1.14E+08	1.14E+08	-1	q21
ENSG00000225614	-0.7949	-1.7349	0.0072	0.0397	ZNF469	zinc finger protein 469 [Source:protein_cc	16	88427471	88440757	1	q24.2
ENSG00000073734	-0.7958	-1.736	0.0032	0.0205	ABCB11	ATP-binding cassette, sub-family protein_cc	2	1.69E+08	1.69E+08	-1	q31.1
ENSG00000085117	-0.7963	-1.7366	2.1122E-10	7.5896E-09	CD82	CD82 molecule [Source:HGNC:protein_cc	11	44564427	44620363	1	p11.2
ENSG00000120324	-0.7975	-1.7381	0.0038	0.0239	PCDHB10	protocadherin beta 10 [Source:protein_cc	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000179583	-0.798	-1.7387	5.7599E-07	1.1414E-05	CIITA	class II, major histocompatibility protein_cc	16	10877198	10932281	1	p13.13
ENSG00000027697	-0.7991	-1.74	0.0003	0.0028	IFNGR1	interferon gamma receptor 1 [Source:protein_cc	6	1.37E+08	1.37E+08	-1	q23.3
ENSG00000129595	-0.7991	-1.7401	3.4103E-22	3.5105E-20	EPB41L4A	erythrocyte membrane protein protein_cc	5	1.12E+08	1.12E+08	-1	q22.2
ENSG00000255398	-0.8001	-1.7413	2.7608E-06	4.6161E-05	HCAR3	hydroxycarboxylic acid receptor protein_cc	12	1.23E+08	1.23E+08	-1	q24.31
ENSG00000233901	-0.8011	-1.7424	6.0264E-08	1.4346E-06	LINC01503	long intergenic non-protein coding lincRNA	9	1.29E+08	1.29E+08	1	q34.11
ENSG00000196782	-0.8027	-1.7443	2.7221E-05	0.0004	MAML3	mastermind-like 3 (Drosophila) protein_cc	4	1.4E+08	1.4E+08	-1	q31.1
ENSG00000120162	-0.8046	-1.7467	5.7768E-06	8.9661E-05	MOB3B	MOB kinase activator 3B [Source:protein_cc	9	27325209	27529781	-1	p21.2



ENSG00000172167	-0.8062	-1.7486	0.0077	0.0417	MTBP	MDM2 binding protein [Source:protein_cc	8	1.2E+08	1.21E+08	1	q24.12
ENSG00000238164	-0.8076	-1.7503	0.0002	0.0016	RP3-395M20.8	processed_l	1	2549920	2557031	-1	p36.32
ENSG00000273142	-0.808	-1.7507	0.0028	0.0184	RP11-458F8.4	lincRNA	7	66902857	66906297	1	q11.21
ENSG00000014914	-0.808	-1.7508	5.4796E-07	1.0944E-05	MTMR11	myotubularin related protein 1 protein_cc	1	1.5E+08	1.5E+08	-1	q21.2
ENSG00000079257	-0.8093	-1.7524	1.6717E-06	2.9423E-05	LXN	latexin [Source:HGNC Symbol; protein_cc	3	1.59E+08	1.59E+08	-1	q25.32
ENSG00000074621	-0.8101	-1.7533	4.6695E-07	9.4501E-06	SLC24A1	solute carrier family 24 (sodium protein_cc	15	65611366	65660995	1	q22.31
ENSG00000157216	-0.8108	-1.7542	1.6209E-10	5.9021E-09	SSBP3	single stranded DNA binding protein_cc	1	54225432	54413479	-1	p32.3
ENSG00000168944	-0.8112	-1.7547	8.8283E-11	3.3292E-09	CEP120	centrosomal protein 120kDa [Sc protein_cc	5	1.23E+08	1.23E+08	-1	q23.2
ENSG00000105327	-0.8139	-1.7579	3.5391E-08	8.7078E-07	BBC3	BCL2 binding component 3 [So protein_cc	19	47220822	47232766	-1	q13.32
ENSG00000080839	-0.8169	-1.7616	0.0067	0.0374	RBL1	retinoblastoma-like 1 [Source:l protein_cc	20	36996349	37095995	-1	q11.23
ENSG00000171227	-0.8198	-1.7652	0.0039	0.0244	TMEM37	transmembrane protein 37 [Sc protein_cc	2	1.19E+08	1.19E+08	1	q14.2
ENSG00000187994	-0.8209	-1.7665	0.0006	0.0052	RINL	Ras and Rab interactor-like [So protein_cc	19	38867834	38878279	-1	q13.2
ENSG00000106123	-0.8242	-1.7706	7.3026E-05	0.0008	EPHB6	EPH receptor B6 [Source:HGNC protein_cc	7	1.43E+08	1.43E+08	1	q34
ENSG00000007944	-0.8252	-1.7718	0.0005	0.0044	MYLIP	myosin regulatory light chain ii protein_cc	6	16129125	16148248	1	p22.3
ENSG00000063180	-0.8253	-1.7719	0.0004	0.0038	CA11	carbonic anhydrase XI [Source:protein_cc	19	48637942	48646312	-1	q13.33
ENSG00000273038	-0.8257	-1.7724	0.0054	0.0313	RP11-479G22.8	lincRNA	10	32887255	32889311	-1	p11.22
ENSG00000134802	-0.8261	-1.7729	0.0007	0.006	SLC43A3	solute carrier family 43, memb protein_cc	11	57406954	57427580	-1	q12.1
ENSG00000101846	-0.8279	-1.775	1.2667E-06	2.3067E-05	STS	steroid sulfatase (microsomal), protein_ccX		7219456	7354810	1	p22.31
ENSG00000150782	-0.8281	-1.7753	1.4244E-08	3.8045E-07	IL18	interleukin 18 [Source:HGNC S protein_cc	11	1.12E+08	1.12E+08	-1	q23.1
ENSG00000137747	-0.8298	-1.7774	5.5519E-05	0.0007	TMPRSS13	transmembrane protease, seri protein_cc	11	1.18E+08	1.18E+08	-1	q23.3
ENSG00000162407	-0.8348	-1.7836	0.0007	0.0057	PPAP2B	phosphatidic acid phosphatase protein_cc	1	56494747	56645301	-1	p32.2
ENSG00000163520	-0.837	-1.7863	2.6255E-05	0.0003	FBLN2	fibulin 2 [Source:HGNC Symbol protein_cc	3	13549131	13638422	1	p25.1
ENSG00000111863	-0.8394	-1.7893	0.0021	0.0147	ADTRP	androgen-dependent TFPI-reg1 protein_cc	6	11712054	11807046	-1	p24.1
ENSG00000115252	-0.8423	-1.7929	0.0088	0.046	PDE1A	phosphodiesterase 1A, calmod protein_cc	2	1.82E+08	1.83E+08	-1	q32.1
ENSG00000141068	-0.8426	-1.7933	8.6325E-05	0.001	KSR1	kinase suppressor of ras 1 [Sou protein_cc	17	27456714	27626438	1	q11.2
ENSG00000164649	-0.8451	-1.7964	1.4402E-06	2.5826E-05	CDCA7L	cell division cycle associated 7- protein_cc	7	21900900	21946084	-1	p15.3
ENSG00000188277	-0.8455	-1.7968	0.0004	0.0038	C15orf62	chromosome 15 open reading protein_cc	15	40770080	40772449	1	q15.1
ENSG00000143369	-0.8463	-1.7979	0.0012	0.0091	ECM1	extracellular matrix protein 1 [ protein_cc	1	1.51E+08	1.51E+08	1	q21.2
ENSG00000103460	-0.8501	-1.8026	0.00006141	0.0007	TOX3	TOX high mobility group box fa protein_cc	16	52438005	52547802	-1	q12.1
ENSG00000151364	-0.8501	-1.8026	0.0004	0.0039	KCTD14	potassium channel tetrameriz protein_cc	11	78015715	78080219	-1	q14.1
ENSG00000186081	-0.8511	-1.8039	6.6946E-06	0.0001	KRT5	keratin 5 [Source:HGNC Symbc protein_cc	12	52514575	52520687	-1	q13.13
ENSG00000188483	-0.853	-1.8062	5.216E-09	1.4848E-07	IER5L	immediate early response 5-like protein_cc	9	1.29E+08	1.29E+08	-1	q34.11
ENSG00000215790	-0.8539	-1.8073	0.0079	0.0426	SLC35E2	solute carrier family 35, memb protein_cc	1	1724838	1745992	-1	p36.33
ENSG00000174130	-0.8551	-1.8088	0.0022	0.0154	TLR6	toll-like receptor 6 [Source:HG protein_cc	4	38823715	38856817	-1	p14
ENSG00000099864	-0.856	-1.81	3.5627E-05	0.0004	PALM	paralemmin [Source:HGNC Syr protein_cc	19	709093	748330	1	p13.3
ENSG00000197093	-0.8564	-1.8105	0.0083	0.044	GAL3ST4	galactose-3-O-sulfotransferase protein_cc	7	1E+08	1E+08	-1	q22.1
ENSG00000259959	-0.8566	-1.8107	0.0029	0.0189	RP11-121C2.2	lincRNA	4	47840122	47844339	-1	p12
ENSG00000159871	-0.8575	-1.8119	0.0012	0.0093	LYPD5	LY6/PLAUR domain containing protein_cc	19	43795929	43827206	-1	q13.31
ENSG00000204103	-0.8581	-1.8126	0.005	0.0297	MAFB	v-maf avian musculoaponeuro protein_cc	20	40685848	40689240	-1	q12
ENSG00000196220	-0.8585	-1.8131	3.003E-10	1.0532E-08	SRGAP3	SLIT-ROBO Rho GTPase activat protein_cc	3	8980591	9363053	-1	p25.3
ENSG00000145908	-0.8597	-1.8146	3.1945E-07	6.6926E-06	ZNF300	zinc finger protein 300 [Source:protein_cc	5	1.51E+08	1.51E+08	-1	q33.1

ENSG00000113657	-0.8642	-1.8204	0.0002	0.0018 DPYSL3	dihydropyrimidinase-like 3 [So protein_cc	5	1.47E+08	1.48E+08	-1 q32
ENSG00000261068	-0.8645	-1.8207	0.0002	0.0022 RP11-7K24.3	lincRNA	6	42092233	42094259	-1 p21.1
ENSG00000244731	-0.8669	-1.8237	0.0064	0.0358 C4A	complement component 4A (R protein_cc	6	31982024	32002681	1 p21.33
ENSG00000247317	-0.8676	-1.8246	0.0039	0.024 RP11-273G15.2	lincRNA	8	1.43E+08	1.43E+08	-1 q24.3
ENSG00000279117	-0.8696	-1.8272	0.0016	0.0118 CTD-2562J17.6	TEC	11	75260129	75262466	-1 q13.4
ENSG00000119866	-0.8709	-1.8288	2.1038E-05	0.0003 BCL11A	B-cell CLL/lymphoma 11A (zinc protein_cc	2	60451167	60553567	-1 p16.1
ENSG00000147180	-0.8717	-1.8298	1.7199E-05	0.0002 ZNF711	zinc finger protein 711 [Source protein_ccX		85244032	85273362	1 q21.1
ENSG00000246898	-0.8717	-1.8298	0.0002	0.0023 LINC00920	long intergenic non-protein co lincRNA	16	66408524	66412135	1 q21
ENSG00000230453	-0.872	-1.8302	0.0022	0.0153 ANKRD18B	ankyrin repeat domain 18B [Sc protein_cc	9	33524394	33573009	1 p13.3
ENSG00000111885	-0.8735	-1.8321	7.5939E-05	0.0009 MAN1A1	mannosidase, alpha, class 1A, i protein_cc	6	1.19E+08	1.19E+08	-1 q22.31
ENSG00000267279	-0.8751	-1.8341	0.0072	0.0395 RP11-879F14.2	lincRNA	18	61585746	61606916	-1 q21.33
ENSG00000183876	-0.8765	-1.8359	0.0018	0.0127 ARSI	arylsulfatase family, member I protein_cc	5	1.5E+08	1.5E+08	-1 q32
ENSG00000021645	-0.8775	-1.8372	0.0026	0.0175 NRXN3	neurexin 3 [Source:HGNC SymI protein_cc	14	78242391	79868290	1 q24.3
ENSG00000157514	-0.8785	-1.8385	1.8823E-20	1.7658E-18 TSC22D3	TSC22 domain family, member protein_ccX		1.08E+08	1.08E+08	-1 q22.3
ENSG00000184584	-0.8788	-1.8388	2.752E-06	4.6135E-05 TMEM173	transmembrane protein 173 [S protein_cc	5	1.39E+08	1.39E+08	-1 q31.2
ENSG00000166508	-0.8794	-1.8396	8.6696E-06	0.0001 MCM7	minichromosome maintenanc protein_cc	7	1E+08	1E+08	-1 q22.1
ENSG00000169129	-0.8819	-1.8428	0.0037	0.0231 AFAP1L2	actin filament associated prote protein_cc	10	1.14E+08	1.14E+08	-1 q25.3
ENSG00000263155	-0.8822	-1.8432	0.0096	0.0492 MYZAP	myocardial zonula adherens pr protein_cc	15	57591941	57685364	1 q21.3
ENSG00000137501	-0.8841	-1.8456	3.9695E-08	9.6917E-07 SYTL2	synaptotagmin-like 2 [Source:l protein_cc	11	85694224	85811159	-1 q14.1
ENSG00000176046	-0.8846	-1.8462	1.9915E-06	3.4447E-05 NUPR1	nuclear protein, transcriptiona protein_cc	16	28532708	28539174	-1 p11.2
ENSG00000178977	-0.8854	-1.8472	0.0083	0.0441 LINC00324	long intergenic non-protein co lincRNA	17	8220642	8224043	-1 p13.1
ENSG00000164647	-0.8856	-1.8475	3.5224E-08	8.6781E-07 STEAP1	six transmembrane epithelial a protein_cc	7	90154375	90164829	1 q21.13
ENSG00000152669	-0.8868	-1.8491	0.0006	0.005 CCNO	cyclin O [Source:HGNC Symbol protein_cc	5	55231152	55233680	-1 q11.2
ENSG00000263013	-0.8875	-1.85	0.0009	0.0074 RP11-876N24.5	sense_intr	16	10938886	10940044	-1 p13.13
ENSG00000137872	-0.8886	-1.8514	0.0021	0.0149 SEMA6D	sema domain, transmembrane protein_cc	15	47184101	47774223	1 q21.1
ENSG00000224810	-0.889	-1.8519	0.0042	0.0258 RP11-538D16.2	lincRNA	1	1.82E+08	1.82E+08	-1 q25.3
ENSG00000187764	-0.891	-1.8545	6.4661E-07	0.00001263 SEMA4D	sema domain, immunoglobulir protein_cc	9	89360787	89498130	-1 q22.2
ENSG00000198732	-0.8919	-1.8556	0.0077	0.0415 SMOC1	SPARC related modular calciun protein_cc	14	69854131	70032366	1 q24.2
ENSG00000049323	-0.8938	-1.858	0.0035	0.0223 LTBP1	latent transforming growth fac protein_cc	2	32946972	33399509	1 p22.3
ENSG00000275832	-0.8965	-1.8615	5.0749E-07	1.0195E-05 ARHGAP23	Rho GTPase activating protein protein_cc	17	38428418	38512392	1 q12
ENSG00000111261	-0.8975	-1.8629	0.00000104	1.9361E-05 MANSC1	MANSC domain containing 1 [S protein_cc	12	12326056	12350541	-1 p13.2
ENSG00000269899	-0.8981	-1.8636	0.0044	0.0268 RP11-589N15.2	sense_intr	8	11846154	11846391	-1 p23.1
ENSG00000168785	-0.8983	-1.8639	1.9803E-14	1.1498E-12 TSPAN5	tetraspanin 5 [Source:HGNC Sy protein_cc	4	98470367	98658629	-1 q23
ENSG00000116985	-0.903	-1.87	0.0065	0.0362 BMP8B	bone morphogenetic protein 8 protein_cc	1	39757182	39788861	-1 p34.2
ENSG00000134363	-0.9036	-1.8708	0.0039	0.0243 FST	follistatin [Source:HGNC Symb protein_cc	5	53480409	53487134	1 q11.2
ENSG00000157214	-0.9043	-1.8717	6.9877E-07	1.3538E-05 STEAP2	STEAP family member 2, metal protein_cc	7	90167590	90238137	1 q21.13
ENSG00000150907	-0.9051	-1.8727	1.042E-14	6.2204E-13 FOXO1	forkhead box O1 [Source:HGNi protein_cc	13	40555667	40666597	-1 q14.11
ENSG00000177459	-0.9103	-1.8794	5.3871E-08	1.2921E-06 ERICH5	glutamate-rich 5 [Source:HGNi protein_cc	8	98064311	98093610	1 q22.2
ENSG00000067191	-0.9106	-1.8799	0.0007	0.0058 CACNB1	calcium channel, voltage-depe protein_cc	17	39173456	39197703	-1 q12
ENSG00000146094	-0.9111	-1.8805	0.0088	0.046 DOK3	docking protein 3 [Source:HGN protein_cc	5	1.78E+08	1.78E+08	-1 q35.3
ENSG00000135842	-0.9128	-1.8827	0.0009	0.0072 FAM129A	family with sequence similarity protein_cc	1	1.85E+08	1.85E+08	-1 q25.3

ENSG00000198624	-0.9131	-1.8831	2.5052E-09	7.5488E-08	CCDC69	coiled-coil domain containing 4 protein_cc	5	1.51E+08	1.51E+08	-1	q33.1
ENSG00000224389	-0.9139	-1.8841	0.0038	0.0236	C4B	complement component 4B (C protein_cc	6	32014762	32035418	1	p21.33
ENSG00000164989	-0.9168	-1.8879	8.5413E-05	0.001	CCDC171	coiled-coil domain containing 3 protein_cc	9	15552897	16061663	1	p22.3
ENSG00000134531	-0.9169	-1.8881	0.0002	0.002	EMP1	epithelial membrane protein 1 protein_cc	12	13196716	13219939	1	p13.1
ENSG00000120875	-0.9182	-1.8898	3.7373E-06	6.0676E-05	DUSP4	dual specificity phosphatase 4 protein_cc	8	29333064	29350668	-1	p12
ENSG00000116977	-0.9186	-1.8902	5.308E-11	2.063E-09	LGALS8	lectin, galactoside-binding, soluble protein_cc	1	2.37E+08	2.37E+08	1	q43
ENSG00000205485	-0.9209	-1.8933	0.0013	0.0098	AC004980.7	transcribed into antisense RNA	7	76549360	76627982	1	q11.23
ENSG00000164611	-0.921	-1.8935	0.0003	0.0031	PTTG1	pituitary tumor-transforming 1 protein_cc	5	1.6E+08	1.6E+08	1	q33.3
ENSG00000230606	-0.9245	-1.898	0.0002	0.002	AC159540.1	lincRNA	2	97416165	97433527	-1	q11.2
ENSG00000117507	-0.9252	-1.8989	0.0002	0.002	FMO6P	flavin containing monooxygenase protein_cc	1	1.71E+08	1.71E+08	1	q24.3
ENSG00000228951	-0.926	-1.9	0.005	0.0295	RP11-336A10.4	lincRNA	10	5616862	5618161	-1	p15.1
ENSG00000227051	-0.9267	-1.9009	2.1052E-05	0.0003	C14orf132	chromosome 14 open reading frame lincRNA	14	96039324	96094080	1	q32.2
ENSG00000064195	-0.9267	-1.901	0.0081	0.0433	DLX3	distal-less homeobox 3 [Source:protein_cc	17	49990005	49995224	-1	q21.33
ENSG00000276386	-0.9281	-1.9027	0.0035	0.0223	CNTNAP3P2	contactin associated protein-like unprocessed	9	67059560	67293468	1	q21.11
ENSG00000134954	-0.9323	-1.9084	4.0489E-09	1.1808E-07	ETS1	v-ets avian erythroblastosis virus protein_cc	11	1.28E+08	1.29E+08	-1	q24.3
ENSG00000172216	-0.9329	-1.9091	1.1662E-11	4.9353E-10	CEBPB	CCAAT/enhancer binding protein protein_cc	20	50190734	50192689	1	q13.13
ENSG00000105516	-0.9344	-1.911	0.0002	0.0019	DBP	D site of albumin promoter (all protein_cc	19	48630030	48637438	-1	q13.33
ENSG00000115738	-0.9343	-1.911	0.0007	0.0062	ID2	inhibitor of DNA binding 2, domain protein_cc	2	8678845	8684453	1	p25.1
ENSG00000142632	-0.9353	-1.9123	0.0004	0.0038	ARHGEF19	Rho guanine nucleotide exchange factor protein_cc	1	16197854	16212609	-1	p36.13
ENSG00000166949	-0.9386	-1.9167	1.9498E-11	8.0545E-10	SMAD3	SMAD family member 3 [Source:protein_cc	15	67063763	67195195	1	q22.33
ENSG00000156968	-0.9401	-1.9186	9.188E-06	0.0001	MPV17L	MPV17 mitochondrial membrane protein_cc	16	15395754	15413268	1	p13.11
ENSG00000260711	-0.9431	-1.9227	0.0018	0.0128	RP11-747H7.3	sense intron	14	91752856	91759798	-1	q32.12
ENSG00000107758	-0.948	-1.9293	3.1026E-17	2.2902E-15	PPP3CB	protein phosphatase 3, catalytic protein_cc	10	73436428	73496024	-1	q22.2
ENSG00000204366	-0.9482	-1.9295	4.5857E-05	0.0006	ZBTB12	zinc finger and BTB domain containing protein_cc	6	31899607	31901992	-1	p21.33
ENSG00000167703	-0.949	-1.9305	1.3264E-06	2.4034E-05	SLC43A2	solute carrier family 43 (amino acid) protein_cc	17	1569267	1628886	-1	p13.3
ENSG00000187951	-0.949	-1.9306	0.0098	0.0499	ARHGAP11B	Rho GTPase activating protein protein_cc	15	30624494	30772993	1	q13.2
ENSG00000107099	-0.9492	-1.9308	9.8526E-07	1.8486E-05	DOCK8	dedicator of cytokinesis 8 [Source:protein_cc	9	214854	465259	1	p24.3
ENSG00000228544	-0.9498	-1.9316	0.0036	0.0225	CCDC183-AS1	CCDC183 antisense RNA 1 [Source:antisense	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000254799	-0.9523	-1.9349	0.0007	0.0059	SLC25A47P1	solute carrier family 25, member processed	11	59263389	59263802	-1	q12.1
ENSG00000152661	-0.9532	-1.9362	0.0007	0.0061	GJA1	gap junction protein, alpha 1, 4 protein_cc	6	1.21E+08	1.21E+08	1	q22.31
ENSG00000105088	-0.9536	-1.9367	0.0017	0.0125	OLFM2	olfactomedin 2 [Source:HGNC] protein_cc	19	9853718	9936552	-1	p13.2
ENSG00000168412	-0.9537	-1.9369	0.0079	0.0423	MTNR1A	melatonin receptor 1A [Source:protein_cc	4	1.87E+08	1.87E+08	-1	q35.2
ENSG00000236699	-0.9544	-1.9378	7.0689E-07	1.3653E-05	ARHGEF38	Rho guanine nucleotide exchange factor protein_cc	4	1.06E+08	1.06E+08	1	q24
ENSG00000112299	-0.9555	-1.9393	0.0013	0.0099	VNN1	vanin 1 [Source:HGNC Symbol] protein_cc	6	1.33E+08	1.33E+08	-1	q23.2
ENSG00000110852	-0.9558	-1.9396	0.0004	0.0038	CLEC2B	C-type lectin domain family 2, protein_cc	12	9852984	9870136	-1	p13.31
ENSG00000158806	-0.9571	-1.9414	1.8922E-06	3.2938E-05	NPM2	nucleophosmin/nucleoplasm protein_cc	8	22024125	22036897	1	p21.3
ENSG00000164985	-0.9616	-1.9474	1.6723E-05	0.0002	PSIP1	PC4 and SFRS1 interacting protein protein_cc	9	15464066	15511019	-1	p22.3
ENSG00000143502	-0.9622	-1.9483	2.5201E-09	7.5817E-08	SUSD4	sushi domain containing 4 [Source:protein_cc	1	2.23E+08	2.23E+08	-1	q41
ENSG00000174640	-0.9639	-1.9506	0.0003	0.0031	SLCO2A1	solute carrier organic anion transporter protein_cc	3	1.34E+08	1.34E+08	-1	q22.2
ENSG00000155465	-0.964	-1.9507	0.0002	0.0024	SLC7A7	solute carrier family 7 (amino acid) protein_cc	14	22773222	22829820	-1	q11.2
ENSG00000108846	-0.9643	-1.9511	0.00003365	0.0004	ABCC3	ATP-binding cassette, sub-family protein_cc	17	50634777	50692252	1	q21.33

ENSG00000101003	-0.9661	-1.9535	0.0004	0.004	GIN51	GIN5 complex subunit 1 (Psf1 t protein_cc	20	25407727	25452628	1	p11.21
ENSG00000169896	-0.9668	-1.9545	0.0055	0.0319	ITGAM	integrin, alpha M (complemen protein_cc	16	31259990	31332892	1	p11.2
ENSG00000153446	-0.967	-1.9547	0.0008	0.0067	C16orf89	chromosome 16 open reading protein_cc	16	5044122	5066110	-1	p13.3
ENSG00000213853	-0.969	-1.9575	0.0002	0.0023	EMP2	epithelial membrane protein 2 protein_cc	16	10528422	10580698	-1	p13.13
ENSG00000112096	-0.9695	-1.9581	1.0059E-05	0.0001	SOD2	superoxide dismutase 2, mitoc protein_cc	6	1.6E+08	1.6E+08	-1	q25.3
ENSG00000176371	-0.9702	-1.9591	7.5617E-10	2.4957E-08	ZSCAN2	zinc finger and SCAN domain c protein_cc	15	84600986	84627796	1	q25.2
ENSG00000186564	-0.9708	-1.96	0.0075	0.0408	FOXD2	forkhead box D2 [Source:HGN protein_cc	1	47436017	47440691	1	p33
ENSG00000250303	-0.9712	-1.9605	0.0005	0.0043	RP11-356J5.12	lincRNA	11	1.12E+08	1.12E+08	1	q23.1
ENSG00000198223	-0.9719	-1.9615	0.0042	0.0258	CSF2RA	colony stimulating factor 2 rec protein_ccX		1268800	1310381	1	p22.33
ENSG00000204991	-0.9754	-1.9662	0.0006	0.0049	SPIRE2	spire-type actin nucleation faci protein_cc	16	89818179	89871319	1	q24.3
ENSG00000234518	-0.9756	-1.9665	0.0016	0.0119	PTGES3P1	prostaglandin E synthase 3 (cy processed_	1	89104285	89104767	-1	p22.2
ENSG00000226471	-0.9758	-1.9667	0.0079	0.0425	CTA-292E10.6	antisense	22	28800683	28848559	1	q12.1
ENSG00000196154	-0.9759	-1.9668	0.0001	0.0012	S100A4	S100 calcium binding protein A protein_cc	1	1.54E+08	1.54E+08	-1	q21.3
ENSG00000223768	-0.9759	-1.9668	0.0015	0.0113	LINC00205	long intergenic non-protein co lincRNA	21	45293285	45297354	1	q22.3
ENSG00000179674	-0.9765	-1.9677	0.0048	0.0287	ARL14	ADP-ribosylation factor-like 14 protein_cc	3	1.61E+08	1.61E+08	1	q25.33
ENSG00000280032	-0.9802	-1.9727	2.085E-06	3.5869E-05	RP11-832A4.7	TEC	11	1.18E+08	1.18E+08	1	q23.3
ENSG00000175832	-0.9813	-1.9742	0.0012	0.009	ETV4	ets variant 4 [Source:HGNC Syr protein_cc	17	43527844	43579620	-1	q21.31
ENSG00000213903	-0.9815	-1.9746	0.0001	0.0015	LTB4R	leukotriene B4 receptor [Sourc protein_cc	14	24311450	24318036	1	q12
ENSG00000279722	-0.9832	-1.9768	0.0075	0.0408	RP11-44F14.6	TEC	16	53487607	53489943	-1	q12.2
ENSG00000009765	-0.9866	-1.9815	5.1586E-06	8.0856E-05	IYD	iodotyrosine deiodinase [Sourc protein_cc	6	1.5E+08	1.5E+08	1	q25.1
ENSG00000125968	-0.9928	-1.9901	2.6994E-10	9.5198E-09	ID1	inhibitor of DNA binding 1, dor protein_cc	20	31605283	31606515	1	q11.21
ENSG00000214797	-0.9946	-1.9925	0.002	0.014	RP11-1036E20.9	lincRNA	11	59268876	59284033	-1	q12.1
ENSG00000104783	-0.9954	-1.9936	8.7759E-05	0.001	KCNN4	potassium intermediate/small protein_cc	19	43766533	43781257	-1	q13.31
ENSG00000134339	-0.996	-1.9945	0.0094	0.0485	SAA2	serum amyloid A2 [Source:HGI protein_cc	11	18239223	18248643	-1	p15.1
ENSG00000154556	-0.9961	-1.9946	1.4584E-09	4.6268E-08	SORBS2	sorbin and SH3 domain contain protein_cc	4	1.86E+08	1.86E+08	-1	q35.1
ENSG00000197580	-0.9977	-1.9967	0.0031	0.0199	BCO2	beta-carotene oxygenase 2 [Sc protein_cc	11	1.12E+08	1.12E+08	1	q23.1
ENSG00000198814	-1.0017	-2.0024	6.0697E-07	1.1978E-05	GK	glycerol kinase [Source:HGNC ! protein_ccX		30653359	30731456	1	p21.2
ENSG00000138669	-1.0019	-2.0026	3.9078E-05	0.0005	PRKG2	protein kinase, cGMP-depende protein_cc	4	81087370	81215117	-1	q21.21
ENSG00000079335	-1.0043	-2.006	0.0005	0.0048	CDC14A	cell division cycle 14A [Source: protein_cc	1	1E+08	1.01E+08	1	p21.2
ENSG00000134762	-1.006	-2.0084	7.2684E-10	2.4115E-08	DSC3	desmocollin 3 [Source:HGNC S protein_cc	18	30990008	31042815	-1	q12.1
ENSG00000085465	-1.0063	-2.0088	0.0003	0.0033	OVGP1	oviductal glycoprotein 1, 120kl protein_cc	1	1.11E+08	1.11E+08	-1	p13.2
ENSG00000119681	-1.0073	-2.0102	0.0093	0.048	LTBP2	latent transforming growth fac protein_cc	14	74498170	74612378	-1	q24.3
ENSG00000224086	-1.0074	-2.0103	0.0038	0.0238	LL22NC03-86G7.1	antisense	22	21938293	21977632	1	q11.22
ENSG00000107738	-1.0086	-2.0119	3.496E-12	1.5665E-10	C10orf54	chromosome 10 open reading protein_cc	10	71747559	71773498	-1	q22.1
ENSG00000105643	-1.0096	-2.0133	0.00002201	0.0003	ARRDC2	arrestin domain containing 2 [ protein_cc	19	18001132	18014102	1	p13.11
ENSG00000277443	-1.0116	-2.0162	1.0566E-06	0.00001965	MARCKS	myristoylated alanine-rich prot protein_cc	6	1.14E+08	1.14E+08	1	q21
ENSG00000198835	-1.0141	-2.0197	0.008	0.043	GJC2	gap junction protein, gamma 2 protein_cc	1	2.28E+08	2.28E+08	1	q42.13
ENSG00000095587	-1.016	-2.0223	0.0000373	0.0005	TLL2	tolloid-like 2 [Source:HGNC Syr protein_cc	10	96364606	96513918	-1	q24.1
ENSG00000175274	-1.0163	-2.0227	3.0159E-06	4.9856E-05	TP53I11	tumor protein p53 inducible pr protein_cc	11	44885903	44951306	-1	p11.2
ENSG000000011347	-1.0166	-2.0231	6.7282E-07	1.3115E-05	SYT7	synaptotagmin VII [Source:HGI protein_cc	11	61515313	61581148	-1	q12.2
ENSG00000151967	-1.021	-2.0293	0.0076	0.0413	SCHIP1	schwannomin interacting prot protein_cc	3	1.6E+08	1.6E+08	1	q25.33

