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A liver-specific long non-coding RNA with a role in cell viability is elevated in human non-alcoholic steatohepatitis

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List of abbreviations

BMI	body mass index
FDR	false discovery rate
lncRNA	long non-coding RNA
NAFLD	non-alcoholic fatty liver disease
NAS	NAFLD activity score
NASH	non-alcoholic steatohepatitis
qRT-PCR	quantitative RT-PCR
ROS	reactive oxygen species
shRNAs	short hairpin RNAs

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Conflict of interest

The authors report no conflicts of interest in this work.

Abstract

Hepatocyte apoptosis in non-alcoholic steatohepatitis (NASH) can lead to fibrosis and cirrhosis, which permanently damage the liver. Understanding the regulation of hepatocyte apoptosis is therefore important to identify therapeutic targets that may prevent the progression of NASH to fibrosis. Recently, increasing evidence has shown that lncRNAs are involved in various biological processes and that their dysregulation underlies a number of complex human diseases. By performing gene expression profiling of 4,383 lncRNAs in 82 liver samples from individuals with NASH ($n=48$), simple steatosis but no NASH ($n=11$) and healthy controls ($n=23$), we discovered a liver-specific lncRNA (*RP11-484N16.1*) on chromosome 18 that showed significantly elevated expression in the liver tissue of NASH patients. This lncRNA, which we named lnc18q22.2 based on its chromosomal location, correlated with NASH grade ($r=0.51, P=8.11 \times 10^{-7}$), lobular inflammation ($r=0.49, P=2.35 \times 10^{-6}$) and non-alcoholic fatty liver disease activity score ($r=0.48, P=4.69 \times 10^{-6}$). The association of lnc18q22.2 to liver steatosis and steatohepatitis was replicated in 44 independent liver biopsies ($r=0.47, P=0.0013$). We provided a genetic structure of lnc18q22.2 showing an extended exon 2 in liver. Knockdown of lnc18q22.2 in four different hepatocyte cell lines resulted in severe phenotypes ranging from reduced cell growth to lethality. This observation was consistent with pathway analyses of genes co-expressed with lnc18q22.2 in human liver or affected by lnc18q22.2 knockdown. **Conclusion:** we identified a lncRNA that can play an important regulatory role in liver function and provide new insights into the regulation of hepatocyte viability in NASH.

Non-alcoholic fatty liver disease (NAFLD) is a spectrum of conditions ranging from hepatocellular steatosis through steatohepatitis to fibrosis and irreversible cirrhosis. It is currently the most prevalent chronic liver disease and highly associated with metabolic syndrome and obesity.⁽¹⁾ Non-alcoholic steatohepatitis (NASH) is the progressive form of NAFLD. The major features of NASH include not only a fatty liver and inflammation but also hepatocyte apoptosis.⁽²⁾ NASH can be severe and can lead to fibrosis and cirrhosis, which permanently damage and scar the liver, disrupting hepatic function.⁽³⁾ Preventing NASH from progressing to fibrosis and cirrhosis is therefore crucial. However, treatment options remain limited and are restricted to lifestyle improvement and body weight control.⁽⁴⁾ Understanding the regulation of hepatocyte apoptosis will contribute to the identification of molecular targets that prevent NASH progression.

Transcriptome analysis has been used to identify molecular mechanisms involved in NAFLD and NASH.^(5,6) Previously, we profiled genome-wide transcripts in multiple tissue types from a Dutch obesity cohort using microarray to identify novel protein-coding genes in NASH patients, including tissue-specific adipokines⁽⁷⁾ and the cholesteryl ester transfer protein.⁽⁸⁾ In recent years, with the advance of RNA-seq technology, a large proportion of the human genome has been found to produce functional RNA molecules rather than encoding proteins, and these functional RNAs are known as non-coding RNAs. Non-coding RNAs are classified into different groups that include microRNAs, small interfering RNAs, piwi-interacting RNAs and the largest group, long non-coding RNAs (lncRNAs). A lncRNA is defined as a non-coding transcript longer than 200 nucleotides with an exon-intron structure.⁽⁹⁾ To date, more than 15,000 lncRNAs have been annotated in the human genome.

Increasing evidence has shown that lncRNAs play important roles in numerous physiological processes by regulating gene expression and modulating protein function through a variety of

mechanisms.⁽¹⁰⁾ Dysregulation of lncRNAs has also been shown to contribute to the progression of many diseases, including liver disease.⁽¹¹⁾ Individual lncRNAs associated to metabolic disorders and liver diseases have been identified in mice and humans. For instance, *lncLSTR*, a liver-enriched lncRNA, was identified as a putative regulator of plasma triglyceride levels in mice, but no human orthologue was found.⁽¹²⁾ An antisense lncRNA to apolipoprotein A1 (*APOA1-AS*) has been shown to negatively regulate the expression of *APOA1*, a major component of high-density lipoprotein.⁽¹³⁾ The lncRNAs *Meg3* and *MALAT-1* may be involved in hepatocellular carcinoma by regulating gene expression and alternative splicing, respectively.^(14,15) Although over 1,000 lncRNAs have been reported to be associated with NAFLD, their role in this disease remains largely unknown.⁽¹⁶⁾ Moreover, their potential as non-invasive biomarkers is largely unexplored, as non-coding RNAs can form stable secondary structures that can be detected in circulating exosomes.^(11,17)

In this study, we report the discovery of lnc18q22.2, a liver-specific lncRNA (*RP11-484N16.1*) involved in cell viability with elevated expression in the liver of NASH patients. An overview of this study is presented in Figure 1. The involvement of lncRNAs in NASH was first identified by association analyses between the expression levels of 4,383 lncRNAs and detailed histological analysis of NASH phenotypes in 82 liver samples. The expression of lnc18q22.2 was significantly elevated in NASH patients, a finding that we replicated in an independent dataset. We then assessed lnc18q22.2's structure, abundance and cellular location. Further, we investigated its downstream effect by silencing it in four hepatocyte cell lines (hepatocellular carcinoma derived HepG2, Huh7 and Hep3B cell lines and the non-tumorous cell line immortalized human hepatocytes [IHH]) and two non-hepatocyte cell lines as controls (HEK293T and HeLa). This lnc18q22.2 knockdown resulted in negative regulation of cell viability in hepatocytes. Finally, the underlying processes were

assessed by pathway analysis of co-expressed genes and of genes affected by lnc18q22.2 knockdown using RNA-seq.

Materials and methods

Liver biopsies and NASH phenotypes

Our study cohort consisted of liver biopsies from 82 severely obese Dutch individuals with a body mass index (BMI) between 30 and 73 who underwent elective bariatric surgery in the Department of General Surgery, Maastricht University Medical Center. The collection and processing of liver biopsies are described in details in the online methods. Exclusion criteria for this cohort were individuals with acute or chronic inflammatory disease (e.g. autoimmune disease), with degenerative disease, who reported alcohol consumption of >10 g/day, or who used anti-inflammatory drugs. NASH phenotypes were analyzed by an experienced pathologist who was blinded to the clinical and biochemical parameters. NASH staging and grading was performed according to the Brunt scoring system.⁽¹⁸⁾ Moreover, each individual was scored for seven different histological parameters of liver pathology: steatosis, fibrosis, inflammation (lobular inflammation, large lipogranulomas, portal inflammation), liver cell injury (ballooning) and glycogenated nuclei according to the scoring system described by Kleiner⁽¹⁹⁾ (Supporting Table S1). The NAFLD activity score (NAS) was calculated according to the Kleiner scoring system. Circulating levels of the liver enzymes aspartate-amino transferase and alanine-amino transferase were also measured and used for the analysis. The study was approved by the Medical Ethics Board of the Maastricht University Medical Center, in line with the ethical guidelines of the 1975 Declaration of Helsinki. Informed consent was obtained in writing from each participant.

Microarray data generation and lncRNA probe mapping

RNA was isolated and profiled as described previously.⁽²⁰⁾ The average RNA integrity number for RNA quality was 7.6, with a range of 5.7 – 9.3. Whole-transcriptome expression profiling was performed on 82 liver samples using Illumina Human HT12 Bead Chips (Illumina, San Diego, CA, USA).⁽²⁰⁾ Although not designed for lncRNA quantification, this platform contains probes for transcripts with unknown function and without significant coding potential. In order to identify which probes cover lncRNA genes, two human lncRNA annotation databases were used: GENCODE version 19 (July 2013; 13,870 annotated lncRNAs; <http://www.gencodegenes.org/stats/archive.html#a19>) and the Human Body Map catalog (>8,000 annotated long intergenic non-coding RNAs, a subclass of lncRNAs; http://www.broadinstitute.org/genome_bio/human_lincrnas/?q=home). LncRNAs were quantified using probes that mapped to one or both database annotations and did not overlap with protein-coding genes or other lncRNAs. The final list of probes used to determine lncRNA expression contained 4,468 probes covering 4,383 lncRNAs. Data were log2 transformed, quantile normalized and corrected for batch effects.⁽²⁰⁾

Correlation of lncRNA expression profiles with NASH phenotypes

To determine the correlations between lncRNA expression and NASH phenotypes, Spearman's rank correlation coefficients were determined between lncRNA expression values and the values of the measured traits, including NASH phenotypes. For these probe-level correlations, permutation testing was performed to estimate the false discovery rate (FDR)-corrected *P*-values. To correct for age,

gender and BMI, a linear model was run for all lncRNAs and their top significant phenotype associations. For these genome-wide correlations, we made use of the FDR-corrected *P*-value.

Replication of the associations for microarray probes

In order to replicate our findings, we downloaded a dataset from the Gene Expression Omnibus (accession number GSE33814).⁽²¹⁾ The dataset consisted of 44 human liver tissue samples obtained from patients with alcoholic and non-alcoholic steatohepatitis (normal [n=13], steatosis [n=19], and steatohepatitis [n=12]) obtained from patients undergoing liver surgery for hepatocellular carcinoma, malignancies/metastatic diseases, or benign tumors of the liver and from organs dedicated to transplantation. However, the cohort contained both alcoholic and non-alcoholic steatohepatitis.

There was no individual phenotype information available and we could not compute analysis for ASH and NASH patients separately. Healthy, non-tumorous liver tissue with no detectable pathological changes was removed from patients undergoing surgical resection of liver metastases as control tissue. Whole genome expression microarray SentrixH Human-6 v3 expression bead chips (Illumina) were used, which encompass probes for 48,804 genes including lncRNAs. These data were log2-transformed and quantile normalized. To test whether lnc18q22.2 associated with liver cancer, we compared liver expression of lncRNA between 73 HCC patients and 85 healthy control samples, downloaded from the Sequence Read Archive [SRA]- <http://www.ncbi.nlm.nih.gov/sra/>. As a positive control, we also checked two established cancer lncRNAs (*MALAT1*⁽¹⁵⁾ and *HULC*⁽²²⁾), both showing significant associations with HCC (MALAT: $P=3.00 \times 10^{-10}$ and HULC: $P=3.64 \times 10^{-5}$) (Supporting Figure S6). Moreover, no aetiology information of HCC patients was available.

Liver-specific expression and structure of lnc18q22.2

To assess the expression level and transcript structure of lnc18q22.2 in the liver, we first compared its predicted structure as annotated in the GENCODE and Human Body Map databases. In addition, we extracted RNA-seq data on 30 tissue and 67 cell types through the Sequence Read Archive [SRA] - <http://www.ncbi.nlm.nih.gov/sra/>, including 63 liver samples and 34 HepG2 cell line samples.⁽²³⁾ Expression values in these samples were normalized with the Trimmed Mean of M-values method using the R package "edgeR"⁽²⁴⁾ The average of the normalized expression values per tissue or cell line was used. The RNA-seq read distribution showed a liver-specific structure for lnc18q22.2 and confirmed the liver-specificity of its expression. Further, several RT-PCR and quantitative RT-PCR (qRT-PCR) experiments were performed to validate the expression and structure of lnc18q22.2 and its cellular location, as described in detail in the online methods. In brief, to evaluate the potential of lnc18q22.2 as a non-invasive biomarker, we measured the abundance of lnc18q22.2 in 8 plasma samples and 1,141 whole blood samples. We validated the transcript structure of lnc18q22.2 using qPCR, followed by Sanger sequencing. We performed qRT-PCR to validate the association of lnc18q22.2 in 33 randomly selected liver samples, including normal (n=8), NAFLD (n=8) and NASH (n=17) samples. We tested the expression of lnc18q22.2 in five hepatocyte cell lines (hepatocellular carcinoma [HCC]-derived HepG2 [ATCC, HB-8065], Hep3B [ATCC, HB-8064], Huh7 [JCRB Cell Bank, JCRB0403]; the non-tumorous cell line IHH⁽²⁵⁾ and in RNA isolated from 3 different batches of human primary hepatocytes (HPH) [Tebu-Bio, Heerhugowaard, The Netherlands]. Moreover, the log2 ratio of cytoplasmic and nuclear fractions of lnc18q22.2 was estimated in HepG2 cell line.