ENSG0000074181	-1.0219	-2.0306	3.323E-09	9.7962E-08	NOTCH3	notch 3 [Source:HGNC Symbol,protein_cc	19	15159038	15200981	-1	p13.12
ENSG00000242147	-1.0272	-2.038	0.0092	0.0475	RP13-463N16.6	lincRNA	10	5594991	5596118	-1	p15.1
ENSG00000102524	-1.028	-2.0391	0.0003	0.003	TNFSF13B	tumor necrosis factor (ligand) : protein_cc	13	1.08E+08	1.08E+08	1	q33.3
ENSG00000117586	-1.0306	-2.0429	0.0028	0.0186	TNFSF4	tumor necrosis factor (ligand) : protein_cc	1	1.73E+08	1.73E+08	-1	q25.1
ENSG00000066468	-1.0309	-2.0432	1.1946E-06	2.1874E-05	FGFR2	fibroblast growth factor receptor protein_cc	10	1.21E+08	1.22E+08	-1	q26.13
ENSG00000162981	-1.031	-2.0435	0.0000473	0.0006	FAM84A	family with sequence similarity protein_cc	2	14632686	14650814	1	p24.3
ENSG00000163884	-1.0315	-2.0442	0.0016	0.0118	KLF15	Kruppel-like factor 15 [Source: protein_cc	3	1.26E+08	1.26E+08	-1	q21.3
ENSG00000138160	-1.0317	-2.0445	0.0085	0.0449	KIF11	kinesin family member 11 [Sou protein_cc	10	92593286	92655395	1	q23.33
ENSG00000139055	-1.0318	-2.0446	1.875E-06	0.0000327	ERP27	endoplasmic reticulum protein protein_cc	12	14914035	14939082	-1	p12.3
ENSG00000120885	-1.0321	-2.045	1.9788E-05	0.0003	CLU	clusterin [Source:HGNC Symbo protein_cc	8	27596917	27615031	-1	p21.1
ENSG00000213160	-1.0336	-2.0471	4.9959E-09	1.4329E-07	KLHL23	kelch-like family member 23 [S protein_cc	2	1.7E+08	1.7E+08	1	q31.1
ENSG00000149554	-1.0337	-2.0473	0.0005	0.0043	CHEK1	checkpoint kinase 1 [Source:HK protein_cc	11	1.26E+08	1.26E+08	1	q24.2
ENSG00000228037	-1.0356	-2.0499	0.0005	0.0043	RP3-395M20.9	antisense	1	2581560	2584533	1	p36.32
ENSG00000144452	-1.036	-2.0506	3.3585E-05	0.0004	ABCA12	ATP-binding cassette, sub-fam protein_cc	2	2.15E+08	2.15E+08	-1	q35
ENSG00000233622	-1.0397	-2.0558	0.0025	0.0169	CYP2T2P	cytochrome P450, family 2, sul unitary_ps	19	40808525	40811390	-1	q13.2
ENSG00000111186	-1.0409	-2.0576	2.2061E-19	1.9451E-17	WNT5B	wingless-type MMTV integrati protein_cc	12	1529891	1647243	1	p13.33
ENSG00000100350	-1.0419	-2.0589	9.0085E-05	0.001	FOXRED2	FAD-dependent oxidoreductas protein_cc	22	36487190	36507101	-1	q12.3
ENSG00000145703	-1.0421	-2.0592	2.0494E-05	0.0003	IQGAP2	IQ motif containing GTPase act protein_cc	5	76403249	76708132	1	q13.3
ENSG00000185215	-1.0421	-2.0593	0.001	0.0081	TNFAIP2	tumor necrosis factor, alpha-in protein_cc	14	1.03E+08	1.03E+08	1	q32.32
ENSG00000185989	-1.0424	-2.0596	0.0008	0.0066	RASA3	RAS p21 protein activator 3 [Sc protein_cc	13	1.14E+08	1.14E+08	-1	q34
ENSG00000122012	-1.0424	-2.0596	0.0085	0.045	SV2C	synaptic vesicle glycoprotein 2 protein_cc	5	76083172	76353939	1	q13.3
ENSG00000154122	-1.0432	-2.0608	1.6018E-06	2.8351E-05	ANKH	ANKH inorganic pyrophosphati protein_cc	5	14704804	14871778	-1	p15.2
ENSG00000166250	-1.0435	-2.0612	0.0006	0.0054	CLMP	CXADR-like membrane protein protein_cc	11	1.23E+08	1.23E+08	-1	q24.1
ENSG00000109511	-1.0441	-2.062	0.0001	0.0013	ANXA10	annexin A10 [Source:HGNC Syr protein_cc	4	1.68E+08	1.68E+08	1	q32.3
ENSG00000106034	-1.0471	-2.0664	0.0009	0.0071	CPED1	cadherin-like and PC-esterase i protein_cc	7	1.21E+08	1.21E+08	1	q31.31
ENSG00000171084	-1.0495	-2.0698	0.0081	0.043	FAM86JP	family with sequence similarity transcriber	3	1.26E+08	1.26E+08	1	q21.2
ENSG00000181544	-1.0499	-2.0704	0.0079	0.0423	FANCB	Fanconi anemia, complementa protein_cc X		14843407	14873069	-1	p22.2
ENSG00000215447	-1.0501	-2.0707	4.8119E-05	0.0006	BX322557.10	processed_	21	45288052	45291738	1	q22.3
ENSG00000135363	-1.0506	-2.0714	2.1285E-07	4.6327E-06	LMO2	LIM domain only 2 (rhombotin protein_cc	11	33858576	33892289	-1	p13
ENSG00000156113	-1.0508	-2.0717	0.0061	0.0347	KCNMA1	potassium large conductance c protein_cc	10	76869601	77638595	-1	q22.3
ENSG00000076641	-1.0509	-2.0719	0.0095	0.0486	PAG1	phosphoprotein membrane an protein_cc	8	80967810	81112068	-1	q21.13
ENSG00000138735	-1.0531	-2.0749	0.0001	0.0015	PDE5A	phosphodiesterase 5A, cGMP-: protein_cc	4	1.19E+08	1.2E+08	-1	q26
ENSG00000183250	-1.0532	-2.0751	0.0015	0.0109	LINC01547	long intergenic non-protein co lincRNA	21	44932814	44939913	-1	q22.3
ENSG00000164687	-1.0546	-2.0771	0.001	0.0082	FABP5	fatty acid binding protein 5 (ps protein_cc	8	81280363	81284777	1	q21.13
ENSG00000185479	-1.0557	-2.0787	0.0037	0.0232	KRT6B	keratin 6B [Source:HGNC Symt protein_cc	12	52446651	52452126	-1	q13.13
ENSG00000149972	-1.0574	-2.0812	0.0096	0.0492	CNTN5	contactin 5 [Source:HGNC Sym protein_cc	11	99020953	1E+08	1	q22.1
ENSG00000171236	-1.0577	-2.0817	8.2693E-09	2.3023E-07	LRG1	leucine-rich alpha-2-glycoprote protein_cc	19	4536409	4540474	-1	p13.3
ENSG00000280153	-1.0593	-2.0839	0.0017	0.0123	RP11-876N24.3	TEC	16	10933903	10936280	1	p13.13
ENSG00000174125	-1.0598	-2.0846	2.2657E-08	5.7838E-07	TLR1	toll-like receptor 1 [Source:HG protein_cc	4	38790677	38856817	-1	p14
ENSG00000154529	-1.0631	-2.0894	2.9294E-07	6.1848E-06	CNTNAP3B	contactin associated protein-lil protein_cc	9	41890314	42129510	-1	p11.2
ENSG00000184347	-1.0631	-2.0894	0.0008	0.0069	SLIT3	slit homolog 3 (Drosophila) [Sc protein_cc	5	1.69E+08	1.69E+08	-1	q35.1



ENSG00000112294	-1.0646	-2.0916	1.762E-17	1.3316E-15	ALDH5A1	aldehyde dehydrogenase 5 fan protein_cc	6	24494852	24537207	1	p22.3
ENSG00000102287	-1.0648	-2.0919	1.5816E-05	0.0002	GABRE	gamma-aminobutyric acid (GA protein_ccX		1.52E+08	1.52E+08	-1	q28
ENSG00000135697	-1.0652	-2.0925	0.0043	0.0263	BCO1	beta-carotene oxygenase 1 [Sc protein_cc	16	81238448	81291142	1	q23.2
ENSG00000132932	-1.0656	-2.093	0.0036	0.0228	ATP8A2	ATPase, aminophospholipid tr; protein_cc	13	25372071	26025851	1	q12.13
ENSG00000182612	-1.0663	-2.0941	7.7889E-05	0.0009	TSPAN10	tetraspanin 10 [Source:HGNC; protein_cc	17	81637171	81648749	1	q25.3
ENSG00000196542	-1.0667	-2.0947	4.0917E-06	6.5757E-05	SPTSSB	serine palmitoyltransferase, sn protein_cc	3	1.61E+08	1.61E+08	-1	q26.1
ENSG00000068078	-1.0717	-2.102	5.0644E-05	0.0006	FGFR3	fibroblast growth factor recept protein_cc	4	1793307	1808872	1	p16.3
ENSG00000175318	-1.0767	-2.1091	9.1272E-05	0.001	GRAMD2	GRAM domain containing 2 [Sc protein_cc	15	72159807	72197785	-1	q23
ENSG00000225243	-1.0778	-2.1108	0.0019	0.0136	RP1-127D3.4	antisense	1	1.71E+08	1.71E+08	-1	q24.3
ENSG00000164125	-1.0784	-2.1116	0.0026	0.0175	FAM198B	family with sequence similarity protein_cc	4	1.58E+08	1.58E+08	-1	q32.1
ENSG00000173598	-1.0823	-2.1174	4.0023E-15	2.5072E-13	NUDT4	nudix (nucleoside diphosphate protein_cc	12	93377883	93408146	1	q22
ENSG00000156475	-1.0838	-2.1196	0.0011	0.0089	PPP2R2B	protein phosphatase 2, regulat protein_cc	5	1.47E+08	1.47E+08	-1	q32
ENSG00000103534	-1.0876	-2.1252	0.0002	0.0018	TMC5	transmembrane channel-like 5 protein_cc	16	19410496	19499113	1	p12.3
ENSG00000168071	-1.0897	-2.1283	5.3515E-11	2.0756E-09	CCDC88B	coiled-coil domain containing; protein_cc	11	64340223	64357534	1	q13.1
ENSG00000224616	-1.0904	-2.1294	0.0076	0.0412	RTCA-AS1	RTCA antisense RNA 1 [Source: antisense	1	1E+08	1E+08	-1	p21.2
ENSG00000108582	-1.0924	-2.1323	1.1124E-09	3.5784E-08	CPD	carboxypeptidase D [Source:Hi protein_cc	17	30378905	30469989	1	q11.2
ENSG00000167653	-1.0928	-2.1329	1.7368E-08	4.5495E-07	PSCA	prostate stem cell antigen [Sou protein_cc	8	1.43E+08	1.43E+08	1	q24.3
ENSG00000230937	-1.0947	-2.1357	4.4927E-13	2.2398E-11	MIR205HG	MIR205 host gene (non-protein processed_	1	2.09E+08	2.09E+08	1	q32.2
ENSG00000115009	-1.0952	-2.1365	0.0025	0.017	CCL20	chemokine (C-C motif) ligand 2 protein_cc	2	2.28E+08	2.28E+08	1	q36.3
ENSG00000103056	-1.0965	-2.1384	0.0004	0.0036	SMPD3	sphingomyelin phosphodiester protein_cc	16	68358325	68448688	-1	q22.1
ENSG00000262714	-1.098	-2.1406	0.0011	0.0084	RP11-44F14.8	lincRNA	16	53386944	53389085	1	q12.2
ENSG00000229124	-1.1028	-2.1477	0.0074	0.0405	VIM-AS1	VIM antisense RNA 1 [Source: antisense	10	17214239	17229985	-1	p13
ENSG00000164626	-1.1035	-2.1487	1.6136E-05	0.0002	KCNK5	potassium channel, subfamily; protein_cc	6	39188973	39229450	-1	p21.2
ENSG00000259420	-1.1046	-2.1505	0.0028	0.0184	RP11-307C19.2	lincRNA	15	77568970	77608888	1	q24.3
ENSG00000023171	-1.1058	-2.1522	3.8461E-05	0.0005	GRAMD1B	GRAM domain containing 1B [; protein_cc	11	1.24E+08	1.24E+08	1	q24.1
ENSG00000138778	-1.1085	-2.1563	0.0058	0.0332	CENPE	centromere protein E, 312kDa protein_cc	4	1.03E+08	1.03E+08	-1	q24
ENSG00000198734	-1.1089	-2.1569	0.0076	0.0414	F5	coagulation factor V (proaccele protein_cc	1	1.7E+08	1.7E+08	-1	q24.2
ENSG00000257354	-1.1099	-2.1583	0.0017	0.0121	RP11-631N16.2	lincRNA	12	62602752	62622213	1	q14.1
ENSG00000227038	-1.1116	-2.1608	0.0015	0.0109	AC005077.12	transcriber	7	76090431	76108779	-1	q11.23
ENSG00000120457	-1.1118	-2.1611	9.8889E-08	2.2744E-06	KCNJ5	potassium inwardly-rectifying; protein_cc	11	1.29E+08	1.29E+08	1	q24.3
ENSG00000198125	-1.1118	-2.1612	0.0048	0.0285	MB	myoglobin [Source:HGNC Sym] protein_cc	22	35606764	35637951	-1	q12.3
ENSG00000250320	-1.1119	-2.1612	0.0056	0.0325	CTD-2269F5.1	antisense	5	84384427	84490765	1	q14.3
ENSG00000112293	-1.1122	-2.1618	0.0006	0.0052	GPLD1	glycosylphosphatidylinositol s; protein_cc	6	24424565	24495205	-1	p22.3
ENSG00000259264	-1.113	-2.1629	0.0005	0.0046	RP11-60L3.1	antisense	15	74202705	74221557	1	q24.1
ENSG00000138411	-1.1143	-2.1648	1.0073E-10	3.7689E-09	HECW2	HECT, C2 and WW domain con protein_cc	2	1.96E+08	1.97E+08	-1	q32.3
ENSG00000185862	-1.115	-2.166	0.0061	0.0347	EVI2B	ecotropic viral integration site protein_cc	17	31303766	31314112	-1	q11.2
ENSG00000267272	-1.1178	-2.1701	0.0048	0.0286	LINC01140	long intergenic non-protein co lincRNA	1	87129765	87169198	1	p22.3
ENSG00000180532	-1.1199	-2.1733	0.0054	0.0316	ZSCAN4	zinc finger and SCAN domain c protein_cc	19	57668935	57679152	1	q13.43
ENSG00000183760	-1.1201	-2.1736	0.0007	0.0063	PAPL;	Iron/zinc purple acid phosphat protein_cc	19	39083913	39111493	1	q13.2
ENSG00000157703	-1.1222	-2.1767	0.0092	0.0476	SVOPL	SVOP-like [Source:HGNC Symb protein_cc	7	1.39E+08	1.39E+08	-1	q34
ENSG00000255071	-1.1227	-2.1776	0.0011	0.0084	SAA2-SAA4	SAA2-SAA4 readthrough [Sour protein_cc	11	18231423	18248635	-1	p15.1

ENSG00000151715	-1.1228	-2.1777	0.0019	0.0137	TMEM45B	transmembrane protein 45B [S protein_cc	11	1.3E+08	1.3E+08	1	q24.3
ENSG00000229647	-1.1265	-2.1833	0.0038	0.0239	AC007879.7	lincRNA	2	2.07E+08	2.07E+08	1	q33.3
ENSG00000181619	-1.1282	-2.1858	0.0049	0.0289	GPR135	G protein-coupled receptor 13 protein_cc	14	59429022	59465342	-1	q23.1
ENSG00000137841	-1.1322	-2.1919	0.0033	0.0211	PLCB2	phospholipase C, beta 2 [Source protein_cc	15	40278176	40307935	-1	q15.1
ENSG00000141485	-1.1353	-2.1967	0.0091	0.0473	SLC13A5	solute carrier family 13 (sodium protein_cc	17	6684713	6713567	-1	p13.1
ENSG00000019186	-1.1358	-2.1973	0.0024	0.0166	CYP24A1	cytochrome P450, family 24, sub protein_cc	20	54153449	54173973	-1	q13.2
ENSG00000186684	-1.1363	-2.1982	9.9914E-07	1.8728E-05	CYP27C1	cytochrome P450, family 27, sub protein_cc	2	1.27E+08	1.27E+08	-1	q14.3
ENSG00000181143	-1.1375	-2.2001	5.6279E-08	1.3422E-06	MUC16	mucin 16, cell surface associated protein_cc	19	8848844	8981342	-1	p13.2
ENSG000000176208	-1.1381	-2.2009	0.0025	0.0167	ATAD5	ATPase family, AAA domain containing protein_cc	17	30831970	30895869	-1	q11.2
ENSG00000007062	-1.1406	-2.2047	0.00005729	0.0007	PROM1	prominin 1 [Source:HGNC Symbol; protein_cc	4	15963076	16084378	-1	p15.32
ENSG00000214456	-1.1422	-2.2072	0.0026	0.0173	PLIN5	perilipin 5 [Source:HGNC Symbol; protein_cc	19	4522531	4535224	-1	p13.3
ENSG00000234076	-1.1432	-2.2088	0.0049	0.029	TPRG1-AS1	TPRG1 antisense RNA 1 [Source: lincRNA	3	1.89E+08	1.89E+08	-1	q28
ENSG00000100842	-1.1447	-2.2111	0.0062	0.0352	EF5	embryonal Fyn-associated substrate protein_cc	14	23356402	23365752	-1	q11.2
ENSG00000038295	-1.1451	-2.2115	4.0465E-07	8.3131E-06	TLL1	toll-like receptor 1 [Source:HGNC Symbol; protein_cc	4	1.66E+08	1.66E+08	1	q32.3
ENSG00000136492	-1.1486	-2.2169	0.0018	0.0131	BRIP1	BRCA1 interacting protein C-terminal protein_cc	17	61681266	61863521	-1	q23.2
ENSG00000158470	-1.1501	-2.2193	2.8842E-10	1.0134E-08	B4GALT5	UDP-Gal:beta-GlcNAc 4-epimerase protein_cc	20	49632945	49713878	-1	q13.13
ENSG00000147036	-1.1511	-2.2208	1.4685E-06	2.6209E-05	LANCL3	LanC lantibiotic synthetase core protein_ccX		37571569	37684463	1	p21.1
ENSG00000165887	-1.1513	-2.2211	0.0045	0.027	ANKRD2	ankyrin repeat domain 2 (strapped protein_cc	10	97572499	97583884	1	q24.2
ENSG00000164929	-1.1516	-2.2216	0.0004	0.004	BAALC	brain and acute leukemia, cytochrome protein_cc	8	1.03E+08	1.03E+08	1	q22.3
ENSG00000260934	-1.1545	-2.226	0.0025	0.017	CTA-363E6.7	antisense	16	19501689	19502286	1	p12.3
ENSG00000144792	-1.1581	-2.2317	0.0024	0.0164	ZNF660	zinc finger protein 660 [Source: protein_cc	3	44578223	44599694	1	p21.31
ENSG00000234771	-1.1586	-2.2324	2.7499E-07	5.8233E-06	SLC25A25-AS1	SLC25A25 antisense RNA 1 [Source: antisense	9	1.28E+08	1.28E+08	-1	q34.11
ENSG00000082196	-1.1602	-2.235	0.0033	0.0209	C1QTNF3	C1q and tumor necrosis factor protein_cc	5	34019448	34043832	-1	p13.2
ENSG00000183508	-1.1608	-2.2358	9.1224E-07	1.7252E-05	FAM46C	family with sequence similarity 147 protein_cc	1	1.18E+08	1.18E+08	1	p12
ENSG00000170915	-1.1623	-2.2381	3.274E-06	5.3703E-05	PAQR8	progesterone and adiponectin receptor protein_cc	6	52361421	52407777	1	p12.2
ENSG00000105894	-1.1665	-2.2447	0.0082	0.0435	PTN	pleiotrophin [Source:HGNC Symbol; protein_cc	7	1.37E+08	1.37E+08	-1	q33
ENSG00000086548	-1.1681	-2.2472	4.5766E-08	1.1103E-06	CEACAM6	carcinoembryonic antigen-related protein_cc	19	41750977	41772208	1	q13.2
ENSG00000198435	-1.1683	-2.2474	2.1943E-10	7.8698E-09	NRARP	NOTCH-regulated ankyrin repeat protein_cc	9	1.37E+08	1.37E+08	-1	q34.3
ENSG00000262185	-1.1684	-2.2476	0.0095	0.0487	RP11-462G12.1	sense	16	3947609	3950444	-1	p13.3
ENSG00000221817	-1.1722	-2.2535	2.8309E-06	4.7125E-05	PPP3CB-AS1	PPP3CB antisense RNA 1 (head processed) protein_cc	10	73495525	73520070	1	q22.2
ENSG00000107954	-1.1722	-2.2536	0.0008	0.007	NEURL1	neuralized E3 ubiquitin protein-protein_cc	10	1.03E+08	1.04E+08	1	q24.33
ENSG00000118523	-1.1726	-2.2542	7.5909E-06	0.0001	CTGF	connective tissue growth factor protein_cc	6	1.32E+08	1.32E+08	-1	q23.2
ENSG00000109452	-1.1746	-2.2573	1.1595E-16	8.3017E-15	INPP4B	inositol polyphosphate 4-phosphatase protein_cc	4	1.42E+08	1.43E+08	-1	q31.21
ENSG00000093134	-1.175	-2.2579	0.0005	0.0046	VNN3	vanin 3 [Source:HGNC Symbol; protein_cc	6	1.33E+08	1.33E+08	-1	q23.2
ENSG00000228594	-1.1769	-2.2609	1.7062E-08	4.4819E-07	C1orf233	chromosome 1 open reading frame protein_cc	1	1598011	1600096	-1	p36.33
ENSG00000167701	-1.1783	-2.2632	0.0075	0.0408	GPT	glutamic-pyruvate transaminase protein_cc	8	1.45E+08	1.45E+08	1	q24.3
ENSG00000170381	-1.1803	-2.2662	0.0012	0.0091	SEMA3E	sema domain, immunoglobulin-like protein_cc	7	83363906	83649010	-1	q21.11
ENSG00000125726	-1.1804	-2.2663	0.0047	0.0282	CD70	CD70 molecule [Source:HGNC Symbol; protein_cc	19	6583183	6604103	-1	p13.3
ENSG00000101425	-1.1841	-2.2722	0.0007	0.0062	BPI	bactericidal/permeability-increasing protein_cc	20	38260149	38337505	1	q11.23
ENSG00000239521	-1.1862	-2.2756	3.8053E-11	1.5097E-09	GATS	GATS, stromal antigen 3 oppositely protein_cc	7	1E+08	1E+08	-1	q22.1
ENSG00000254153	-1.1874	-2.2774	0.0006	0.0052	CTA-398F10.2	lincRNA	8	8456909	8461337	-1	p23.1

ENSG00000185267	-1.1889	-2.2798	0.0038	0.0236	CDNF	cerebral dopamine neurotropl protein_cc	10	14819250	14838575	-1	p13
ENSG00000134853	-1.1909	-2.283	0.0001	0.0012	PDGFRA	platelet-derived growth factor protein_cc	4	54229097	54298247	1	q12
ENSG00000198515	-1.192	-2.2846	2.2459E-09	6.8108E-08	CNGA1	cyclic nucleotide gated channe protein_cc	4	47935977	48016672	-1	p12
ENSG00000004399	-1.1929	-2.2862	0.0006	0.0055	PLXND1	plexin D1 [Source:HGNC Symbi protein_cc	3	1.3E+08	1.3E+08	-1	q22.1
ENSG00000177335	-1.1953	-2.2899	0.0032	0.0207	C8orf31	chromosome 8 open reading fi protein_cc	8	1.43E+08	1.43E+08	1	q24.3
ENSG00000160255	-1.1965	-2.2919	5.3406E-05	0.0006	ITGB2	integrin, beta 2 (complement c protein_cc	21	44885953	44931989	-1	q22.3
ENSG00000137812	-1.1992	-2.2961	0.0074	0.0404	CASC5	cancer susceptibility candidate protein_cc	15	40594020	40664342	1	q15.1
ENSG00000260372	-1.2026	-2.3016	0.0004	0.0039	AQP4-AS1	AQP4 antisense RNA 1 [Source antisense	18	26655742	27190698	1	q11.2
ENSG00000038427	-1.2059	-2.3068	0.0096	0.0493	VCAN	versican [Source:HGNC Symbi protein_cc	5	83471465	83582303	1	q14.2
ENSG00000128596	-1.2064	-2.3076	0.0007	0.0057	CCDC136	coiled-coil domain containing : protein_cc	7	1.29E+08	1.29E+08	1	q32.1
ENSG00000267710	-1.2064	-2.3076	0.0037	0.023	AC006116.20	HCG1811308 [ECO:0000313]E protein_cc	19	56272769	56310450	1	q13.43
ENSG00000184730	-1.2071	-2.3087	0.003	0.0194	APOBR	apolipoprotein B receptor [Sou protein_cc	16	28494649	28498970	1	p12.1
ENSG00000131016	-1.2097	-2.3129	0.0078	0.0419	AKAP12	A kinase (PRKA) anchor proteir protein_cc	6	1.51E+08	1.51E+08	1	q25.1
ENSG00000233695	-1.2114	-2.3155	0.0011	0.0089	GAS6-AS1	GAS6 antisense RNA 1 [Source antisense	13	1.14E+08	1.14E+08	1	q34
ENSG00000204252	-1.2129	-2.3181	3.0301E-07	6.3693E-06	HLA-DOA	major histocompatibility comp protein_cc	6	33004178	33009612	-1	p21.32
ENSG00000233098	-1.2131	-2.3184	0.0001	0.0015	CCDC144NL-AS1	CCDC144NL antisense RNA 1 [antisense	17	20868433	21002276	1	p11.2
ENSG00000259925	-1.2137	-2.3193	0.0083	0.0441	CTA-363E6.2	lincRNA	16	19343647	19401693	-1	p12.3
ENSG00000170899	-1.217	-2.3246	1.9173E-06	3.3302E-05	GSTA4	glutathione S-transferase alph: protein_cc	6	52977948	52995378	-1	p12.2
ENSG00000236740	-1.217	-2.3246	0.0005	0.0047	RP11-411K7.1	lincRNA	6	53930022	53997667	1	p12.1
ENSG00000128849	-1.2212	-2.3314	6.0443E-06	9.3204E-05	CGNL1	cingulin-like 1 [Source:HGNC S protein_cc	15	57375967	57550727	1	q21.3
ENSG00000129646	-1.2234	-2.335	0.0007	0.0057	QRICH2	glutamine rich 2 [Source:HGNC protein_cc	17	76274049	76307680	-1	q25.1
ENSG00000138670	-1.2247	-2.337	1.1514E-06	2.1138E-05	RASGEF1B	RasGEF domain family, membe protein_cc	4	81426393	82044244	-1	q21.22
ENSG00000162426	-1.2264	-2.3398	0.0064	0.0361	SLC45A1	solute carrier family 45, memb protein_cc	1	8317826	8344167	1	p36.23
ENSG00000105131	-1.2266	-2.3402	1.094E-08	2.9678E-07	EPHX3	epoxide hydrolase 3 [Source:H protein_cc	19	15226919	15233435	-1	p13.12
ENSG00000259120	-1.2273	-2.3413	0.0089	0.0465	SMIM6	small integral membrane prote protein_cc	17	75646243	75647977	1	q25.1
ENSG00000144837	-1.2295	-2.3448	0.0091	0.0475	PLA1A	phospholipase A1 member A [ protein_cc	3	1.2E+08	1.2E+08	1	q13.33
ENSG00000175344	-1.2301	-2.3459	2.9819E-06	4.9461E-05	CHRNA7	cholinergic receptor, nicotinic, protein_cc	15	32030488	32172521	1	q13.3
ENSG00000134245	-1.2338	-2.3519	8.7431E-06	0.0001	WNT2B	wingless-type MMTV integrati protein_cc	1	1.12E+08	1.13E+08	1	p13.2
ENSG00000174059	-1.2352	-2.3542	0.0086	0.0452	CD34	CD34 molecule [Source:HGNC protein_cc	1	2.08E+08	2.08E+08	-1	q32.2
ENSG00000256612	-1.2395	-2.3612	8.5334E-11	3.2308E-09	CYP2B7P	cytochrome P450, family 2, sul transcriber	19	40924219	40950660	1	q13.2
ENSG00000197872	-1.2406	-2.363	7.5712E-08	1.7757E-06	FAM49A	family with sequence similarity protein_cc	2	16549459	16666331	-1	p24.2
ENSG00000132182	-1.242	-2.3652	4.9507E-05	0.0006	NUP210	nucleoporin 210kDa [Source:H protein_cc	3	13316235	13420309	-1	p25.1
ENSG00000148344	-1.2432	-2.3672	2.7023E-07	5.7435E-06	PTGES	prostaglandin E synthase [Sou protein_cc	9	1.3E+08	1.3E+08	-1	q34.11
ENSG00000159784	-1.2443	-2.3691	0.0008	0.0064	FAM131B	family with sequence similarity protein_cc	7	1.43E+08	1.43E+08	-1	q34
ENSG00000273257	-1.2459	-2.3717	0.0085	0.0451	RP11-177J6.1	lincRNA	4	55387949	55388271	1	q12
ENSG00000177627	-1.2464	-2.3725	0.0007	0.0062	C12orf54	chromosome 12 open reading protein_cc	12	48482503	48496512	1	q13.11
ENSG00000235321	-1.2465	-2.3727	0.0078	0.0421	AC007556.3	antisense	2	1.69E+08	1.69E+08	1	q31.1
ENSG00000101307	-1.247	-2.3734	0.0079	0.0426	SIRPB1	signal-regulatory protein beta protein_cc	20	1563521	1620061	-1	p13
ENSG00000245080	-1.2478	-2.3747	0.0085	0.045	RP11-320N21.1	antisense	8	95066808	95073182	-1	q22.1
ENSG00000183775	-1.2481	-2.3752	0.0049	0.029	KCTD16	potassium channel tetrameriz: protein_cc	5	1.44E+08	1.44E+08	1	q31.3
ENSG00000164825	-1.2489	-2.3766	2.9508E-07	6.2164E-06	DEFB1	defensin, beta 1 [Source:HGNC protein_cc	8	6870575	6878022	-1	p23.1

ENSG00000094804	-1.2496	-2.3778	0.0007	0.0061	CDC6	cell division cycle 6 [Source:HG protein_cc	17	40287633	40304657	1	q21.2
ENSG00000182463	-1.2497	-2.3779	6.9351E-07	1.3456E-05	TSHZ2	teashirt zinc finger homeobox protein_cc	20	52972407	53495330	1	q13.2
ENSG00000172137	-1.125	-2.3785	0.0087	0.0455	CALB2	calbindin 2 [Source:HGNC Sym protein_cc	16	71358713	71390438	1	q22.2
ENSG00000256268	-1.2501	-2.3786	0.0078	0.0422	RP11-221N13.3	lincRNA	12	65602869	65612997	1	q14.3
ENSG00000162804	-1.2523	-2.3822	1.7051E-07	3.7758E-06	SNED1	sushi, nidogen and EGF-like do protein_cc	2	2.41E+08	2.41E+08	1	q37.3
ENSG00000111912	-1.254	-2.3851	3.1306E-10	1.0919E-08	NCOA7	nuclear receptor coactivator 7 protein_cc	6	1.26E+08	1.26E+08	1	q22.31
ENSG00000273132	-1.2546	-2.386	1.2307E-05	0.0002	RP11-350J20.12	antisense	6	1.5E+08	1.5E+08	1	q25.1
ENSG00000145423	-1.2567	-2.3894	0.0097	0.0497	SFRP2	secreted frizzled-related prote protein_cc	4	1.54E+08	1.54E+08	-1	q31.3
ENSG00000224093	-1.257	-2.39	0.0049	0.0292	RP5-1033H22.2	antisense	1	93592199	93605573	-1	p22.1
ENSG00000121895	-1.2578	-2.3914	0.0012	0.0095	TMEM156	transmembrane protein 156 [S protein_cc	4	38966744	39032922	-1	p14
ENSG00000106258	-1.2586	-2.3927	0.001	0.0078	CYP3A5	cytochrome P450, family 3, sul protein_cc	7	99648194	99679998	-1	q22.1
ENSG00000162373	-1.2594	-2.394	7.5913E-05	0.0009	BEND5	BEN domain containing 5 [Sou protein_cc	1	48727523	48776969	-1	p33
ENSG00000081189	-1.2642	-2.4019	0.0007	0.0058	MEF2C	myocyte enhancer factor 2C [S protein_cc	5	88718158	88904105	-1	q14.3
ENSG00000084674	-1.2648	-2.4029	0.0054	0.0314	APOB	apolipoprotein B [Source:HGN protein_cc	2	21001429	21044073	-1	p24.1
ENSG00000176641	-1.2654	-2.4039	1.3303E-26	1.8906E-24	RNF152	ring finger protein 152 [Source protein_cc	18	61808063	61894247	-1	q21.33
ENSG00000263325	-1.2682	-2.4087	0.0013	0.0099	LA16c-325D7.1	antisense	16	2857898	2859726	1	p13.3
ENSG00000111206	-1.2686	-2.4092	0.0083	0.0442	FOXM1	forkhead box M1 [Source:HGN protein_cc	12	2857681	2877040	-1	p13.33
ENSG00000133466	-1.2711	-2.4135	4.1949E-05	0.0005	C1QTNF6	C1q and tumor necrosis factor protein_cc	22	37180167	37199385	-1	q12.3
ENSG00000064309	-1.2727	-2.4161	4.1558E-15	2.5948E-13	CDON	cell adhesion associated, onco protein_cc	11	1.26E+08	1.26E+08	-1	q24.2
ENSG00000076382	-1.2734	-2.4173	0.0059	0.0337	SPAG5	sperm associated antigen 5 [Sc protein_cc	17	28577565	28599279	-1	q11.2
ENSG00000204930	-1.2754	-2.4206	0.0063	0.0355	FAM221B	family with sequence similarity protein_cc	9	35816391	35828747	-1	p13.3
ENSG00000204531	-1.2755	-2.4208	0.0085	0.0449	POU5F1	POU class 5 homeobox 1 [Sour protein_cc	6	31164337	31180731	-1	p21.33
ENSG00000100784	-1.2762	-2.4219	1.3941E-09	4.4397E-08	RPS6KA5	ribosomal protein S6 kinase, 9L protein_cc	14	90847862	91060636	-1	q32.11
ENSG00000163810	-1.2773	-2.4239	0.0048	0.0286	TGM4	transglutaminase 4 [Source:HG protein_cc	3	44874608	44914990	1	p21.31
ENSG00000253417	-1.2775	-2.4242	9.1579E-08	2.1165E-06	RP11-109J4.1	lincRNA	5	1.61E+08	1.61E+08	-1	q34
ENSG00000155629	-1.2796	-2.4277	5.0479E-06	7.9383E-05	PIK3AP1	phosphoinositide-3-kinase ada protein_cc	10	96593312	96720514	-1	q24.1
ENSG00000120693	-1.2802	-2.4287	0.0004	0.004	SMAD9	SMAD family member 9 [Sourc protein_cc	13	36844831	36920765	-1	q13.3
ENSG00000131378	-1.2803	-2.4289	4.6433E-08	1.125E-06	RFTN1	raftlin, lipid raft linker 1 [Sourc protein_cc	3	16313574	16514026	-1	p24.3
ENSG00000152213	-1.2811	-2.4303	0.0083	0.0439	ARL11	ADP-ribosylation factor-like 11 protein_cc	13	49628299	49633872	1	q14.2
ENSG00000137310	-1.2817	-2.4313	0.0022	0.015	TCF19	transcription factor 19 [Source protein_cc	6	31158542	31167159	1	p21.33
ENSG00000171557	-1.2875	-2.441	0.008	0.0427	FGG	fibrinogen gamma chain [Sour protein_cc	4	1.55E+08	1.55E+08	-1	q32.1
ENSG00000172985	-1.2904	-2.4459	0.0015	0.0108	SH3RF3	SH3 domain containing ring fin protein_cc	2	1.09E+08	1.1E+08	1	q13
ENSG00000100055	-1.2917	-2.4482	0.0035	0.0222	CYTH4	cytohesin 4 [Source:HGNC Sym protein_cc	22	37282027	37315345	1	q13.1
ENSG00000108797	-1.2952	-2.454	1.2531E-07	2.8475E-06	CNTNAP1	contactin associated protein 1 protein_cc	17	42682613	42699814	1	q21.2
ENSG00000187193	-1.2964	-2.4561	1.664E-06	2.9314E-05	MT1X	metallothionein 1X [Source:HG protein_cc	16	56682424	56684196	1	q13
ENSG00000170312	-1.2967	-2.4567	0.0046	0.0277	CDK1	cyclin-dependent kinase 1 [Sou protein_cc	10	60778331	60794852	1	q21.2
ENSG00000140807	-1.2972	-2.4576	0.0008	0.0066	NKD1	naked cuticle homolog 1 (Dros protein_cc	16	50548330	50640739	1	q12.1
ENSG00000181458	-1.2983	-2.4594	0.0000312	0.0004	TMEM45A	transmembrane protein 45A [S protein_cc	3	1E+08	1.01E+08	1	q12.2
ENSG00000003137	-1.2983	-2.4594	0.0016	0.012	CYP26B1	cytochrome P450, family 26, st protein_cc	2	72129238	72148038	-1	p13.2
ENSG00000129173	-1.299	-2.4606	0.0035	0.0223	E2F8	E2F transcription factor 8 [Sou protein_cc	11	19224063	19241620	-1	p15.1
ENSG00000165507	-1.3001	-2.4625	1.3328E-07	3.0003E-06	C10orf10	chromosome 10 open reading protein_cc	10	44970981	44978810	-1	q11.21