Lnc18q22.2 *co-expression network analysis*

To predict a function for lnc18q22.2, we performed guilt-by-association analysis using data from 37,776 genes on the Illumina microarray. We assessed whether lnc18q22.2 expression correlated

with the expression of genes in *cis* (within 5 Mb distance) and in *trans* (genome-wide) using Spearman's correlation test. A FDR of 0.05 was used to correct for multiple testing.⁽²⁶⁾ All significant correlations (FDR <0.05) were analyzed for pathway analysis using the DAVID database (<https://david.ncifcrf.gov>).⁽²⁷⁾

Lnc18q22.2 knockdown, cell survival counts and western blotting

To knockdown Lnc18q22.2, we designed two short hairpin RNA (shRNA) cassettes for cloning into the lenti-viral pLKO TRC vector. The cassettes were specifically designed using the full Lnc18q22.2 sequence and targeted only Lnc18q22.2 and not the overlapping transcript. For this purpose, we used the siRNA selection program (<http://sirna.wi.mit.edu/>) and designed two shRNAs and one mock shRNAs (see Online Methods). Upon annealing of the oligos, the shRNAs were cloned into the pLKO TRC vector and lentiviral particles were produced as described previously.⁽²⁸⁾

Cell survival counts. Cells (HepG2, Hep3B, Huh7, IHH, HEK293T and HeLa) were seeded in triplicate into 12 well plates for counting surviving cells and transduced with lentiviral particles as described above. Surviving cells were counted after 3, 6 and 9 days of puromycin selection.

The effect of Lnc18q22.2 knockdown on apoptosis (western blot). The cleavage of Poly(ADP-ribose) polymerase 1 (PARP-1) was assessed by western blotting as an indicator of apoptosis. Total cell lysates were extracted from cells treated with virus particles expressing shRNA1, shRNA2 or control shRNAs. Protein concentration was determined by BCA assay (Pierce, Rockford, IL, USA) and proteins were separated by 8% SDS-PAGE and then transferred to PVDF membranes. The membranes were probed with cleaved PARP-1 antibody (1:1000) (Cell Signaling Technology)

detecting both full size (116 kDa) and cleaved PARP protein fragment (89 kDa). Anti-beta actin antibody (1:1000) was used as a control. Membranes were incubated overnight at 4°C, followed by 1 hour incubation with HRP-labeled secondary antibody. The Femto kit (Thermo Fisher Scientific) was used for detection and the signal was quantified using the ChemiDoc XRS gel documentation system (Bio-Rad Laboratories, Hercules, USA). Experiments were performed in triplicate for all three time points (1, 2 and 3 days after virus transduction). The results were similar at all time points, therefore only the results from day 3 are presented.

The effect of lnc18q22.2 knockdown on apoptosis and necrosis (nuclear staining). IHH and Huh7 cells were incubated in virus media for 48 h and analyzed for necrosis and apoptosis. Sytox green staining (Invitrogen, S7020) was used to detect necrotic nuclei (1:40000 dilution, for 15 min)⁽²⁹⁾ and acridine orange staining (Sigma, A8097) was used to detect apoptotic nuclei (1:4000 dilution, for 15 min).⁽³⁰⁾ Fluorescent nuclei were visualized using an EVOS™ FL Cell Imaging System (Advanced Microscopy Group, Bothell, WA). Pictures were taken at three time points (1–3 days after virus transduction), in triplicate.

RNA-seq of lnc18q22.2 knockdown cell lines. HepG2 and Hep3B were seeded into six well plates (200,000 cells per well) and incubated with lentivirus particles for 48 h once 80% confluence was reached. Green fluorescent protein (an in-house generated plasmid similar to pRRRLSIN.cPPT.PGK-GFP.WPRE from Addgene) was used to monitor the transduction efficiency in all cell lines. After the virus-particle-containing medium was removed (after 48 hours), fresh complete culture medium was added for 24 hours. After 72 hours, Hep3B and HepG2 cells were treated with puromycin (1 µg/ml) for 3 and 4 days, respectively, to produce stable cell lines, followed by RNA isolation. All experiments were performed in duplicate. Twelve samples in total were selected for RNA

sequencing, including 6 samples per cell line (HepG2, Hep3B): knockdown shRNA1, knockdown shRNA2 and control mock shRNA, each in duplicate. RNA was isolated using Qiazol reagent (Qiagen, Germantown, MD, USA) and purified using the RNeasy Mini Kit (Qiagen). RNA concentration was measured by spectrophotometry and cDNA was reverse transcribed for qRT-PCR. Before RNA-seq libraries were prepared, qRT-PCR was performed to confirm lnc18q22.2 knockdown and the quality of the isolated RNA was measured on a bioanalyzer (PerkinElmer LabchipGX, PerkinElmer, Waltham, MA, USA). Sample preparation was done using standard Illumina TruSeq mRNA-SamplePrep, and paired-end sequencing was performed on the Illumina HiSeq2500 sequencer. On average, ~18 million reads were produced per sample. All RNA-seq reads were aligned to the human genome (hg19) using STAR⁽³¹⁾ and rlog normalized using the R package “DESeq2”.⁽³²⁾ The same package was used to analyze differentially expressed genes between the two knockdown groups versus control. Differentially expressed genes with a FDR <0.01 were selected for pathway enrichment analysis. The DAVID database was also used for this purpose.⁽²⁷⁾

Results

Lnc18q22.2: a lncRNA associated with NASH

Whole genome gene expression oligonucleotide arrays have played a crucial role in quantitatively determining the levels of gene expression. Even though most of the currently available commercial microarrays are designed to capture all known protein-coding transcripts, they also include subsets of probes that capture transcripts of unknown function. To identify lncRNAs associated with NASH, we took advantage of microarray-based expression data of 82 liver samples and mapped 4,468 microarray probes to 4,383 lncRNAs located in intergenic regions, hereafter referred to as the in-

house microarray data (Figure 1). Spearman's rank correlation revealed three lncRNA probes that correlated with NASH-related phenotypes at a FDR of ≤ 0.05 (Supporting Table S2). The strongest association was detected for lncRNA *RP11-484N16.1* on chromosome 18, which correlated with NASH grade ($r=0.51, P=8.11\times 10^{-7}$), lobular inflammation ($r=0.49, P=2.35\times 10^{-6}$) and NAS score ($r=0.48, P=4.69\times 10^{-6}$) (Figure 2). *RP11-484N16.1* expression also showed a nominally significant association with fibrosis ($r=0.35, P=0.0018$) (Supporting Figure S1A). The other two lncRNAs detected were *MAPKAPK5-AS1* and *RP4-763G1.2* (Supporting Table S2 and Supporting Figure S1B-C). After correcting for age, sex and BMI, only *RP11-484N16.1* was significantly associated to NASH (Supporting Table S2). We then named it, lnc18q22.2 based on its physical position. Interestingly, lnc18q22.2 was significantly associated with liver steatosis and steatohepatitis (including alcoholic and non-alcoholic steatohepatitis) in 44 independent liver biopsies ($r=0.47, P=0.0013$) (Supporting Figure S2), but not with hepatocellular carcinoma ($P=0.12$) (Supporting Figure S6).

Specific expression and transcript structure of lnc18q22.2 in liver and hepatocyte cell lines

Lnc18q22.2 was previously annotated to chromosome region 18q22.2 and does not overlap with any established protein-coding genes except one putative transcript for the putative protein-coding gene *RP11-4104.1* (Figure 3A). The closest known protein-coding gene is the suppressor of cytokine signaling 6 (*SOCS6*), which is some 5 kb upstream (Supporting figure S3). Lnc18q22.2 contains two exons and annotations of the second exon are not consistent across different databases. The GENCODE database indicates a length of 287 bp for this second exon whereas the liver tissue panel of the Human Body Map database annotation is longer, 537 bp, and fully overlaps with the

microarray probe of lnc18q22.2 (Figure 3A). We therefore further delineated the transcript structure of lnc18q22.2 in liver samples and validated the association of lnc18q22.2 with NASH. First, RNA-seq data from 2,432 samples from 30 different tissues and 67 different cell lines were extracted from the SRA, hereafter referred to as public SRA-seq data. The average intensity of SRA-seq reads from 63 liver samples confirmed the extended exon 2 seen in the Human Body Map database (Figure 3A). Thus, the total length of the lncRNA transcript was estimated to be 633 bp. Second, RT-PCR experiments were performed to validate the transcript structure of lnc18q22.2 (Figure 3A). The PCR products showed the expected length (Figure 3B) and were validated by Sanger sequencing. Moreover, the expression level of lnc18q22.2 and its association with NASH were validated in 33 random samples by qRT-PCR. The relative expression of lnc18q22.2 assessed by qRT-PCR was positively correlated with the intensity level of the microarray probe ($r=0.74, P=8.50\times 10^{-7}$) (Supporting Figure S4A), NASH grade ($r=0.65, P=4.55\times 10^{-5}$), NAS score ($r=0.58, P=8.64\times 10^{-4}$), and lobular inflammation ($r=0.62, P=1.38\times 10^{-4}$) (Supporting Figure S4B).

Liver-specific expression of lnc18q22.2 had already been suggested in the Human Body Map catalog in 2011.⁽³³⁾ Comparing the average expression level of lnc18q22.2 across 30 different tissues and 67 different cell lines (public SRA-seq data) confirmed that lnc18q22.2 is predominantly expressed in liver tissue and in the HCC cell line HepG2 (Figure 3C). Lnc18q22.2 was not detected in whole blood (n=1141) or plasma samples of four healthy volunteers and four NASH patients (Supporting Table S4). The liver-specific expression of lnc18q22.2 was further confirmed by qRT-PCR analysis in five hepatocyte cell lines (HCC-derived Huh7, Hep3B, and HepG2 cells, non-tumorous IHH cells and primary human hepatocytes) and two non-hepatocyte cell lines (HEK293T and HeLa). Lnc18q22.2 was expressed in all hepatocytes, especially HepG2, IHH and PHH. No expression was

detected in HEK293T cells and very low expression was found in HeLa cells (Figure 3D). Moreover, fractionation experiments showed that lnc18q22.2 was mainly present in the cytoplasm (Figure 3E).

To evaluate the protein-coding potential of lnc18q22.2, we used the Coding Potential Calculator tool (<http://cpc.cbi.pku.edu.cn/>)⁽³⁴⁾ and the Coding Potential Assignment Tool (<http://lilab.research.bcm.edu/cpat/index.php>).⁽³⁵⁾ Both tools did not detect an open reading frame (ORF) for both the novel and annotated sequence of lnc18q22.2.

Taken together, these results have validated the association of lnc18q22.2 with NASH and revealed its novel transcript structure, high expression in liver tissue, subcellular localization in the cytoplasm and lack of coding potential.

Lnc18q22.2 is crucial for growth and viability of hepatocytes

To further elucidate the function of lnc18q22.2, two different shRNA cassettes were used to silence its expression in four different hepatocyte cell lines (HepG2, Hep3B, Huh7, and IHH) (Figure 4A). Both shRNAs significantly down-regulated the expression of lnc18q22.2 in all four hepatocyte cell lines, with shRNA1 showing a stronger effect than shRNA2 (Figure 4A). Notably, the silencing of lnc18q22.2 expression resulted in reduced growth in HepG2 and IHH cells (only shRNA1) and promoted cell death in Huh7 (both shRNA1 and shRNA2) and Hep3B cells (only shRNA1) (Figure 4B). Huh7 cells died within 2–4 days of shRNA1-mediated knockdown and within 4–6 days of shRNA2-mediated knockdown, whereas Hep3B cells died 6–8 days after shRNA1-mediated knockdown. HepG2 and IHH cells did not die, but cell growth in the shRNA1 knockdown was markedly reduced compared to controls. Furthermore, shRNA1 seemed to be more efficient in down-

regulating the expression of lnc18q22.2 than shRNA2 (Figure 4A). The downstream phenotype in shRNA1-mediated knockdown is consistently more severe than that in shRNA2.

To exclude any potential off-target effects of both shRNAs, we stably expressed both shRNAs in two control cell lines (HEK293T and HeLa cells) in which lnc18q22.2 was not expressed or showed a very low level of expression (Figure 3D). No differences in cell viability and cell growth were seen in the HEK293T and HeLa cells (Figure 4B).

To further characterize the cell death phenotype, we assessed cell viability in lnc18q22.2 knockdown in Huh7 cells (both shRNAs) and IHH cells (shRNA1). Cleavage of full size PARP-1 is a hallmark of apoptosis. We observed a significant reduction of full size (intact) PARP-1 (Figure 5A) and a significant increase in necrotic nuclei as visualized by using Sytox green staining (Figure 5B). But knockdown did not increase the number of apoptotic nuclei as visualized by Acridine orange staining (Supporting Figure 6).

Lnc18q22.2 involvement in essential biological processes in hepatocytes

To gain more insight into the potential role of lnc18q22.2 in hepatocyte cell viability, we performed various pathway analyses on genes co-expressed with lnc18q22.2 based on the in-house microarray data and using the RNA-seq data from the lnc18q22.2 knockdown cell lines.

First, we examined whether lnc18q22.2 affects nearby protein-coding genes (i.e., the *cis*-regulatory effect) by testing the correlation between lnc18q22.2 expression and the expression of genes residing within 5 Mb, using the microarray data of the NASH cohort and the RNAseq data of 63 liver samples and 34 HepG2 cell lines from the public SRA-seq data (Supporting Table S3). Analysis of

the microarray data did not reveal any genes correlated with lnc18q22.2 within 5 Mb. However, the putative protein-coding genes *RP11-4104.1* and *SOCS6* were associated with lnc18q22.2 expression in the public-seq data (Supporting Table S3, Supporting Figure S3). The function of *RP11-4104.1* is unknown. Depletion of *SOCS6* has previously been linked to suppression of programmed cell death and apoptosis.⁽³⁶⁾ However, we observed the opposite in our cellular models. The protein-coding genes nearby could not explain the observed effect of lnc18q22.2 on cell viability.

At the genome-wide level, 1,985 genes were significantly co-expressed with lnc18q22.2 at FDR<0.05 level in the in-house microarray data (Figure 6A, Supporting Table S5). Among these, 984 positively co-expressed genes were enriched for the wound healing pathway and the regulation of apoptosis and cell death pathways, whereas 1,001 negatively co-expressed genes were enriched for the oxidation reduction pathway (Figure 6A).

We further performed RNA-seq experiments to profile gene expression in Hep3B and Hep2G cells after knockdown of lnc18q22.2; unfortunately, not enough cells could be harvested from the Huh7 knockdown experiment for RNA-seq analysis. From the genes within the 5 Mb region, *SOCS6* was down-regulated in both the HepG2 (log₂ fold change=-0.41, FDR=5.09x10⁻⁵) and Hep3B shRNA1 (log₂ fold change=-0.51, FDR=1.47x10⁻³) knockdown but not in the shRNA2 knockdown. No effect was observed for the putative protein-coding gene *RP11-4104.1*. At genome-wide scale, we confined the pathway analysis to genes that were significantly affected at FDR 0.01 level. In HepG2 cells, 4,045 genes were affected by shRNA1, 3,209 genes were affected by shRNA2 and 1,821 genes were affected by both shRNAs (Figure 6B). Out of the genes affected by both shRNAs, 1,625 genes (89.2%) showed the same direction of regulation (Supporting Table S6). In Hep3B cells, 4,976 genes were differentially expressed in shRNA1 and 3,766 genes in shRNA2 at FDR 0.01, with 1,724 of the 2,063 shared genes (83.5%) affected in the same direction in both shRNAs (Figure 6B, Supporting

Table S7). Pathway analyses were performed on the 1,625 regulated genes in HepG2 cells and the 1,724 regulated genes in Hep3B cells that were consistently affected by shRNA1 and shRNA2. The down-regulated genes in the knockdown (i.e. those positively regulated by lnc18q22.2) were consistently enriched for the pathways of cell death, apoptosis (enriched in anti-apoptotic genes) and translation elongation. The up-regulated genes in knockdown (i.e. those negatively regulated by lnc18q22.2) were mostly enriched for the oxidation reduction pathway (Figure 6B). These results are in line with our co-expression analysis of the microarray data (Figure 6A). The same pathways were enriched in the 201 up-regulated and the 278 down-regulated genes in HepG2 and Hep3B cells (Figure 6C, Supporting Table S8 and S9). These genes were most enriched in the translation elongation pathway ($FDR=6\times10^{-16}$) (Figure 6C). These results indicate that lnc18q22.2 may be directly or indirectly involved in numerous essential biological processes in hepatocytes, including oxidation reduction, translation elongation, and regulation of cell death.

Discussion

In recent years, several lncRNAs have been described to play a functional role in the pathogenesis of different liver diseases.⁽¹¹⁾ These lncRNAs can serve as biomarkers for use in disease diagnosis, in disease prognosis or in therapeutic response, and they may also represent direct targets for therapeutic intervention.^(37,38) In the current study, we identified lnc18q22.2 as a novel liver-specific lncRNA with elevated expression in the liver of NASH patients. Silencing the expression of lnc18q22.2 resulted in either a lethal phenotype or decreased cell viability in four hepatocyte cell lines. Pathway analysis indicated that lnc18q22.2 might be involved in mRNA translation, cell death, apoptosis and oxidative reduction. Elevated lnc18q22.2 expression was also observed in patients

with steatohepatitis in a mixed patient cohort of both ASH and NASH, but not in HCC patients.

However, such analysis was performed in publically available datasets (with small sample size and/or without detailed phenotypic information), thus we cannot support or rule out the role of lnc18q22.2 in ASH, NASH- associated HCC or other liver diseases. This needs to be further investigated. Moreover, our data do not support the potential of lnc18q22.2 as a non-invasive biomarker for NASH, as it was undetectable in circulation, neither in NASH patients nor in whole blood samples.

Our data show that genes negatively regulated by lnc18q22.2 are enriched in the process of oxidation reduction. This is consistent with the observation that NAFLD is often accompanied by increased oxidative stress. Reactive oxygen species (ROS) attack cellular macromolecules such as DNA, lipids and proteins and have been detected in the liver of NAFLD patients and animal models of NAFLD.

^(39,40) The expression of lnc18q22.2 was elevated in NASH patients, indicating a putative suppression effect on the genes involved in redox reactions. Additionally, the genes positively regulated by lnc18q22.2 were enriched with pathways in translational elongation. Our data show that lnc18q22.2 is predominantly present in the cytoplasm of HepG2 cells. Cytoplasmic lncRNAs have been described that facilitate mRNA decay, stabilize mRNAs, and promote or inhibit the translation of target mRNAs through extended base-pairing.^(41–43) It is possible that lnc18q22.2 regulates the translation of target mRNAs, but this hypothesis needs further experimental validation.

One of the most enriched pathways we observed is the regulation of cell death and apoptosis, which is consistent with the observed cell viability phenotype after lnc18q22.2 knockdown. Hepatocyte apoptosis is a major feature in NASH. To execute both intrinsic (by activating death receptors) and extrinsic apoptosis (by intracellular stress inducers), liver cells depend heavily on mitochondrial outer membrane permeabilization and its regulation by Bcl-2 proteins.^(44–46) Several anti-apoptotic

genes⁽⁴⁷⁾ were down-regulated after lnc18q22.2 knockdown, including *MCL1*, *BCL2L1*, *BCL2L2*, *BFAR*, *CARD10*, *IGFIR* and *MKL*. In line with it, we observed a significant reduction of intact PARP-1 and a significant increase in the number of necrotic nuclei after lnc18q22.2 knockdown. However, we did not detect the appearance of cleaved PARP-1 and/or an increase in apoptotic nuclei. These results pointed to a necrosis-like phenotype although we cannot exclude that this necrosis was preceded by apoptosis. Similarly, the network analysis showed that the increased expression of lnc18q22.2 in NASH livers was co-expressed with the genes involved in the negative regulation of apoptosis. In contrast, cell death and fibrosis are increased in NASH patients. Our results suggest that elevated lnc18q22.2 expression might be a protective mechanism against liver damage by inhibiting apoptosis of liver cells.⁽⁴⁸⁾ However, the lnc18q22.2 's role in NASH development still needs to be studied *in vivo* and the primary targets of lnc18q22.2 remain unclear. We do not yet know whether lnc18q22.2 affects cell viability directly or through other pathways such as redox and fatty acid metabolic processes or through translation of target and apoptotic genes. In this study, we performed a cross-sectional transcriptome analysis. To further understand the role of lnc18q22.2 in NASH progression, a longitudinal study should be performed.

In conclusion, our study has identified a liver-specific lncRNA, lnc18q22.2, with elevated expression in the liver of NASH patients. Lnc18q22.2 played a crucial role in hepatocyte viability and is likely to play a regulatory role by inhibiting hepatocyte apoptosis and necrosis. The pathway analysis in lnc18q22.2 knockdown cells implicated several biological mechanisms that are also involved in NASH. However, these potential mechanisms need to be studied and validated *in vivo*.

Acknowledgements

The authors would like to thank Dr. Froukje Verdam, Dr. Charlotte de Jonge, Dr. Jeroen Nijhuis, and Prof. Wim Buturman for their assistance in setting up the cohort and Kate Mc Intyre and Claire Bacon for editing the manuscript. We dedicate this paper to Marten Hofker†.

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Figures and Figure Legends

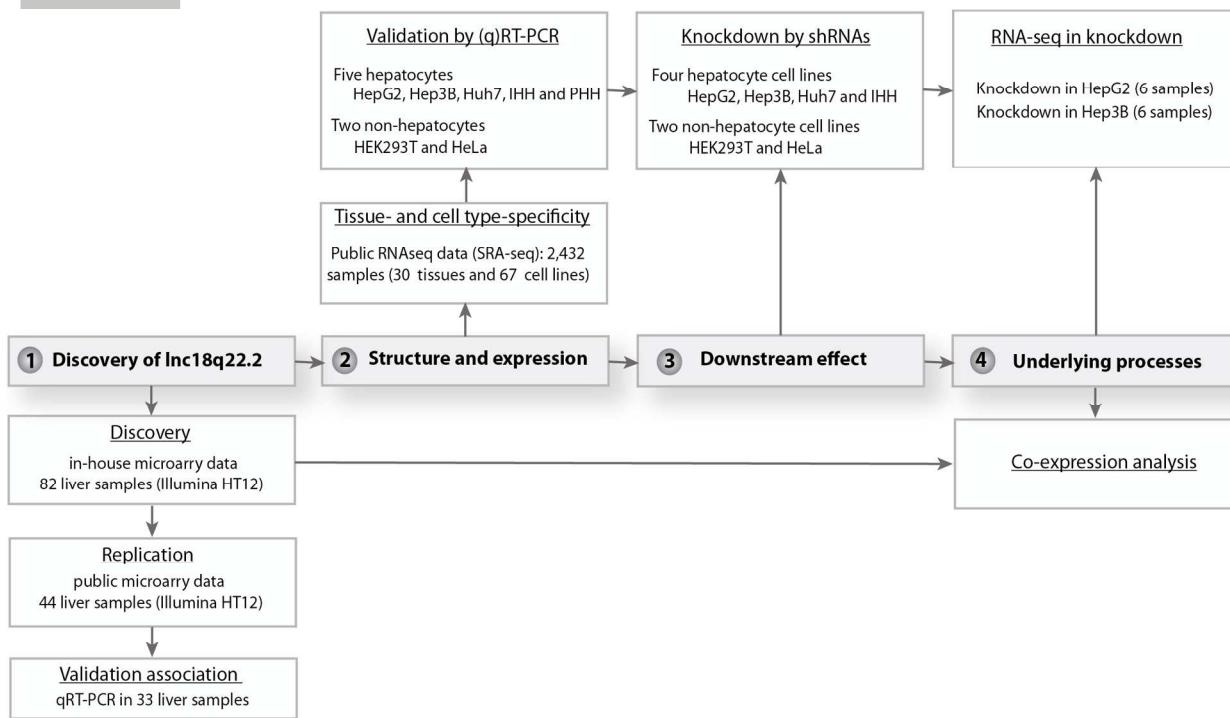
A liver-specific long non-coding RNA with a role in cell viability is elevated in human non-alcoholic steatohepatitis

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Figure 1. Overview of the current study.



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Figure 2. Association of lnc18q22.2 expression with different degrees of NASH. Y-axis represents normalized probe expression of lnc18q22.2 from microarray data of 82 severely obese individuals. X-axes represent severity of the disease represented by different parameters: NASH grade, NAS score and lobular inflammation. Spearman's rank correlation analyses are reported at FDR<0.05 significance.