ENSG00000145287	-1.3007	-2.4635	0.001	0.0081	PLAC8	placenta-specific 8 [Source:HG protein_cc	4	83090048	83137075	-1	q21.22
ENSG00000170989	-1.3016	-2.465	0.0014	0.0107	S1PR1	sphingosine-1-phosphate rece  protein_cc	1	1.01E+08	1.01E+08	1	p21.2
ENSG00000170458	-1.3035	-2.4682	6.9387E-07	1.3456E-05	CD14	CD14 molecule [Source:HGNC protein_cc	5	1.41E+08	1.41E+08	-1	q31.3
ENSG00000233723	-1.3036	-2.4684	0.0052	0.0305	LINC01122	long intergenic non-protein co lincRNA	2	58427799	59063766	1	p16.1
ENSG00000170122	-1.3046	-2.4702	0.0083	0.0442	FOXD4	forkhead box D4 [Source:HGNt protein_cc	9	116231	118204	-1	p24.3
ENSG00000169704	-1.305	-2.4708	0.0094	0.0484	GP9	glycoprotein IX (platelet) [Sour protein_cc	3	1.29E+08	1.29E+08	1	q21.3
ENSG00000145824	-1.3055	-2.4717	2.9253E-05	0.0004	CXCL14	chemokine (C-X-C motif) liganc protein_cc	5	1.36E+08	1.36E+08	-1	q31.1
ENSG00000049540	-1.3059	-2.4724	0.0004	0.0038	ELN	elastin [Source:HGNC Symbol; protein_cc	7	74027789	74069907	1	q11.23
ENSG00000277182	-1.3088	-2.4774	0.0052	0.0307	CTB-58E17.5	antisense	17	38749360	38751457	1	q12
ENSG00000174371	-1.3101	-2.4796	0.0062	0.0351	EXO1	exonuclease 1 [Source:HGNC S protein_cc	1	2.42E+08	2.42E+08	1	q43
ENSG00000172201	-1.3162	-2.4901	3.4872E-07	7.2421E-06	ID4	inhibitor of DNA binding 4, dor protein_cc	6	19837386	19840684	1	p22.3
ENSG00000146001	-1.317	-2.4914	0.0058	0.0331	PCDHB18	protocadherin beta 18 pseudo,transcriber	5	1.41E+08	1.41E+08	1	q31.3
ENSG00000238042	-1.3188	-2.4947	0.0066	0.0369	RP11-815M8.1	lincRNA	1	2.22E+08	2.22E+08	-1	q41
ENSG00000141738	-1.3195	-2.4957	2.439E-16	1.7014E-14	GRB7	growth factor receptor-bound protein_cc	17	39737927	39747291	1	q12
ENSG00000104419	-1.3209	-2.4983	7.4935E-05	0.0009	NDRG1	N-myc downstream regulated protein_cc	8	1.33E+08	1.33E+08	-1	q24.22
ENSG00000167779	-1.3211	-2.4986	1.7371E-13	9.0885E-12	IGFBP6	insulin-like growth factor bindi protein_cc	12	53097436	53102345	1	q13.13
ENSG00000256542	-1.322	-2.5002	0.0085	0.0449	RP13-895J2.3	antisense	12	1.32E+08	1.32E+08	1	q24.33
ENSG00000065534	-1.3229	-2.5017	8.8981E-07	1.6844E-05	MYLK	myosin light chain kinase [Sour protein_cc	3	1.24E+08	1.24E+08	-1	q21.1
ENSG00000138185	-1.3244	-2.5043	0.0026	0.0172	ENTPD1	ectonucleoside triphosphate d protein_cc	10	95711779	95877266	1	q24.1
ENSG00000164176	-1.3248	-2.505	6.9076E-06	0.0001	EDIL3	EGF-like repeats and discoidin protein_cc	5	83940554	84384793	-1	q14.3
ENSG00000130234	-1.325	-2.5054	9.7437E-14	5.2866E-12	ACE2	angiotensin I converting enzym protein_cc X		15561033	15602148	-1	p22.2
ENSG00000114455	-1.3255	-2.5062	0.0026	0.0175	HHLA2	HERV-H LTR-associating 2 [Sou protein_cc	3	1.08E+08	1.08E+08	1	q13.13
ENSG00000145819	-1.3282	-2.5109	3.6632E-13	1.8553E-11	ARHGAP26	Rho GTPase activating protein protein_cc	5	1.43E+08	1.43E+08	1	q31.3
ENSG00000240859	-1.3288	-2.512	1.3016E-12	6.1354E-11	AC093627.10	lincRNA	7	149597	155465	1	p22.3
ENSG00000244242	-1.3305	-2.5149	3.2608E-07	6.824E-06	IFITM10	interferon induced transmemt protein_cc	11	1732410	1750591	-1	p15.5
ENSG00000260877	-1.3315	-2.5166	0.0084	0.0447	RP11-211G23.2	lincRNA	11	69371463	69372511	1	q13.3
ENSG00000028277	-1.3315	-2.5167	0.0017	0.0125	POU2F2	POU class 2 homeobox 2 [Sour protein_cc	19	42086110	42196585	-1	q13.2
ENSG00000136982	-1.3336	-2.5203	0.0021	0.0147	DSCC1	DNA replication and sister chr protein_cc	8	1.2E+08	1.2E+08	-1	q24.12
ENSG00000102962	-1.3372	-2.5266	0.0013	0.0096	CCL22	chemokine (C-C motif) ligand 2 protein_cc	16	57358772	57366190	1	q21
ENSG00000124097	-1.3375	-2.5271	0.0072	0.0394	HMGB1P1	high mobility group box 1 pseu processed_	20	57488392	57489027	-1	q13.31
ENSG00000091482	-1.3434	-2.5374	0.0016	0.0117	SMPX	small muscle protein, X-linked protein_cc X		21705972	21758163	-1	p22.12
ENSG00000204128	-1.3435	-2.5377	0.001	0.0081	C2orf72	chromosome 2 open reading fi protein_cc	2	2.31E+08	2.31E+08	1	q37.1
ENSG00000179799	-1.3461	-2.5423	0.0024	0.0165	OR7E22P	olfactory receptor, family 7, su unprocessi	3	75356516	75357503	-1	p12.3
ENSG00000126787	-1.351	-2.5509	0.0074	0.0403	DLGAP5	discs, large (Drosophila) homol protein_cc	14	55148112	55191678	-1	q22.3
ENSG00000104147	-1.351	-2.551	0.0072	0.0395	OIP5	Opa interacting protein 5 [Sou protein_cc	15	41309268	41332621	-1	q15.1
ENSG00000165891	-1.3534	-2.5551	0.0008	0.0068	E2F7	E2F transcription factor 7 [Sou protein_cc	12	77021247	77065580	-1	q21.2
ENSG00000134222	-1.3568	-2.5612	0.0059	0.0335	PSRC1	proline/serine-rich coiled-coil : protein_cc	1	1.09E+08	1.09E+08	-1	p13.3
ENSG00000147573	-1.3577	-2.5628	0.0032	0.0204	TRIM55	tripartite motif containing 55 [ protein_cc	8	66126896	66175487	1	q13.1
ENSG00000149633	-1.36	-2.5669	0.0012	0.0095	KIAA1755	KIAA1755 [Source:HGNC Symb protein_cc	20	38210488	38260772	-1	q11.23
ENSG00000131747	-1.3629	-2.572	0.0068	0.0378	TOP2A	topoisomerase (DNA) II alpha : protein_cc	17	40388516	40417950	-1	q21.2
ENSG00000150540	-1.3642	-2.5743	2.0624E-08	5.3147E-07	HNMT	histamine N-methyltransferase protein_cc	2	1.38E+08	1.38E+08	1	q22.1



ENSG0000080573	-1.366	-2.5775	0.004	0.0247 COL5A3	collagen, type V, alpha 3 [Source:HGNC protein_cc	19	9959561	10010471	-1	p13.2
ENSG00000169442	-1.3668	-2.5789	0.0063	0.0355 CD52	CD52 molecule [Source:HGNC protein_cc	1	26317957	26320523	1	p36.11
ENSG00000170074	-1.3682	-2.5814	0.0014	0.0102 FAM153A	family with sequence similarity protein_cc	5	1.78E+08	1.78E+08	-1	q35.3
ENSG00000188089	-1.3705	-2.5856	0.0066	0.0367 PLA2G4E	phospholipase A2, group IVE [Source:HGNC protein_cc	15	41981582	42051190	-1	q15.1
ENSG00000235978	-1.3705	-2.5857	0.0008	0.0068 AC018816.3	antisense	3	4814294	4887293	-1	p26.1
ENSG00000172322	-1.3708	-2.5862	0.0068	0.0379 CLEC12A	C-type lectin domain family 12 protein_cc	12	9951316	9995694	1	p13.31
ENSG00000263843	-1.3755	-2.5945	0.0003	0.0029 RP11-649A18.12	antisense	17	75271369	75273895	-1	q25.1
ENSG00000114251	-1.3757	-2.5949	5.6715E-05	0.0007 WNT5A	wingless-type MMTV integrator protein_cc	3	55465715	55490539	-1	p14.3
ENSG00000117983	-1.3777	-2.5986	3.4201E-05	0.0004 MUC5B	mucin 5B, oligomeric mucus/gel-forming protein_cc	11	1223066	1262172	1	p15.5
ENSG00000148204	-1.3777	-2.5986	0.0057	0.0328 CRB2	crumbs family member 2 [Source:HGNC protein_cc	9	1.23E+08	1.23E+08	1	q33.3
ENSG00000115112	-1.3781	-2.5992	0.0001	0.0015 TFCP2L1	transcription factor CP2-like 1 protein_cc	2	1.21E+08	1.21E+08	-1	q14.2
ENSG00000144476	-1.3796	-2.602	6.8446E-09	1.9197E-07 ACKR3	atypical chemokine receptor 3 protein_cc	2	2.37E+08	2.37E+08	1	q37.3
ENSG00000188613	-1.3837	-2.6094	0.0005	0.0045 NANOS1	nanos homolog 1 (Drosophila) protein_cc	10	1.19E+08	1.19E+08	1	q26.11
ENSG00000203837	-1.3845	-2.6108	0.0049	0.0292 PNLIPRP3	pancreatic lipase-related protein protein_cc	10	1.16E+08	1.16E+08	1	q25.3
ENSG00000185532	-1.3849	-2.6116	0.001	0.0077 PRKG1	protein kinase, cGMP-dependent type II protein_cc	10	50991358	52298350	1	q11.23
ENSG00000165480	-1.3872	-2.6157	0.0041	0.025 SKA3	spindle and kinetochore associated protein protein_cc	13	21153595	21176602	-1	q12.11
ENSG00000138172	-1.3922	-2.6248	0.0006	0.0053 CALHM2	calcium homeostasis modulator 2 protein_cc	10	1.03E+08	1.03E+08	-1	q24.33
ENSG00000007306	-1.3925	-2.6252	0.0002	0.0016 CEACAM7	carcinoembryonic antigen-related cell adhesion molecule 7 protein_cc	19	41673307	41706976	-1	q13.2
ENSG00000261655	-1.3946	-2.6292	0.0044	0.0266 CTD-3064M3.3	sense	8	1.41E+08	1.41E+08	-1	q24.3
ENSG00000113303	-1.3962	-2.632	0.0058	0.0334 BTNL8	butyrophilin-like 8 [Source:HGNC protein_cc	5	1.81E+08	1.81E+08	1	q35.3
ENSG00000226025	-1.401	-2.6409	0.0029	0.0193 LGALS17A	Charcot-Leyden crystal protein transcribed from LOC101928223 protein_cc	19	39679374	39686373	1	q13.2
ENSG00000139445	-1.4013	-2.6415	0.0055	0.0321 FOXN4	forkhead box N4 [Source:HGNC protein_cc	12	1.09E+08	1.09E+08	-1	q24.11
ENSG00000234521	-1.402	-2.6427	0.0057	0.033 AC005041.11	processed	2	74413020	74413481	-1	p13.1
ENSG00000169715	-1.4053	-2.6487	2.5932E-15	1.6741E-13 MT1E	metallothionein 1E [Source:HGNC protein_cc	16	56625475	56627112	1	q13
ENSG00000163083	-1.4064	-2.6507	1.1794E-07	2.6995E-06 INHBB	inhibin, beta B [Source:HGNC protein_cc	2	1.2E+08	1.2E+08	1	q14.2
ENSG00000257443	-1.408	-2.6538	0.0042	0.0257 RP11-150C16.1	antisense	12	58920639	59064238	1	q14.1
ENSG00000273062	-1.4103	-2.658	0.0042	0.0259 RP11-428K3.1	antisense	1	1.79E+08	1.79E+08	-1	q25.2
ENSG00000169679	-1.4112	-2.6596	0.0046	0.0275 BUB1	BUB1 mitotic checkpoint serine/threonine kinase protein_cc	2	1.11E+08	1.11E+08	-1	q13
ENSG00000090889	-1.4183	-2.6727	0.0039	0.024 KIF4A	kinesin family member 4A [Source:HGNC protein_cc	70290090	70420832	1	q13.1	
ENSG00000101448	-1.4188	-2.6737	0.0043	0.0264 EPPIN	epididymal peptidase inhibitor protein_cc	20	45540626	45547752	-1	q13.12
ENSG00000135821	-1.42	-2.6758	1.6064E-18	1.3301E-16 GLUL	glutamate-ammonia ligase [Source:HGNC protein_cc	1	1.82E+08	1.82E+08	-1	q25.3
ENSG000000011523	-1.4222	-2.6799	3.686E-16	2.525E-14 CEP68	centrosomal protein 68kDa [Source:HGNC protein_cc	2	65056366	65087004	1	p14
ENSG00000214688	-1.4247	-2.6845	0.0037	0.0233 C10orf105	chromosome 10 open reading frame 105 protein_cc	10	71711701	71737824	-1	q22.1
ENSG00000113578	-1.4323	-2.6988	1.2468E-05	0.0002 FGF1	fibroblast growth factor 1 (acidic) protein_cc	5	1.43E+08	1.43E+08	-1	q31.3
ENSG00000171848	-1.4336	-2.7012	0.0044	0.0269 RRM2	ribonucleotide reductase M2 [Source:HGNC protein_cc	2	10122328	10131419	1	p25.1
ENSG00000066279	-1.4337	-2.7013	0.0044	0.0269 ASPM	asp (abnormal spindle) homologue protein_cc	1	1.97E+08	1.97E+08	-1	q31.3
ENSG00000198643	-1.4352	-2.7041	1.3783E-06	2.4832E-05 FAM3D	family with sequence similarity protein_cc	3	58633946	58666848	-1	p14.2
ENSG00000107984	-1.4412	-2.7155	1.806E-15	1.1942E-13 DKK1	dickkopf WNT signaling pathway inhibitor 1 protein_cc	10	52314296	52318042	1	q21.1
ENSG00000012504	-1.4416	-2.7162	0.0045	0.0269 NR1H4	nuclear receptor subfamily 1, group 4, member 4 protein_cc	12	1E+08	1.01E+08	1	q23.1
ENSG00000163909	-1.4419	-2.7167	9.9122E-09	2.7239E-07 HEYL	hes-related family bHLH transcription factor protein_cc	1	39624153	39639945	-1	p34.2
ENSG00000145777	-1.4428	-2.7186	9.5952E-05	0.0011 TSLP	thymic stromal lymphopoietin protein_cc	5	1.11E+08	1.11E+08	1	q22.1

ENSG00000154118	-1.4471	-2.7266	0.0011	0.0089 JPH3	junctophilin 3 [Source:HGNC Symbol;protein_cc	16	87601835	87698156	1	q24.2
ENSG0000043039	-1.4487	-2.7295	2.1192E-05	0.0003 BARX2	BARX homeobox 2 [Source:HG protein_cc	11	1.29E+08	1.29E+08	1	q24.3
ENSG00000257017	-1.4508	-2.7336	0.0005	0.0045 HP	haptoglobin [Source:HGNC Symbol;protein_cc	16	72054592	72061055	1	q22.2
ENSG00000168772	-1.453	-2.7377	6.9142E-06	0.0001 CXXC4	CXXC finger protein 4 [Source:HG protein_cc	4	1.04E+08	1.04E+08	-1	q24
ENSG00000136928	-1.4549	-2.7413	0.0035	0.0221 GABBR2	gamma-aminobutyric acid (GABA) receptor 2 [Source:HGNC Symbol;protein_cc	9	98288109	98709197	-1	q22.33
ENSG00000162630	-1.456	-2.7434	0.0017	0.0125 B3GALT2	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase 2 [Source:HGNC Symbol;protein_cc	1	1.93E+08	1.93E+08	-1	q31.2
ENSG00000164690	-1.4562	-2.7438	4.9391E-06	7.7906E-05 SHH	sonic hedgehog [Source:HGNC Symbol;protein_cc	7	1.56E+08	1.56E+08	-1	q36.3
ENSG00000130600	-1.4563	-2.744	5.0065E-05	0.0006 H19	H19, imprinted maternally expressed transcript [Source:HGNC Symbol;protein_cc	11	1995163	2001470	-1	p15.5
ENSG0000010438	-1.4569	-2.7452	0.0019	0.0135 PRSS3	protease, serine, 3 [Source:HGNC Symbol;protein_cc	9	33750466	33799231	-1	p13.3
ENSG00000169884	-1.4571	-2.7456	0.0015	0.0109 WNT10B	wingless-type MMTV integrator 1 [Source:HGNC Symbol;protein_cc	12	48965340	48971763	-1	q13.12
ENSG00000119915	-1.4598	-2.7507	0.0032	0.0205 ELOVL3	ELOVL fatty acid elongase 3 [Source:HGNC Symbol;protein_cc	10	1.02E+08	1.02E+08	1	q24.32
ENSG00000162490	-1.4616	-2.7541	0.0006	0.005 DRAXIN	dorsal inhibitory axon guidance protein [Source:HGNC Symbol;protein_cc	1	11691729	11725857	1	p36.22
ENSG00000267677	-1.4634	-2.7575	0.0038	0.0239 RP11-27G24.1	lincRNA	18	59360700	59386749	1	q21.32
ENSG00000136872	-1.4646	-2.7599	0.0023	0.0156 ALDOB	aldolase B, fructose-bisphosphate dependent [Source:HGNC Symbol;protein_cc	9	1.01E+08	1.01E+08	-1	q31.1
ENSG00000188158	-1.4657	-2.762	2.7981E-25	3.6004E-23 NHS	Nance-Horan syndrome (congenital) [Source:HGNC Symbol;protein_cc	17	17375420	17735994	1	p22.2
ENSG00000178860	-1.4691	-2.7685	0.0012	0.0094 MSC	musculin [Source:HGNC Symbol;protein_cc	8	71841549	71844468	-1	q13.3
ENSG00000134668	-1.473	-2.7761	0.0004	0.0035 SPOCD1	SPOC domain containing 1 [Source:HGNC Symbol;protein_cc	1	31790422	31816051	-1	p35.2
ENSG00000147168	-1.4741	-2.7782	0.0003	0.0025 IL2RG	interleukin 2 receptor, gamma [Source:HGNC Symbol;protein_cc	7	71107404	71112108	-1	q13.1
ENSG00000150656	-1.4749	-2.7796	0.0016	0.0115 CNDP1	carnosine dipeptidase 1 (metal ion dependent) [Source:HGNC Symbol;protein_cc	18	74534440	74587212	1	q22.3
ENSG00000203697	-1.476	-2.7818	9.8204E-09	2.7026E-07 CAPN8	calpain 8 [Source:HGNC Symbol;protein_cc	1	2.24E+08	2.24E+08	-1	q41
ENSG00000230882	-1.4762	-2.7822	0.00001941	0.0003 AC005077.14	processed transcript	7	76071469	76074963	-1	q11.23
ENSG00000232194	-1.4763	-2.7824	0.0019	0.0138 RP1-313L4.3	antisense	1	1.68E+08	1.68E+08	1	q24.2
ENSG00000234602	-1.4767	-2.7831	1.5533E-07	3.4694E-06 MCIDAS	multiciliate differentiation and protein 1 [Source:HGNC Symbol;protein_cc	5	55219614	55227315	-1	q11.2
ENSG00000116990	-1.4787	-2.787	8.8028E-10	2.8706E-08 MYCL	v-myc avian myelocytomatosis protein [Source:HGNC Symbol;protein_cc	1	39895426	39902256	-1	p34.2
ENSG00000134533	-1.4796	-2.7888	2.9649E-18	2.3824E-16 RERG	RAS-like, estrogen-regulated, gamma [Source:HGNC Symbol;protein_cc	12	15107783	15348675	-1	p12.3
ENSG00000137804	-1.4818	-2.7931	0.0032	0.0209 NUSAP1	nucleolar and spindle associated protein 1 [Source:HGNC Symbol;protein_cc	15	41332694	41381050	1	q15.1
ENSG00000251076	-1.4826	-2.7946	0.0027	0.0182 RP11-526F3.1	antisense	5	1.12E+08	1.12E+08	1	q22.2
ENSG00000167759	-1.4828	-2.7949	0.0008	0.0067 KLK13	kallikrein-related peptidase 13 [Source:HGNC Symbol;protein_cc	19	51056206	51065114	-1	q13.41
ENSG00000141968	-1.4834	-2.7961	2.3636E-21	2.3699E-19 VAV1	vav 1 guanine nucleotide exchange factor [Source:HGNC Symbol;protein_cc	19	6772714	6857366	1	p13.3
ENSG00000118322	-1.4841	-2.7974	7.8607E-07	1.5087E-05 ATP10B	ATPase, class V, type 10B [Source:HGNC Symbol;protein_cc	5	1.61E+08	1.61E+08	-1	q34
ENSG00000253593	-1.4845	-2.7981	0.0034	0.0217 RP11-157E21.1	lincRNA	8	1.34E+08	1.34E+08	1	q24.22
ENSG00000149922	-1.4848	-2.7987	2.1531E-11	8.8371E-10 TBX6	T-box 6 [Source:HGNC Symbol;protein_cc	16	30085793	30091887	-1	p11.2
ENSG00000125319	-1.4857	-2.8006	0.0011	0.0086 C17orf53	chromosome 17 open reading frame 53 [Source:HGNC Symbol;protein_cc	17	44141906	44162476	1	q21.31
ENSG00000268812	-1.4899	-2.8087	0.0013	0.01 RP1-102K2.8	antisense	22	30246205	30246998	1	q12.2
ENSG00000216775	-1.4904	-2.8097	1.8243E-06	3.1932E-05 RP1-152L7.5	transcribed	6	52665148	52669155	1	p12.2
ENSG00000214049	-1.4908	-2.8104	3.8071E-07	7.8635E-06 UCA1	urothelial cancer associated 1 [Source:HGNC Symbol;protein_cc	19	15828961	15836320	1	p13.12
ENSG00000188037	-1.4908	-2.8104	0.0004	0.0037 CLCN1	chloride channel, voltage-sensitive, cardiac [Source:HGNC Symbol;protein_cc	7	1.43E+08	1.43E+08	1	q34
ENSG00000189057	-1.4923	-2.8134	0.0027	0.018 FAM111B	family with sequence similarity 111B [Source:HGNC Symbol;protein_cc	11	59107185	59127410	1	q12.1
ENSG00000080986	-1.493	-2.8148	0.0019	0.0135 NDC80	NDC80 kinetochore complex component [Source:HGNC Symbol;protein_cc	18	2571511	2616635	1	p11.32
ENSG00000137868	-1.4939	-2.8166	2.4723E-07	5.308E-06 STRA6	stimulated by retinoic acid 6 [Source:HGNC Symbol;protein_cc	15	74179466	74212267	-1	q24.1
ENSG00000227507	-1.5007	-2.8298	0.0021	0.0144 LTB	lymphotoxin beta (TNF superfamily member 3) [Source:HGNC Symbol;protein_cc	6	31580525	31582522	-1	p21.33

ENSG00000182793	-1.5024	-2.8331	0.0019	0.0133	GSTA5	glutathione S-transferase alph; protein_cc	6	52831655	52870329	-1	p12.2
ENSG00000154920	-1.5077	-2.8436	0.0025	0.017	EME1	essential meiotic structure-spe protein_cc	17	50373220	50381483	1	q21.33
ENSG00000138615	-1.5078	-2.8437	0.0011	0.0085	CILP	cartilage intermediate layer pr protein_cc	15	65194758	65211488	-1	q22.31
ENSG00000168243	-1.5094	-2.8469	0.0006	0.0049	GNG4	guanine nucleotide binding prc protein_cc	1	2.36E+08	2.36E+08	-1	q42.3
ENSG00000124493	-1.5097	-2.8476	0.0009	0.0071	GRM4	glutamate receptor, metabotr; protein_cc	6	34018645	34155622	-1	p21.31
ENSG00000109193	-1.5098	-2.8477	3.9251E-08	9.5957E-07	SULT1E1	sulfotransferase family 1E, est; protein_cc	4	69810780	69860152	-1	q13.3
ENSG00000073737	-1.5099	-2.8478	1.8981E-26	2.6579E-24	DHRS9	dehydrogenase/reductase (SD) protein_cc	2	1.69E+08	1.69E+08	1	q31.1
ENSG00000100985	-1.5104	-2.8489	0.0006	0.0053	MMP9	matrix metalloproteinase 9 (gel protein_cc	20	46008908	46016561	1	q13.12
ENSG00000279747	-1.5111	-2.8501	9.448E-07	1.7797E-05	CTA-363E6.8	TEC	16	19503861	19504625	1	p12.3
ENSG00000134240	-1.5128	-2.8537	0.0027	0.0178	HMGCS2	3-hydroxy-3-methylglutaryl-Co protein_cc	1	1.2E+08	1.2E+08	-1	p12
ENSG00000071991	-1.5142	-2.8563	0.0028	0.0184	CDH19	cadherin 19, type 2 [Source:HC protein_cc	18	66501083	66604138	-1	q22.1
ENSG00000225833	-1.5152	-2.8584	0.0008	0.0069	GS1-594A7.3	antisense X		15602881	15621484	1	p22.2
ENSG00000108551	-1.5165	-2.861	0.0007	0.0062	RASD1	RAS, dexamethasone-induced protein_cc	17	17494437	17496395	-1	p11.2
ENSG00000268223	-1.5178	-2.8635	0.0026	0.0175	ARL14EPL	ADP-ribosylation factor-like 14 protein_cc	5	1.16E+08	1.16E+08	1	q23.1
ENSG00000118308	-1.5204	-2.8686	6.3786E-09	1.7969E-07	LRMP	lymphoid-restricted membran; protein_cc	12	25021002	25108334	1	p12.1
ENSG00000263450	-1.5209	-2.8696	0.0026	0.0172	RP11-680N20.1	antisense	18	32954075	32957998	1	q12.1
ENSG00000167656	-1.5212	-2.8703	0.0025	0.017	LY6D	lymphocyte antigen 6 complex protein_cc	8	1.43E+08	1.43E+08	-1	q24.3
ENSG00000135547	-1.5224	-2.8727	3.9244E-09	1.148E-07	HEY2	hes-related family bHLH transc protein_cc	6	1.26E+08	1.26E+08	1	q22.31
ENSG00000257877	-1.5237	-2.8753	3.7057E-05	0.0005	RP3-462E2.3	lincRNA	12	1.12E+08	1.12E+08	1	q24.12
ENSG0000024526	-1.5287	-2.8853	0.0025	0.0168	DEPDC1	DEP domain containing 1 [Sour protein_cc	1	68474152	68497221	-1	p31.3
ENSG00000104140	-1.5302	-2.8883	4.3116E-36	1.0394E-33	RHOV	ras homolog family member V protein_cc	15	40872214	40874289	-1	q15.1
ENSG00000213433	-1.5333	-2.8944	0.0002	0.002	RP11-54C4.1	transcribed	5	1.52E+08	1.52E+08	-1	q33.1
ENSG00000204544	-1.5365	-2.9008	0.002	0.0141	MUC21	mucin 21, cell surface associat; protein_cc	6	30983718	30989903	1	p21.33
ENSG00000004799	-1.5397	-2.9073	6.1211E-08	1.4553E-06	PDK4	pyruvate dehydrogenase kinas protein_cc	7	95583499	95596491	-1	q21.3
ENSG00000258498	-1.5422	-2.9125	0.0016	0.0116	DIO3OS	DIO3 opposite strand/antisens lincRNA	14	1.02E+08	1.02E+08	-1	q32.31
ENSG00000169247	-1.5473	-2.9228	2.1551E-06	3.6975E-05	SH3TC2	SH3 domain and tetratricopep; protein_cc	5	1.49E+08	1.49E+08	-1	q32
ENSG00000092470	-1.5588	-2.946	0.0008	0.0065	WDR76	WD repeat domain 76 [Source: protein_cc	15	43826963	43868419	1	q15.3
ENSG00000169900	-1.5592	-2.9469	0.0016	0.0115	PYDC1	PYD (pyrin domain) containing protein_cc	16	31215962	31217359	-1	p11.2
ENSG00000167077	-1.5619	-2.9524	0.0007	0.0057	MEI1	meiosis inhibitor 1 [Source:HG protein_cc	22	41699499	41799456	1	q13.2
ENSG00000168447	-1.5718	-2.9728	5.9459E-06	0.00009191	SCNN1B	sodium channel, non-voltage-g protein_cc	16	23278231	23381299	1	p12.2
ENSG00000171105	-1.5729	-2.9751	1.4861E-22	1.5723E-20	INSR	insulin receptor [Source:HGNC protein_cc	19	7112255	7294034	-1	p13.2
ENSG00000163467	-1.5731	-2.9755	0.0012	0.0091	TSACC	TSSK6 activating co-chaperone protein_cc	1	1.56E+08	1.56E+08	1	q22
ENSG00000169469	-1.579	-2.9876	8.5345E-05	0.001	SPRR1B	small proline-rich protein 1B [S protein_cc	1	1.53E+08	1.53E+08	1	q21.3
ENSG00000204882	-1.5857	-3.0016	0.0016	0.0118	GPR20	G protein-coupled receptor 20 protein_cc	8	1.41E+08	1.41E+08	-1	q24.3
ENSG00000118193	-1.5891	-3.0086	0.0012	0.0091	KIF14	kinesin family member 14 [Sou protein_cc	1	2.01E+08	2.01E+08	-1	q32.1
ENSG00000258458	-1.5926	-3.0159	0.0014	0.0105	CTD-2555K7.2	processed_	14	22702611	22766562	-1	q11.2
ENSG00000161896	-1.5978	-3.0269	0.0007	0.0063	IP6K3	inositol hexakisphosphate kina protein_cc	6	33721667	33746985	-1	p21.31
ENSG00000229453	-1.6003	-3.0321	0.0008	0.0065	SPINK8	serine peptidase inhibitor, Kaz; protein_cc	3	48306842	48328341	-1	p21.31
ENSG00000124249	-1.6016	-3.0348	5.9776E-06	0.00009225	KCNK15	potassium channel, subfamily   protein_cc	20	44745780	44752313	1	q13.12
ENSG00000109906	-1.6058	-3.0437	3.6857E-06	5.9992E-05	ZBTB16	zinc finger and BTB domain cor protein_cc	11	1.14E+08	1.14E+08	1	q23.2
ENSG00000131459	-1.6071	-3.0465	6.7964E-05	0.0008	GFPT2	glutamine-fructose-6-phospha protein_cc	5	1.8E+08	1.8E+08	-1	q35.3

ENSG00000225931	-1.6084	-3.0492	0.0014	0.0102	RP3-395M20.7	antisense	1	2566410	2569888	1	p36.32
ENSG00000089692	-1.6094	-3.0513	4.9565E-05	0.0006	LAG3	lymphocyte-activation gene 3   protein_cc	12	6772512	6778455	1	p13.31
ENSG00000128655	-1.6114	-3.0554	0.00002689	0.0003	PDE11A	phosphodiesterase 11A [Source: protein_cc	2	1.78E+08	1.78E+08	-1	q31.2
ENSG00000277748	-1.6152	-3.0635	0.0012	0.0094	AC006262.11	unprocessi	19	46249394	46250163	-1	q13.32
ENSG00000122367	-1.6277	-3.0902	0.0013	0.0101	LDB3	LIM domain binding 3 [Source: protein_cc	10	86668449	86736068	1	q23.2
ENSG00000187134	-1.6289	-3.0928	1.6283E-13	8.5659E-12	AKR1C1	aldo-keto reductase family 1, r protein_cc	10	4963253	5107522	1	p15.1
ENSG00000188505	-1.6324	-3.1002	8.2772E-12	3.5502E-10	NCCRP1	non-specific cytotoxic cell rece protein_cc	19	39196961	39201884	1	q13.2
ENSG00000230107	-1.6325	-3.1005	0.0006	0.005	CTA-126B4.7	lincRNA	22	42438023	42446195	1	q13.2
ENSG00000268833	-1.633	-3.1016	1.9266E-06	3.3416E-05	AC011513.4	antisense	19	41757898	41786893	-1	q13.2
ENSG00000186204	-1.6351	-3.1061	3.5245E-10	1.2204E-08	CYP4F12	cytochrome P450, family 4, sul protein_cc	19	15672757	15697174	1	p13.12
ENSG00000142623	-1.6355	-3.1069	2.274E-10	8.1404E-09	PADI1	peptidyl arginine deiminase, ty protein_cc	1	17205126	17246005	1	p36.13
ENSG00000179978	-1.636	-3.108	0.0007	0.0058	RP11-1319K7.1	unprocessi	5	70094659	70128434	-1	q13.2
ENSG00000184156	-1.6386	-3.1137	9.6705E-05	0.0011	KNQ3	potassium voltage-gated chan protein_cc	8	1.32E+08	1.32E+08	-1	q4.22
ENSG00000187889	-1.6429	-3.123	3.1712E-12	1.4277E-10	C1orf168	chromosome 1 open reading fi protein_cc	1	56718804	56819696	-1	p32.2
ENSG00000062282	-1.6458	-3.1291	5.5874E-20	5.1157E-18	DGAT2	diacylglycerol O-acyltransferas protein_cc	11	75759512	75801535	1	q13.5
ENSG00000186815	-1.646	-3.1295	1.7651E-19	1.5856E-17	TPCN1	two pore segment channel 1 [S protein_cc	12	1.13E+08	1.13E+08	1	q24.13
ENSG00000238755	-1.6465	-3.1307	3.3253E-05	0.0004	RP11-23D24.2	processed_	3	1.53E+08	1.54E+08	-1	q25.2
ENSG00000172482	-1.6503	-3.1391	0.0011	0.0089	AGXT	alanine-glyoxylate aminotransl protein_cc	2	2.41E+08	2.41E+08	1	q37.3
ENSG00000147408	-1.6546	-3.1484	1.9495E-08	5.0374E-07	CSGALNACT1	chondroitin sulfate N-acetylgal protein_cc	8	19404161	19758029	-1	p21.3
ENSG00000173546	-1.6641	-3.1692	1.4642E-05	0.0002	CSPG4	chondroitin sulfate proteoglyc; protein_cc	15	75674322	75712848	-1	q24.2
ENSG00000116194	-1.6651	-3.1714	0.0007	0.0061	ANGPTL1	angiopoietin-like 1 [Source:HG protein_cc	1	1.79E+08	1.79E+08	-1	q25.2
ENSG00000204442	-1.6672	-3.176	0.0003	0.0026	FAM155A	family with sequence similarity protein_cc	13	1.07E+08	1.08E+08	-1	q33.3
ENSG00000161798	-1.6705	-3.1833	1.2654E-07	2.8688E-06	AQP5	aquaporin 5 [Source:HGNC Syr protein_cc	12	49961870	49965681	1	q13.12
ENSG00000254967	-1.6795	-3.2033	9.1129E-08	2.1087E-06	RP11-680F20.6	antisense	11	1.26E+08	1.26E+08	1	q24.2
ENSG00000166869	-1.6834	-3.2118	3.6134E-12	1.6116E-10	CHP2	calcineurin-like EF-hand protei protein_cc	16	23754627	23758951	1	p12.2
ENSG00000158445	-1.6849	-3.2151	0.0004	0.0036	KCNB1	potassium voltage-gated chan protein_cc	20	49363877	49482647	-1	q13.13
ENSG00000163207	-1.691	-3.2288	8.5725E-06	0.0001	IVL	involucrin [Source:HGNC Symb protein_cc	1	1.53E+08	1.53E+08	1	q21.3
ENSG00000115956	-1.6956	-3.2391	0.0006	0.0052	PLEK	pleckstrin [Source:HGNC Symb protein_cc	2	68365173	68397453	1	p14
ENSG00000197406	-1.7088	-3.2689	0.0007	0.0062	DIO3	deiodinase, iodothyronine, typ protein_cc	14	1.02E+08	1.02E+08	1	q32.31
ENSG00000173110	-1.7166	-3.2865	4.9775E-05	0.0006	HSPA6	heat shock 70kDa protein 6 (H protein_cc	1	1.62E+08	1.62E+08	1	q23.3
ENSG00000185112	-1.7187	-3.2915	8.1211E-11	3.087E-09	FAM43A	family with sequence similarity protein_cc	3	1.95E+08	1.95E+08	1	q29
ENSG00000227695	-1.719	-3.292	1.768E-07	3.9015E-06	DNMBP-AS1	DNMBP antisense RNA 1 [Sour antisense	10	99927010	99958381	1	q24.2
ENSG00000150893	-1.7201	-3.2946	8.7536E-12	3.7462E-10	FREM2	FRAS1 related extracellular ma protein_cc	13	38687129	38887131	1	q13.3
ENSG00000163121	-1.7235	-3.3025	5.6313E-08	1.3422E-06	NEURL3	neuralized E3 ubiquitin proteir protein_cc	2	96497643	96508109	-1	q11.2
ENSG00000168481	-1.7239	-3.3034	0.0006	0.0054	LGI3	leucine-rich repeat LGI family, protein_cc	8	22146825	22157084	-1	p21.3
ENSG00000104081	-1.7258	-3.3077	1.1915E-13	6.374E-12	BMF	Bcl2 modifying factor [Source:l protein_cc	15	40087890	40108892	-1	q15.1
ENSG00000104055	-1.7267	-3.3097	4.2912E-05	0.0005	TGM5	transglutaminase 5 [Source:HC protein_cc	15	43232595	43266857	-1	q15.2
ENSG00000169507	-1.7281	-3.3129	0.0006	0.0051	SLC38A11	solute carrier family 38, memb protein_cc	2	1.65E+08	1.65E+08	-1	q24.3
ENSG00000164683	-1.7284	-3.3135	1.4801E-13	7.8732E-12	HEY1	hes-related family bHLH transc protein_cc	8	79764010	79767863	-1	q21.13
ENSG00000179826	-1.7338	-3.326	0.0001	0.0014	MRGPRX3	MAS-related GPR, member X3 protein_cc	11	18120955	18138480	1	p15.1
ENSG00000196188	-1.7415	-3.3437	2.3517E-06	3.9916E-05	CTSE	cathepsin E [Source:HGNC Syr protein_cc	1	2.06E+08	2.06E+08	-1	q32.1

ENSG00000188993	-1.7437	-3.3489	0.0003	0.0033	LRRC66	leucine rich repeat containing protein_cc	4	51993702	52017620	-1	q12
ENSG00000169252	-1.7494	-3.3622	1.4433E-11	6.0409E-10	ADRB2	adrenoceptor beta 2, surface [ protein_cc	5	1.49E+08	1.49E+08	1	q32
ENSG00000151632	-1.7509	-3.3657	3.4238E-15	2.159E-13	AKR1C2	aldo-keto reductase family 1, r protein_cc	10	4922564	5135226	-1	p15.1
ENSG00000112984	-1.7536	-3.372	6.8282E-06	0.0001	KIF20A	kinesin family member 20A [Sc protein_cc	5	1.38E+08	1.38E+08	1	q31.2
ENSG00000082929	-1.757	-3.38	1.5197E-05	0.0002	C4orf6	chromosome 4 open reading fi protein_cc	4	5524569	5527801	1	p16.2
ENSG00000124882	-1.7629	-3.3939	6.4868E-06	9.8987E-05	EREG	epiregulin [Source:HGNC Symt protein_cc	4	74365143	74388751	-1	q13.3
ENSG00000235568	-1.7647	-3.3981	1.5002E-09	4.7144E-08	NFAM1	NFAT activating protein with IT protein_cc	22	42380410	42432395	-1	q13.2
ENSG00000170298	-1.7761	-3.4249	1.0981E-10	4.0686E-09	LGALS9B	lectin, galactoside-binding, soli protein_cc	17	20449395	20467539	-1	p11.2
ENSG00000172927	-1.7771	-3.4273	9.6632E-05	0.0011	MYEOV	myeloma overexpressed [Sour protein_cc	11	69294138	69367726	1	q13.3
ENSG00000134343	-1.7822	-3.4394	8.2807E-06	0.0001	ANO3	anoctamin 3 [Source:HGNC Sym protein_cc	11	26309599	26663288	-1	p14.2
ENSG00000186377	-1.7864	-3.4496	6.7796E-23	7.3358E-21	CYP4X1	cytochrome P450, family 4, sul protein_cc	1	47023568	47050751	1	p33
ENSG00000179750	-1.787	-3.451	2.9425E-07	6.2056E-06	APOBEC3B	apolipoprotein B mRNA editing protein_cc	22	38982347	38992804	1	q13.1
ENSG00000203760	-1.7967	-3.4743	1.1785E-20	1.1278E-18	CENPW	centromere protein W [Source protein_cc	6	1.26E+08	1.26E+08	1	q22.32
ENSG00000227619	-1.7974	-3.4759	6.3347E-07	1.2437E-05	RP11-492E3.2	antisense	9	1.3E+08	1.3E+08	1	q34.11
ENSG00000186160	-1.7995	-3.4809	7.2173E-10	2.3987E-08	CYP4Z1	cytochrome P450, family 4, sul protein_cc	1	47067488	47118319	1	p33
ENSG00000164161	-1.8014	-3.4857	5.5527E-05	0.0007	HHIP	hedgehog interacting protein [ protein_cc	4	1.45E+08	1.45E+08	1	q31.21
ENSG00000226598	-1.8023	-3.4878	2.4498E-17	1.8224E-15	AC017060.1	lincRNA	7	17463445	17558909	-1	p21.1
ENSG00000169083	-1.803	-3.4895	8.9547E-08	2.0746E-06	AR	androgen receptor [Source:HG protein_ccX	67544032	67730619		1	q12
ENSG00000233680	-1.8032	-3.49	3.6877E-05	0.0005	HNRNPA1P27	heterogeneous nuclear ribonu processed_X	1.01E+08	1.01E+08		-1	q22.1
ENSG00000133048	-1.8068	-3.4986	5.0608E-10	1.721E-08	CHI3L1	chitinase 3-like 1 (cartilage glyt protein_cc	1	2.03E+08	2.03E+08	-1	q32.1
ENSG00000136237	-1.8085	-3.5028	6.3984E-23	7.003E-21	RAPGEF5	Rap guanine nucleotide exchar protein_cc	7	22118238	22357144	-1	p15.3
ENSG00000167513	-1.809	-3.504	0.0001	0.0013	CDT1	chromatin licensing and DNA r protein_cc	16	88803213	88809258	1	q24.3
ENSG00000135472	-1.8113	-3.5095	0.0001	0.0013	FAIM2	Fas apoptotic inhibitory molec protein_cc	12	49866896	49904217	-1	q13.12
ENSG00000168916	-1.812	-3.5112	4.8753E-22	4.9917E-20	ZNF608	zinc finger protein 608 [Source protein_cc	5	1.25E+08	1.25E+08	-1	q23.2
ENSG00000271605	-1.8144	-3.5171	1.637E-09	5.1022E-08	MILR1	mast cell immunoglobulin-like protein_cc	17	64449037	64468643	1	q23.3
ENSG00000084110	-1.8156	-3.5201	5.9429E-05	0.0007	HAL	histidine ammonia-lyase [Sour protein_cc	12	95972662	95996365	-1	q23.1
ENSG00000113532	-1.8204	-3.5318	3.3554E-11	1.3368E-09	ST8SIA4	ST8 alpha-N-acetyl-neuraminic protein_cc	5	1.01E+08	1.01E+08	-1	q21.1
ENSG00000099937	-1.8247	-3.5423	0.0001	0.0015	SERPIND1	serpin peptidase inhibitor, clac protein_cc	22	20773879	20787720	1	q11.21
ENSG00000064692	-1.8263	-3.5462	9.8919E-14	5.3518E-12	SNCAIP	synuclein, alpha interacting pr protein_cc	5	1.22E+08	1.22E+08	1	q23.2
ENSG00000204616	-1.8264	-3.5466	2.2929E-25	2.9705E-23	TRIM31	tripartite motif containing 31 [ protein_cc	6	30102897	30113106	-1	p22.1
ENSG00000144407	-1.8268	-3.5474	0.0001	0.0015	PTH2R	parathyroid hormone 2 recept protein_cc	2	2.08E+08	2.09E+08	1	q34
ENSG00000117724	-1.8298	-3.5549	2.6328E-05	0.0003	CENPF	centromere protein F, 350/40C protein_cc	1	2.15E+08	2.15E+08	1	q41
ENSG00000113368	-1.8438	-3.5896	1.1411E-05	0.0002	LMNB1	lamin B1 [Source:HGNC Symbc protein_cc	5	1.27E+08	1.27E+08	1	q23.2
ENSG00000016602	-1.8474	-3.5985	4.5426E-06	7.2333E-05	CLCA4	chloride channel accessory 4 [ protein_cc	1	86547078	86580754	1	p22.3
ENSG00000150625	-1.8506	-3.6064	0.0002	0.0018	GPM6A	glycoprotein M6A [Source:HG protein_cc	4	1.76E+08	1.76E+08	-1	q34.2
ENSG00000204624	-1.853	-3.6125	5.5698E-05	0.0007	PTCHD2	patched domain containing 2 [ protein_cc	1	11479166	11537584	1	p36.22
ENSG00000125257	-1.8567	-3.6219	6.1909E-11	2.3674E-09	ABCC4	ATP-binding cassette, sub-fami protein_cc	13	95019829	95301433	-1	q32.1
ENSG00000277297	-1.8583	-3.6257	0.0002	0.0018	ATP5A1P10	ATP synthase, H+ transporting, processed_	9	66721158	66722760	1	q21.11
ENSG00000127954	-1.8698	-3.6549	1.5102E-23	1.7644E-21	STEAP4	STEAP family member 4 [Sour protein_cc	7	88276429	88306891	-1	q21.12
ENSG00000109101	-1.8744	-3.6666	0.0002	0.0018	FOXN1	forkhead box N1 [Source:HGNI protein_cc	17	28506243	28538896	1	q11.2
ENSG00000165490	-1.8758	-3.67	1.9926E-07	4.3668E-06	DDIAS	DNA damage-induced apoptos protein_cc	11	82899975	82958277	1	q14.1



ENSG00000100365	-1.8868	-3.698	4.3502E-09	1.259E-07	NCF4	neutrophil cytosolic factor 4, 4 protein_cc	22	36860988	36878015	1	q12.3
ENSG00000166501	-1.8914	-3.71	3.0865E-07	6.4806E-06	PRKCB	protein kinase C, beta [Source: protein_cc	16	23836001	24220611	1	p12.2
ENSG00000242317	-1.8929	-3.7139	2.3859E-05	0.0003	RP11-875H7.5	lincRNA	3	55493830	55505261	-1	p14.3
ENSG00000236039	-1.8965	-3.723	1.7883E-23	2.064E-21	AC019117.2	lincRNA	7	17434477	17460672	-1	p21.1
ENSG00000236846	-1.8978	-3.7265	5.2027E-07	1.0429E-05	RP11-239E10.2	lincRNA	1	2.23E+08	2.23E+08	1	q41
ENSG00000125735	-1.8998	-3.7316	1.2428E-05	0.0002	TNFSF14	tumor necrosis factor (ligand) : protein_cc	19	6661253	6670588	-1	p13.3
ENSG00000264868	-1.9094	-3.7566	4.3087E-15	2.6816E-13	CTB-167B5.2	lincRNA	7	88270892	88273750	-1	q21.12
ENSG00000139626	-1.9136	-3.7674	1.3867E-10	5.0688E-09	ITGB7	integrin, beta 7 [Source:HGNC protein_cc	12	53191318	53207307	-1	q13.13
ENSG00000163218	-1.9141	-3.7687	2.3671E-07	5.0936E-06	PGLYRP4	peptidoglycan recognition prot protein_cc	1	1.53E+08	1.53E+08	-1	q21.3
ENSG00000259362	-1.9191	-3.7818	0.0002	0.0016	RP11-307C19.1	lincRNA	15	77525540	77534110	1	q24.3
ENSG00000253383	-1.9391	-3.8346	1.545E-07	3.4574E-06	SFTA1P	surfactant associated 1, pseud lincRNA	10	10784437	10794980	-1	p14
ENSG00000269985	-1.9417	-3.8416	2.2015E-06	3.7661E-05	RP1-232P20.1	antisense	6	5451683	5458075	-1	p25.1
ENSG00000234332	-1.9472	-3.8562	0.0001	0.0012	BCAS2P2	breast carcinoma amplified seq processed_	1	1E+08	1E+08	-1	p21.2
ENSG00000256812	-1.9472	-3.8563	1.845E-06	3.2265E-05	CAPNS2	calpain, small subunit 2 [Sourc protein_cc	16	55566672	55567687	1	q12.2
ENSG00000125148	-1.9595	-3.8893	4.3007E-08	1.046E-06	MT2A	metallothionein 2A [Source:HC protein_cc	16	56608199	56609497	1	q13
ENSG00000134830	-1.9656	-3.9057	2.9587E-05	0.0004	C5AR2	complement component 5a re protein_cc	19	47332147	47347327	1	q13.32
ENSG00000171916	-1.98	-3.9449	5.0685E-08	1.2234E-06	LGALS9C	lectin, galactoside-binding, soli protein_cc	17	18476737	18494945	1	p11.2
ENSG00000251434	-1.9868	-3.9637	5.4359E-05	0.0006	RP11-315A17.1	lincRNA	4	31350284	31351725	1	p15.1
ENSG00000181634	-1.9874	-3.9652	9.962E-13	4.7908E-11	TNFSF15	tumor necrosis factor (ligand) : protein_cc	9	1.15E+08	1.15E+08	-1	q32
ENSG00000240694	-2.0156	-4.0435	3.5261E-06	5.7641E-05	PNMA2	paraneoplastic Ma antigen 2 [s protein_cc	8	26504686	26514092	-1	p21.2
ENSG00000091986	-2.0174	-4.0486	2.792E-09	8.347E-08	CCDC80	coiled-coil domain containing t protein_cc	3	1.13E+08	1.13E+08	-1	q13.2
ENSG00000272761	-2.025	-4.0698	1.0866E-06	0.00002011	LINC01279	long intergenic non-protein co lincRNA	3	1.13E+08	1.13E+08	-1	q13.2
ENSG00000223829	-2.0375	-4.1053	1.4948E-11	6.2427E-10	AC004870.4	processed_	7	46969702	47027481	1	p12.3
ENSG00000147606	-2.049	-4.1381	2.2577E-06	3.8492E-05	SLC26A7	solute carrier family 26 (anion protein_cc	8	91209494	91398152	1	q21.3
ENSG00000173597	-2.0625	-4.177	1.7914E-08	4.6841E-07	SULT1B1	sulfotransferase family, cytoso protein_cc	4	69721162	69787961	-1	q13.3
ENSG00000227039	-2.0691	-4.1961	1.072E-06	1.9878E-05	ITGB2-AS1	ITGB2 antisense RNA 1 [Source antisense	21	44921051	44929678	1	q22.3
ENSG00000164949	-2.0697	-4.1979	4.8842E-06	7.7191E-05	GEM	GTP binding protein overexpre protein_cc	8	94249253	94262350	-1	q22.1
ENSG00000139209	-2.0749	-4.2132	8.5615E-06	0.0001	SLC38A4	solute carrier family 38, memb protein_cc	12	46764761	46832408	-1	q13.11
ENSG00000196091	-2.0824	-4.2351	4.1383E-07	8.4742E-06	MYBPC1	myosin binding protein C, slow protein_cc	12	1.02E+08	1.02E+08	1	q23.2
ENSG00000127507	-2.0928	-4.2658	3.1224E-19	2.7152E-17	EMR2	egf-like module containing, mu protein_cc	19	14732393	14778541	-1	p13.12
ENSG00000231852	-2.1017	-4.2921	1.0185E-05	0.0001	CYP21A2	cytochrome P450, family 21, si protein_cc	6	32038265	32041670	1	p21.33
ENSG00000122420	-2.1117	-4.3219	1.3041E-07	2.946E-06	PTGFR	prostaglandin F receptor (FP) [ protein_cc	1	78303884	78539749	1	p31.1
ENSG00000138166	-2.1132	-4.3264	3.0346E-23	3.4398E-21	DUSP5	dual specificity phosphatase 5 protein_cc	10	1.1E+08	1.11E+08	1	q25.2
ENSG00000104044	-2.115	-4.3319	1.3196E-07	2.9774E-06	OCA2	oculocutaneous albinism II [So protein_cc	15	27754875	28099358	-1	q13.1
ENSG00000103710	-2.1162	-4.3354	1.7447E-06	0.0000306	RASL12	RAS-like, family 12 [Source:HG protein_cc	15	65053337	65076690	-1	q22.31
ENSG00000278484	-2.1207	-4.3492	2.8418E-05	0.0004	RP11-95I16.6	lincRNA	10	1.21E+08	1.21E+08	-1	q26.12
ENSG00000091513	-2.1337	-4.3883	1.055E-16	7.5813E-15	TF	transferrin [Source:HGNC Sym] protein_cc	3	1.34E+08	1.34E+08	1	q22.1
ENSG00000168398	-2.1364	-4.3968	5.8889E-46	2.4922E-43	BDKRB2	bradykinin receptor B2 [Source protein_cc	14	96204679	96244166	1	q32.2
ENSG00000182489	-2.1385	-4.4031	9.7461E-17	7.0305E-15	XKRX	XK, Kell blood group complex s protein_ccX		1.01E+08	1.01E+08	-1	q22.1
ENSG00000254343	-2.1423	-4.4145	1.0016E-08	2.7486E-07	RP11-760H22.2	lincRNA	8	1.2E+08	1.2E+08	1	q24.12
ENSG00000135744	-2.1437	-4.4189	4.5224E-06	7.2071E-05	AGT	angiotensinogen (serpin peptic protein_cc	1	2.31E+08	2.31E+08	-1	q42.2

ENSG00000143226	-2.1463	-4.427	1.316E-06	2.3891E-05	FCGR2A	Fc fragment of IgG, low affinity protein_cc	1	1.62E+08	1.62E+08	1	q23.3
ENSG00000154175	-2.1483	-4.433	1.4776E-09	4.6665E-08	ABI3BP	ABI family, member 3 (NESH) t protein_cc	3	1.01E+08	1.01E+08	-1	q12.2
ENSG00000276980	-2.1586	-4.4648	1.5714E-06	2.7916E-05	CTD-3128G10.7	sense_intr	19	6716386	6717742	-1	p13.3
ENSG00000243955	-2.1595	-4.4676	2.2114E-18	1.7998E-16	GSTA1	glutathione S-transferase alph: protein_cc	6	52791664	52803910	-1	p12.2
ENSG00000185924	-2.1605	-4.4708	8.4214E-10	2.7556E-08	RTN4RL1	reticulon 4 receptor-like 1 [Sou protein_cc	17	1934677	2025345	-1	p13.3
ENSG00000005249	-2.1948	-4.5782	2.8414E-25	3.6316E-23	PRKAR2B	protein kinase, cAMP-depende protein_cc	7	1.07E+08	1.07E+08	1	q22.3
ENSG00000203721	-2.1986	-4.5904	7.6742E-06	0.0001	LINC00862	long intergenic non-protein co lincRNA	1	2E+08	2E+08	-1	q32.1
ENSG00000004468	-2.2103	-4.6277	5.0068E-09	1.4338E-07	CD38	CD38 molecule [Source:HGNC protein_cc	4	15778275	15853230	-1	p15.32
ENSG00000175471	-2.2339	-4.7041	2.9718E-15	1.8992E-13	MCTP1	multiple C2 domains, transmer protein_cc	5	94703741	95284575	-1	q15
ENSG00000155792	-2.2557	-4.7756	5.9868E-23	6.5904E-21	DEPTOR	DEP domain containing MTOR- protein_cc	8	1.2E+08	1.2E+08	1	q24.12
ENSG00000091844	-2.2606	-4.792	9.8277E-33	2.0567E-30	RGS17	regulator of G-protein signalin; protein_cc	6	1.53E+08	1.53E+08	-1	q25.2
ENSG00000085741	-2.2673	-4.8142	1.4672E-06	2.6209E-05	WNT11	wingless-type MMTV integrati protein_cc	11	76186325	76210736	-1	q13.5
ENSG00000118557	-2.2981	-4.9179	1.267E-06	2.3067E-05	PMFBP1	polyamine modulated factor 1 protein_cc	16	72112157	72176878	-1	q22.2
ENSG00000163221	-2.3115	-4.9641	7.2218E-08	1.6959E-06	S100A12	S100 calcium binding protein A protein_cc	1	1.53E+08	1.53E+08	-1	q21.3
ENSG00000178538	-2.3382	-5.0566	5.0789E-11	1.9809E-09	CA8	carbonic anhydrase VIII [Sourc protein_cc	8	60187347	60281412	-1	q12.1
ENSG00000257771	-2.3505	-5.1001	2.9967E-06	4.9582E-05	RP11-70F11.8	lincRNA	12	49911953	49930320	1	q13.12
ENSG00000272449	-2.3677	-5.1613	2.0776E-15	1.3596E-13	RP3-395M20.12	lincRNA	1	2546465	2547460	1	p36.32
ENSG00000186074	-2.3746	-5.1858	1.6125E-07	3.5917E-06	CD300LF	CD300 molecule-like family me protein_cc	17	74694311	74712978	-1	q25.1
ENSG00000166828	-2.394	-5.2562	2.8875E-23	3.2928E-21	SCNN1G	sodium channel, non-voltage-g protein_cc	16	23182715	23216883	1	p12.2
ENSG00000144063	-2.4004	-5.2794	1.1156E-20	1.073E-18	MALL	mal, T-cell differentiation prot; protein_cc	2	1.1E+08	1.1E+08	-1	q13
ENSG00000100739	-2.4133	-5.3267	2.5084E-16	1.7434E-14	BDKRB1	bradykinin receptor B1 [Source protein_cc	14	96255824	96268967	1	q32.2
ENSG00000146674	-2.4168	-5.34	4.4218E-19	3.7761E-17	IGFBP3	insulin-like growth factor bindi protein_cc	7	45912245	45921874	-1	p12.3
ENSG00000249437	-2.4759	-5.5633	5.5679E-13	2.7399E-11	NAIP	NLR family, apoptosis inhibitor protein_cc	5	70968483	71025114	-1	q13.2
ENSG00000131050	-2.5102	-5.6971	1.2872E-07	2.9113E-06	BPIFA2	BPI fold containing family A, m protein_cc	20	33161768	33181412	1	q11.21
ENSG00000143556	-2.5594	-5.8947	8.3693E-09	2.3268E-07	S100A7	S100 calcium binding protein A protein_cc	1	1.53E+08	1.53E+08	-1	q21.3
ENSG00000186529	-2.6123	-6.1149	1.4337E-13	7.648E-12	CYP4F3	cytochrome P450, family 4, sul protein_cc	19	15615617	15662825	1	p13.12
ENSG00000007216	-2.6152	-6.127	2.6551E-10	9.3986E-09	SLC13A2	solute carrier family 13 (sodiur protein_cc	17	28473293	28497781	1	q11.2
ENSG00000261175	-2.62	-6.1474	1.2123E-28	1.8924E-26	CTD-2015G9.2	lincRNA	16	86722091	86741059	1	q24.1
ENSG00000233539	-2.6538	-6.2934	3.1804E-15	2.0189E-13	AC011294.3	lincRNA	7	46673785	46759851	-1	p12.3
ENSG00000166391	-2.6638	-6.3368	7.6968E-16	5.1978E-14	MOGAT2	monoacylglycerol O-acyltransf protein_cc	11	75717819	75732958	1	q13.5
ENSG00000177374	-2.6754	-6.3884	1.4719E-18	1.224E-16	HIC1	hypermethylated in cancer 1 [; protein_cc	17	2054154	2063241	1	p13.3
ENSG00000156284	-2.6973	-6.486	2.4189E-16	1.6936E-14	CLDN8	claudin 8 [Source:HGNC Symbc protein_cc	21	30214006	30216073	-1	q22.11
ENSG00000074966	-2.7289	-6.6295	4.7736E-12	2.1092E-10	TXK	TXK tyrosine kinase [Source:HC protein_cc	4	48066393	48134256	-1	p12
ENSG00000176971	-2.7829	-6.8824	1.9617E-20	1.8313E-18	FIBIN	fin bud initiation factor homok protein_cc	11	26994184	26996121	1	p14.2
ENSG00000174501	-2.7864	-6.8989	1.4545E-29	2.3674E-27	ANKRD36C	ankyrin repeat domain 36C [Sc protein_cc	2	95836919	95991831	-1	q11.1
ENSG00000168477	-2.7865	-6.8993	1.541E-14	9.0577E-13	TNXB	tenascin XB [Source:HGNC Sym protein_cc	6	32041154	32115334	-1	p21.32
ENSG00000112303	-2.8161	-7.0426	9.5395E-42	3.3642E-39	VNN2	vanin 2 [Source:HGNC Symbol; protein_cc	6	1.33E+08	1.33E+08	-1	q23.2
ENSG00000037280	-2.8809	-7.366	2.7862E-11	1.129E-09	FLT4	fms-related tyrosine kinase 4 [ protein_cc	5	1.81E+08	1.81E+08	-1	q35.3
ENSG00000262097	-2.8826	-7.3749	1.6102E-09	5.027E-08	CTD-2135D7.5	lincRNA	16	14009280	14016016	-1	p13.12
ENSG00000144191	-2.92	-7.5684	7.1006E-13	3.4852E-11	CNGA3	cyclic nucleotide gated channe protein_cc	2	98346155	98398601	1	q11.2
ENSG00000244067	-2.9212	-7.5749	4.9505E-18	3.8324E-16	GSTA2	glutathione S-transferase alph: protein_cc	6	52750089	52763569	-1	p12.2

ENSG00000165794	-3.0256	-8.1434	8.9176E-19	7.5145E-17	SLC39A2	solute carrier family 39 (zinc tr protein_cc	14	20999255	21001871	1	q11.2
ENSG00000232931	-3.0557	-8.3148	1.139E-29	1.8862E-27	LINC00342	long intergenic non-protein co lincRNA	2	95807118	95816215	-1	q11.1
ENSG00000214128	-3.1653	-8.9711	3.7096E-14	2.1025E-12	TMEM213	transmembrane protein 213 [S protein_cc	7	1.39E+08	1.39E+08	1	q34
ENSG00000180730	-3.3901	-10.4841	3.2681E-22	3.3824E-20	SHISA2	shisa family member 2 [Source protein_cc	13	26044597	26051031	-1	q12.13
ENSG00000261371	-3.4217	-10.716	5.2426E-26	7.0635E-24	PECAM1	platelet/endothelial cell adhes protein_cc	17	64319415	64413776	-1	q23.3
ENSG00000172794	-3.8071	-13.9979	8.4079E-60	5.5214E-57	RAB37	RAB37, member RAS oncogene protein_cc	17	74670578	74747335	1	q25.1
ENSG00000187908	-3.8543	-14.463	4.1095E-27	6.0201E-25	DMBT1	deleted in malignant brain tumor protein_cc	10	1.23E+08	1.23E+08	1	q26.13
ENSG00000233725	-4.2954	-19.6363	2.2149E-68	1.9173E-65	LINC00284	long intergenic non-protein co lincRNA	13	43908669	44030461	1	q14.11
ENSG00000129151	-4.3221	-20.0021	4.4301E-72	4.2183E-69	BBOX1	butyrobetaine (gamma), 2-oxo protein_cc	11	27040725	27127809	1	p14.2
ENSG00000163220	-4.3933	-21.014	5.9857E-80	8.7685E-77	S100A9	S100 calcium binding protein A protein_cc	1	1.53E+08	1.53E+08	1	q21.3
ENSG00000131355	-4.8381	-28.6034	6.3468E-30	1.0988E-27	EMR3	egf-like module containing, mu protein_cc	19	14619117	14690027	-1	p13.12
ENSG00000143546	-5.4608	-44.0426	3.8232E-59	2.427E-56	S100A8	S100 calcium binding protein A protein_cc	1	1.53E+08	1.53E+08	-1	q21.3