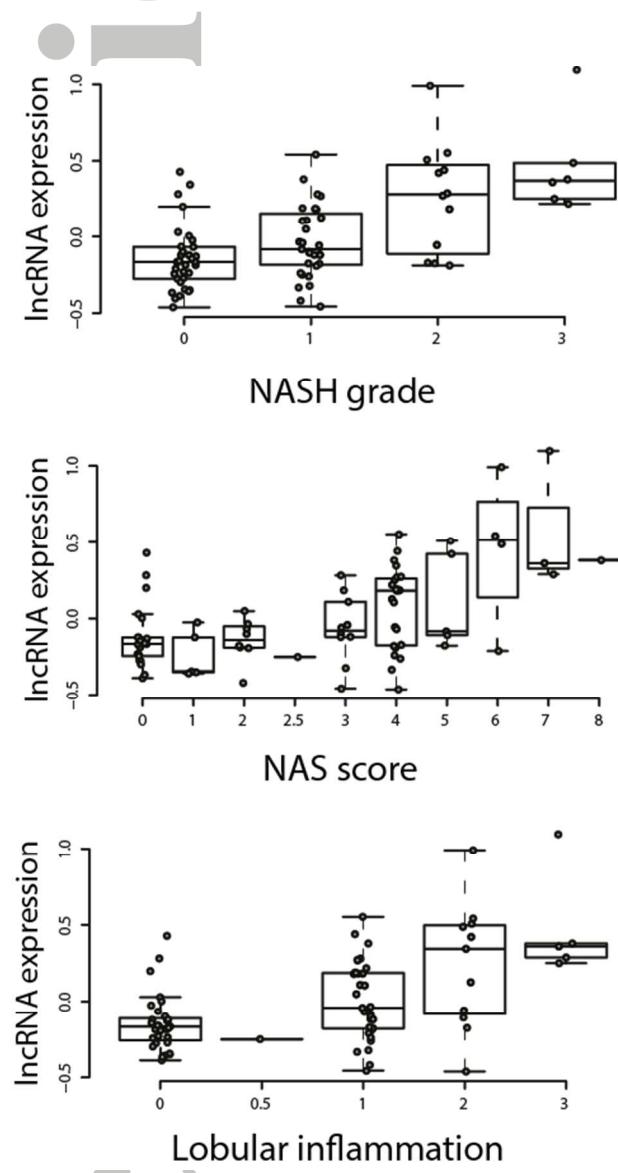


Figure 3. Lnc18q22.2 transcript structure, abundance and cellular location. (A) Lnc18q22.2 maps to chromosome 18q22.2 and contains two exons. Compared to the GENCODE annotation, the liver panel of Human Body Map suggested an elongated exon 2, which is shown in the white box. The average intensity of RNA-seq reads of 64 liver samples from the SRA database is plotted on this region, which confirms the extended exon 2. The physical locations of microarray probe, (q)RT-PCR primers for structure and expression validation and two shRNAs for lnc18q22.2 depletion are indicated. (B) Experimental validation of lnc18q22.2 gene structure using qRT-PCR and RT-PCR. Product 1 corresponds to qRT-PCR product. Products 2 and 3 correspond to RT-PCR products and were sequenced to validate the larger exon 2. S1 = Sample1, S2 = Sample2, Blank = Non-template control. (C) The average expression of lnc18q22.2 in 30 different tissues and 67 different cell lines (SRA dataset). (D) Validation of lnc18q22.2 expression in three hepatocellular carcinoma derived cells lines (HepG2, Hep3B and Huh7), two non-tumorous cell lines (IHH [immortalized human hepatocytes] and PHH [primary human hepatocytes]) and two non-hepatocytes cell lines (HEK293T and HeLa) by qRT-PCR. Y-axis represents lnc18q22.2 expression relative to beta-actin, GAPDH and HPRT (mean \pm SEM). (E) Cellular localization of lnc18q22.2 by fractionating the HepG2 cells into cytoplasmic and nuclear fractions and performing qRT-PCR. To validate the isolation of the nuclear and cytoplasmic fractions, the enrichment of nuclear (MALAT, NEAT) and cytoplasmic (DANCR, OIPS-AS) abundance was analyzed by qRT-PCR. The Log2 ratio between the cytoplasmic and nuclear fraction are shown on the Y axis; mean \pm SEM. 18S and U3 were used for normalization of cytoplasmic and nuclear fractions, respectively.

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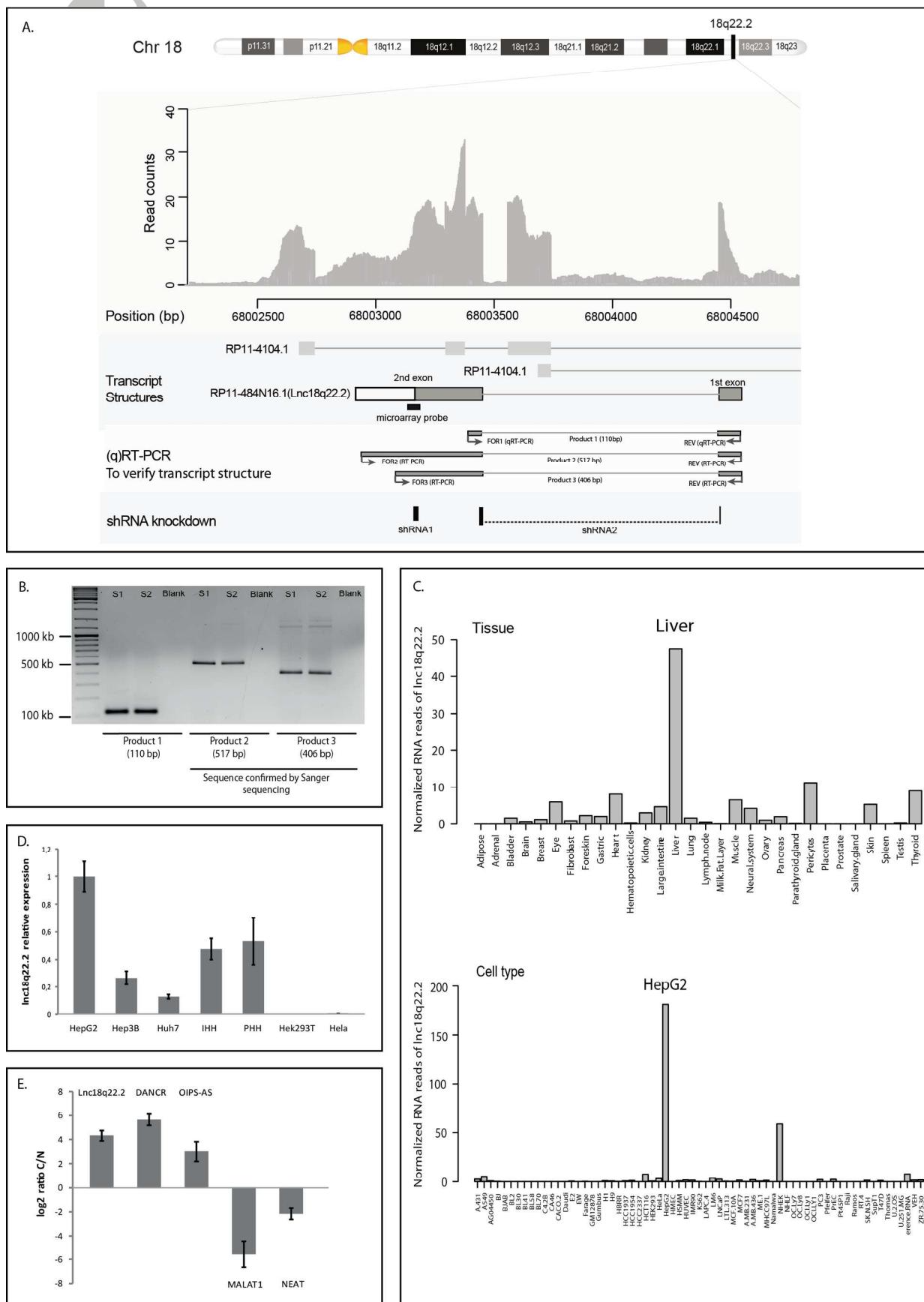
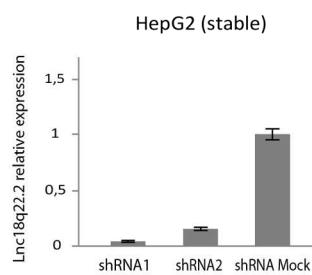


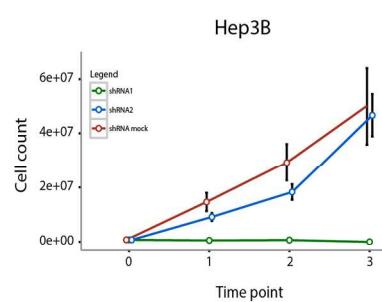
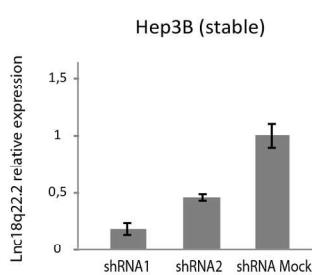
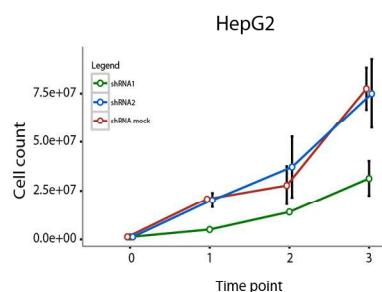
Figure 4. Silencing of lnc18q22.2 expression *in vitro* and phenotypic characteristics of the cells. (A) qRT-PCR of lnc18q22.2 expression after shRNA-mediated knockdown in three hepatocellular carcinoma cell lines (HepG2, Hep3B and Huh7) and one non-tumorous cell line, IHH. Values are shown with shRNA mock mediated lnc18q22.2 expression set to 1; mean \pm SEM. (B) Cell proliferation after shRNA-mediated depletion of lnc18q22.2. Cell counts on surviving cells were obtained after 3 (time point 1), 6 (time point 2) and 9 days (time point 3) of puromycin selection. At baseline (0), 200,000 cells were seeded per well for all cells.

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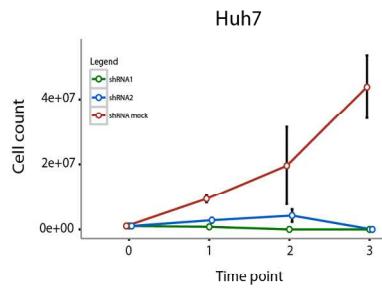
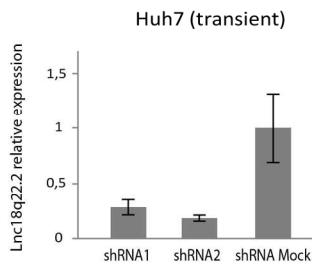
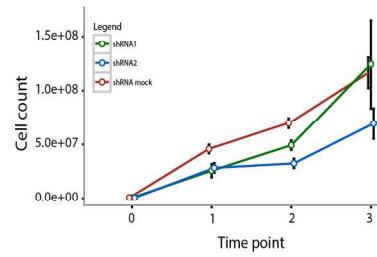
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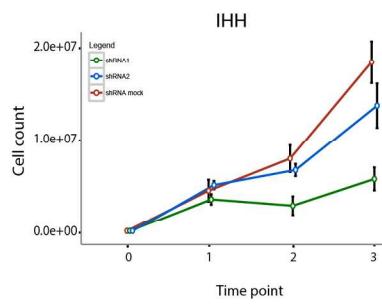
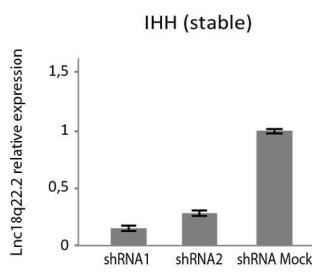
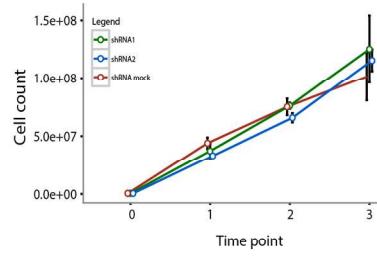
B.



HEK293T



HeLa



AC

Figure 5. Characterization of the cell death phenotype in Huh7 and IHH. (A) The effect of lnc18q22.2 knockdown on apoptosis. The western plots of protein PARP-1 (the marker for apoptosis) in lnc18q22.2 known-down are shown for Huh7 and IHH cell lines (day 3 after viral transduction). The size of intact PARP-1 (Full PARP) is at 116 kDa and the size of the cleaved PARP-1 products (Cleaved PARP) is at 89 kDa. The reduction of full PARP-1 protein of three replicates is quantified and presented in the bar plot (mean \pm SEM). Positive control for apoptosis was cells treated with cisplatin (10 μ g/ml media for 24h and 48h in IHH and Huh7, respectively). Negative control was cells in normal media without any treatment. (B) The effect of lnc18q22.2 knockdown on necrosis. Cell nuclei were stained for presence of necrosis using Sytox green on day 3 after viral transduction and then fluorescent microscopy pictures were taken. Cell nuclei stained in green represent necrotic cells. Positive control for necrosis were cells treated with H_2O_2 (5 μ M for 2h and 5h in Huh7 and IHH, respectively). Negative control was cells in normal media without any treatment. Size bar = 400 μ m.

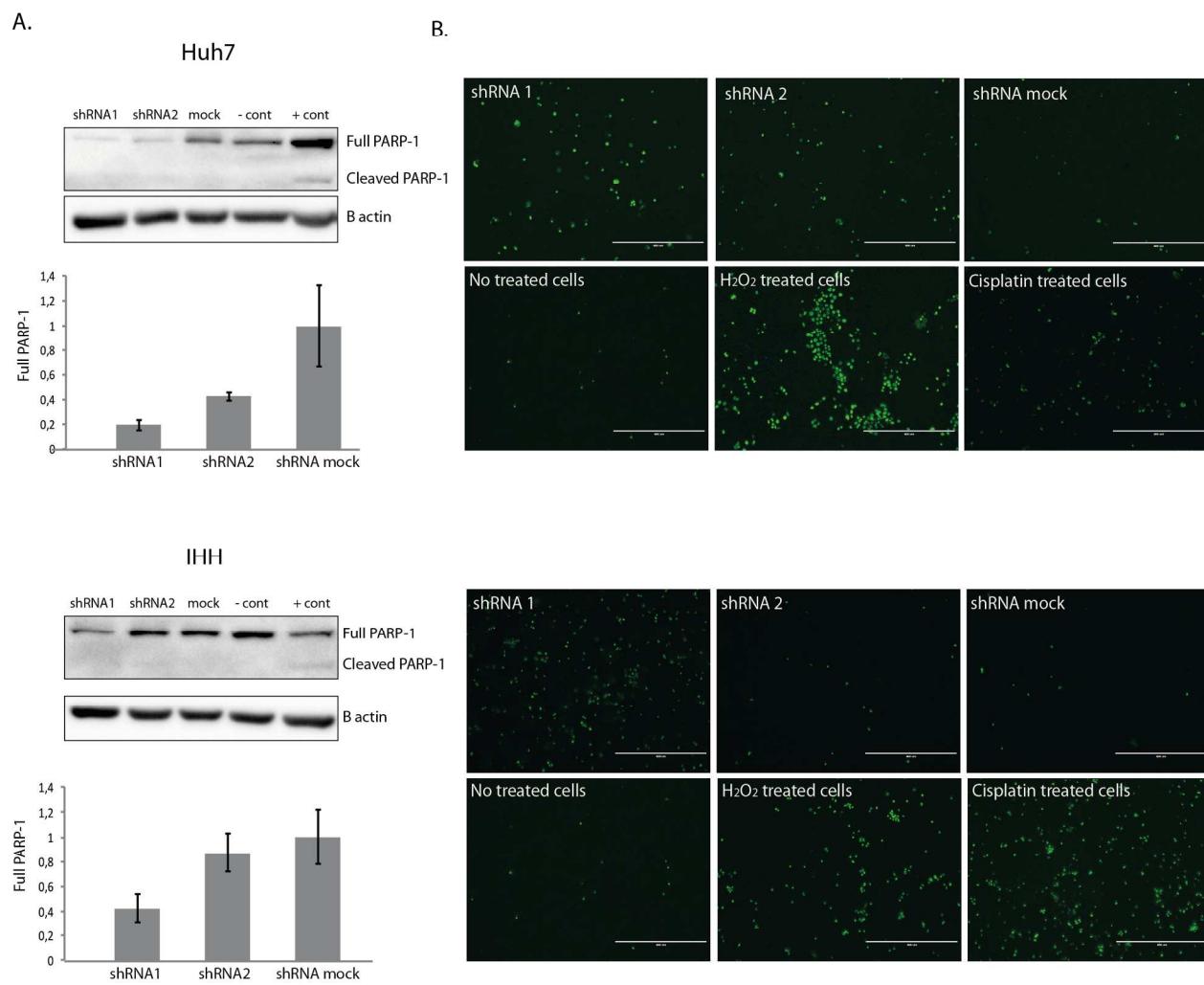
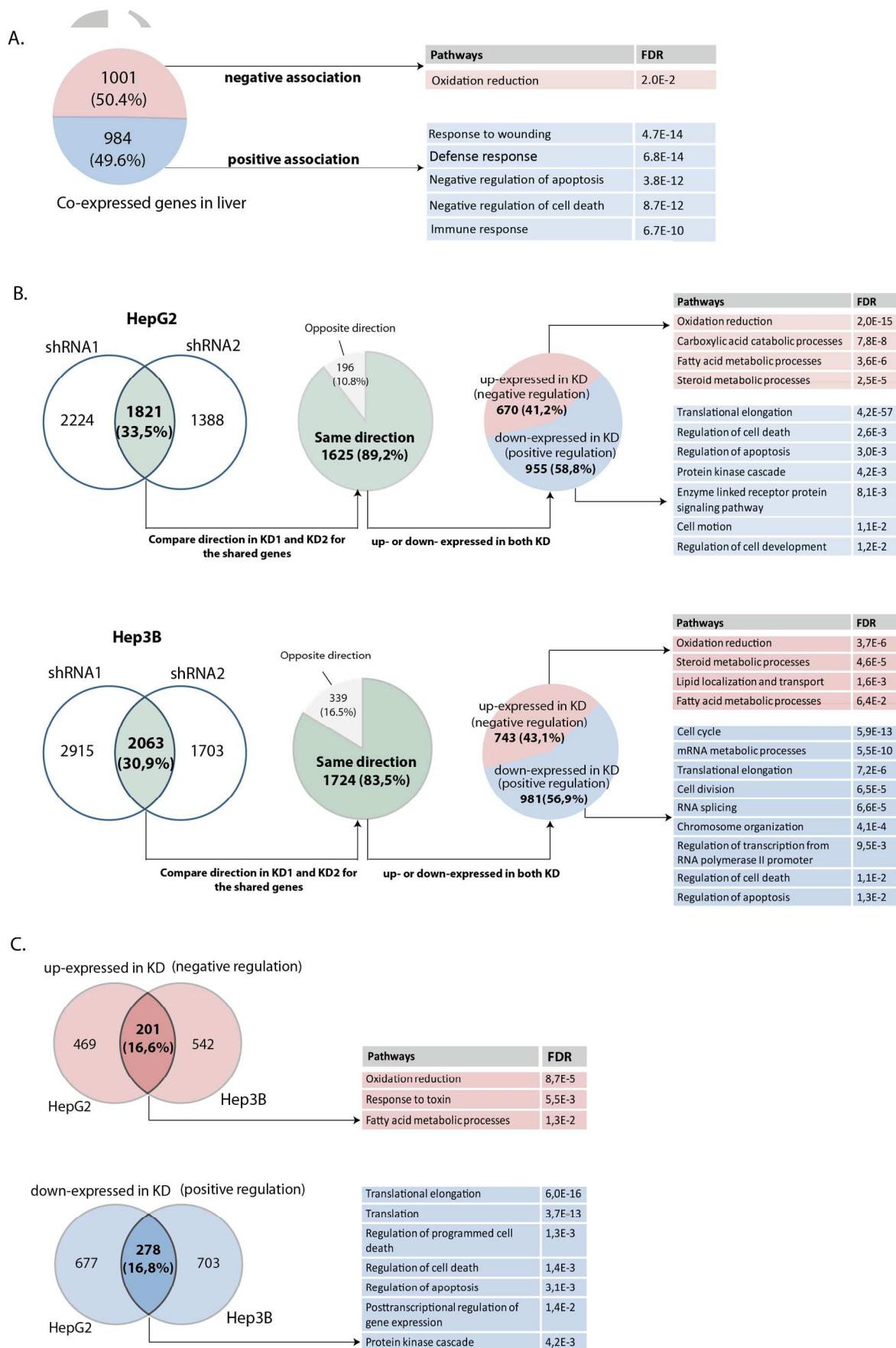


Figure 6. GO pathway enrichment analysis. (A) Genome-wide co-expression analysis from the human microarray data detected potential downstream genes and molecular processes associated to lnc18q22.2. Genes were split in two groups: those positively correlated with lnc18q22.2 and those negatively correlated with lnc18q22.2. All co-expressed genes were significant at FDR<0.05. (B) Gene enrichment analysis on differentially expressed genes from RNA-seq in HepG2 and Hep3B cells after lnc18q22.2 depletion. Per cell line, the Venn diagram shows the number of shared genes affected by both shRNA1 and shRNA2. The pie chart indicates the total number of genes affected in the same direction. The pathway analysis was then confined to the genes that were negatively regulated or positively regulated by lnc18q22.2, respectively. All GO biological processes at FDR<0.05 are shown. (C) The pathway analysis for the upregulated and downregulated genes shared in both HepG2 and Hep3B cells. All pathways were significant at FDR<0.05.

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Supporting Information

A liver-specific long non-coding RNA with a role in cell viability is elevated in human non-alcoholic steatohepatitis

Biljana Atanasovska^{1,2}, Sander S. Rensen³, Marijke R. van der Sijde², Glenn Marsman¹, Vinod Kumar², Iris Jonkers², Sebo Withoff², Ronit Shiri-Sverdlov⁴, Jan Willem M. Greve⁵, Klaas Nico Faber^{6,7}, Han Moshage^{6,7}, Cisca Wijmenga², Bart van de Sluis¹, Marten H. Hofker^{1,*;†}, Jingyuan Fu^{1,2,*,\$}

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Online Methods:

Liver biopsies collection and processing

Liver wedge biopsies were removed immediately after the abdomen was opened and before the intestines or liver were manipulated. Fragments 0.5×0.5 cm in size were dissected from liver tissue. For RNA extraction, fragments were cut into smaller pieces, snap-frozen in liquid nitrogen, and stored at -80°C . For cryosectioning, tissue fragments of similar size were immersed in Tissue-Tek optimal cutting temperature compound (Sakura Finetek Europe, Zoeterwoude, the Netherlands) and then mounted onto a piece of cork for freezing in pre-chilled isopentane on dry ice. After cryoembedding, samples were stored at -80°C . For formalin fixation, tissue fragments were immersed in formalin solution overnight at 4°C and then dehydrated through a graded ethanol series before paraffin embedding.

Liver-specific expression of lnc18q22.2 from public dataset

To assess expression of lnc18q22.2 in a wide-range of tissue types and cell lines, we used 1,262 raw human RNAseq datasets from different tissue types and cell lines. This dataset was described in our previous paper ⁽¹⁾. In brief, we downloaded all raw sequencing data from 9,527 public human RNAseq runs. The RNAseq reads were mapped to human genome. After quality check, a total of 1,262 high-quality RNAseq datasets, with an average of 22 million reads per sample, were included for further analysis that cover 30 tissue types and 67 cell types. Gene expression levels were quantified using HTSeq-count 0.5.4.

Lnc18q22.2 abundance in plasma and whole blood

To evaluate the potential of lnc18q22.2 as a non-invasive biomarker, we measured the abundance of lnc18q22.2 in plasma and whole blood. For plasma collection, whole blood from four healthy volunteers and four NASH patients (BMI >40 ; NAS score >7) was collected in EDTA tubes and centrifuged at 1,200

g for 10 min at 4°C to gather the blood cells. Supernatants were transferred to microcentrifuge tubes and centrifuged at 12,000 g for 10 min at 4°C to remove cellular components. Plasma was then carefully collected, and total RNA was extracted from 500 µl plasma using the mirVana PARIS Kit (Foster City, CA, USA) according to the manufacturer's instructions. We used two lncRNAs (*MALAT1* and *NEAT*) known to be present in plasma as positive controls of circulating non-coding RNA biomarkers. To evaluate the abundance of lnc18q22.2 in whole blood, RNA sequencing data from 1,141 whole blood samples was downloaded through the SRA. The total number of reads aligned to lnc18q22.2 region was assessed.

Validating the transcript structure of lnc18q22.2

To assess the transcript structure of lnc18q22.2 in the liver, RT-PCR was run on HepG2 samples using two additional primers, PCR2_FOR (TGCCAGCTGTCAATGAACCTA) and PCR3_FOR (TATGAGTGGCTACCTGCCTC), paired with the qPCR1_REV primer described below. PCR products were Sanger sequenced at GATC-Biotech (<https://www.gatc-biotech.com/en/home.html>) to confirm the presence of the longer exon 2 where the initial microarray probe was located.

Validating the association of expression

To validate the correlation results from the microarray analysis, we performed a validation experiment measuring lnc18q22.2 expression using qRT-PCR in 33 randomly selected liver samples from the discovery cohort, including normal (n=8), NAFLD (n=8) and NASH (n=17) samples. Measurements were performed in triplicate, and a standard curve was used to compare absolute transcript quantities. Lnc18q22.2 primers for qRT-PCR were designed based on Human Body Map and GENCODE annotations using the Primer 3 program (http://biotools.umassmed.edu/bioapps/primer3_www.cgi). Primers were obtained from Biolegio (Nijmegen, the Netherlands) with the following sequences in the 5'

to 3' direction: qPCR1_FOR (GGAGGCTGTTGACAGGCAATG), qPCR1_REV (GACTGCAACTTAAGCTATCTGG). We measured the expression of lnc18q22.2 relative to the housekeeping gene beta actin using the primers described before.⁽²⁾ Expression was then correlated to the intensity of the corresponding microarray probe and to the NASH phenotype.