ENGG000010974	Environ 1, Lanesolone protein, 23kDa [Source:HGNC Symbol;Acc:HGNC:1527]	CAV1	0.4059	1.3227	2.816	11.229	0.0885	1.0633	0.6427	0.2253	1.1469	0.0020	0.0024	1031.2	proteins	ENGNOW
ENGG000010975	Ct calcium-dependent domain containing 4 [Source:HGNC Symbol;Acc:HGNC:18027]	CDCA4	0.6776	1.4741	3.796	4.431	0.7511	1.1663	1.416	1.146	1.068	0.7574	0.617	6.97E-16	proteins	ENGNOW
ENGG000010983	MAP kinase phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:11820]	MAP1A	0.8201	1.8770	4.097	4.004	0.9049	1.2729	1.444	1.004	1.062	0.8293	0.586	1.28E-18	proteins	ENGNOW
ENGG000010984	beta-associated protein 2 [Source:HGNC Symbol;Acc:HGNC:21490]	BAP2	0.8850	1.8474	3.998	11.411	0.6662	1.814	1.703	0.811	0.818	0.818	4.66E-13	proteins	ENGNOW	
ENGG000010985	inositol carrier 1 [Source:HGNC Symbol;Acc:HGNC:17879]	ITOC1A1	1.6033	1.6033	1.6033	1.6033	1.6033	1.6033	1.6033	1.6033	1.6033	1.6033	1.6033	2.81E-13	proteins	ENGNOW
ENGG000010989	carbonic anhydrase 1 [Source:HGNC Symbol;Acc:HGNC:1381]	CA9	0.1588	1.8124	5.121	11.464	0.1619	1.1422	1.6088	0.6024	0.6024	0.6024	0.6024	2.18E-08	proteins	ENGNOW
ENGG000010992	beta domain containing 2 [Source:HGNC Symbol;Acc:HGNC:28873]	BTBD2	0.4298	1.3461	6.542	11.737	0.2420	1.1688	1.000	0.999	0.999	0.999	0.999	1.40E-14	proteins	ENGNOW
ENGG000010993	beta beta beta reductase family member C2 [Source:HGNC Symbol;Acc:HGNC:1361]	BCR2	0.4132	1.2763	3.716	12.959	0.4132	1.2763	3.716	12.959	0.4132	1.2763	3.716	1.29E-10	proteins	ENGNOW
ENGG000010994	alkaline phosphatase family member 1 [Source:HGNC Symbol;Acc:HGNC:87]	ALP2C	0.4968	1.411	7.078	11.741	0.2295	1.1005	0.9317	0.9317	0.9317	0.9317	0.9317	2.09E-15	proteins	ENGNOW
ENGG000010995	leucine dehydrogenase 1 [Source:HGNC Symbol;Acc:HGNC:2153]	LDHC	0.7812	1.7617	4.067	11.847	0.7812	1.7617	4.067	11.847	0.7812	1.7617	4.067	1.70E-17	proteins	ENGNOW
ENGG000010996	leucine dehydrogenase 2 [Source:HGNC Symbol;Acc:HGNC:535]	LDHA	0.2351	1.2215	4.485	11.202	0.2351	1.2215	4.485	11.202	0.2351	1.2215	4.485	3.77E-07	proteins	ENGNOW
ENGG000010997	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010998	polyketide synthase domain containing 2 [Source:HGNC Symbol;Acc:HGNC:4124]	PKS27	0.8632	1.852	4.16E-05	4.16E-05	0.8632	1.852	4.16E-05	4.16E-05	4.16E-05	4.16E-05	4.16E-05	1.36E-13	proteins	ENGNOW
ENGG000010999	cytochrome P450, family 2, subfamily A, polypeptide 1 [Source:HGNC Symbol;Acc:HGNC:2003]	CYP2A1	0.8893	1.852	9.44E-11	9.44E-11	0.8893	1.852	9.44E-11	9.44E-11	9.44E-11	9.44E-11	9.44E-11	5.03E-12	proteins	ENGNOW
ENGG000010999	aldehyde dehydrogenase 3 family member 1 [Source:HGNC Symbol;Acc:HGNC:411]	ALDH3B2	0.9920	1.9079	9.69E-11	1.00E-08	0.4997	1.4139	0.831	0.831	0.831	0.831	0.831	6.48E-22	proteins	ENGNOW
ENGG000010999	beta-galactosidase 3 [Source:HGNC Symbol;Acc:HGNC:18857]	BTBD2	0.6530	1.573	8.65E-08	8.65E-08	0.6530	1.573	8.65E-08	8.65E-08	8.65E-08	8.65E-08	8.65E-08	1.37E-12	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404	1.3381	0.900	0.900	0.900	0.900	0.900	1.19E-13	proteins	ENGNOW
ENGG000010999	beta-tubulin related protein 2 [Source:HGNC Symbol;Acc:HGNC:1548]	MTL2	0.9664	1.954	7.94E-11	8.39E-09	0.2404									





ENGG000018662	luffase2 2 Source HMG Symbol:Acc:HMG-20392	LUFF2	0.3640	1.3973	6.5460	0.0002	-0.1944	1.4444	0.0139	0.1272	-1.2076	0.0004	0.0037	20.1212	1	protein	ENGG000018662
ENGG000018664	transmembrane channel like 1 Source HMG Symbol:Acc:HMG-22991	TMLC1	0.3288	1.2520	4.0528	0.0002	-0.2556	1.4657	1.1569	0.0109	-1.2115	0.0004	0.0037	4.2163	1	protein	ENGG000018664
ENGG000018665	lysine specific aminotransferase 1F84 Source HMG Symbol:Acc:HMG-12390	LSTY1	0.3843	1.2704	6.3054	0.0002	-0.2634	1.4657	1.1569	0.0109	-1.2115	0.0004	0.0037	4.2163	1	protein	ENGG000018665
ENGG000018667	beta3 Source HMG Symbol:Acc:HMG-7883	NOTCH3	0.2903	1.2259	5.7760	0.0002	-0.2403	1.3019	1.7269	0.0109	-1.1287	0.0004	0.0037	2.6249	1	protein	ENGG000018667
ENGG000018669	retinol GDI synthase 1 Source HMG Symbol:Acc:HMG-21388	RSDS1	0.3485	1.2884	6.5884	0.0002	-0.2485	1.3984	1.7269	0.0109	-1.1287	0.0004	0.0037	4.2163	1	protein	ENGG000018669
ENGG000018670	sesame 4, epoxide-related protein epoxide Source HMG Symbol:Acc:HMG-15061	ESAP4	0.2724	1.1909	5.8004	0.0002	-0.2002	1.4070	1.6014	0.0109	-1.0312	0.0004	0.0037	1.9782	1	protein	ENGG000018670
ENGG000018672	serpin peptidase inhibitor, clade 1 (heparin binding) 47, member 1 (collagen binding protein 1) Source HMG Symbol:Acc:HMG-20777	SPHRP1	0.2576	1.1675	4.0934	0.0002	-0.1322	1.0814	0.6249	0.0109	-0.2928	0.0004	0.0037	1.5242	1	protein	ENGG000018672
ENGG000018673	interferon gamma receptor 2 Source HMG Symbol:Acc:HMG-19381	IFNGR2	0.3491	1.2691	6.5460	0.0002	-0.2485	1.3984	1.7269	0.0109	-1.1287	0.0004	0.0037	4.2163	1	protein	ENGG000018673
ENGG000018675	lectin, mannose-binding 1 Source HMG Symbol:Acc:HMG-6631	MBL1	0.2480	1.1879	4.7170	0.0002	-0.1795	1.3009	1.1112	0.1240	-0.4822	0.0004	0.0037	3.7748	1	protein	ENGG000018675
ENGG000018676	CD44 molecule, isoform 1 (cell surface hyaluronate binding) 1 Source HMG Symbol:Acc:HMG-1681	CD44	0.2707	1.1879	4.7170	0.0002	-0.1795	1.3009	1.1112	0.1240	-0.4822	0.0004	0.0037	3.7748	1	protein	ENGG000018676
ENGG000018677	actuator-repressor complex 1, beta3 1 subunit Source HMG Symbol:Acc:HMG-5681	AP3D3	0.2237	1.1071	3.8306	0.0002	-0.1103	1.0729	0.3746	0.0109	-0.2405	0.0004	0.0037	1.4462	1	protein	ENGG000018677
ENGG000018678	beta-tylphosphoglucohydrolase, repressor (glycosyltransferase subunit (non-catalytic)) Source HMG Symbol:Acc:HMG-22480	BGOST7	0.2194	1.1643	4.2410	0.0002	-0.2365	1.1762	7.8987	0.0109	-1.3385	0.0004	0.0037	3.9213	1	protein	ENGG000018678
ENGG000018680	retinol-containing protein 1 Source HMG Symbol:Acc:HMG-12668	RCP1	0.3288	1.2520	4.0528	0.0002	-0.2556	1.4657	1.1569	0.0109	-1.2115	0.0004	0.0037	4.2163	1	protein	ENGG000018680
ENGG000018682	transmembrane eme24 domain trafficking protein 1 Source HMG Symbol:Acc:HMG-16996	TMD02	0.1905	1.1412	3.7800	0.0002	-0.2708	1.1440	0.9270	0.0109	-0.9448	0.0004	0.0037	1.8224	1	protein	ENGG000018682
ENGG000018683	G protein-coupled receptor 110 Source HMG Symbol:Acc:HMG-18990	GPCR110	0.2002	1.1489	4.0760	0.0002	-0.2033	1.0235	0.4364	0.0109	-0.7818	0.0004	0.0037	1.0102	1	protein	ENGG000018683
ENGG000018684	forward box N1 Source HMG Symbol:Acc:HMG-1232	FBXN1	0.2024	1.1579	4.9862	0.0002	-0.2024	1.0979	0.2557	0.0109	-0.1777	0.0004	0.0037	2.6249	1	protein	ENGG000018684
ENGG000018685	protease, serine, 12 (neurotrophin, metalloprotease) Source HMG Symbol:Acc:HMG-3477	PRSS12	0.2961	1.2278	5.2064	0.0002	-0.2143	1.2634	1.8365	0.0109	-1.1551	0.0004	0.0037	2.9512	1	protein	ENGG000018685
ENGG000018686	interferon-inducible serine threonine kinase 2 Source HMG Symbol:Acc:HMG-4961	IFIT4	0.3088	1.2691	6.5460	0.0002	-0.2485	1.3984	1.7269	0.0109	-1.1287	0.0004	0.0037	4.2163	1	protein	ENGG000018686
ENGG000018687	lysine cluster 4, alpha Source HMG Symbol:Acc:HMG-9734	LYSC4	0.2993	1.2393	6.4862	0.0002	-0.2485	1.3984	1.7269	0.0109	-1.1287	0.0004	0.0037	4.2163	1	protein	ENGG000018687
ENGG000018692	myotubular related protein 10 Source HMG Symbol:Acc:HMG-25599	MYOT10	0.3891	1.3295	5.0108	0.0002	-0.1985	1.4415	1.6143	0.0109	-1.1493	0.0004	0.0037	5.9768	1	protein	ENGG000018692
ENGG000018693	long finger protein 12B, C1, alpha domain protein 1 Source HMG Symbol:Acc:HMG-21553	LFN12B	0.2823	1.2314	5.2862	0.0002	-0.2123	1.2928	0.8283	0.0109	-0.7858	0.0004	0.0037	6.9096	1	protein	ENGG000018693
ENGG000018694	synaptobrevin 1 Source HMG Symbol:Acc:HMG-11498	SNCA1	0.4031	1.3242	6.0040	0.0002	-0.2485	1.3984	1.7269	0.0109	-1.1287	0.0004	0.0037	4.2163	1	protein	ENGG000018694
ENGG000018992	interferon-induced protein with tetratricopeptide repeats 2 Source HMG Symbol:Acc:HMG-5409	IFIT2	0.4463	1.3623	4.1406	0.0002	-0.2743	1.2094	0.0002	0.0029	-0.6229	0.0004	0.0037	5.9482	1	protein	ENGG000018992
ENGG000019000	SH2 domain containing HMG-interacting protein Source HMG Symbol:Acc:HMG-23953	SH2D3	0.2658	1.1928	3.2983	0.0002	-0.2658	1.2983	0.0002	0.0029	-0.6229	0.0004	0.0037	2.5322	1	protein	ENGG000019000
ENGG000019008	transmembrane protein 63C Source HMG Symbol:Acc:HMG-23797	TMEM63C	0.5188	1.4326	6.8202	0.0002	-0.4613	1.6777	1.1226	0.0109	-0.6098	0.0004	0.0037	7.8167	1	protein	ENGG000019008
ENGG000019015	beta family CTDP4 Source HMG Symbol:Acc:HMG-8354	CTDP4	0.6308	1.6207	6.5002	0.0002	-0.5115	1.5192	0.0002	0.0029	-0.6098	0.0004	0.0037	7.8167	1	protein	ENGG000019015
ENGG000019016	serpinin Source HMG Symbol:Acc:HMG-12492	SERP1	0.4593	1.4093	7.5112	0.0002	-0.3492	1.5124	0.0002	0.0029	-0.6098	0.0004	0.0037	6.4862	1	protein	ENGG000019016
ENGG000019022	serpin 17 Source HMG Symbol:Acc:HMG-8427	SERP17	0.4557	1.3714	7.1004	0.0002	-0.3885	1.2188	0.0002	0.0029	-0.6098	0.0004	0.0037	6.4862	1	protein	ENGG000019022
ENGG000019047	beta-actin-binding protein 5 (neuronal-associated) Source HMG Symbol:Acc:HMG-3560	ABP5	0.3508	1.2754	6.7004	0.0002	-0.2556	1.2794	0.8283	0.0109	-1.1764	0.0004	0.0037	8.4462	1	protein	ENGG000019047
ENGG000019074	angiotensin II receptor-associated protein Source HMG Symbol:Acc:HMG-13539	AGTRAP	0.3488	1.2664	6.0640	0.0002	-0.2428	1.1366	0.0002	0.0029	-0.6098	0.0004	0.0037	1.4008	1	protein	ENGG000019074
ENGG000019444	suppressor of tumorigenesis 5 Source HMG Symbol:Acc:HMG-13350	ST5	0.322	1.2501	6.8310	0.0002	-0.243	1.303	0.8416	0.0109	-0.9398	0.0004	0.0037	1.4248	1	protein	ENGG000019444
ENGG000019454	lysine prolyl 4-aminotransferase, cytosolic, alpha Source HMG Symbol:Acc:HMG-6736	LPA4	0.2603	1.1862	4.9104	0.0002	-0.2143	1.1021	0.9094	0.0109	-0.8416	0.0004	0.0037	4.4416	1	protein	ENGG000019454
ENGG000019856	glucosyltransferase complex, subunit (non-catalytic) Source HMG Symbol:Acc:HMG-24448	GT48C1	0.2738	1.2088	6.6210	0.0002	-0.2143	1.1021	4.7669	0.0109	-1.1493	0.0004	0.0037	4.6862	1	protein	ENGG000019856
ENGG000020079	glucosyltransferase 2 Source HMG Symbol:Acc:HMG-24448	GT48C2	0.2487	1.2088	6.6210	0.0002	-0.2143	1.1021	4.7669	0.0109	-1.1493	0.0004	0.0037	4.6862	1	protein	ENGG000020079
ENGG000019938	glucosyltransferase 1, subcomponent 1a Source HMG Symbol:Acc:HMG-21265	GT1A	0.2458	1.1951	6.2852	0.0002	-0.2143	1.0729	0.3903	0.0109	-0.9398	0.0004	0.0037	9.2562	1	protein	ENGG000019938
ENGG000019954	channel intracellular channel 1 Source HMG Symbol:Acc:HMG-13518	CLIC1	0.2477	1.1873	8.8704	0.0002	-0.2438	1.0663	0.0002	0.0029	-0.6229	0.0004	0.0037	6.8612	1	protein	ENGG000019954
ENGG000019956	actin-binding homology 2 (actin-binding) Source HMG Symbol:Acc:HMG-7183	ABH2	0.2464	1.1873	6.5862	0.0002	-0.2438	1.0663	0.0002	0.0029	-0.6229	0.0004	0.0037	6.8612	1	protein	ENGG000019956
ENGG000019719	glutamate receptor, ionotropic, N-methyl D-aspartate-associated protein 1 (glutamate binding) Source HMG Symbol:Acc:HMG-4241	GRIN1	0.2453	1.1863	6.0964	0.0002	-0.1979	1.1326	0.0002	0.0029	-0.6229	0.0004	0.0037	3.6662	1	protein	ENGG000019719
ENGG000019320	DLX (Lys-Asp-Glu-Leu) endonuclease-retrotransposon retention receptor 2 Source HMG Symbol:Acc:HMG-4241	DLX2L2	0.2222	1.1669	7.8864	0.0002	-0.2838	1.2174	2.3267	0.0109	-1.4518	0.0004	0.0037	6.7816	1	protein	ENGG000019320
ENGG000018610	ACE2 (protease) Source HMG Symbol:Acc:HMG-20392	ACE2	0.3716	1.5164	6.9134	0.0002	-0.2143	1.1021	0.9184	0.0109	-0.9398	0.0004	0.0037	3.1212	1	protein	ENGG000018610
ENGG000019454	interleukin 20 receptor beta Source HMG Symbol:Acc:HMG-6004	IL20RB	0.2040	1.1123	3.7884	0.0002	-0.2040	1.0414	0.1193	0.0109	-0.5772	0.0004	0.0037	1.0009	1	protein	ENGG000019454
ENGG000019456	catenin 1 Source HMG Symbol:Acc:HMG-1230	CTNN1	0.2238	1.1104	6.4504	0.0002	-0.2238	1.0663	0.0002	0.0029	-0.6229	0.0004	0.0037	6.8612	1	protein	ENGG000019456
ENGG000019457	beta-actin-binding homology 2 (actin-binding) Source HMG Symbol:Acc:HMG-7183	ABH2	0.2464	1.1873	6.5862	0.0002	-0.2438	1.0663	0.0002	0.0029	-0.6229	0.0004	0.0037	6.8612	1	protein	ENGG000019457
ENGG000019458	myosin regulatory chain, transmembrane protein Source HMG Symbol:Acc:HMG-21155	MYR1	0.1968	1.1661	8.9214	0.0002	-0.2143	1.1021	2.5614	0.0109	-1.6729	0.0004	0.0037	1.5082	1	protein	ENGG000019458
ENGG000019464	IGL (immunoglobulin lambda) 1 Source HMG Symbol:Acc:HMG-2791	IGL1	0.4963	1.8913	6.6414	0.0002	-0.4113	1.8913	6.6414	0.0002	-0.3404	0.0004	0.0037	3.7962	1	protein	ENGG000019464
ENGG000019642	serpin glutathione transferase, small subunit B Source HMG Symbol:Acc:HMG-24045	SERP3B	0.4324	1.4462	8.5304	0.0002	-0.3104	1.2724	0.0002	0.0029	-0.6098	0.0004	0.0037	1.6612	1	protein	ENGG000019642
ENGG000019644	POU class 2 associating factor 1 Source HMG Symbol:Acc:HMG-9211	POU2F1	0.5827	1.4976	7.9710	0.0002	-0.4992	1.4095	0.0002	0.0029	-0.6229	0.0004	0.0037	6.4609	1	protein	ENGG000019644
ENGG000019645	retrotransposon beta, gamma, alpha, beta, delta, epsilon, zeta, eta, theta, iota, kappa, lambda, mu, nu, xi, pi, omicron, rho, sigma, tau, upsilon, phi, chi, psi, omega, phi, theta, iota, kappa, lambda, mu, nu, xi, pi, omicron, rho, sigma, tau, upsilon, phi, chi, psi, omega	FBXN1	0.2024	1.1579	4.9862	0.0002	-0.2024	1.0979	0.2557	0.0109	-0.1777	0.0004	0.0037	2.6249	1	protein	ENGG000019645
ENGG000020177	transmembrane protein 24 Source HMG Symbol:Acc:HMG-27083	TMEM24	0.2779	1.2204	1.1440	0.0002	-0.1968	1.1478	0.0002	0.0029	-0.6098	0.0004	0.0037	2.1113	1	protein	ENGG000020177
ENGG000018876	lysine (DHC) acylase, cytosolic, member 11 Source HMG Symbol:Acc:HMG-410	LDC11	0.2613	1.1862	6.9104	0.0002	-0.2143	1.1021	0.9184	0.0109	-0.9398	0.0004	0.0037	4.4416	1	protein	ENGG000018876
ENGG000018876	lysine (DHC) acylase, cytosolic, member 11 Source HMG Symbol:Acc:HMG-410	LDC11	0.2613	1.1862	6.9104	0.0002	-0.2143	1.1021	0.9184	0.0109	-0.9398	0.0004	0.0037	4.4416	1	protein	ENGG000018876
ENGG000018876	lysine (DHC)																

ENGG000019633	the finger and BTB domain containing 44 [Source HGNC Symbol:Acc:HGNC:25001]	BPT44	0.2820	1.1346	3.586 05	0.001	0.0426	1.03	0.519	0.8077	0.0349	1.2613	5.976 07	1.15E-05	1026.3	1	protein	ENGIN2
ENGG000000187	BTRFA domain containing 1 [Source HGNC Symbol:Acc:HGNC:25286]	BTRFA	0.3853	1.507	3.44E+05	0.001	0.055	1.064	0.712	0.6106	0.4108	1.0376	2.77E-05	1.36E+05	1	protein	ENGIN2	
ENGG0000001840	BTRE domain containing 1 [Source HGNC Symbol:Acc:HGNC:25287]	BTRE	0.3901	1.507	3.44E+05	0.001	0.055	1.064	0.712	0.6106	0.4108	1.0376	2.77E-05	1.36E+05	1	protein	ENGIN2	
ENGG0000001909	butyrate domain containing associated with muscle regeneration 1 [Source HGNC Symbol:Acc:HGNC:24534]	BAMR1	0.5943	2.476	0.0000	0.000	0.5939	1.3137	0.000	0.0042	0.7600	1.6938	4.02E-10	1.45E-08	1033	1	protein	ENGIN2
ENGG0000001979	butyrate 8 [Source HGNC Symbol:Acc:HGNC:6448]	BUT8	1.4503	5.881	0.0000	0.000	1.4503	5.881	0.0000	0.0000	1.4503	5.881	0.0000	0.0000	1033	1	protein	ENGIN2
ENGG0000001662	CC11 homolog C.1 (retrovirus) [Source HGNC Symbol:Acc:HGNC:23400]	CC11C	0.3612	1.494	4.12E+04	0.001	0.441	1.3699	2.00E+07	0.697E+06	0.6474	2.03E+15	1.04E-13	1.68E+22	1	protein	ENGIN2	
ENGG0000001648	integrin alpha 5 (retrovirus) receptor alpha polypeptide [Source HGNC Symbol:Acc:HGNC:6144]	IRIA5	0.3397	1.265	4.07E+04	0.001	0.243	1.183	0.020	0.0313	0.2648	1.2503	0.0007	0.0000	1033	1	protein	ENGIN2
ENGG0000001947	PHL domain containing 1 [Source HGNC Symbol:Acc:HGNC:23389]	PHL1	0.2862	1.166	1.18E+07	0.001	0.2862	1.166	0.001	0.218	0.218	0.218	0.001	0.001	1033	1	protein	ENGIN2
ENGG0000001570	CC13 homolog C.5 (retrovirus) [Source HGNC Symbol:Acc:HGNC:10977]	CC13C	0.2514	1.000	3.99E+05	0.001	0.229	1.1723	0.000	0.0037	0.4818	1.46E+12	7.65E-13	1.0E+23	1	protein	ENGIN2	
ENGG0000000854	butyrate 10 [Source HGNC Symbol:Acc:HGNC:6449]	BUT10	1.2707	5.071	0.0000	0.000	1.2707	5.071	0.0000	0.0000	1.2707	5.071	0.0000	0.0000	1033	1	protein	ENGIN2
ENGG0000001929	loop (ADP ribosyl polymerase 1) [Source HGNC Symbol:Acc:HGNC:2370]	PAPP3	0.3307	1.174	1.06E+05	0.001	0.307	1.2297	1.44E+07	6.71E+06	0.512	1.54E+07	5.44E+05	1.04E+22	1	protein	ENGIN2	
ENGG0000001048	DnaI (Hha40) homolog, subfamily 6 member 1 [Source HGNC Symbol:Acc:HGNC:9439]	DNAK3	0.2111	1.1574	3.97E+04	0.001	0.202	1.2244	1.44E+08	8.09E+07	0.322	1.2505	3.54E+08	1.03E+21	1	protein	ENGIN2	
ENGG0000001049	ketum and integrin alpha 5 (retrovirus) [Source HGNC Symbol:Acc:HGNC:6145]	IRIA5	0.3397	1.265	4.07E+04	0.001	0.243	1.183	0.020	0.0313	0.2648	1.2503	0.0007	0.0000	1033	1	protein	ENGIN2
ENGG0000001854	GLT and NTR1-like family, member 6 [Source HGNC Symbol:Acc:HGNC:23503]	GLT6	0.2703	1.2007	1.039E+05	0.001	0.096	1.0396	0.3883	0.761	0.2344	0.0001	0.001	1.03E+11	1	protein	ENGIN2	
ENGG0000002368	blueberry-like kinase 1 [Source HGNC Symbol:Acc:HGNC:23720]	BLK1	0.3202	1.2428	4.16E+05	0.001	0.0824	1.0588	0.2763	0.6507	0.2786	1.2131	0.0002	0.0021	1.03E+13	1	protein	ENGIN2
ENGG0000000647	breast carcinoma amplified sequence 1 [Source HGNC Symbol:Acc:HGNC:974]	BAC1	0.3588	1.398	1.45E+03	0.001	0.3588	1.398	0.0000	0.0000	1.45E+03	1.45E+03	1.28E+10	2.0E+10	1	protein	ENGIN2	
ENGG0000024461	breast carcinoma amplified sequence 2 [Source HGNC Symbol:Acc:HGNC:11863]	BAC2	0.4546	1.828	1.10E+05	0.001	0.4546	1.828	0.0000	0.0000	1.10E+05	1.10E+05	1.04E+07	1.04E+07	1	protein	ENGIN2	
ENGG0000024462	breast carcinoma amplified sequence 3 [Source HGNC Symbol:Acc:HGNC:11864]	BAC3	0.4546	1.828	1.10E+05	0.001	0.4546	1.828	0.0000	0.0000	1.10E+05	1.10E+05	1.04E+07	1.04E+07	1	protein	ENGIN2	
ENGG0000001838	breast growth factor [Source HGNC Symbol:Acc:HGNC:7800]	BGF	0.2923	1.2079	2.95E+05	0.001	0.2923	1.2079	0.0000	0.0000	2.95E+05	2.95E+05	4.48E+05	1.03E+23	1	protein	ENGIN2	
ENGG0000001875	breast cancer protein 1 [Source HGNC Symbol:Acc:HGNC:11855]	BBCP1	0.3914	1.507	3.44E+05	0.001	0.3914	1.507	0.0000	0.0000	3.44E+05	3.44E+05	5.85E+05	1.03E+23	1	protein	ENGIN2	
ENGG0000000819	Ca <sup>2+</sup> -dependent activator protein 2 [Source HGNC Symbol:Acc:HGNC:16018]	CADP2	0.3886	1.399	4.49E+05	0.001	0.4534	1.3692	1.06E+05	4.02E+05	0.6637	1.88E+14	1.34E+12	1.03E+23	1	protein	ENGIN2	
ENGG0000001490	caseinohemoglobin 7 superfamily member 2 [Source HGNC Symbol:Acc:HGNC:11865]	CMY2	0.2842	1.229	4.62E+05	0.002	0.2842	1.229	0.0000	0.0000	4.62E+05	4.62E+05	6.64E+05	0.0000	1.03E+13	1	protein	ENGIN2
ENGG0000001611	casein A5 [Source HGNC Symbol:Acc:HGNC:543]	ANKA5	0.1865	0.748	4.41E+05	0.002	0.208	1.1981	1.27E+08	0.28	0.28	2.88E+12	1.39E+10	4.07E+27	1	protein	ENGIN2	
ENGG00000018530	case III leukaemia homeobox 1 [Source HGNC Symbol:Acc:HGNC:8632]	CBX1	0.2384	1.178	4.27E+05	0.001	0.208	1.155	0.0000	0.0000	0.0000	1.2378	1.97E+05	1.03E+23	1	protein	ENGIN2	
ENGG00000020718	case III-like receptor 1 [Source HGNC Symbol:Acc:HGNC:13147]	CBX1L	0.4785	1.933	9.42E+05	0.001	0.4785	1.933	0.0000	0.0000	0.0000	1.933	1.02E+05	1.03E+23	1	protein	ENGIN2	
ENGG0000001990	casein kinase I [Source HGNC Symbol:Acc:HGNC:11153]	CK1	0.5727	2.483	4.97E+05	0.001	0.5727	2.483	0.0000	0.0000	4.97E+05	4.97E+05	6.0000	0.001	1.03E+24	1	protein	ENGIN2
ENGG0000000019	casein kinase I domain 1 [Source HGNC Symbol:Acc:HGNC:16066]	CK1D	0.4721	1.928	4.67E+05	0.001	0.4721	1.928	0.0000	0.0000	4.67E+05	4.67E+05	3.1E+07	2.9E+06	1	protein	ENGIN2	
ENGG00000013375	casein kinase I domain 2 [Source HGNC Symbol:Acc:HGNC:16065]	CK1D2	1.1924	4.851	1.05E+06	0.001	1.1924	4.851	0.0000	0.0000	1.05E+06	1.05E+06	4.8E+05	1.03E+24	1	protein	ENGIN2	
ENGG00000019614	CB24 family member 4 [Source HGNC Symbol:Acc:HGNC:19706]	CB24D4	0.2261	1.1697	4.90E+05	0.001	0.4199	1.3379	9.02E+14	1.09E+13	0.5124	1.4246	1.90E+19	2.16E+17	4.0E+26	1	protein	ENGIN2
ENGG00000019757	casein kinase I domain 3 [Source HGNC Symbol:Acc:HGNC:18781]	CK1E	1.138	5.00E+05	0.0000	0.000	1.138	5.00E+05	0.0000	0.0000	1.138	5.00E+05	6.48E+07	1.03E+24	1	protein	ENGIN2	
ENGG00000015064	major facilitator superfamily domain containing 4 [Source HGNC Symbol:Acc:HGNC:25433]	MFS04	0.3639	1.2869	4.91E+05	0.001	0.3639	1.2753	2.51E+05	0.0007	0.0000	4.91E+05	6.0000	1.03E+24	1	protein	ENGIN2	
ENGG00000019028	cytochrome P450, family 1, subfamily A, polypeptide 5 [Source HGNC Symbol:Acc:HGNC:2018]	CYP4A5	0.4187	1.533	1.00E+05	0.001	0.247	1.187	0.028	0.028	0.588	1.5014	5.47E+08	9.2E+05	1.03E+24	1	protein	ENGIN2
ENGG00000019027	cytochrome P450, family 1, subfamily A, polypeptide 6 [Source HGNC Symbol:Acc:HGNC:2019]	CYP4A6	0.4187	1.533	1.00E+05	0.001	0.247	1.187	0.028	0.028	0.588	1.5014	5.47E+08	9.2E+05	1.03E+24	1	protein	ENGIN2
ENGG00000019026	cytochrome P450, family 1, subfamily A, polypeptide 7 [Source HGNC Symbol:Acc:HGNC:1894]	CYP4A7	0.4187	1.533	1.00E+05	0.001	0.247	1.187	0.028	0.028	0.588	1.5014	5.47E+08	9.2E+05	1.03E+24	1	protein	ENGIN2
ENGG00000019025	cytochrome P450, family 1, subfamily A, polypeptide 8 [Source HGNC Symbol:Acc:HGNC:23441]	CYP4A8	0.4187	1.533	1.00E+05	0.001	0.247	1.187	0.028	0.028	0.588	1.5014	5.47E+08	9.2E+05	1.03E+24	1	protein	ENGIN2
ENGG00000022370	cytochrome P450, family 1, subfamily A, polypeptide 9 [Source HGNC Symbol:Acc:HGNC:23807]	CYP4A9	0.4187	1.533	1.00E+05	0.001	0.247	1.187	0.028	0.028	0.588	1.5014	5.47E+08	9.2E+05	1.03E+24	1	protein	ENGIN2
ENGG00000019805	cytochrome P450, family 1, subfamily A, polypeptide 10 [Source HGNC Symbol:Acc:HGNC:7892]	CYP4A10	0.4187	1.533	1.00E+05	0.001	0.247	1.187	0.028	0.028	0.588	1.5014	5.47E+08	9.2E+05	1.03E+24	1	protein	ENGIN2
ENGG00000004219	TD domain family member 2 [Source HGNC Symbol:Acc:HGNC:17175]	TAD2	0.3532	1.2774	5.53E+05	0.001	0.268	1.2024	0.0000	0.0000	0.0000	1.3108	1.36E+08	2.66E+05	1.03E+23	1	protein	ENGIN2
ENGG00000019024	protein phosphatase 1A, cytosolic, dependent 1E [Source HGNC Symbol:Acc:HGNC:9278]	PPP1A1E	0.1428	0.581	1.45E+03	0.001	0.1428	0.581	0.0000	0.0000	0.0000	1.45E+03	1.45E+03	6.48E+07	1.03E+24	1	protein	ENGIN2
ENGG00000022148	casein protein complex, subunit alpha [Source HGNC Symbol:Acc:HGNC:2320]	CPA	0.1129	0.475	5.67E+05	0.001	0.102	1.4428	0.0000	0.0000	0.268	1.142E+06	1.11E+06	1.03E+24	1	protein	ENGIN2	
ENGG00000000736	casein with sequence similarity 234, member A [Source HGNC Symbol:Acc:HGNC:25049]	AM234A	0.2351	1.117	5.87E+05	0.001	0.209	1.032	0.0999	0.329	0.329	1.2499	4.28E+08	1.18E+08	1.03E+23	1	protein	ENGIN2
ENGG00000018129	casein beta protein (TPP-associated factor, 31kDa) [Source HGNC Symbol:Acc:HGNC:2321]	CBP31	0.2351	1.117	5.87E+05	0.001	0.209	1.032	0.0999	0.329	0.329	1.2499	4.28E+08	1.18E+08	1.03E+23	1	protein	ENGIN2
ENGG00000000223	Y-box binding protein 3 [Source HGNC Symbol:Acc:HGNC:2428]	YBX3	0.2213	1.1658	6.17E+05	0.001	0.166	1.0007	0.0196	0.0237	0.1916	1.2238	5.01E+06	1.03E+24	1	protein	ENGIN2	
ENGG00000012061	Carthagen O-acyltransferase [Source HGNC Symbol:Acc:HGNC:2366]	CAAT	0.248	1.187	6.10E+05	0.001	0.248	1.187	0.0000	0.0000	0.0000	6.10E+05	6.10E+05	1.03E+24	1	protein	ENGIN2	
ENGG00000000449	casein kinase I domain 1 [Source HGNC Symbol:Acc:HGNC:16066]	CK1D	0.4721	1.928	4.67E+05	0.001	0.4721	1.928	0.0000	0.0000	4.67E+05	4.67E+05	3.1E+07	2.9E+06	1	protein	ENGIN2	
ENGG00000019147	casein kinase I domain 2 [Source HGNC Symbol:Acc:HGNC:16065]	CK1D2	0.3038	1.2344	6.60E+05	0.001	0.268	1.4007	2.59E+10	1.99E+08	0.6408	1.79E+18	1.79E+18	1.03E+23	1	protein	ENGIN2	
ENGG00000018614	casein, beta 1 class II [Source HGNC Symbol:Acc:HGNC:28150]	CB1	0.1885	0.726	2.44E+05	0.001	0.1885	0.726	0.0000	0.0000	2.44E+05	2.44E+05	2.16E+06	1.03E+23	1	protein	ENGIN2	
ENGG00000015047	eukaryotic translation initiation factor 3A [Source HGNC Symbol:Acc:HGNC:3300]	EIF3A	0.1832	0.727	6.66E+05	0.001	0.1832	0.727	1.1704	2.44E+05	0.0000	5.40E+13	2.97E+11	1.03E+24	1	protein	ENGIN2	
ENGG00000015256	phosphothalamic acid [Source HGNC Symbol:Acc:HGNC:3871]	PTAM	0.3201	1.248	6.67E+05	0.001	0.3201	1.248	0.0000	0.0000	0.0000	1.248	1.36E+08	1.03E+23	1	protein	ENGIN2	
ENGG00000019292	cytochrome oxidase subunit 4, beta 1 isoform [Source HGNC Symbol:Acc:HGNC:592]	COX4B1	0.2429	1.094	6.75E+05	0.001	0.2429	1.094	0.0000	0.0000	0.0000	6.75E+05	3.17E+05	1.03E+24	1	protein	ENGIN2	
ENGG00000018761	HDI domain containing 1 [Source HGNC Symbol:Acc:HGNC:17370]	HDI1	0.2819	1.123	7.12E+05	0.001	0.2819	1.123	0.0000	0.0000	0.0000	1.123	1.01E+13	1.03E+24	1	protein		