Validating hepatocyte-specific expression of lnc18q22.2

We tested the expression of lnc18q22.2 in five hepatocyte cell lines (hepatocellular carcinoma [HCC]-derived HepG2 [ATCC, HB-8065], Hep3B [ATCC, HB-8064], Huh7 [JCRB Cell Bank, JCRB0403]; the non-tumorous cell line IH^H ⁽³⁾ and in RNAs isolated from 3 different batches of primary human hepatocytes (PHH) [Tebu-Bio, Heerhugowaard, The Netherlands]. For comparison, two additional control cell lines (HeLa [ATCC, CCL-2] and Hek293T [ATCC, CRL-3216]) were analyzed. We measured lnc18q22.2 expression in these cells using qRT-PCR with the previously described primers (qPCR_FOR and qPCR_REV). Cells were cultured in a humidified incubator with 95% CO₂ at 37°C. The cells were grown in Dulbecco's Modified Eagle Medium (Gibco BRL, Grand Island, NY, USA) supplemented with 10% fetal bovine serum (FBS, Gibco BRL), 100 U/ml penicillin, and 100 mg/ml streptomycin (Gibco BRL). IH^H cells were cultured in complete Williams' medium E (2 mmol/L glutamine, 20 mU/ml insulin, 50 nmol/L dexamethasone, 100 U/ml penicillin and 100 mg/ml streptomycin) supplemented with 10% FBS.

Determination of the cellular localization of lnc18q22.2

Nuclear and cytoplasmic fractions were separated from HepG2 cells by adding 200 µL lysis buffer (140 mM NaCl, 1.5 mM MgCl₂, 10 mM Tris-HCl pH 8.0, 1 mM DTT, and 0.5% Nonidet P-40) to pellets of ~4 million cells, followed by 5 min incubation on ice and centrifugation at 1000 g for 3 min at 4°C. (4) The supernatant was collected as the cytoplasmic fraction. The pellet containing the nuclei was washed

twice with lysis buffer. 1 ml TriPure reagent (Roche) was added to the cytoplasmic fraction (~200 µL), nuclear pellet, and total cell pellet, and RNA was isolated as described before. Nuclear genes were normalized to U3 RNA and cytoplasmic genes were normalized to 18S RNA. As controls for the fractionation, we used known nuclear and cytoplasmic lncRNAs: *MALAT1* and *NEAT* for the nuclear fraction and DANCR and OIP5-AS for the cytoplasmic fraction (primer sequences were taken from ⁽⁴⁾). The log₂ ratio of cytoplasmic and nuclear fractions were calculated and plotted for each gene.

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Design of shRNAs

To knockdown lnc18q22.2, we designed two short hairpin RNA (shRNA) cassettes for cloning into the lenti-viral pLKO TRC vector. The cassettes were specifically designed using the full lnc18q22.2 sequence and targeted only lnc18q22.2 and not the overlapping transcript. For this purpose, we used the siRNA selection program (<http://sirna.wi.mit.edu/>). Cassette 1 was created by annealing of

shRNA1_FOR:

CCGGAGGTGTTGAGAAGCAAATCTCGAGATTGCTTCTACCACGACCTTTTG; and

shRNA1_REV:

AATTCAAAAAAGGTCGTGGTGAGAAGCAAATCTCGAGATTGCTTCTACCACGACCT.

Cassette 2 was created by annealing of shRNA2_FOR:

CCGGGACAGGCAATGATTCTGTAACTCGAGTTACAGAAATCATTGCCTGTCTTTTG; and

shRNA2_REV:

AATTCAAAAAGACAGGCAATGATTCTGTAACTCGAGTTACAGAAATCATTGCCTGTC. A

mock shRNA hairpin was created based on oligos shRNA_mock_FOR :

CCGGTTCTCCGAACGTGTCACGTGTCTCGAGACACGTGACACGTTGGAGAATTGG; and

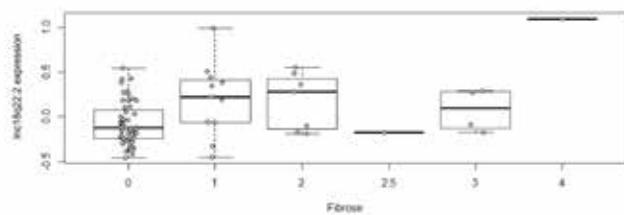
shRNA_mock_REV:

AATTCAAAAATTCTCCGAACGTGTCACGTGTCTCGAGACACGTGACACGTTGGAGAA.

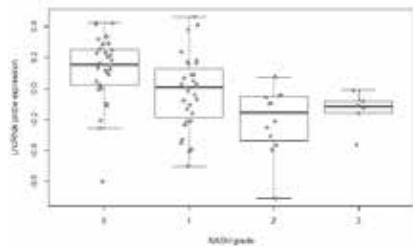
Supporting figures:

Figure S1. lncRNAs from the microarray data of 82 severely obese individuals correlate with different NASH phenotypes. (A) lnc18q22.2 correlated with the grade of fibrosis ($r = 0.35, P = 0.0018$). (B) lncRNA *MAPKAPK5-AS1* correlated with NASH grade ($r = 0.51, P = 8.11 \times 10^{-7}$). (C) lncRNA *RP4-763G1.2* was correlated with NAS score ($r = -0.48, P = 5.80 \times 10^{-6}$) and ASAT ($r = -0.49, P = 5.08 \times 10^{-6}$). Correlations in B and C were significant at FDR<0.05, but not significant after correction for age, gender and BMI. Y-axis represents normalized probe expression for lncRNAs; X-axis represents severity of the disease indicated by different measures of disease severity. ASAT = aspartate transaminase.

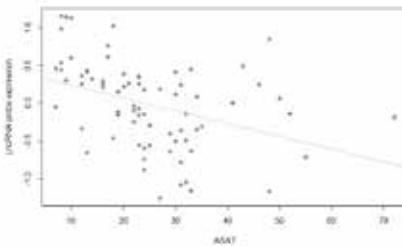
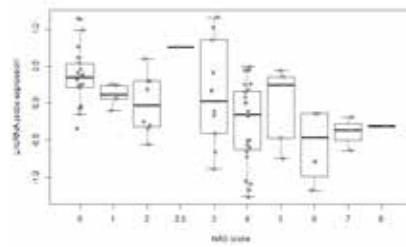
A.



B.



C.



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Figure S2. Replication of the correlation between Lnc18q22.2 and NASH phenotypes. Expression data of 44 liver biopsies (normal n = 13; steatosis n = 19; steatohepatitis n = 12) from patients with alcoholic and non-alcoholic steatohepatitis was extracted from the GSE33814 study. Lnc18q22.2 expression was consistently positively correlated with steatosis and steatohepatitis ($r = 0.47$, $P = 0.0013$)

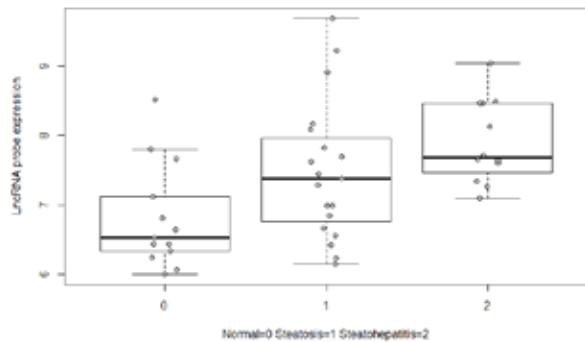
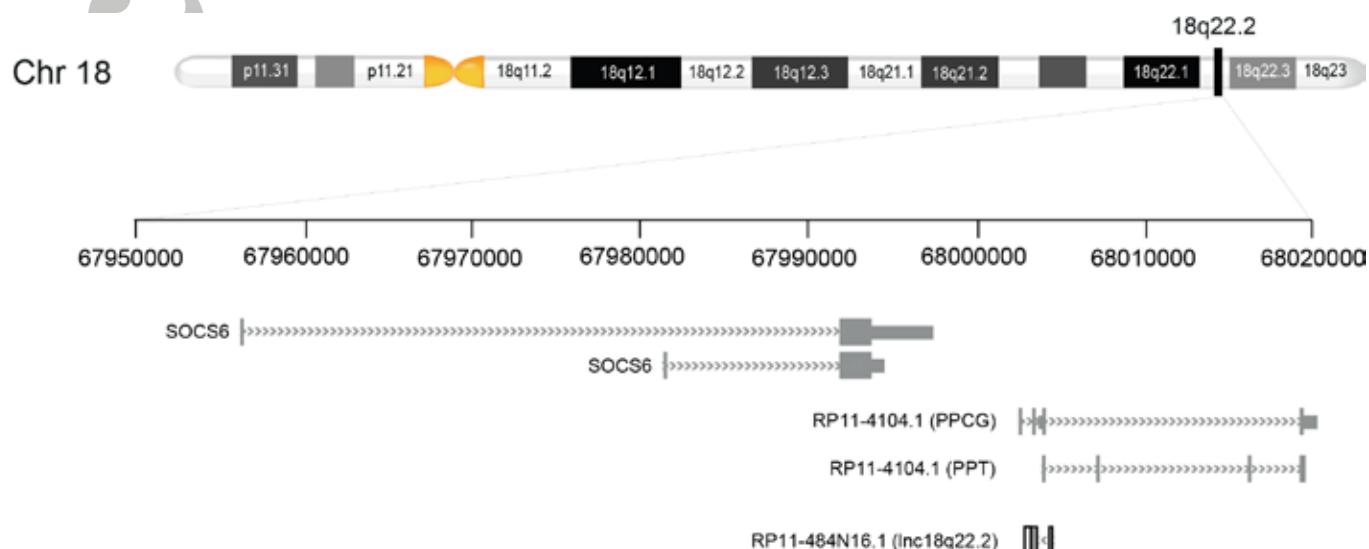


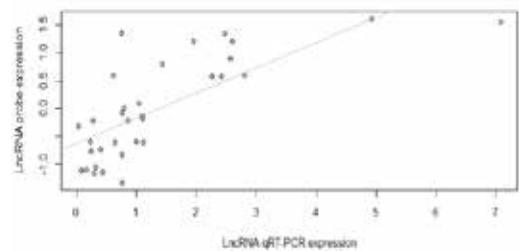
Figure S3. Overlapping and nearby genes in the locus of Lnc18q22.2. Lnc18q22.2 locates at chromosome region 18q22.2, overlapping with a putative protein coding gene (PPCG) *RP11-4104.1* and a putative process transcript (PPT), but without any established protein-coding function. The closest coding gene, *SOCS6*, is also shown.



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Figure S4. Validation of lnc18q22.2 microarray expression using qRT-PCR in subset of 33 human liver samples. (A) Positive correlation between the relative expression of lnc18q22.2 and the expression level of the lnc18q22.2 microarray probe ($r = 0.74, P = 8.50 \times 10^{-7}$) in randomly selected 33 liver samples from the discovery cohort. Y-axis represents lnc18q22.2 probe expression (normalized data); X-axis represents lnc18q22.2 relative expression measured by qRT-PCR using β -actin for normalization. (B) Spearman's rank correlation between lnc18q22.2 relative expression measured by qRT-PCR and NASH phenotypes in subset of 33 liver samples. Correlations with NASH grade ($r = 0.65, P = 4.55 \times 10^{-5}$), NAS score ($r = 0.58, P = 8.64 \times 10^{-4}$) and lobular inflammation ($r = 0.62, P = 1.38 \times 10^{-4}$) are presented.

A.



B.

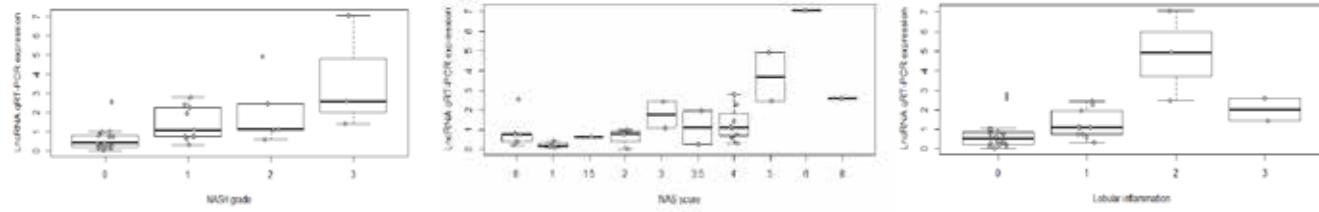
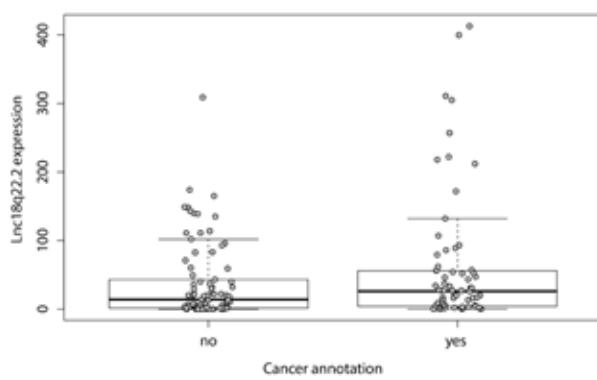


Figure S5. Expression of Lnc18q22.2 and control lncRNAs in HCC. (A) No significant difference between the expression of Lnc18q22.2 in healthy and HCC samples was observed ($P = 0.12$); (B) Significant difference was observed for known cancer overexpressed lncRNAs MALAT ($P = 3.00 \times 10^{-10}$) and HULC ($P = 3.64 \times 10^{-5}$). Student T-test was used to assess the significant difference in expression.