ENIG000016429	protein tyrosine phosphatase, non-receptor type 13 [APO-VCDPR (Fas)-associated phosphatase] [Source:HGNC Symbol;Acc:HGNC:11890]	PTPN13	11890	0.0003	0.0019	0.0022	0.0076	0.0699	0.9051	0.2627	1.1997	1.376	0.002	hg21.3	protein	ENIG000016429
ENIG000016430	ubiquitin-protein ligase family member 4 [D-binding protein 1] [Source:HGNC Symbol;Acc:HGNC:12068]	UBP4	12068	0.0007	0.0097	0.0003	0.0097	0.0002	1.0002	0.0002	1.0002	0.0002	0.0002	hg21.3	protein	ENIG000016430
ENIG000016431	heat shock 27kDa protein A [Source:HGNC Symbol;Acc:HGNC:12061]	HSP27	12061	0.2579	1.3174	0.0022	0.1374	0.0022	0.1374	0.0022	0.1374	0.0022	0.0022	hg21.3	protein	ENIG000016431
ENIG000016437	rhomboid protein 12B [Source:HGNC Symbol;Acc:HGNC:10318]	RH12B	10318	0.0021	0.0040	0.0021	0.0040	0.0021	0.0040	0.0021	0.0040	0.0021	0.0021	hg21.42	protein	ENIG000016437
ENIG000016438	heath hemeless [Source:HGNC Symbol;Acc:HGNC:10320]	HEH	10320	0.0048	0.0060	0.0048	0.0060	0.0048	0.0060	0.0048	0.0060	0.0048	0.0048	hg21.3	protein	ENIG000016438
ENIG000016439	CD144 molecule, cadherin [Source:HGNC Symbol;Acc:HGNC:14832]	CD144	14832	0.4605	1.1002	0.0024	0.1019	0.0024	1.0732	0.0024	1.0732	0.0024	0.0024	hg21.3	protein	ENIG000016439
ENIG000016438	glycylglycyl transferase [Source:HGNC Symbol;Acc:HGNC:9273]	GYP	9273	0.1766	1.1102	0.0029	0.0029	0.0029	0.1766	0.0029	0.1766	0.0029	0.0029	hg21.3	protein	ENIG000016438
ENIG000016438	hydroxy dehydrogenase family, member 11 [Source:HGNC Symbol;Acc:HGNC:3978]	HDH11	3978	0.2429	1.1447	0.0029	0.0029	0.0029	1.1447	0.0029	1.1447	0.0029	0.0029	hg21.3	protein	ENIG000016438
ENIG000016432	dyx 19-like 4 (C-epsilon) [Source:HGNC Symbol;Acc:HGNC:72829]	DYX19L4	72829	0.2201	1.1448	0.0024	0.0024	0.0024	1.1448	0.0024	1.1448	0.0024	0.0024	hg21.3	protein	ENIG000016432
ENIG000022159	CD171 [Source:HGNC Symbol;Acc:HGNC:11912]	CD171	11912	0.3017	1.1448	0.0024	0.0024	0.0024	1.1448	0.0024	1.1448	0.0024	0.0024	hg21.3	protein	ENIG000022159
ENIG000016438	KDEL (Ers-Glu) level endoplasmic reticulum protein retention receptor 1 [Source:HGNC Symbol;Acc:HGNC:60814]	KDEL1A	60814	0.0133	0.0133	0.0133	0.0133	0.0133	0.0133	0.0133	0.0133	0.0133	0.0133	hg21.3	protein	ENIG000016438
ENIG0000041667	phosphoglucomutase dehydrogenase [Source:HGNC Symbol;Acc:HGNC:8993]	PHGDH	8993	0.1338	1.0972	0.0024	0.0024	0.0024	1.0972	0.0024	1.0972	0.0024	0.0024	hg21.3	protein	ENIG0000041667
ENIG0000041667	chromosome 11 open reading frame 70 [Source:HGNC Symbol;Acc:HGNC:18188]	C11orf70	18188	0.1338	1.0972	0.0024	0.0024	0.0024	1.0972	0.0024	1.0972	0.0024	0.0024	hg21.3	protein	ENIG0000041667
ENIG000016469	menin family member 3 [Source:HGNC Symbol;Acc:HGNC:26751]	MEF3	26751	0.4603	1.0721	0.0027	0.2663	0.0027	0.7286	0.0027	0.7286	0.0027	0.0027	hg21.1	protein	ENIG000016469
ENIG0000044761	ADP-ribosylation factor 2 [Source:HGNC Symbol;Acc:HGNC:6152]	ARF2	6152	0.1401	1.1181	0.0025	0.0025	0.0025	1.1181	0.0025	1.1181	0.0025	0.0025	hg21.3	protein	ENIG0000044761
ENIG0000044761	predictor of cytokinesis protein 4 [Source:HGNC Symbol;Acc:HGNC:19353]	POCK4	19353	0.1401	1.1181	0.0025	0.0025	0.0025	1.1181	0.0025	1.1181	0.0025	0.0025	hg21.1	protein	ENIG0000044761
ENIG0000043849	actin related protein 2/3 complex, subunit 1B, 41kDa [Source:HGNC Symbol;Acc:HGNC:7041]	ARPC1B	7041	0.1409	1.1129	0.0025	0.0025	0.0025	1.1129	0.0025	1.1129	0.0025	0.0025	hg21.1	protein	ENIG0000043849
ENIG000016799	von Willebrand factor D [Source:HGNC Symbol;Acc:HGNC:7647]	VWF	7647	0.4848	1.0638	0.0025	0.0025	0.0025	1.0638	0.0025	1.0638	0.0025	0.0025	hg21.3	protein	ENIG000016799
ENIG0000044547	beta-2-glycoprotein I, subunit 1 [Source:HGNC Symbol;Acc:HGNC:8551]	B2G1	8551	0.2533	1.0638	0.0025	0.0025	0.0025	1.0638	0.0025	1.0638	0.0025	0.0025	hg21.1	protein	ENIG0000044547
ENIG0000039233	lysine 3-monoxygenase/tryptophan 5-monoxygenase activation protein, epsilon [Source:HGNC Symbol;Acc:HGNC:2395]	KMOE1	2395	0.3702	1.2825	0.0025	0.0025	0.0025	1.2825	0.0025	1.2825	0.0025	0.0025	hg21.1	protein	ENIG0000039233
ENIG0000010953	lysine 3-monoxygenase/tryptophan 5-monoxygenase activation protein, epsilon [Source:HGNC Symbol;Acc:HGNC:2395]	KMOE1	2395	0.3702	1.2825	0.0025	0.0025	0.0025	1.2825	0.0025	1.2825	0.0025	0.0025	hg21.1	protein	ENIG0000010953
ENIG0000010973	retinoblastoma binding protein 8 [Source:HGNC Symbol;Acc:HGNC:8891]	RBBP8	8891	0.1934	1.1434	0.0025	0.0025	0.0025	1.1434	0.0025	1.1434	0.0025	0.0025	hg21.2	protein	ENIG0000010973
ENIG0000019429	chemokine (C-X-C motif) ligand 8 [Source:HGNC Symbol;Acc:HGNC:8202]	CCL8	8202	0.4438	1.3983	0.0025	0.0025	0.0025	1.3983	0.0025	1.3983	0.0025	0.0025	hg21.3	protein	ENIG0000019429
ENIG0000019429	retrosynaptic channel tetramerization domain containing 12 [Source:HGNC Symbol;Acc:HGNC:14678]	RTCD12	14678	0.2252	1.2473	0.0025	0.0025	0.0025	1.2473	0.0025	1.2473	0.0025	0.0025	hg21.3	protein	ENIG0000019429
ENIG0000033377	adaptor related protein complex 5, mu 1 subunit [Source:HGNC Symbol;Acc:HGNC:20192]	AP5M1	20192	0.1920	1.1428	0.0025	0.0025	0.0025	1.1428	0.0025	1.1428	0.0025	0.0025	hg21.3	protein	ENIG0000033377
ENIG0000033377	adaptor related protein complex 5, mu 1 subunit [Source:HGNC Symbol;Acc:HGNC:20192]	AP5M1	20192	0.1920	1.1428	0.0025	0.0025	0.0025	1.1428	0.0025	1.1428	0.0025	0.0025	hg21.3	protein	ENIG0000033377
ENIG0000033377	adaptor related protein complex 5, mu 1 subunit [Source:HGNC Symbol;Acc:HGNC:20192]	AP5M1	20192	0.1920	1.1428	0.0025	0.0025	0.0025	1.1428	0.0025	1.1428	0.0025	0.0025	hg21.3	protein	ENIG0000033377
ENIG0000044762	family with sequence similarity 83, member 1 [Source:HGNC Symbol;Acc:HGNC:25148]	FWF1	25148	0.1938	1.1059	0.0025	0.0025	0.0025	1.1059	0.0025	1.1059	0.0025	0.0025	hg21.3	protein	ENIG0000044762
ENIG0000044762	very low density lipoprotein receptor [Source:HGNC Symbol;Acc:HGNC:12486]	VLDLR	12486	0.234	1.1761	0.0024	0.0024	0.0024	1.1761	0.0024	1.1761	0.0024	0.0024	hg21.3	protein	ENIG0000044762
ENIG0000044762	very low density lipoprotein receptor [Source:HGNC Symbol;Acc:HGNC:12486]	VLDLR	12486	0.234	1.1761	0.0024	0.0024	0.0024	1.1761	0.0024	1.1761	0.0024	0.0024	hg21.3	protein	ENIG0000044762
ENIG0000044762	very low density lipoprotein receptor [Source:HGNC Symbol;Acc:HGNC:12486]	VLDLR	12486	0.234	1.1761	0.0024	0.0024	0.0024	1.1761	0.0024	1.1761	0.0024	0.0024	hg21.3	protein	ENIG0000044762
ENIG0000071642	transmembrane protein 30A [Source:HGNC Symbol;Acc:HGNC:25600]	TMEM30A	25600	0.2518	1.1007	0.0024	0.0024	0.0024	1.1007	0.0024	1.1007	0.0024	0.0024	hg21.3	protein	ENIG0000071642
ENIG0000044939	beta-1.9N synthetase [Source:HGNC Symbol;Acc:HGNC:12651]	BARS	12651	0.2047	1.1121	0.0024	0.0024	0.0024	1.1121	0.0024	1.1121	0.0024	0.0024	hg21.3	protein	ENIG0000044939
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396]	PTK6	4396	0.2828	1.0987	0.0024	0.0024	0.0024	1.0987	0.0024	1.0987	0.0024	0.0024	hg21.3	protein	ENIG0000037049
ENIG0000037049	protein tyrosine kinase, non-receptor type 6, protein, beta [Source:HGNC Symbol;Acc:HGNC:4396															





ENGG0000083790	Bas-related GTP binding 8 [Source:HGNC Symbol;Acc:HGNC:19871]	RHGR	0.12409	0.00603	0.07318	0.0942	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000011306	Usher carrier family 25, member 9 [Source:HGNC Symbol;Acc:HGNC:24270]	USC9B9	0.15426	0.00603	0.07318	0.0942	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000042206	Usher interacting protein 190 [Source:HGNC Symbol;Acc:HGNC:42729]	USIP190	0.15426	0.00603	0.07318	0.0942	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000017067	Chromosome 11 open reading frame 24 [Source:HGNC Symbol;Acc:HGNC:11747]	C11orf24	0.2411	0.11821	0.20907	0.07318	1.19008	0.00443	0.04403	0.15199	1.0386	2.07649	0.0000	0.0000	1013.12	1	protein	ENZYME
ENGG0000017068	Wt protein domain 1 [Source:HGNC Symbol;Acc:HGNC:13868]	W1	0.3003	0.15011	0.27814	0.07318	1.38041	0.00887	0.08870	0.30249	1.98465	3.97300	0.0000	0.0000	1013.12	1	protein	ENZYME
ENGG0000016943	heterogeneous nuclear ribonucleoprotein F1 [Source:HGNC Symbol;Acc:HGNC:50398]	HNRNPF	0.12486	0.10603	0.00603	0.11797	1.08851	0.00184	0.00184	0.00184	0.00184	0.00184	0.00184	0.00184	1014.12	1	protein	ENZYME
ENGG0000019285	Usher carrier family 25, member 9 [Source:HGNC Symbol;Acc:HGNC:11761]	USC9B9	0.15426	0.00603	0.07318	0.0942	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000022923	general transcription factor 2, polypeptide 1, 74kDa [Source:HGNC Symbol;Acc:HGNC:4652]	TGTF2.1	0.1923	0.00603	0.07318	0.0942	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000018000	H1 histone family, member 0 [Source:HGNC Symbol;Acc:HGNC:4114]	H1FO	0.3663	0.00603	0.07318	0.0942	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000018001	basic leucine zipper and 92 domain 2 [Source:HGNC Symbol;Acc:HGNC:18001]	BLZ2	0.11306	0.00603	0.07318	0.0942	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000018469	leucine zipper receptor superfamily, member 30 [Source:HGNC Symbol;Acc:HGNC:11904]	LZFR30	0.0743	0.00603	0.07318	0.0942	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000014131	ATPase with coiled coil, actinin repeat and PH domains 2 [Source:HGNC Symbol;Acc:HGNC:16469]	ACAP2	0.1939	0.11821	0.20907	0.07318	1.19008	0.00443	0.04403	0.15199	1.0386	2.07649	0.0000	0.0000	1013.12	1	protein	ENZYME
ENGG0000014132	FGF dependent coiled coil domain containing 2 [Source:HGNC Symbol;Acc:HGNC:26244]	FGCD2	0.1939	0.11821	0.20907	0.07318	1.19008	0.00443	0.04403	0.15199	1.0386	2.07649	0.0000	0.0000	1013.12	1	protein	ENZYME
ENGG0000017473	telomeric octanucleotide repeat domain 29 [Source:HGNC Symbol;Acc:HGNC:29916]	TC29	0.4084	0.12472	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000011148	GTP GDP dissociation inhibitor (GDI) beta [Source:HGNC Symbol;Acc:HGNC:9779]	GHD2B	0.228	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000011149	leucine zipper receptor superfamily, member 30 [Source:HGNC Symbol;Acc:HGNC:11904]	LZFR30	0.0743	0.00603	0.07318	0.0942	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016972	protein phosphatase 1, regulatory subunit 16A [Source:HGNC Symbol;Acc:HGNC:14941]	PPP1R16A	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016973	protein phosphatase 1, regulatory subunit 16B [Source:HGNC Symbol;Acc:HGNC:14942]	PPP1R16B	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016974	protein phosphatase 1, regulatory subunit 16C [Source:HGNC Symbol;Acc:HGNC:14943]	PPP1R16C	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016975	protein phosphatase 1, regulatory subunit 16D [Source:HGNC Symbol;Acc:HGNC:14944]	PPP1R16D	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016976	protein phosphatase 1, regulatory subunit 16E [Source:HGNC Symbol;Acc:HGNC:14945]	PPP1R16E	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016977	protein phosphatase 1, regulatory subunit 16F [Source:HGNC Symbol;Acc:HGNC:14946]	PPP1R16F	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016978	protein phosphatase 1, regulatory subunit 16G [Source:HGNC Symbol;Acc:HGNC:14947]	PPP1R16G	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016979	protein phosphatase 1, regulatory subunit 16H [Source:HGNC Symbol;Acc:HGNC:14948]	PPP1R16H	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016980	protein phosphatase 1, regulatory subunit 16I [Source:HGNC Symbol;Acc:HGNC:14949]	PPP1R16I	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016981	protein phosphatase 1, regulatory subunit 16J [Source:HGNC Symbol;Acc:HGNC:14950]	PPP1R16J	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016982	protein phosphatase 1, regulatory subunit 16K [Source:HGNC Symbol;Acc:HGNC:14951]	PPP1R16K	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016983	protein phosphatase 1, regulatory subunit 16L [Source:HGNC Symbol;Acc:HGNC:14952]	PPP1R16L	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016984	protein phosphatase 1, regulatory subunit 16M [Source:HGNC Symbol;Acc:HGNC:14953]	PPP1R16M	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016985	protein phosphatase 1, regulatory subunit 16N [Source:HGNC Symbol;Acc:HGNC:14954]	PPP1R16N	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016986	protein phosphatase 1, regulatory subunit 16O [Source:HGNC Symbol;Acc:HGNC:14955]	PPP1R16O	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016987	protein phosphatase 1, regulatory subunit 16P [Source:HGNC Symbol;Acc:HGNC:14956]	PPP1R16P	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016988	protein phosphatase 1, regulatory subunit 16Q [Source:HGNC Symbol;Acc:HGNC:14957]	PPP1R16Q	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016989	protein phosphatase 1, regulatory subunit 16R [Source:HGNC Symbol;Acc:HGNC:14958]	PPP1R16R	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016990	protein phosphatase 1, regulatory subunit 16S [Source:HGNC Symbol;Acc:HGNC:14959]	PPP1R16S	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016991	protein phosphatase 1, regulatory subunit 16T [Source:HGNC Symbol;Acc:HGNC:14960]	PPP1R16T	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016992	protein phosphatase 1, regulatory subunit 16U [Source:HGNC Symbol;Acc:HGNC:14961]	PPP1R16U	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016993	protein phosphatase 1, regulatory subunit 16V [Source:HGNC Symbol;Acc:HGNC:14962]	PPP1R16V	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016994	protein phosphatase 1, regulatory subunit 16W [Source:HGNC Symbol;Acc:HGNC:14963]	PPP1R16W	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016995	protein phosphatase 1, regulatory subunit 16X [Source:HGNC Symbol;Acc:HGNC:14964]	PPP1R16X	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016996	protein phosphatase 1, regulatory subunit 16Y [Source:HGNC Symbol;Acc:HGNC:14965]	PPP1R16Y	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016997	protein phosphatase 1, regulatory subunit 16Z [Source:HGNC Symbol;Acc:HGNC:14966]	PPP1R16Z	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016998	protein phosphatase 1, regulatory subunit 16AA [Source:HGNC Symbol;Acc:HGNC:14967]	PPP1R16AA	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000016999	protein phosphatase 1, regulatory subunit 16AB [Source:HGNC Symbol;Acc:HGNC:14968]	PPP1R16AB	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000017000	protein phosphatase 1, regulatory subunit 16AC [Source:HGNC Symbol;Acc:HGNC:14969]	PPP1R16AC	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000017001	protein phosphatase 1, regulatory subunit 16AD [Source:HGNC Symbol;Acc:HGNC:14970]	PPP1R16AD	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000017002	protein phosphatase 1, regulatory subunit 16AE [Source:HGNC Symbol;Acc:HGNC:14971]	PPP1R16AE	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000017003	protein phosphatase 1, regulatory subunit 16AF [Source:HGNC Symbol;Acc:HGNC:14972]	PPP1R16AF	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000017004	protein phosphatase 1, regulatory subunit 16AG [Source:HGNC Symbol;Acc:HGNC:14973]	PPP1R16AG	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000017005	protein phosphatase 1, regulatory subunit 16AH [Source:HGNC Symbol;Acc:HGNC:14974]	PPP1R16AH	0.2198	0.1172	0.00603	0.07318	1.0675	0.344	0.7311	0.9309	1.5239	0.0029	0.0188x	1011.21	1	protein	ENZYME	
ENGG0000017006	protein phosphatase 1, regulatory subunit 16AI [Source:HGNC Symbol;Acc:HGNC:14975]	PPP1R16AI	0.2198	0.1172	0.00603													





ENSG00000100986	DNA domain containing 93 [Source HGNC Symbol:AC:HNC:130418]	SHD93	0.1620	1.1131	0.0343	0.1261	0.0738	1.0525	0.2521	0.6037	0.1964	1.1456	0.0029	0.019	4311.3	protein, eukaryotic
ENSG0000024516	long intergenic non-coding RNA 504 [Source HGNC Symbol:AC:HNC:48736]	LINC00960	0.2434	1.638	0.0361	0.2374	0.0571	1.0503	0.7952	0.2974	0.2074	1.069	0.0009	0.009	1.008	antisense lincRNA, lincRNA
ENSG00000039187	Ribosomal protein, large 19 [Source HGNC Symbol:AC:HNC:10271]	RLP19	0.1967	1.349	0.0367	0.1945	0.0743	1.0943	0.2547	0.647	0.206	1.074	4.91E-05	0.007	1.008	protein, eukaryotic
ENSG00000100985	ARFAP with transmembrane, cytosin repeat and PH domain 1 [Source HGNC Symbol:AC:HNC:16922]	ARFAP1	0.1957	1.1463	0.0349	0.1971	0.1091	1.0991	0.3525	0.629	0.224	1.067	0.0029	0.007	1.008	protein, eukaryotic
ENSG00000040453	lysine-specific histone acetyltransferase 1 [Source HGNC Symbol:AC:HNC:11531]	LYST	0.1881	1.401	0.0352	0.1876	0.0418	1.0986	0.3176	0.643	0.218	1.041	0.0002	0.002	1.008	protein, eukaryotic
ENSG00000100140	WDR repeat domain 13 [Source HGNC Symbol:AC:HNC:14192]	WDR13	0.1704	1.1704	0.0341	0.1722	0.1074	1.0741	0.4402	0.619	0.211	1.041	0.0014	0.004	1.011	protein, eukaryotic
ENSG00000100945	heterogeneous nuclear ribonucleoprotein A/B [Source HGNC Symbol:AC:HNC:5034]	HNRNPAB	0.1701	1.997	0.0345	0.1727	0.1079	1.079	0.699	0.208	0.151	1.051	8.8E-05	0.011	1.011	protein, eukaryotic
ENSG00000202939	Ras-related GTP binding 3 [Source HGNC Symbol:AC:HNC:13931]	RABGAP3	0.1679	1.129	0.0349	0.1728	0.1129	1.074	0.347	0.642	0.217	1.06	0.002	0.002	1.011	protein, eukaryotic
ENSG00000000183	Chromatin (C, X, Y) motif ligand 2 [Source HGNC Symbol:AC:HNC:4663]	CK2L2	0.1703	1.207	0.0347	0.1734	0.1212	1.073	0.623	0.484	0.209	1.199	0.0002	0.0019	1.011	protein, eukaryotic
ENSG00000102231	CEB1-associated factor 3 [Source HGNC Symbol:AC:HNC:41861]	CEB1AF3	0.1697	1.297	0.0347	0.1731	0.1197	1.094	0.499	0.689	0.207	1.099	0.0002	0.002	1.011	protein, eukaryotic
ENSG00000100984	protein phosphatase 2A catalytic subunit 1 [Source HGNC Symbol:AC:HNC:908]	PPP2A1	0.1729	1.127	0.0349	0.1734	0.1094	1.074	0.249	0.629	0.215	0.95	0.0002	0.0003	1.011	protein, eukaryotic
ENSG00000100173	Juncton plakoglobin [Source HGNC Symbol:AC:HNC:5207]	JUP	0.1031	1.073	0.0347	0.1037	0.0949	1.004	0.097	0.976	0.127	1.095	0.0042	0.028	1.011	protein, eukaryotic
ENSG00000100181	myofibrin-associated protein D [Source HGNC Symbol:AC:HNC:11348]	MYO1D	0.1031	1.073	0.0347	0.1037	0.0949	1.004	0.097	0.976	0.127	1.095	0.0042	0.028	1.011	protein, eukaryotic
ENSG00000100243	Chi3 protein oncogene 1, C.13 ubiquitin protein ligase [Source HGNC Symbol:AC:HNC:11961]	CHIC1	0.2836	1.074	0.0348	0.1071	0.1217	1.074	0.1217	0.108	0.121	1.065	0.0002	0.0002	1.011	protein, eukaryotic
ENSG00000100120	UPF8 domain containing 1 [Source HGNC Symbol:AC:HNC:13526]	UPF8D1	0.2360	1.194	0.0348	0.2360	0.0959	1.0407	0.507	0.824	0.209	1.040	0.002	0.002	1.024	protein, eukaryotic
ENSG00000070797	RNA binding motif, single-strand interacting protein 1 [Source HGNC Symbol:AC:HNC:9909]	RSB1	0.1297	1.053	0.0349	0.1297	0.0963	1.053	0.385	0.214	0.136	1.003	0.0002	0.0002	1.011	protein, eukaryotic
ENSG00000100120	regulator of calcineurin 1 [Source HGNC Symbol:AC:HNC:3040]	RCAN1	0.2360	1.178	0.0349	0.2360	0.0959	1.0407	0.507	0.824	0.209	1.040	0.002	0.002	1.024	protein, eukaryotic
ENSG00000100982	RNA 5' triphosphatase [Source HGNC Symbol:AC:HNC:42929]	RNHP21	0.1808	1.028	0.0351	0.1803	0.138	1.058	0.075	0.98	0.127	1.095	0.0002	0.0002	1.011	protein, eukaryotic
ENSG00000100986	ectodermic A receptor [Source HGNC Symbol:AC:HNC:3901]	EDAR	0.1825	1.093	0.0351	0.1825	0.0963	1.093	0.366	0.695	0.209	1.093	0.0002	0.0002	1.011	protein, eukaryotic
ENSG00000000454	heparin repeat containing, nuclear envelope 2 [Source HGNC Symbol:AC:HNC:12084]	HNPE2	0.1847	1.093	0.0351	0.1847	0.0963	1.093	0.366	0.695	0.209	1.093	0.0002	0.0002	1.011	protein, eukaryotic
ENSG00000100181	leukin cell factor 23 [Source HGNC Symbol:AC:HNC:10973]	LEF23	0.1855	1.093	0.0352	0.1855	0.0963	1.093	0.366	0.695	0.209	1.093	0.0002	0.0002	1.011	protein, eukaryotic
ENSG00000100141	angiosarcoma MYMV integrating site family, member 5A [Source HGNC Symbol:AC:HNC:12784]	WNT5A	0.2283	1.1674	0.0354	0.2283	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095	0.002	0.002	1.011	protein, eukaryotic
ENSG00000100170	potassium inwardly-rectifying channel, subfamily A, member 2 [Source HGNC Symbol:AC:HNC:6261]	KCNJ2	0.2077	1.158	0.0354	0.2077	0.0888	1.048	0.792	0.414	0.148	1.095				