A.



B.

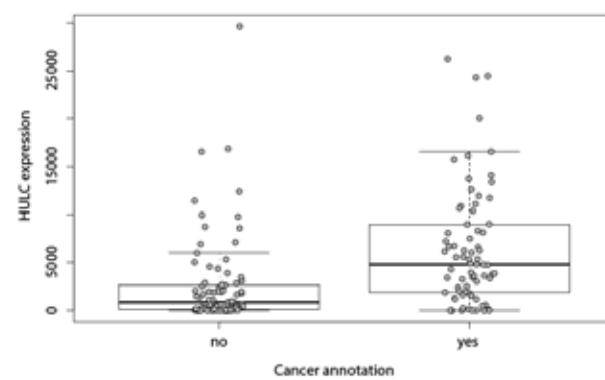
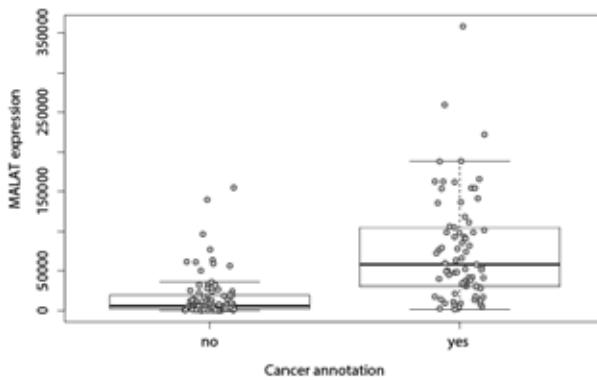
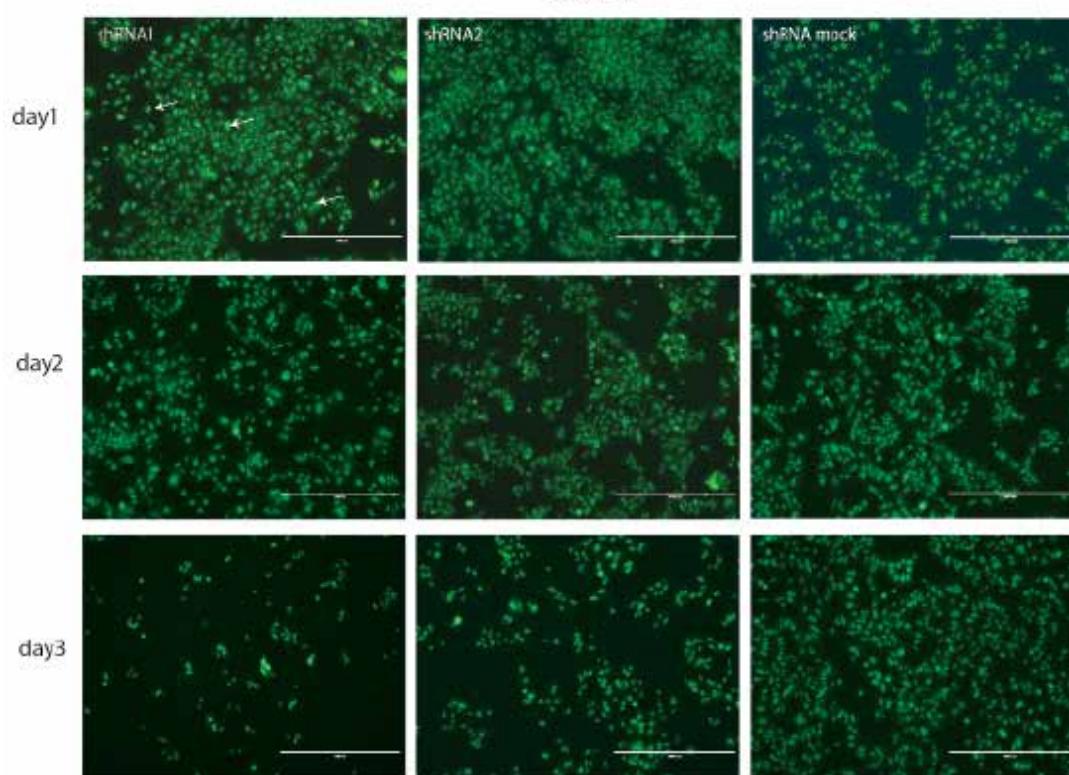
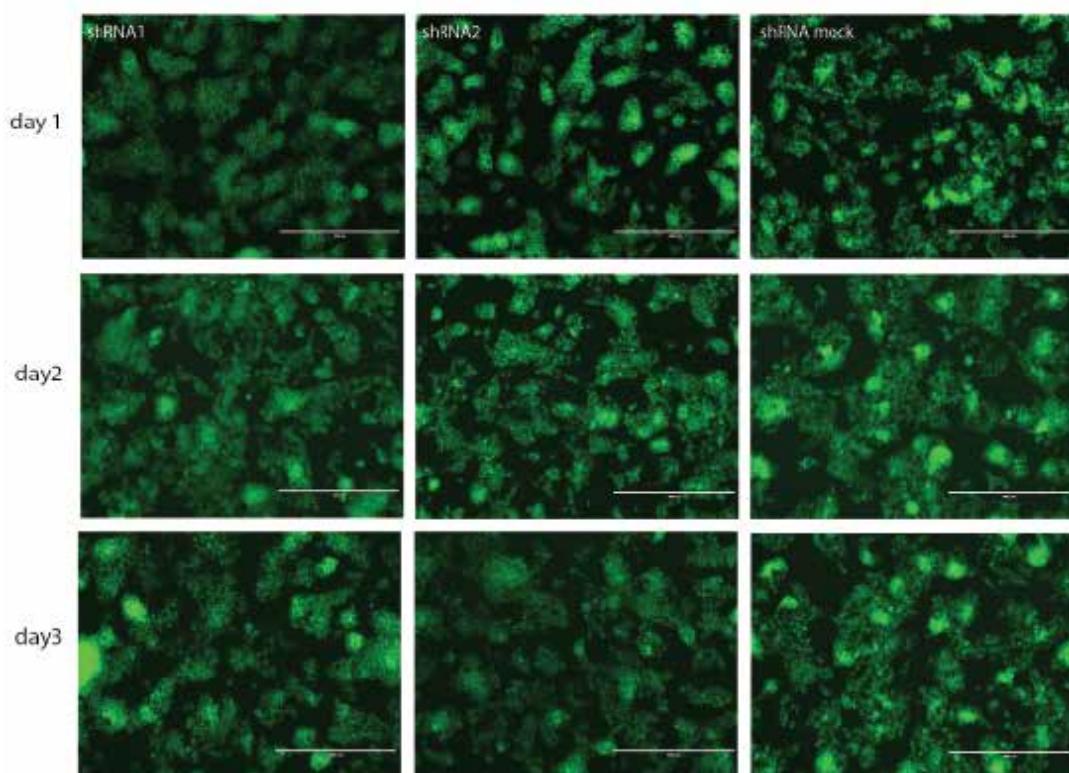


Figure S6. Characterization of the cell death phenotype in Huh7 and IHH. Cells were transduced with virus media, fluorescent microscopy pictures were taken after Acridine Orange nuclear staining in three time points (day 1-3 after virus transduction). Cell nuclei stained in light green represent apoptotic cells (white arrows). Size bar = 400 μ m.

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Huh7**IHH**

References for online methods

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Supporting Tables

A liver-specific long non-coding RNA with a role in cell viability is elevated in human non-alcoholic steatohepatitis

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S1. Plasma and clinical parameters of the MORE study population

S2. Correlation results for 3 lncRNA with NASH phenotypes

S3. Correlation between lnc18q22.2 and 5MB window genes (microarray data, SRA data)

S4. Lnc18q22.2 and control gene expression detected by qRT-PCR in plasma of four healthy volunteers and four NASH patients

S5. Co-expressed genes with lnc18q22.2 from microarray data

S6. DE genes between KD1 vs Mock and KD2 vs mock in HepG2 after lnc18q22.2 knockdown

S7. DE genes between KD1 vs Mock and KD2 vs mock in Hep3B after lnc18q22.2 knockdown

S8. Upregulated genes (n=201) after lnc18q22.2 knockdown in HepG2 and Hep3B

S9. Downregulated genes (n=278) after lnc18q22.2 knockdown in HepG2 and Hep3B

S1. Plasma and clinical parameters of the MORE study population

	<i>No. of individuals/ Mean (SD)</i>			
	<u>All individuals</u>	<u>Normal</u>	<u>NAFLD</u>	<u>NASH</u>
Number of individuals	82	23	11	48
Male/Female	24/58	7/16	2/9	15/33
Age (years)	44.55 (9.77)	42.3 (10.41)	44.36 (9.46)	45.67 (9.53)
BMI (kg/m ²)	46.52 (9.69)	42.76 (6.03)	43.95 (6.53)	48.82 (11.00)
Glucose (mmol/L)	6.52 (2.07)	5.79 (1.18)	5.94 (0.96)	7.03 (2.46)
Insulin (mU/L)	19.06 (10.52)	15.37 (10.38)	21.06 (8.91)	20.42 (10.67)
HOMA-IR (mmol/L)	5.54 (3.62)	4.09 (3.64)	5.30 (2.26)	6.30 (3.68)
HbA1c	6.55 (1.4)	6.09 (0.75)	6.14 (0.63)	6.85 (1.67)
Total Cholesterol (mmol/L)	5.1 (1.16)	4.8 (0.79)	5.33 (0.73)	5.20 (1.35)
HDL (mmol/L)	0.99 (0.38)	1.04 (0.35)	1.06 (0.19)	0.95 (0.43)
LDL (mmol/L)	3.22 (1.02)	2.94 (0.83)	3.49 (0.90)	3.30 (1.11)
TG (mmol/L)	2.27 (2.07)	1.81 (0.95)	1.81 (0.95)	2.59 (2.55)
FFA (mmol/L)	0.72 (0.74)	0.47 (0.24)	0.73 (0.45)	0.85 (0.91)
ALAT (U/L)	26.53 (16.23)	20.87 (7.3)	23.30 (9.19)	30.07 (19.55)
ASAT (U/L)	24.73 (12.62)	16 (6.93)	25.5 (10.78)	28.93 (13.13)
CRP (mg/L)	9.77 (7.78)	9.23 (7.25)	11.33 (11.16)	9.67 (7.30)
IL1b	0.93 (1.13)	0.56 (0.43)	0.55 (0.17)	1.16 (1.37)
IL6	5.19 (2.55)	3.69 (1.53)	4.35 (1.53)	5.97 (2.78)
IL8	5.84 (2.75)	5.89 (1.73)	4.07 (1.04)	6.21 (3.21)
TNF	9.87 (6.33)	7.91 (2.5)	18.37 (15.04)	8.74 (1.97)

	Number of individuals scored	Grade (number of individuals)								
		0	1	2	3	4	5	6	7	8
Steatosis (0-3)	82	21	21	28	12	/	/	/	/	/
Fibrosis (0-4)	79	55	11	7	5	1	/	/	/	/
Lobular inflammation (0-3)	81	31	34	11	5	/	/	/	/	/

Ballooning (0-2)	81	42	36	3	/	/	/	/	/	/
NASH grade (0-3)	82	33	31	12	6	/	/	/	/	/
NASH stage (0-3)	81	55	14	6	6	/	/	/	/	/
NAS score (0-8)	81	21	5	8	11	23	5	4	3	1
(0=absent, 1=present)										
Microgranulomas	80	74	6	/	/	/	/	/	/	/
Large lipogranulomas	80	60	20	/	/	/	/	/	/	/
Portal inflammation	81	63	18	/	/	/	/	/	/	/
Acidophilic bodies	80	74	6	/	/	/	/	/	/	/
Pigmented macrophages	81	73	8	/	/	/	/	/	/	/
Megamitochondria	81	79	2	/	/	/	/	/	/	/
Mallory hyaline	81	79	2	/	/	/	/	/	/	/
Glucogenated nuclei	78	64	14	/	/	/	/	/	/	/