ENGG000044567	family with sequence similarity 134, member A [Source:HGNC Symbol;Acc:HGNC:28400]	FAM134A	0.1440	0.0211	0.1638	0.1219	1.0881	0.0463	0.2521	0.2139	1.1599	0.0096	0.0029	1.265	1	protein	ENGNW
ENGG000000897	dyx19c1 family member 1 [Source:HGNC Symbol;Acc:HGNC:11344]	DYX19C1	0.1718	0.0211	0.1810	0.1018	1.0318	0.0161	0.1910	0.2126	1.1700	0.0103	0.0019	1.270	1	protein	ENGNW
ENGG000000418	cytochrome b5 [Source:HGNC Symbol;Acc:HGNC:1930]	CYP2B1	0.1744	0.0211	0.1810	0.1018	1.0318	0.0161	0.1910	0.2126	1.1700	0.0103	0.0019	1.270	1	protein	ENGNW
ENGG000000925	lysine nucleoside binding protein like 3 [Ensembl] [Source:HGNC Symbol;Acc:HGNC:29913]	NLS3	0.1427	0.1810	0.0211	0.0448	1.2409	0.5387	0.077	0.3413	2.2767	0.045	0.0078	6.718	07	protein	ENGNW
ENGG000000433	transmembrane domain beta 3-like cytochrome b5-hydroxylase domain, isoforms B and C [Ensembl]	CYP2B1B	0.1810	0.1810	0.1810	0.1810	1.810	0.1810	0.1810	1.810	1.810	0.1810	0.1810	1.810	1	protein	ENGNW
ENGG000000444	muscle 2b, cell surface associated [Source:HGNC Symbol;Acc:HGNC:21661]	MUC21B	0.1810	0.0211	0.1810	0.0211	1.810	0.0211	0.0211	0.0211	1.810	0.0211	0.0211	1.810	1	protein	ENGNW
ENGG000000679	subglottal region 28 [Source:HGNC Symbol;Acc:HGNC:20161]	IGFBP28	0.1810	0.0211	0.1810	0.0211	1.810	0.0211	0.0211	0.0211	1.810	0.0211	0.0211	1.810	1	protein	ENGNW
ENGG000000049	cytochrome b5-hydroxylase T-type, alpha 3H [Source:HGNC Symbol;Acc:HGNC:1395]	CYP2B1T3	0.1810	0.0211	0.1810	0.0211	1.810	0.0211	0.0211	0.0211	1.810	0.0211	0.0211	1.810	1	protein	ENGNW
ENGG000000107	chromoblastin homolog 7 [Source:HGNC Symbol;Acc:HGNC:1557]	CHKB7	0.2350	0.0211	0.2350	0.0211	2.350	0.0211	0.0211	0.0211	2.350	0.0211	0.0211	2.350	1	protein	ENGNW
ENGG0000003078	transmembrane type 2 (cellular) [Source:HGNC Symbol;Acc:HGNC:11466]	TMEM22	0.2700	0.0211	0.2700	0.0211	2.700	0.0211	0.0211	0.0211	2.700	0.0211	0.0211	2.700	1	protein	ENGNW
ENGG0000004132	glyceraldehyde 3-phosphate dehydrogenase 2 [Source:HGNC Symbol;Acc:HGNC:18143]	GAPDH2	0.3511	0.0211	0.3511	0.0211	3.511	0.0211	0.0211	0.0211	3.511	0.0211	0.0211	3.511	1	protein	ENGNW
ENGG0000001006	transmembrane domain containing 11 [Source:HGNC Symbol;Acc:HGNC:28030]	TMEM11	0.1520	0.0211	0.1520	0.0211	1.520	0.0211	0.0211	0.0211	1.520	0.0211	0.0211	1.520	1	protein	ENGNW
ENGG0000001304	polyphosphatase from bacterium 1 [Source:HGNC Symbol;Acc:HGNC:2693]	PPEP1	0.1810	0.0211	0.1810	0.0211	1.810	0.0211	0.0211	0.0211	1.810	0.0211	0.0211	1.810	1	protein	ENGNW
ENGG0000001274	DOB and CIA associated factor 10 [Source:HGNC Symbol;Acc:HGNC:23868]	DOCAF10	0.1146	0.0211	0.1146	0.0211	1.146	0.0211	0.0211	0.0211	1.146	0.0211	0.0211	1.146	1	protein	ENGNW
ENGG0000004438	N-acyl phosphatidylethanolamine phospholipase 5 [Source:HGNC Symbol;Acc:HGNC:21683]	NAPPLD5	0.2390	0.0211	0.2390	0.0211	2.390	0.0211	0.0211	0.0211	2.390	0.0211	0.0211	2.390	1	protein	ENGNW
ENGG0000001104	hepatic and erythrocyte 1 [Source:HGNC Symbol;Acc:HGNC:1479]	HES1	0.1590	0.0211	0.1590	0.0211	1.590	0.0211	0.0211	0.0211	1.590	0.0211	0.0211	1.590	1	protein	ENGNW
ENGG0000001137	PERP, TP53 associated factor [Source:HGNC Symbol;Acc:HGNC:17837]	PERP	0.1054	0.0211	0.1054	0.0211	1.054	0.0211	0.0211	0.0211	1.054	0.0211	0.0211	1.054	1	protein	ENGNW
ENGG0000000749	glycoprotein 1 [Source:HGNC Symbol;Acc:HGNC:4248]	GPVI	0.20	0.0211	0.20	0.0211	0.20	0.0211	0.0211	0.0211	0.20	0.0211	0.0211	0.20	1	protein	ENGNW
ENGG0000000548	WDR domain containing transcription regulator 4 [Source:HGNC Symbol;Acc:HGNC:24942]	WDR13	0.1810	0.0211	0.1810	0.0211	1.810	0.0211	0.0211	0.0211	1.810	0.0211	0.0211	1.810	1	protein	ENGNW
ENGG00000014564	neuronal cell adhesion molecule 2 [Source:HGNC Symbol;Acc:HGNC:7857]	NCAN2	0.3443	0.0211	0.3443	0.0211	3.443	0.0211	0.0211	0.0211	3.443	0.0211	0.0211	3.443	1	protein	ENGNW
ENGG0000000619	biological family members 5 [Source:HGNC Symbol;Acc:HGNC:28327]	BOL5	0.2980	0.0211	0.2980	0.0211	2.980	0.0211	0.0211	0.0211	2.980	0.0211	0.0211	2.980	1	protein	ENGNW
ENGG00000016430	globule carrier family 22, member 15 [Source:HGNC Symbol;Acc:HGNC:20391]	GCC22A15	0.2523	0.0211	0.2523	0.0211	2.523	0.0211	0.0211	0.0211	2.523	0.0211	0.0211	2.523	1	protein	ENGNW
ENGG00000001199	lysine nucleoside binding protein (G protein), beta polypeptide 4 [Source:HGNC Symbol;Acc:HGNC:20734]	SNB4	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000001206	lysine nucleoside binding protein (G protein), beta polypeptide 5 [Source:HGNC Symbol;Acc:HGNC:20735]	SNB5	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000011678	chromosome 12 open reading frame 57 [Source:HGNC Symbol;Acc:HGNC:29521]	C12orf57	0.1820	0.0211	0.1820	0.0211	1.820	0.0211	0.0211	0.0211	1.820	0.0211	0.0211	1.820	1	protein	ENGNW
ENGG00000000448	lysine nucleoside binding protein (G protein), beta polypeptide 6 [Source:HGNC Symbol;Acc:HGNC:20736]	SNB6	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000676	lysine nucleoside binding protein (G protein), beta polypeptide 7 [Source:HGNC Symbol;Acc:HGNC:20737]	SNB7	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000677	lysine nucleoside binding protein (G protein), beta polypeptide 8 [Source:HGNC Symbol;Acc:HGNC:20738]	SNB8	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000678	lysine nucleoside binding protein (G protein), beta polypeptide 9 [Source:HGNC Symbol;Acc:HGNC:20739]	SNB9	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000679	lysine nucleoside binding protein (G protein), beta polypeptide 10 [Source:HGNC Symbol;Acc:HGNC:20740]	SNB10	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000680	lysine nucleoside binding protein (G protein), beta polypeptide 11 [Source:HGNC Symbol;Acc:HGNC:20741]	SNB11	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000681	lysine nucleoside binding protein (G protein), beta polypeptide 12 [Source:HGNC Symbol;Acc:HGNC:20742]	SNB12	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000682	lysine nucleoside binding protein (G protein), beta polypeptide 13 [Source:HGNC Symbol;Acc:HGNC:20743]	SNB13	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000683	lysine nucleoside binding protein (G protein), beta polypeptide 14 [Source:HGNC Symbol;Acc:HGNC:20744]	SNB14	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000684	lysine nucleoside binding protein (G protein), beta polypeptide 15 [Source:HGNC Symbol;Acc:HGNC:20745]	SNB15	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000685	lysine nucleoside binding protein (G protein), beta polypeptide 16 [Source:HGNC Symbol;Acc:HGNC:20746]	SNB16	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000686	lysine nucleoside binding protein (G protein), beta polypeptide 17 [Source:HGNC Symbol;Acc:HGNC:20747]	SNB17	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000687	lysine nucleoside binding protein (G protein), beta polypeptide 18 [Source:HGNC Symbol;Acc:HGNC:20748]	SNB18	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000688	lysine nucleoside binding protein (G protein), beta polypeptide 19 [Source:HGNC Symbol;Acc:HGNC:20749]	SNB19	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000689	lysine nucleoside binding protein (G protein), beta polypeptide 20 [Source:HGNC Symbol;Acc:HGNC:20750]	SNB20	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000690	lysine nucleoside binding protein (G protein), beta polypeptide 21 [Source:HGNC Symbol;Acc:HGNC:20751]	SNB21	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000691	lysine nucleoside binding protein (G protein), beta polypeptide 22 [Source:HGNC Symbol;Acc:HGNC:20752]	SNB22	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000692	lysine nucleoside binding protein (G protein), beta polypeptide 23 [Source:HGNC Symbol;Acc:HGNC:20753]	SNB23	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000693	lysine nucleoside binding protein (G protein), beta polypeptide 24 [Source:HGNC Symbol;Acc:HGNC:20754]	SNB24	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000694	lysine nucleoside binding protein (G protein), beta polypeptide 25 [Source:HGNC Symbol;Acc:HGNC:20755]	SNB25	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000695	lysine nucleoside binding protein (G protein), beta polypeptide 26 [Source:HGNC Symbol;Acc:HGNC:20756]	SNB26	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000696	lysine nucleoside binding protein (G protein), beta polypeptide 27 [Source:HGNC Symbol;Acc:HGNC:20757]	SNB27	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000697	lysine nucleoside binding protein (G protein), beta polypeptide 28 [Source:HGNC Symbol;Acc:HGNC:20758]	SNB28	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000698	lysine nucleoside binding protein (G protein), beta polypeptide 29 [Source:HGNC Symbol;Acc:HGNC:20759]	SNB29	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000699	lysine nucleoside binding protein (G protein), beta polypeptide 30 [Source:HGNC Symbol;Acc:HGNC:20760]	SNB30	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000700	lysine nucleoside binding protein (G protein), beta polypeptide 31 [Source:HGNC Symbol;Acc:HGNC:20761]	SNB31	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000701	lysine nucleoside binding protein (G protein), beta polypeptide 32 [Source:HGNC Symbol;Acc:HGNC:20762]	SNB32	0.3378	0.0211	0.3378	0.0211	3.378	0.0211	0.0211	0.0211	3.378	0.0211	0.0211	3.378	1	protein	ENGNW
ENGG00000000702																	



ENGG000012968	polyketide domain containing 17A [Source HGNC Symbol:AC:HNC:28756]	PHD17A	0.1528	0.0397	0.2601	0.0423	1.0298	0.5609	0.8534	0.2448	1.1767	0.001	0.0087	10133.3	1	protein	GENCODE	
ENGG000012969	coiled coil domain containing 60 [Source HGNC Symbol:AC:HNC:24487]	CC60	0.1788	0.0369	0.2625	0.0722	1.2943	0.7216	0.846	0.101	1.9716	0.001	0.001	154.3	1	protein	GENCODE	
ENGG000012974	transmembrane 1A [Source HGNC Symbol:AC:HNC:41278]	TM1A	0.2401	0.0399	0.2601	0.1851	1.2943	0.7216	0.846	0.101	1.9716	0.001	0.001	154.3	1	protein	GENCODE	
ENGG000012984	coatamer protein complex, subunit beta 1 [Source HGNC Symbol:AC:HNC:2331]	CPB1	0.0983	0.0399	0.2601	0.2409	1.7663	0.9002	0.9002	0.004	1.8136	0.001	0.008	1155.2	1	protein	GENCODE	
ENGG000012975	protein kinase, cAMP-dependent, catalytic, beta 1 [Source HGNC Symbol:AC:HNC:9381]	PKACB1	0.1401	0.0399	0.2601	0.1401	1.8703	0.8703	0.8703	0.001	1.9716	0.001	0.001	1048.1	1	protein	GENCODE	
ENGG000012985	microprocessor protein phosphatase domain containing 5 [Source HGNC Symbol:AC:HNC:28844]	MPD5	0.0698	0.0731	0.0841	0.2411	0.7491	0.1310	0.1310	0.1310	0.1310	0.004	0.001	1161.5	1	protein	GENCODE	
ENGG000013556	myosin VI [Source HGNC Symbol:AC:HNC:7055]	MYO6	0.4073	1.0722	0.0401	0.0401	0.0401	0.109	0.109	0.2101	1.5478	0.001	0.001	1161.5	1	protein	GENCODE	
ENGG000000920	family with sequence similarity 21, member 4 [Source HGNC Symbol:AC:HNC:31418]	WALD1A	0.1147	0.0399	0.2601	0.1147	1.099	0.3121	0.3121	0.3121	0.3121	0.001	0.001	1161.5	1	protein	GENCODE	
ENGG000007492	chromosome 19 open reading frame 70 [Source HGNC Symbol:AC:HNC:11302]	ORF70	0.1493	0.0399	0.2601	0.2418	1.0298	0.4617	0.4617	0.2014	1.2318	0.001	0.008	1161.5	1	protein	GENCODE	
ENGG000010170	chromosome 16 open reading frame 48 [Source HGNC Symbol:AC:HNC:10231]	ORF48	0.1493	0.0399	0.2601	0.2418	1.0298	0.4617	0.4617	0.2014	1.2318	0.001	0.008	1161.5	1	protein	GENCODE	
ENGG000006780	group 1 factor 5 [Source HGNC Symbol:AC:HNC:2715]	GLF5	0.1548	0.0404	0.2601	0.1548	1.2134	0.2141	0.2141	0.2141	0.2141	0.001	0.004	1161.5	1	protein	GENCODE	
ENGG000013177	benzen family member 13A [Source HGNC Symbol:AC:HNC:14566]	BP13A	0.1656	0.0404	0.2601	0.2422	1.0141	0.792	0.792	0.0404	0.2702	0.004	0.039	1161.5	1	protein	GENCODE	
ENGG000013178	RNA binding motif domain containing 1 [Source HGNC Symbol:AC:HNC:28981]	RBMD1	0.1656	0.0404	0.2601	0.2422	1.0141	0.792	0.792	0.0404	0.2702	0.004	0.039	1161.5	1	protein	GENCODE	
ENGG000014152	GATA recruitment domain, member 14 [Source HGNC Symbol:AC:HNC:16446]	CARD14	0.2861	0.0404	0.2601	0.4884	0.8067	0.2627	0.2627	0.0004	0.0004	0.004	0.004	1161.5	1	protein	GENCODE	
ENGG000004665	microtubulin fission regulator 1 [Source HGNC Symbol:AC:HNC:29110]	MIFR1	0.1751	0.1129	0.0407	0.2429	1.3629	0.0939	0.0939	0.2223	1.1511	0.013	0.014	1161.5	1	protein	GENCODE	
ENGG000004666	cytoskeleton-associated protein 1 [Source HGNC Symbol:AC:HNC:29110]	CASP1	0.1751	0.1129	0.0407	0.2429	1.3629	0.0939	0.0939	0.2223	1.1511	0.013	0.014	1161.5	1	protein	GENCODE	
ENGG000004247	ADP-ribosylation factor GTPase activating protein 5 [Source HGNC Symbol:AC:HNC:1661]	ARFGAP5	0.1249	0.0404	0.2601	0.1249	1.0541	0.3041	0.3041	0.0004	0.0004	0.0004	0.003	0.003	22.312	1	protein	GENCODE
ENGG000004153	Nucleo-oligomerization domain 1 beta [Source HGNC Symbol:AC:HNC:7200]	NOUD1B	0.1353	0.0404	0.2601	0.2424	1.0553	0.5553	0.5553	0.1012	0.1012	0.008	0.088	1161.5	1	protein	GENCODE	
ENGG000004154	oligosaccharide 4-galactosyltransferase 1 [Source HGNC Symbol:AC:HNC:9231]	OGT1	0.3979	0.0404	0.2601	0.3979	1.0553	0.5553	0.5553	0.1012	0.1012	0.008	0.088	1161.5	1	protein	GENCODE	
ENGG000010428	transmembrane protease, serine 1 [Source HGNC Symbol:AC:HNC:11877]	MPRSS3	0.3106	0.0404	0.2601	0.2428	1.0683	0.4833	0.4833	0.2641	0.2641	0.048	0.488	21.223	1	protein	GENCODE	
ENGG000001758	carbonic anhydrase VII [Source HGNC Symbol:AC:HNC:1382]	CA7	0.2423	0.0404	0.2601	0.2428	1.0683	0.4833	0.4833	0.2641	0.2641	0.048	0.488	21.223	1	protein	GENCODE	
ENGG000017183	lysine and glycine rich protein 2 [Source HGNC Symbol:AC:HNC:2470]	LSRP2	0.2952	0.1211	0.0427	0.2473	1.2121	0.1217	0.1217	0.5333	1.2529	0.009	0.046	1161.5	1	protein	GENCODE	
ENGG000018961	lectin, galactose binding, soluble 5 [Source HGNC Symbol:AC:HNC:6570]	LGALS5	0.1506	0.0414	0.2601	0.2487	1.0029	0.9538	0.9538	0.1897	0.1897	0.019	0.019	1161.5	1	protein	GENCODE	
ENGG000000842	beta casein binding nuclear protein [Source HGNC Symbol:AC:HNC:3038]	BCN1	0.2033	0.0414	0.2601	0.2487	1.2129	0.0029	0.0029	0.3361	0.3361	0.001	0.001	22.2	1	protein	GENCODE	
ENGG000018103	popliteal 3A like (without C2 domain) [Source HGNC Symbol:AC:HNC:10296]	PP3AL	0.2663	0.0421	0.2601	0.2479	1.0812	0.7684	0.7684	0.0004	0.0004	0.004	0.004	1161.5	1	protein	GENCODE	
ENGG000004157	actin filament domain containing, family C (with broad domain) member 4B [Source HGNC Symbol:AC:HNC:29110]	ACTB4	0.2733	0.0421	0.2601	0.2479	1.0812	0.7684	0.7684	0.0004	0.0004	0.004	0.004	1161.5	1	protein	GENCODE	
ENGG000018104	retinol X receptor, alpha [Source HGNC Symbol:AC:HNC:10477]	RFXA	0.1079	0.0421	0.2601	0.1079	1.0936	0.94	0.94	0.1515	0.1515	0.001	0.001	1161.5	1	protein	GENCODE	
ENGG000011758	ATP binding cassette, sub-family D (ABC), member 3 [Source HGNC Symbol:AC:HNC:67]	ABCD3	0.1106	0.0798	0.2601	0.2078	1.051	0.880	0.880	0.1932	0.1932	0.004	0.047	1161.5	1	protein	GENCODE	
ENGG000023255	hemopoietic interleukin receptor 1 [Source HGNC Symbol:AC:HNC:2007]	IL6R1	0.1233	0.0891	0.0427	0.2636	1.2001	0.007	0.007	0.1575	0.1575	0.005	0.005	1161.5	1	protein	GENCODE	
ENGG000005284	long interspersed non-coding RNA 346 [Source HGNC Symbol:AC:HNC:27492]	LINC0346	0.2837	0.0428	0.2601	0.2601	1.2077	0.0033	0.0033	0.0033	0.0033	0.008	0.008	1161.5	1	lincRNA	GENCODE	
ENGG000004180	actin filament domain containing, family G (with broad domain) member 1 [Source HGNC Symbol:AC:HNC:29110]	ACTG1	0.1889	0.0428	0.2601	0.2601	1.014	0.822	0.822	0.2088	0.2088	0.004	0.004	1161.5	1	protein	GENCODE	
ENGG000017184	ATPase, an ion transporting, cationic, type 4 [Source HGNC Symbol:AC:HNC:21723]	ATP4B	0.1107	0.0428	0.2601	0.2601	1.079	0.2737	0.2737	0.9199	0.9199	0.001	0.001	1161.5	1	protein	GENCODE	
ENGG000010740	MY motif and arginyl repeat domain 1 [Source HGNC Symbol:AC:HNC:19399]	HANK1	0.1552	0.0428	0.2601	0.1552	1.0729	0.3129	0.3129	0.1785	0.1785	0.019	0.019	1161.5	1	protein	GENCODE	
ENGG000014185	MYC like ATX2 2 [Source HGNC Symbol:AC:HNC:10433]	ATX2L2	0.1617	0.0428	0.2601	0.1617	1.0729	0.3129	0.3129	0.1785	0.1785	0.019	0.019	1161.5	1	protein	GENCODE	
ENGG000015510	interferon (alpha, beta, and omega) receptor 2 [Source HGNC Symbol:AC:HNC:5483]	IFNR2	0.1748	0.0433	0.2601	0.2521	1.1845	0.0941	0.0941	0.2077	0.2077	0.004	0.004	1161.5	1	protein	GENCODE	
ENGG000004183	actin filament domain containing, family A member 6 [Source HGNC Symbol:AC:HNC:17053]	ACTA6	0.1431	0.0433	0.2601	0.1431	1.0858	0.3744	0.3744	0.2677	0.2677	0.012	0.012	1161.5	1	protein	GENCODE	
ENGG000004184	actin filament domain containing, family A member 6 [Source HGNC Symbol:AC:HNC:17053]	ACTA6	0.1431	0.0433	0.2601	0.1431	1.0858	0.3744	0.3744	0.2677	0.2677	0.012	0.012	1161.5	1	protein	GENCODE	
ENGG000005172	RNA turnover 4 homolog 5, celexivial [Source HGNC Symbol:AC:HNC:18477]	MRT04	0.1849	0.0437	0.2601	0.1849	1.124	0.2618	0.2618	0.1199	0.1199	0.014	0.014	1161.5	1	protein	GENCODE	
ENGG000016110	POZ and LIM domain 5 [Source HGNC Symbol:AC:HNC:17468]	PLIM5	0.1038	0.0437	0.2601	0.2335	1.0011	0.7445	0.7445	0.157	0.157	0.019	0.019	1161.5	1	protein	GENCODE	
ENGG000016111	small nuclear ribonucleoprotein D1, cytoplasmic 15, beta [Source HGNC Symbol:AC:HNC:11159]	SNRPD1	0.2919	0.0437	0.2601	0.2919	1.202	0.7989	0.7989	0.249	0.249	0.014	0.014	1161.5	1	protein	GENCODE	
ENGG000010178	Wt1/Brachyury factor A domain containing 8 [Source HGNC Symbol:AC:HNC:26101]	WFA8	0.1549	0.044	0.2601	0.2549	1.0396	0.407	0.407	0.2040	0.2040	0.001	0.001	1161.5	1	protein	GENCODE	
ENGG000010179	Wt1/Brachyury factor A domain containing 8 [Source HGNC Symbol:AC:HNC:26101]	WFA8	0.1549	0.044	0.2601	0.2549	1.0396	0.407	0.407	0.2040	0.2040	0.001	0.001	1161.5	1	protein	GENCODE	
ENGG000004186	actin filament domain containing, family C (with broad domain) member 1 [Source HGNC Symbol:AC:HNC:29110]	ACTC1	0.1588	0.044	0.2601	0.1588	1.1778	0.598	0.598	0.1451	0.1451	0.009	0.009	1161.5	1	protein	GENCODE	
ENGG000004187	actin filament domain containing, family C (with broad domain) member 1 [Source HGNC Symbol:AC:HNC:29110]	ACTC1	0.1588	0.044	0.2601	0.1588	1.1778	0.598	0.598	0.1451	0.1451	0.009	0.009	1161.5	1	protein	GENCODE	
ENGG000004188	actin filament domain containing, family C (with broad domain) member 1 [Source HGNC Symbol:AC:HNC:29110]	ACTC1	0.1588	0.044	0.2601	0.1588	1.1778	0.598	0.598	0.1451	0.1451	0.009	0.009	1161.5	1	protein	GENCODE	
ENGG000004189	actin filament domain containing, family C (with broad domain) member 1 [Source HGNC Symbol:AC:HNC:29110]	ACTC1	0.1588	0.044	0.2601	0.1588	1.1778	0.598	0.598	0.1451	0.1451	0.009	0.009	1161.5	1	protein	GENCODE	
ENGG000004190	actin filament domain containing, family C (with broad domain) member 1 [Source HGNC Symbol:AC:HNC:29110]	ACTC1	0.1588	0.044	0.2601	0.1588	1.1778	0.598	0.598	0.1451	0.1451	0.009	0.009	1161.5	1	protein	GENCODE	
ENGG000004191	actin filament domain containing, family C (with broad domain) member 1 [Source HGNC Symbol:AC:HNC:29110]	ACTC1	0.1588	0.044	0.2601	0.1588	1.1778	0.598	0.598	0.1451	0.1451	0.009	0.009	1161.5	1	protein	GENCODE	
ENGG000004192	actin filament domain containing, family C (with broad domain) member 1 [Source HGNC Symbol:AC:HNC:29110]	ACTC1	0.1588	0.044	0.2601	0.1588	1.1778	0.598	0.598	0.1451	0.1451	0.009	0.009	1161.5	1	protein	GENCODE	
ENGG000004193	actin filament domain containing, family C (with broad domain) member 1 [Source HGNC Symbol:AC:HNC:29110]	ACTC1	0.1588	0.044	0.2601	0.1588	1.1778	0.598	0.598	0.1451	0.1451	0.009	0.009	1161.5	1	protein	GENCODE	
ENGG000004194	actin filament domain containing, family C (with broad domain) member 1 [Source HGNC Symbol:AC:HNC:29110]	ACTC1	0.1588	0.044	0.2601	0.1588	1.1778	0.598	0.598	0.1451	0.1451	0.009	0.009	1161.5	1	protein	GENCODE	
ENGG000004195	actin filament domain containing, family C (with broad domain) member 1 [Source HGNC Symbol:AC:HNC:29110]	ACTC1	0.1588	0.044	0.2601	0.1588	1.1778	0.598	0.598	0.1451	0.1451	0.009	0.009	1161.5	1	protein	GENCODE	
ENGG000004196	actin filament domain containing, family C (with broad domain) member 1 [Source HGNC Symbol:AC:HNC:29110]	ACTC1	0.1588	0.044	0.2601	0.1588	1.1778	0.598	0.598	0.1451	0.1451	0.009	0.009	1161.5	1	protein	GENCODE	
ENGG000004197	actin filament domain containing, family C (with broad domain) member 1 [Source HGNC Symbol:AC:HNC:29110]	ACTC1	0.1588	0.044	0.2601	0.1588	1.1778	0.598	0.598	0.1451	0.1451	0.009	0.009	11				







ENGG0000010087	DOH1 and CUL4 associated factor 11 [Source:HGNC Symbol;Acc:HGNC:20258]	DCAF11	0.107	0.0793	0.3668	0.3393	1.1803	4.988_05	0.0012	0.1792	1.1291	0.0038	0.0256	14112	11	protein;eukaryote
ENGG0000010088	HCC domain containing 13 [Source:HGNC Symbol;Acc:HGNC:20197]	HCC13	0.105	0.0788	0.3574	0.3389	1.0999	4.9901	0.0012	0.1792	1.1291	0.0038	0.0256	14112	11	protein;eukaryote
ENGG0000010089	HCC14HLA, antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:20197]	HCC14HLA_AS1	0.105	0.0788	0.3574	0.3389	1.0999	4.9901	0.0012	0.1792	1.1291	0.0038	0.0256	14112	11	protein;eukaryote
ENGG0000010093	chloride channel accessory 1, pore-forming [Source:HGNC Symbol;Acc:HGNC:2017]	CLCAIP	0.2622	1.1993	0.0791	0.3378	1.2373	0.076	0.066	0.0803	0.0481	0.0481	14223	11	transmembrane;eukaryote	
ENGG0000010095	cytochrome oxidase subunit 2 [Source:HGNC Symbol;Acc:HGNC:2384]	COX2	0.1153	0.1043	0.1043	0.1043	1.043	1.043	0.0011	0.0315	0.0315	0.0315	14233	11	protein;eukaryote	
ENGG0000010097	ATPase, H <sup>+</sup> transporting, isoform 42Bb, V1, subunit 1 [Source:HGNC Symbol;Acc:HGNC:16581]	ATP4A2	0.1109	0.0799	0.3601	0.4477	1.0334	0.6789	0.0493	0.1890	0.1890	0.0024	0.0181	14234	11	protein;eukaryote
ENGG0000011824	transmembrane receptor A advanced c12 [Source:HGNC Symbol;Acc:HGNC:19458]	TRAF7	0.1813	1.1138	0.0602	0.3602	1.2088	0.042	0.042	0.2333	1.1835	0.0485	0.0485	14234	11	protein;eukaryote
ENGG0000011706	interferon-related deubiquitinase regulator 2 [Source:HGNC Symbol;Acc:HGNC:14373]	IRF2	0.1093	1.0993	0.0641	0.3623	1.1762	0.344	0.1132	0.1132	0.0448	0.0448	14234	11	protein;eukaryote	
ENGG0000010087	poly(ADP-ribose) induced TNF factor 1 [Source:HGNC Symbol;Acc:HGNC:14841]	PTIP1	0.0754	0.0804	0.3613	1.1709	8.708_08	4.236_06	0.2632	1.2001	5.088_09	1.577_07	14113	11	protein;eukaryote	
ENGG0000011700	PLA2G7, membrane bound [Source:HGNC Symbol;Acc:HGNC:17067]	PLA2G7	0.1102	0.0891	0.3613	1.1709	8.708_08	4.236_06	0.2632	1.2001	5.088_09	1.577_07	14113	11	protein;eukaryote	
ENGG0000011500	transmembrane emp24 protein transport component 1 [Source:HGNC Symbol;Acc:HGNC:24231]	TMED5	0.1042	1.0734	0.0613	1.1131	1.0513	1.2415	0.021	0.1246	1.0003	0.0015	0.022	14113	11	protein;eukaryote
ENGG0000010619	beta 2B [Source:HGNC Symbol;Acc:HGNC:1838]	MBN2	0.1214	1.0878	0.081	0.3622	1.2077	0.001	0.049	0.2262	1.1489	0.0008	0.0079	14133	11	protein;eukaryote
ENGG0000010778	15 kDa beta 2B [Source:HGNC Symbol;Acc:HGNC:18783]	MBN2B	0.1214	1.0878	0.081	0.3622	1.2077	0.001	0.049	0.2262	1.1489	0.0008	0.0079	14133	11	protein;eukaryote
ENGG0000040470	actuator protein sorting 13 homolog B (D. rerio) [Source:HGNC Symbol;Acc:HGNC:23595]	AP3D3	0.1342	1.0975	0.1049	0.3647	1.1049	0.078	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000010747	GTP binding protein 4 [Source:HGNC Symbol;Acc:HGNC:21535]	GTPBP4	0.1326	1.0962	0.0814	0.3633	1.1038	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000010400	beta 31 [Source:HGNC Symbol;Acc:HGNC:1913]	MBN3	0.1093	1.0917	0.0814	0.3633	1.1038	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000013494	v-kit avian erythroblastic virus E2B oncogene homolog 1 [Source:HGNC Symbol;Acc:HGNC:3488]	VEGFR3	0.1274	1.0923	0.1037	0.3638	1.1052	0.0932	0.1483	0.0469	0.0469	0.0469	14243	11	protein;eukaryote	
ENGG0000010059	myosin IIb [Source:HGNC Symbol;Acc:HGNC:1838]	MYO12	0.1228	1.0894	0.082	0.3639	1.1052	0.0932	0.1483	0.0469	0.0469	0.0469	14243	11	protein;eukaryote	
ENGG0000010059	major histocompatibility complex, class I, E beta 15 [Source:HGNC Symbol;Acc:HGNC:4973]	HFE1	0.2033	1.0923	0.3639	1.1052	0.0932	0.1483	0.0469	0.0469	0.0469	0.0469	14243	11	protein;eukaryote	
ENGG0000011829	heparin 2 [Source:HGNC Symbol;Acc:HGNC:8095]	HNP2	0.1363	1.0882	0.0827	0.3642	1.1057	0.072	0.1363	1.1852	0.005	0.0318	14133	11	protein;eukaryote	
ENGG0000010761	eye finger and B78 domain containing 13 [Source:HGNC Symbol;Acc:HGNC:18078]	EFEB13	0.1363	1.0882	0.0827	0.3642	1.1057	0.072	0.1363	1.1852	0.005	0.0318	14133	11	protein;eukaryote	
ENGG0000040744	parathyroid hormone-like hormone [Source:HGNC Symbol;Acc:HGNC:3607]	PTHrP	0.1028	1.0732	1.2938	0.3672	2.41E_08	0.278	0.278	1.44E_05	6.66E_05	0.0108	0.023	14122	11	protein;eukaryote
ENGG0000010471	G motif and Sec7 domain 1 [Source:HGNC Symbol;Acc:HGNC:29122]	GEFC1	0.1302	1.1008	0.083	0.3678	1.111	0.089	0.1282	1.1095	0.027	0.028	14222	11	protein;eukaryote	
ENGG0000010471	glucocorticoid-inducible protein containing family V member 1 [Source:HGNC Symbol;Acc:HGNC:23284]	GLISV1	0.2227	1.069	0.087	0.3678	1.111	0.089	0.1282	1.1095	0.027	0.028	14222	11	protein;eukaryote	
ENGG0000010813	collagen, type IV, alpha 3 [Source:HGNC Symbol;Acc:HGNC:2207]	COL4A5	0.1268	1.0941	0.0696	0.3693	1.0212	0.0656	0.0714	1.2709	0.0018	0.0108	14223	11	protein;eukaryote	
ENGG0000011829	protoporphyrin acid reductase 1 [Source:HGNC Symbol;Acc:HGNC:3168]	PFR1	0.1268	1.0941	0.0696	0.3693	1.0212	0.0656	0.0714	1.2709	0.0018	0.0108	14223	11	protein;eukaryote	
ENGG0000013842	phosvitin 155 [Source:HGNC Symbol;Acc:HGNC:10348]	PHV15	0.1028	1.0941	0.0696	0.3693	1.0212	0.0656	0.0714	1.2709	0.0018	0.0108	14223	11	protein;eukaryote	
ENGG0000010059	proteasome, macropain subunit, alpha type 1 [Source:HGNC Symbol;Acc:HGNC:9536]	PSMA7	0.0947	1.0679	0.0849	0.3701	1.047	0.087	0.1633	1.12	0.0034	0.0338	14133	11	protein;eukaryote	
ENGG0000011485	eye finger and B78 domain containing 13 [Source:HGNC Symbol;Acc:HGNC:18682]	EFEB13	0.1363	1.0882	0.0827	0.3642	1.1057	0.072	0.1363	1.1852	0.005	0.0318	14133	11	protein;eukaryote	
ENGG0000011183	actin (cytoform) receptor 1 [Source:HGNC Symbol;Acc:HGNC:11526]	ACTH1	0.257	1.095	0.1021	0.3613	1.2846	0.0292	0.1612	0.0292	0.0292	0.0292	1412	11	protein;eukaryote	
ENGG0000017449	beta 2B [Source:HGNC Symbol;Acc:HGNC:1838]	MBN2	0.1214	1.0878	0.081	0.3622	1.2077	0.001	0.049	0.2262	1.1489	0.0008	0.0079	14133	11	protein;eukaryote
ENGG0000017449	beta 2B [Source:HGNC Symbol;Acc:HGNC:1838]	MBN2	0.1214	1.0878	0.081	0.3622	1.2077	0.001	0.049	0.2262	1.1489	0.0008	0.0079	14133	11	protein;eukaryote
ENGG0000018235	poly(ADP-ribose) transferase 1 interacting protein [Source:HGNC Symbol;Acc:HGNC:13242]	PTPIP1	0.0983	1.1049	0.0813	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000018515	lysine acetyltransferase 2, group 7, member 2 [Source:HGNC Symbol;Acc:HGNC:7978]	LYST2	0.1028	1.0732	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000011046	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000011829	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478	0.026	0.026	14133	11	protein;eukaryote	
ENGG0000012208	lysine acetyltransferase 2, group 7, member 1 [Source:HGNC Symbol;Acc:HGNC:21011]	LYST1	0.1375	1.1091	0.0814	0.3673	1.1049	0.075	0.1326	1.0478						

ENGG0000011331	5' to 3' oligoadenylate synthetase 3, 100Da [Source:HNC Symbol:Ac:HNC:8088]	DA33	0.1407	1.1063	0.1157	0.443	-0.7738	1.209	0.0023	0.0261	0.0442	-1.0311	0.6027	0.7904	10.24.13	protein	ENGINW	
ENGG0000011332	legumain protein 145 [Source:HNC Symbol:Ac:HNC:2053]	HRF6	0.0649	1.0647	0.0611	0.1143	-0.1844	1.105	0.0113	0.0114	0.0077	0.154	0.0118	0.0114	0.0113	protein	ENGINW	
ENGG0000011333	transmembrane protein 20 [Source:HNC Symbol:Ac:HNC:2363]	TMEM205	0.2044	1.0647	0.1158	0.444	-0.7738	1.209	0.0023	0.0261	0.0442	-1.0311	0.6027	0.7904	10.24.13	protein	ENGINW	
ENGG0000011334	transmembrane protein 20 [Source:HNC Symbol:Ac:HNC:2363]	AC00560.3	0.2044	1.1124	0.1148	0.448	-0.7963	1.3161	0.0068	0.0068	0.2092	0.1156	0.0068	0.0068	0.2092	protein	ENGINW	
ENGG0000011335	transmembrane protein 20 [Source:HNC Symbol:Ac:HNC:2363]	0.16683	0.1668	1.0683	0.1668	0.1668	0.1668	1.0683	0.1668	0.1668	0.1668	0.1668	0.1668	0.1668	0.1668	0.1668	0.1668	ENGINW
ENGG0000011336	ADP-ribosylation factor related protein 3 [Source:HNC Symbol:Ac:HNC:862]	HRFR9	0.1134	1.0647	0.0471	0.0471	-0.0798	1.054	0.0474	0.0474	0.214	-0.0798	0.0474	0.0474	0.0474	protein	ENGINW	
ENGG0000011337	legumain translocator and activator of transcription 3, 91kDa [Source:HNC Symbol:Ac:HNC:11362]	ITAT1	0.0786	1.0647	0.1174	0.4471	-0.7738	1.209	0.0023	0.0261	0.0442	-1.0311	0.6027	0.7904	10.24.13	protein	ENGINW	
ENGG0000011338	BT ligand [Source:HNC Symbol:Ac:HNC:1343]	BTG2	0.099	1.0647	0.099	0.099	0.099	1.0647	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	ENGINW	
ENGG0000011339	transcription factor 2P, 12F dimerization partner 2 [Source:HNC Symbol:Ac:HNC:11511]	TFP2P	0.1372	1.0598	0.0487	0.0487	0.1181	1.0853	0.0487	0.0487	0.5509	0.2601	0.0487	0.0487	0.0487	protein	ENGINW	
ENGG0000011340	organotin transferin 2 [Source:HNC Symbol:Ac:HNC:12044]	OT2	0.007	1.0598	0.007	0.007	0.1181	1.0853	0.007	0.007	0.5509	0.2601	0.007	0.007	0.007	protein	ENGINW	
ENGG0000011341	organotin transferin 1 [Source:HNC Symbol:Ac:HNC:11511]	OT1	0.007	1.0598	0.007	0.007	0.1181	1.0853	0.007	0.007	0.5509	0.2601	0.007	0.007	0.007	protein	ENGINW	
ENGG0000011342	organotin transferin 1, mitochondrial [Source:HNC Symbol:Ac:HNC:11511]	OTC1	0.007	1.0598	0.007	0.007	0.1181	1.0853	0.007	0.007	0.5509	0.2601	0.007	0.007	0.007	protein	ENGINW	
ENGG0000011343	ubiquitin specific protease 8 [Source:HNC Symbol:Ac:HNC:12311]	USP8	0.104	1.0748	0.1181	0.4492	-0.6914	1.209	0.0023	0.0261	0.0442	-1.0311	0.6027	0.7904	10.24.13	protein	ENGINW	
ENGG0000011344	enhancement of shikimate 1 [Source:HNC Symbol:Ac:HNC:10868]	ES1	0.009	1.0647	0.009	0.009	0.1181	1.0853	0.009	0.009	0.5509	0.2601	0.009	0.009	0.009	0.009	ENGINW	
ENGG0000011345	BT nuclear protein oncogene [Source:HNC Symbol:Ac:HNC:10760]	BT	0.0442	1.0647	0.205	0.824	-1.333	0.7258	0.0013	0.0013	0.0316	0.0251	0.0013	0.0013	0.0316	protein	ENGINW	
ENGG0000011346	Noggin-B homolog [Drosophila] [Source:HNC Symbol:Ac:HNC:28822]	NBPGL	0.108	1.0777	0.1207	0.452	-0.7233	1.014	0.1207	0.1207	0.274	0.1207	0.1207	0.1207	0.1207	protein	ENGINW	
ENGG0000011347	chromosome X open reading frame 33 [Source:HNC Symbol:Ac:HNC:7205]	ORF33	0.1555	1.1128	0.1555	0.1555	-0.209	1.124	0.1555	0.1555	0.1555	0.1555	0.1555	0.1555	0.1555	0.1555	ENGINW	
ENGG0000011348	erbB2 interacting protein [Source:HNC Symbol:Ac:HNC:15842]	HRBB37	0.0878	1.0628	0.0207	0.0207	0.452	-0.7233	0.274	0.274	0.1207	0.1207	0.1207	0.1207	0.1207	0.1207	ENGINW	
ENGG0000011349	tyrosine 2 [Source:HNC Symbol:Ac:HNC:9774]	TYR2	0.0773	1.0531	0.0773	0.0773	-0.085	1.0614	0.0773	0.0773	0.143	-0.085	0.0773	0.0773	0.0773	0.0773	ENGINW	
ENGG0000011350	legumain protein 181 [Source:HNC Symbol:Ac:HNC:29337]	HRF81	0.0903	1.0903	0.1114	0.452	-0.7233	1.014	0.0903	0.0903	0.2092	0.1114	0.0903	0.0903	0.2092	0.1114	protein	ENGINW
ENGG0000011351	butyric acid transaminase [Source:HNC Symbol:Ac:HNC:3208]	HRFB2	0.0769	1.0585	0.1217	0.452	-0.7233	1.014	0.0769	0.0769	0.143	-0.085	0.0769	0.0769	0.0769	0.0769	0.0769	ENGINW
ENGG0000011352	chromosome X open reading frame 33 [Source:HNC Symbol:Ac:HNC:7205]	ORF33	0.1555	1.1128	0.1555	0.1555	-0.209	1.124	0.1555	0.1555	0.1555	0.1555	0.1555	0.1555	0.1555	0.1555	0.1555	ENGINW
ENGG0000011353	structural maintenance of chromosomes 2 [Source:HNC Symbol:Ac:HNC:14011]	SMC2	0.1468	1.1071	0.1127	0.452	-0.7233	1.014	0.1468	0.1468	0.2092	0.1127	0.1468	0.1468	0.2092	0.1127	0.1468	ENGINW
ENGG0000011354	integrator complex subunit 5 [Source:HNC Symbol:Ac:HNC:23512]	INT5	0.0923	1.0923	0.1032	0.452	-0.7233	1.014	0.0923	0.0923	0.2092	0.1032	0.0923	0.0923	0.2092	0.1032	0.0923	ENGINW
ENGG0000011355	phage lambda repressor protein kinase kinase kinase 1 [Source:HNC Symbol:Ac:HNC:850]	RRK1	0.1129	1.0923	0.1129	0.1129	0.1129	1.0923	0.1129	0.1129	0.1129	0.1129	0.1129	0.1129	0.1129	0.1129	0.1129	ENGINW
ENGG0000011356	nuclear and endoplasmic reticulum phosphatase 1 homolog B, cerivastatin [Source:HNC Symbol:Ac:HNC:21004]	NU1B	0.101	1.0725	0.1234	0.459	-0.765	1.1223	0.101	0.101	0.1878	0.1234	0.101	0.101	0.1878	0.1234	0.101	ENGINW
ENGG0000011357	phosphatidic acid phosphatase type 2B [Source:HNC Symbol:Ac:HNC:925]	PPP2B	0.1134	1.0923	0.1134	0.1134	0.1134	1.0923	0.1134	0.1134	0.1134	0.1134	0.1134	0.1134	0.1134	0.1134	0.1134	ENGINW
ENGG0000011358	neuronal guanine nucleotide exchange factor 2 [Source:HNC Symbol:Ac:HNC:7361]	NEGF2	0.0517	1.0517	0.0517	0.0517	0.0517	1.0517	0.0517	0.0517	0.0517	0.0517	0.0517	0.0517	0.0517	0.0517	0.0517	ENGINW
ENGG0000011359	colorectal cancer family 16, member 14 [Source:HNC Symbol:Ac:HNC:26417]	CC16A14	0.0967	1.0609	0.1252	0.4621	-0.738	1.2128	0.0967	0.0967	0.2092	0.1252	0.0967	0.0967	0.2092	0.1252	0.0967	ENGINW
ENGG0000011360	protein, unannotated, brain chain 5 [Source:HNC Symbol:Ac:HNC:2950]	UNAN5	0.1532	1.1326	0.1532	0.1532	0.1532	1.3258	0.0083	0.0083	0.219	0.0083	0.0083	0.0083	0.219	0.0083	0.0083	ENGINW
ENGG0000011361	arrestin domain containing 1 [Source:HNC Symbol:Ac:HNC:28633]	ARRC1	0.0643	1.0643	0.1261	0.4621	-0.738	1.2128	0.0643	0.0643	0.143	-0.085	0.0643	0.0643	0.143	0.0643	0.0643	ENGINW
ENGG0000011362	alpha kinase 3 [Source:HNC Symbol:Ac:HNC:12754]	AKP3	0.2278	1.131	0.2278	0.2278	0.2278	1.131	0.2278	0.2278	0.2278	0.2278	0.2278	0.2278	0.2278	0.2278	0.2278	ENGINW
ENGG0000011363	protein acceptor 1 [Source:HNC Symbol:Ac:HNC:13441]	HRP1	0.0643	1.0643	0.1261	0.4621	-0.738	1.2128	0.0643	0.0643	0.143	-0.085	0.0643	0.0643	0.143	0.0643	0.0643	ENGINW
ENGG0000011364	USM7 homolog, US6 small nuclear RNA associated 2 [Source:HNC Symbol:Ac:HNC:20470]	USM7	0.0778	1.0913	0.0778	0.0778	0.0778	1.0913	0.0778	0.0778	0.0778	0.0778	0.0778	0.0778	0.0778	0.0778	0.0778	ENGINW
ENGG0000011365	colorectal cancer family 15, member 1 [Source:HNC Symbol:Ac:HNC:25504]	CC15A1	0.0817	1.0817	0.0817	0.0817	0.0817	1.0817	0.0817	0.0817	0.0817	0.0817	0.0817	0.0817	0.0817	0.0817	0.0817	ENGINW
ENGG0000011366	ribosomal protein L6 [Source:HNC Symbol:Ac:HNC:1343]	RRP5A4	0.1173	1.0522	0.1043	0.4603	-0.7301	1.2052	0.0114	0.0114	0.219	0.0114	0.0114	0.0114	0.219	0.0114	0.0114	ENGINW
ENGG0000011367	Tetrahymena tyrosine phosphatase 1 [Source:HNC Symbol:Ac:HNC:11809]	TTPM1	0.2088	1.1558	0.2178	0.4603	-0.7301	1.2052	0.003	0.003	0.0442	-0.3047	0.003	0.003	0.0442	0.003	0.003	ENGINW
ENGG0000011368	long interspersed nuclear element RNA 33 [Source:HNC Symbol:Ac:HNC:3066]	LINE33	0.0228	1.0228	0.0228	0.0228	0.0228	1.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	ENGINW
ENGG0000011369	RNA exosome 2 [Source:HNC Symbol:Ac:HNC:12851]	EXO2	0.1018	1.1018	0.1018	0.1018	0.1018	1.1018	0.1018	0.1018	0.1018	0.1018	0.1018	0.1018	0.1018	0.1018	0.1018	ENGINW
ENGG0000011370	muscle X cell surface associated [Source:HNC Symbol:Ac:HNC:97514]	MUCA	0.1747	1.0747	0.1304	0.4728	-0.648	1.218	0.1747	0.1747	0.1747	0.1747	0.1747	0.1747	0.1747	0.1747	0.1747	ENGINW
ENGG0000011371	ADP-ribosylation factor 1/APP activating protein 1 [Source:HNC Symbol:Ac:HNC:15852]	ARAF1	0.0919	1.0919	0.1019	0.4728	-0.648	1.218	0.0919	0.0919	0.2092	0.1019	0.0919	0.0919	0.2092	0.1019	0.0919	ENGINW
ENGG0000011372	leucine rich repeat and immunoglobulin-like domain 1 [Source:HNC Symbol:Ac:HNC:13360]	HRG1	0.1059	1.059	0.1059	0.1059	0.1059	1.059	0.1059	0.1059	0.1059	0.1059	0.1059	0.1059	0.1059	0.1059	0.1059	ENGINW
ENGG0000011373	neuronal cytoskeleton-associated protein, interacting protein 1 [Source:HNC Symbol:Ac:HNC:17660]	NTTIP1	0.1143	1.1042	0.1103	0.4723	-0.642	1.163	0.1143	0.1143	0.2092	0.1103	0.1143	0.1143	0.2092	0.1103	0.1143	ENGINW
ENGG0000011374	BT1 subunit 1, protein [Source:HNC Symbol:Ac:HNC:10923]	BT1S1	0.0919	1.0919	0.1019	0.4723	-0.642	1.163	0.0919	0.0919	0.2092	0.1019	0.0919	0.0919	0.2092	0.1019	0.0919	ENGINW
ENGG0000011375	beta-2-microglobulin [Source:HNC Symbol:Ac:HNC:30485]	TM2A	0.0826	1.0826	0.0826	0.0826	0.0826	1.0826	0.0826	0.0826	0.0826	0.0826	0.0826	0.0826	0.0826	0.0826	0.0826	ENGINW
ENGG0000011376	ligand-mediated cytoskeleton-associated protein 1 [Source:HNC Symbol:Ac:HNC:79862]	LRMED1	0.0826	1.0826	0.0826	0.0826	0.0826	1.0826	0.0826	0.0826	0.0826	0.0826	0.0826	0.0826	0.0826	0.0826	0.0826	ENGINW
ENGG0000011377	colorectal cancer family 16, member 14 [Source:HNC Symbol:Ac:HNC:26417]	CC16A14	0.0967	1.0609	0.1252	0.4621	-0.738	1.2128	0.0967	0.0967	0.2092	0.1252	0.0967	0.0967	0.2092	0.1252	0.0967	ENGINW
ENGG0000011378	BT1 subunit 1, protein [Source:HNC Symbol:Ac:HNC:10923]	BT1S1	0.0919	1.0919	0.1019	0.4723	-0.642	1.163	0.0919	0.0919	0.2092	0.1019	0.0919	0.0919	0.2092	0.1019	0.0919	ENGINW
ENGG0000011379	muscle X cell surface associated [Source:HNC Symbol:Ac:HNC:97514]	MUCA	0.1747	1.0747	0.1304	0.4728	-0.648	1.218	0.1747	0.1747	0.1747	0.1747	0.1747	0.1747	0.1747	0.1747	0.1747	ENGINW
ENGG0000011380	ADP-ribosylation factor 1/APP activating protein 1 [Source:HNC Symbol:Ac:HNC:15852]	ARAF1	0.0919	1.0919	0.1019	0.4728	-0.648	1.218	0.0919	0.0919	0.2092	0.1019	0.0919	0.0919	0.2092	0.1019	0.0919	ENGINW
ENGG0000011381	leucine rich repeat and immunoglobulin-like domain 1 [Source:HNC Symbol:Ac:HNC:13360																	

ENGG000048444	COMM domain containing 1 [Source:HGNC Symbol;Acc:HGNC:23132]	COMM03	0.1550	1.1139	0.1718	0.5881	0.2062	1.1538	0.0469	0.5234	0.2637	1.2006	0.0081	0.0467	10122.2	1	protein	ENZYME	
ENGG000020205	OTX4-like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:23132]	OTX4L1	0.2078	1.1520	0.1993	0.5993	0.1500	1.1500	0.0072	0.2652	0.1099	1.0099	0.0000	0.0000	10122.2	1	protein	ENZYME	
ENGG000017974	E box protein 14 [Source:HGNC Symbol;Acc:HGNC:20201]	EBP14	0.1061	0.1139	0.0849	0.1061	0.1061	0.1061	0.1061	0.1061	0.1061	0.1061	0.1061	0.1061	10122.2	1	protein	ENZYME	
ENGG000010243	Kruppel like factor 7 (subunit) [Source:HGNC Symbol;Acc:HGNC:6350]	KLF7	0.1000	1.0722	0.1713	0.5938	0.2122	1.1584	0.0038	0.0421	0.0488	0.4848	0.4468	0.4468	10122.2	1	protein	ENZYME	
ENGG000017018	SOX1 transcription factor subunit 1 [Source:HGNC Symbol;Acc:HGNC:12667]	SOX1	0.1874	1.1833	0.1874	0.5881	0.1874	1.1833	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	10122.2	1	protein	ENZYME	
ENGG000014104	lipid phosphate complex subunit 1 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:HGNC:23101]	LMC1	0.0881	1.0631	0.1278	0.5399	0.1145	1.0814	0.0071	0.1240	0.1744	1.1287	0.0005	0.0091	10121.1	1	protein	ENZYME	
ENGG000018714	lysophosphatidylcholine synthase [Source:HGNC Symbol;Acc:HGNC:9321]	PLM4	0.0881	1.0631	0.1278	0.5399	0.1145	1.0814	0.0071	0.1240	0.1744	1.1287	0.0005	0.0091	10121.1	1	protein	ENZYME	
ENGG000010782	RC3 like 3 [Source:HGNC Symbol;Acc:HGNC:14451]	RC3L3	0.0881	1.0631	0.1278	0.5399	0.1145	1.0814	0.0071	0.1240	0.1744	1.1287	0.0005	0.0091	10121.1	1	protein	ENZYME	
ENGG000010001	aktarain and Sec7 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:19091]	PF03	0.1020	1.0739	0.1719	0.5939	0.0662	1.0469	0.0029	0.2043	0.2043	1.1521	0.0029	0.0090	10120	1	protein	ENZYME	
ENGG000015611	cuticle domain 25 (cuticle domain), member 6 [Source:HGNC Symbol;Acc:HGNC:14472]	CUTC26	0.0979	1.0644	0.1277	0.5406	0.0979	1.1222	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	10121.1	1	protein	ENZYME	
ENGG000000003	family sequence similarity 13 member 8 [Source:HGNC Symbol;Acc:HGNC:13131]	FAM138	0.0883	1.0744	0.1059	0.5892	0.0883	1.0549	0.0029	0.0029	0.0029	0.0029	0.0029	0.0029	10121.1	1	protein	ENZYME	
ENGG000010819	myristin [Source:HGNC Symbol;Acc:HGNC:1656]	MYOF	0.0737	1.0524	0.1761	0.5425	0.0737	1.0001	0.0033	0.4879	0.4879	1.1764	2.4645	0.0004	0.0004	10120.3	1	protein	ENZYME
ENGG000014045	MAPK11 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:18525]	MAPK11D1	0.0737	1.0524	0.1761	0.5425	0.0737	1.0001	0.0033	0.4879	0.4879	1.1764	2.4645	0.0004	0.0004	10120.3	1	protein	ENZYME
ENGG000016806	casein 2, $\beta$ -casein-related cysteine peptidase [Source:HGNC Symbol;Acc:HGNC:1508]	CASP7	0.0906	1.0462	0.1781	0.5400	0.0906	1.1777	0.2413	0.2413	0.2413	0.2413	0.2413	0.2413	10120.3	1	protein	ENZYME	
ENGG000011904	poor of oestrogen homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:HGNC:11817]	POO1	0.0884	1.0633	0.1793	0.5472	0.0884	1.0007	0.0029	0.9701	0.9701	1.1629	0.0029	0.0029	10120.1	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000013254	ADP-ribosylation factor interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:11160]	ARFIP2	0.0885	1.0633	0.1793	0.5472	0.0885	1.0213	0.1289	0.1289	0.1289	0.1289	0.1289	0.1289	10120.1	1	protein	ENZYME	
ENGG000010819	NAD kinase [Source:HGNC Symbol;Acc:HGNC:29811]	NADK	0.0737	1.0524	0.1761	0.5425	0.0737	1.0001	0.0033	0.4879	0.4879	1.1764	2.4645	0.0004	0.0004	10120.3	1	protein	ENZYME
ENGG000016806	lysophosphatidylcholine synthase (Lysophosphatidylcholine synthase) [Source:HGNC Symbol;Acc:HGNC:23061]	PLM4	0.0881	1.0631	0.1278	0.5399	0.1145	1.0814	0.0071	0.1240	0.1744	1.1287	0.0005	0.0091	10121.1	1	protein	ENZYME	
ENGG000010819	myristin [Source:HGNC Symbol;Acc:HGNC:1656]	MYOF	0.0737	1.0524	0.1761	0.5425	0.0737	1.0001	0.0033	0.4879	0.4879	1.1764	2.4645	0.0004	0.0004	10120.3	1	protein	ENZYME
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000010819	myristin [Source:HGNC Symbol;Acc:HGNC:1656]	MYOF	0.0737	1.0524	0.1761	0.5425	0.0737	1.0001	0.0033	0.4879	0.4879	1.1764	2.4645	0.0004	0.0004	10120.3	1	protein	ENZYME
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	
ENGG000018890	HC11 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:22979]	HC11BP1	0.0979	1.0979	0.1774	0.5487	0.0979	1.0774	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	10120.3	1	protein	ENZYME	

ENGG0000008132	Brain 7 like 3 [Source:HGNC Symbol;Acc:HGNC:24146]	BTNL7L3	0.2644	0.2654	0.2674	1.0478	0.2429	0.62	0.1568	1.1146	0.0079	0.043	17	21	31	1	protein	ENGNW
ENGG0000008133	long interspersed non-coding RNA DBP1 [Source:HGNC Symbol;Acc:HGNC:27886]	DBP1AS1	0.1382	0.2463	0.355	0.2463	0.2463	0.0001	0.2713	1.1524	0.0087	0.014	10	10	11	1	protein	INDVZ
ENGG0000008134	soluble carrier organic anion transporter family, member 34 [Source:HGNC Symbol;Acc:HGNC:15952]	SOCAT3	0.1074	0.2474	0.2474	1.0474	0.2474	0.0001	0.2474	1.0474	0.0001	0.004	10	10	11	1	protein	INDVZ
ENGG0000001424	transmembrane protein 144 [Source:HGNC Symbol;Acc:HGNC:23833]	TMEM144	0.1105	1.0798	0.2409	0.2409	0.0048	0.0803	0.2308	1.1899	0.0002	0.033	14	14	15	1	protein	ENGNW
ENGG0000002900	insulator protein [Source:HGNC Symbol;Acc:HGNC:23584]	INSIC	0.1061	0.2412	0.2412	1.0412	0.2412	0.0001	0.2412	1.0412	0.0001	0.005	10	10	11	1	protein	ENGNW
ENGG0000001460	lysine-dependent GTP binding 2 [Source:HGNC Symbol;Acc:HGNC:19921]	LMAGE	0.1128	1.0813	0.2401	0.2401	0.1143	0.2401	0.2479	1.0813	0.0014	0.031	14	14	15	1	protein	ENGNW
ENGG0000001690	lysine 3 [Source:HGNC Symbol;Acc:HGNC:14338]	LYN3	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000000132	lysine 4 [Source:HGNC Symbol;Acc:HGNC:18036]	LYN4	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000004244	adrenate cyclase 9 [Source:HGNC Symbol;Acc:HGNC:2401]	ADCY9	0.0870	1.0526	0.2722	1.0812	0.2483	0.0687	0.2025	1.2504	0.0003	0.030	16	16	17	1	protein	ENGNW
ENGG0000001502	lysine 5 [Source:HGNC Symbol;Acc:HGNC:18037]	LYN5	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001456	lysine 6 [Source:HGNC Symbol;Acc:HGNC:18038]	LYN6	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001378	GTP cyclohydrolase II feedback regulator [Source:HGNC Symbol;Acc:HGNC:4194]	GCFHR	0.116	1.0817	0.2744	1.0817	0.2474	0.0676	0.2023	1.2489	0.0004	0.038	13	13	14	1	protein	ENGNW
ENGG0000001476	lysine 7 [Source:HGNC Symbol;Acc:HGNC:20073]	LYN7	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001740	glycyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:17447]	GLTYT1	0.0649	1.0313	0.2762	1.0762	0.2484	0.0688	0.2024	1.1772	0.0006	0.039	18	18	22	1	protein	ENGNW
ENGG0000004205	progesterone and androgen receptor family member IV [Source:HGNC Symbol;Acc:HGNC:20388]	PARG4	0.1059	1.0762	0.2754	1.0762	0.2474	0.0676	0.2023	1.114	0.0078	0.232	16	16	17	1	protein	ENGNW
ENGG0000001437	retinol dehydrogenase 7 [Source:HGNC Symbol;Acc:HGNC:17451]	RHDH7	0.0927	1.0762	0.2754	1.0762	0.2474	0.0676	0.2023	1.114	0.0078	0.232	16	16	17	1	protein	ENGNW
ENGG0000001435	melanoma inhibitory activity, member 3 [Source:HGNC Symbol;Acc:HGNC:24008]	MIA3	0.0692	1.0484	0.2685	1.0785	0.2496	0.0689	0.2024	1.1089	0.0009	0.016	14	14	15	1	protein	ENGNW
ENGG0000001484	adiponectin polymorph 6 [Source:HGNC Symbol;Acc:HGNC:387]	APC6	0.0848	1.0684	0.2684	1.0684	0.2474	0.0676	0.2023	1.1074	0.0009	0.037	16	16	17	1	protein	ENGNW
ENGG0000001484	long finger protein 4 [Source:HGNC Symbol;Acc:HGNC:23841]	DFP4	0.0942	1.0594	0.2704	1.0594	0.2474	0.0676	0.2023	1.1074	0.0009	0.037	16	16	17	1	protein	ENGNW
ENGG0000001288	actinin (actin depolymerizing factor) [Source:HGNC Symbol;Acc:HGNC:18708]	ACTN1	0.0848	1.0684	0.2684	1.0684	0.2474	0.0676	0.2023	1.1074	0.0009	0.037	16	16	17	1	protein	ENGNW
ENGG0000001287	beta-tubulin class III [Source:HGNC Symbol;Acc:HGNC:18711]	TUBB3	0.0718	1.0513	0.2708	1.0513	0.2474	0.0676	0.2023	1.1074	0.0009	0.037	16	16	17	1	protein	ENGNW
ENGG0000001404	nuclear factor, erythroid 2 like 2 [Source:HGNC Symbol;Acc:HGNC:7782]	NFE2L3	0.1048	1.0845	0.2802	1.1041	0.2485	0.071	0.2042	1.1311	0.0012	0.047	14	14	15	1	protein	ENGNW
ENGG0000000123	k casein (PK9) anchor protein 8 like [Source:HGNC Symbol;Acc:HGNC:29857]	KAAP8L	0.0892	1.0613	0.2828	1.0613	0.2474	0.0676	0.2023	1.1074	0.0009	0.037	16	16	17	1	protein	ENGNW
ENGG0000001039	epitaxial nodular RNA binding protein [Source:HGNC Symbol;Acc:HGNC:16462]	ENBP1	0.0929	1.0703	0.2849	1.0703	0.2474	0.0676	0.2023	1.1133	0.0009	0.048	14	14	15	1	protein	ENGNW
ENGG0000001436	one finger and BTB domain containing 38 [Source:HGNC Symbol;Acc:HGNC:26266]	OFBT38	0.0618	1.0438	0.2670	1.1065	0.2485	0.0689	0.2024	1.1502	0.0009	0.003	12	12	13	1	protein	ENGNW
ENGG0000001524	lysine 8 [Source:HGNC Symbol;Acc:HGNC:23501]	LYN8	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001484	ATPase, class 1, type 10B [Source:HGNC Symbol;Acc:HGNC:15848]	ATP10B	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001484	one finger and BTB domain containing 38 [Source:HGNC Symbol;Acc:HGNC:26266]	OFBT38	0.0618	1.0438	0.2670	1.1065	0.2485	0.0689	0.2024	1.1502	0.0009	0.003	12	12	13	1	protein	ENGNW
ENGG0000001542	lysine 9 [Source:HGNC Symbol;Acc:HGNC:23502]	LYN9	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001830	lysine 10 [Source:HGNC Symbol;Acc:HGNC:23503]	LYN10	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 11 [Source:HGNC Symbol;Acc:HGNC:23504]	LYN11	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001830	lysine 12 [Source:HGNC Symbol;Acc:HGNC:23505]	LYN12	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 13 [Source:HGNC Symbol;Acc:HGNC:23506]	LYN13	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 14 [Source:HGNC Symbol;Acc:HGNC:23507]	LYN14	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 15 [Source:HGNC Symbol;Acc:HGNC:23508]	LYN15	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 16 [Source:HGNC Symbol;Acc:HGNC:23509]	LYN16	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 17 [Source:HGNC Symbol;Acc:HGNC:23510]	LYN17	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 18 [Source:HGNC Symbol;Acc:HGNC:23511]	LYN18	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 19 [Source:HGNC Symbol;Acc:HGNC:23512]	LYN19	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 20 [Source:HGNC Symbol;Acc:HGNC:23513]	LYN20	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 21 [Source:HGNC Symbol;Acc:HGNC:23514]	LYN21	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 22 [Source:HGNC Symbol;Acc:HGNC:23515]	LYN22	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 23 [Source:HGNC Symbol;Acc:HGNC:23516]	LYN23	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 24 [Source:HGNC Symbol;Acc:HGNC:23517]	LYN24	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 25 [Source:HGNC Symbol;Acc:HGNC:23518]	LYN25	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 26 [Source:HGNC Symbol;Acc:HGNC:23519]	LYN26	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 27 [Source:HGNC Symbol;Acc:HGNC:23520]	LYN27	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 28 [Source:HGNC Symbol;Acc:HGNC:23521]	LYN28	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 29 [Source:HGNC Symbol;Acc:HGNC:23522]	LYN29	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 30 [Source:HGNC Symbol;Acc:HGNC:23523]	LYN30	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 31 [Source:HGNC Symbol;Acc:HGNC:23524]	LYN31	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 32 [Source:HGNC Symbol;Acc:HGNC:23525]	LYN32	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 33 [Source:HGNC Symbol;Acc:HGNC:23526]	LYN33	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676	0.2023	1.2489	0.0002	0.012	11	11	12	1	protein	ENGNW
ENGG0000001542	lysine 34 [Source:HGNC Symbol;Acc:HGNC:23527]	LYN34	0.0732	1.0533	0.2712	1.0712	0.2474	0.0676</										









**Table S5. IPA analysis of differentially expressed transcripts in the U-BIOPRED IL-6TS High subset and of transcripts induced after IL-6TS stimulation of ALI-cultures.**

Functions Annotation	Differentially expressed transcripts in U-BIOPRED IL-6TS High subset (4417 transcripts)		Transcripts induced after IL-6TS stimulation of ALI-cultures (719 transcripts)*	
	Activation z-score	p-Value	Activation z-score	p-Value
Cell movement of blood cells	7.00	5.19E-22	3.34	5.7E-09
Cell movement of leukocytes	6.98	5.97E-21	3.35	3.9E-08
Cell movement of mononuclear leukocytes	6.28	2.01E-16	3.05	5.5E-16
Cell movement of lymphocytes	6.19	1.05E-15	2.50	8.6E-06
Chemotaxis of leukocytes	5.86	1.11E-16	3.30	1.1E-09
Cell movement of phagocytes	5.47	8.78E-17	3.45	2.2E-08
Cell movement of granulocytes	5.35	7.09E-13	3.39	1.2E-06
Cell movement of neutrophils	5.23	6.80E-12	3.65	5.4E-07
Chemotaxis of phagocytes	5.14	2.23E-14	3.37	1.1E-08

p-Right-tailed Fisher Exact Test; z-score statistic – Activation z-scores greater than 2 can be considered significant; \*-only genes with more than 1.5 Log2-fold increase compared to non-stimulated control were included in the analysis.

**Table S6. MetaCore pathway analysis of differentially expressed transcripts in the U-BIOPRED IL-6TS High subset.**

Pathway analysis	p-Value	q-Value	Ratio
Immune response HSP60 and HSP70/ TLR signaling pathway	1,87E-15	2,04E-12	40/54
Immune response TLR2 and TLR4 signaling pathways	2,83E-13	1,6E-10	39/57
Immune response TLR5, TLR7, TLR8 and TLR9 signaling pathways	1,64E-11	2,57E-09	33/48

Right-tailed Fisher's exact test with the Benjamini-Hochberg multiple correction was used to calculate p-values and control for false positives (q).