S2. Correlation results for 3 lncRNA with NASH phenotypes

	Array Address probe ID	Gene Name	Chr	Phenotype	Spearman correlation			Linear model corrected for age, age ² and gender		Linear model corrected for age, age ² , gender and BMI	
					r.value	p.value	FDR	estimate	p.value	estimate	p.value
1.	3140138	MAPKAPK5-AS1	12	NASH grade	-0,53	4,06x10 ⁻⁷	0,025	-1,64	5,42x10 ⁻⁵	-1,45	0,0003
2.	6060327	RP11-484N16.1	18	NASH grade	0,51	8,11x10 ⁻⁷	0,023	1,68	2,36x10 ⁻⁸	1,63	2,06x10 ⁻⁷
				Lobular inflammation	0,50	2,35x10 ⁻⁶	0,041	1,50	2,42x10 ⁻⁷	1,39	3,08x10 ⁻⁶
				NAS score	0,48	4,69x10 ⁻⁶	0,058	3,64	4,84x10 ⁻⁷	3,28	5,20x10 ⁻⁶
3.	3130592	RP4-763G1.2	1	ASAT	-0,49	5,08x10 ⁻⁶	0,056	-8,96	0,0004	-7,78	0,0031
				NAS score	-0,48	5,80x10 ⁻⁶	0,058	-1,08	1,92x10 ⁻	-1,38	0,0008

										5	
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S3. Correlation between lnc18q22.2 and 5MB window genes (microarray data, SRA data)

GeneID	MORE microarray				EnsemblID	SRA (RNAseq)						
	Array Address probe ID	r.value	p.value	FDR		SRA liver (n=63)			SRA HepG2 (n=34)			
						r.value	p.value	FDR	r.value	p.value	FDR	
RP11-659F24.1	-	-	-	-	ENSG00000264634	-0,05	0,72	0,89	-0,28	0,24	0,50	
RP11-526H11.1	-	-	-	-	ENSG00000264869	0,15	0,32	0,59	-0,31	0,20	0,46	
RP11-421N8.2	-	-	-	-	ENSG00000264699	0,08	0,59	0,80	NA	NA	NA	
RP11-421N8.1	-	-	-	-	ENSG00000260747	0,23	0,12	0,34	0,09	0,73	0,93	
RP11-128D14.1	-	-	-	-	ENSG00000265425	-0,05	0,75	0,91	-0,15	0,54	0,76	
AKR1B10P2	-	-	-	-	ENSG00000263355	-0,04	0,77	0,92	-0,15	0,54	0,76	
RP11-585K6.2	-	-	-	-	ENSG00000264697	-0,06	0,67	0,86	-0,15	0,54	0,76	
TMX3	1820187	-0,21	0,06	0,37	ENSG00000166479	0,56	6,03E-05	4,18E-03	0,27	0,27	0,54	
CCDC102B	2630639	-0,11	0,32	0,73	ENSG00000150636	0,25	0,10	0,31	0,64	3,37E-03	0,04	
RP11-106E15.1	-	-	-	-	ENSG00000263637	-0,04	0,78	0,92	-0,04	0,86	1,00	
RNU6-39P	-	-	-	-	ENSG00000207072	0,12	0,45	0,69	-0,02	0,95	1,00	
SDHCP1	-	-	-	-	ENSG00000264444	0,12	0,41	0,66	-0,26	0,27	0,54	
RP11-861L17.3	-	-	-	-	ENSG00000264472	0,17	0,25	0,51	0,24	0,33	0,62	
RP11-861L17.2	-	-	-	-	ENSG00000264236	0,09	0,54	0,76	-0,31	0,20	0,46	
RP11-674P19.2	-	-	-	-	ENSG00000264705	0,21	0,17	0,42	-0,15	0,54	0,76	
DOK6	7200341	0,14	0,21	0,63	ENSG00000206052	0,23	0,12	0,34	0,87	1,03E-06	1,48E-04	
RP11-465I4.3	-	-	-	-	ENSG00000264845	0,19	0,20	0,45	0,02	0,95	1,00	
RP11-465I4.2	-	-	-	-	ENSG00000265643	0,02	0,89	0,99	0,04	0,88	1,00	
RP11-543H23.2	-	-	-	-	ENSG00000266840	-0,07	0,64	0,84	-0,11	0,67	0,88	
CD226	3940754	-0,10	0,39	0,78	ENSG00000150637	0,22	0,14	0,38	-0,41	0,08	0,36	
RTTN	6400632	-0,19	0,09	0,45	ENSG00000176225	0,28	0,06	0,23	-0,23	0,33	0,62	
SOCS6	4880475	0,14	0,23	0,64	ENSG00000170677	0,61	7,40E-06	3,18E-03	0,03	0,89	1,00	
RP11-41O4.1	-	-	-	-	ENSG00000266258	0,67	3,64E-07	3,18E-03	0,78	7,79E-05	2,81E-03	
AC013558.1	-	-	-	-	ENSG00000264059	0,12	0,41	0,66	0,04	0,86	1,00	
RP11-41O4.2	-	-	-	-	ENSG00000266278	0,32	0,03	0,15	-0,49	0,03	0,20	

RP11-41O4.3	-	-	-	-	ENSG00000265698	0,04	0,78	0,93	-0,28	0,24	0,50
RPS2P6	-	-	-	-	ENSG00000214255	0,31	0,04	0,17	-0,30	0,22	0,49
RN7SL795P	-	-	-	-	ENSG00000239748	0,06	0,71	0,89	NA	NA	NA
GTSCR1	4260372	-0,04	0,70	0,92	ENSG00000263417	0,16	0,28	0,55	-0,15	0,54	0,76
RP11-384E22.1	-	-	-	-	ENSG00000265781	0,13	0,39	0,65	-0,31	0,20	0,46
RP11-529J17.1	-	-	-	-	ENSG00000265639	0,21	0,15	0,39	NA	NA	NA
RP11-47G4.2	-	-	-	-	ENSG00000265484	0,04	0,80	0,94	-0,15	0,54	0,76
RP11-47G4.1	-	-	-	-	ENSG00000263733	0,22	0,14	0,37	-0,44	0,06	0,30
RP11-510D19.1	-	-	-	-	ENSG00000260676	-0,02	0,90	1,00	-0,31	0,20	0,46
RP11-752P2.1	-	-	-	-	ENSG00000264388	0,09	0,56	0,78	-0,31	0,19	0,46
RP11-752P2.2	-	-	-	-	ENSG00000265946	0,13	0,37	0,63	-0,15	0,54	0,76
RP11-723G8.2	-	-	-	-	ENSG00000265352	0,23	0,13	0,36	NA	NA	NA
RP11-723G8.1	-	-	-	-	ENSG00000260457	0,13	0,39	0,65	-0,15	0,54	0,76
RP11-736G13.1	-	-	-	-	ENSG00000265995	0,21	0,16	0,40	-0,15	0,54	0,76
CBLN2	670019	-0,02	0,86	0,97	ENSG00000141668	0,29	0,05	0,21	-0,44	0,06	0,30
HNRNPA1P11	-	-	-	-	ENSG00000264315	-0,01	0,96	1,00	-0,44	0,06	0,30

S4. Lnc18q22.2 and control gene expression detected by qRT-PCR in plasma of four healthy volunteers and four NASH patients

	<u>Lnc18q22.2</u>	<u>MALAT1</u>	<u>Neat</u>
Control 1	-	+	+
Control 2	-	+	+
Control 3	-	+	+
Control 4	-	+	-
NASH 1	-	+	+
NASH 2	-	+	+
NASH 3	-	+	+

NASH 4	-	+	+
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S5. Co-expressed genes with Inc18q22.2 from microarray data. 1095 probes corresponding to 984 unique genes were positively associated with Inc18q22.2 and 1040 probes corresponding to 1001 unique genes were negatively associated with Inc18q22.2.

Array Address probe ID	Gene name	r.value	p.value	FDR
6580270	<i>LOC646723</i>	0,78	1,25E-17	3,06E-13
3400672	<i>SERPINB8</i>	0,77	3,19E-17	5,18E-13
4780615	<i>ANXA2</i>	0,73	1,16E-14	1,42E-10
1430239	<i>UBC</i>	0,72	3,09E-14	3,01E-10
770730	<i>ANXA2</i>	0,70	1,68E-13	1,17E-09
4230201	<i>CDKN1A</i>	0,70	1,91E-13	1,17E-09
3060300	<i>UBC</i>	0,70	1,93E-13	1,17E-09
6400647	<i>EHD4</i>	0,69	9,69E-13	5,25E-09
6510377	<i>TNFRSF12A</i>	0,69	1,12E-12	5,45E-09
1770376	<i>SERPINB8</i>	0,68	1,57E-12	6,95E-09
20044	<i>LOC644743</i>	0,68	1,86E-12	7,54E-09
2340180	<i>TAGLN2</i>	0,68	2,12E-12	7,96E-09
4210524	<i>RND3</i>	0,67	4,58E-12	1,54E-08
4150048	<i>FABP5</i>	0,67	4,73E-12	1,54E-08
6110025	<i>FHL2</i>	0,67	6,56E-12	2,00E-08
6280672	<i>TMEM49</i>	0,66	1,08E-11	2,94E-08
5900725	<i>PHLDA1</i>	0,66	1,58E-11	3,76E-08
2490017	<i>ZC3H12A</i>	0,66	1,59E-11	3,76E-08
3130301	<i>PIM1</i>	0,66	1,62E-11	3,76E-08
4180343	<i>YWHAZ</i>	0,66	1,75E-11	3,88E-08
4220246	<i>CCL20</i>	0,65	2,67E-11	5,35E-08
3520328	<i>ANXA2</i>	0,65	2,74E-11	5,35E-08
5890468	<i>C14ORF43</i>	0,65	3,09E-11	5,79E-08
7150475	<i>WDR1</i>	0,65	3,31E-11	5,97E-08
6660398	<i>FCN1</i>	0,65	3,86E-11	6,72E-08
7210373	<i>PSMD12</i>	0,64	9,93E-11	1,67E-07
3180672	<i>LITAF</i>	0,64	1,13E-10	1,78E-07

1440736	<i>LDLR</i>	0,64	1,24E-10	1,78E-07
3180528	<i>MMP9</i>	0,64	1,25E-10	1,78E-07
2190452	<i>PIM3</i>	0,64	1,27E-10	1,78E-07
130324	<i>TMPRSS2</i>	0,64	1,28E-10	1,78E-07
4070736	<i>TAGLN2</i>	0,63	1,79E-10	2,38E-07
7320594	<i>ZYX</i>	0,63	1,81E-10	2,38E-07
5490470	<i>MX2</i>	0,63	2,04E-10	2,62E-07
1030270	<i>FPR1</i>	0,63	2,10E-10	2,63E-07
730440	<i>RELB</i>	0,63	2,37E-10	2,88E-07
2570291	<i>IFNGR2</i>	0,63	2,64E-10	3,09E-07
4150520	<i>RIPK2</i>	0,63	2,66E-10	3,09E-07
6420731	<i>SLC20A1</i>	0,63	2,98E-10	3,38E-07
780309	<i>CIDEC</i>	0,63	3,26E-10	3,61E-07
2490240	<i>PTPRE</i>	0,62	3,55E-10	3,85E-07
150095	<i>TP53BP2</i>	0,62	3,97E-10	4,20E-07
3930343	<i>ALOX5AP</i>	0,62	4,14E-10	4,30E-07
3370056	<i>KRT8</i>	0,62	4,41E-10	4,48E-07
770408	<i>SERPINE1</i>	0,62	4,61E-10	4,59E-07
4290072	<i>SERTAD1</i>	0,62	5,60E-10	5,46E-07
7380100	<i>MCL1</i>	0,62	6,87E-10	6,32E-07
7570358	<i>NPC1</i>	0,61	9,89E-10	8,93E-07
4640376	<i>MRLC2</i>	0,61	1,22E-09	1,08E-06
7610138	<i>DDX5</i>	0,61	1,34E-09	1,17E-06
460204	<i>ADFP</i>	0,61	1,44E-09	1,23E-06
3310424	<i>ACTG1</i>	0,61	1,72E-09	1,43E-06
4920228	<i>FFAR2</i>	0,60	1,75E-09	1,43E-06
160242	<i>C13ORF15</i>	0,60	1,76E-09	1,43E-06
2970730	<i>MYADM</i>	0,60	1,91E-09	1,50E-06
1430138	<i>MAFF</i>	0,60	1,91E-09	1,50E-06
6220671	<i>PLAUR</i>	0,60	2,01E-09	1,55E-06
5670465	<i>ADM</i>	0,60	2,04E-09	1,55E-06
4150477	<i>LOXL4</i>	0,60	2,34E-09	1,73E-06

3940528	<i>PPP2CB</i>	0,60	3,02E-09	2,20E-06
5810440	<i>HNRNPAB</i>	0,60	3,15E-09	2,26E-06
2630768	<i>LMNA</i>	0,60	3,34E-09	2,28E-06
1340743	<i>IL8</i>	0,60	3,35E-09	2,28E-06
6580672	<i>RBBP8</i>	0,60	3,39E-09	2,28E-06
7050484	<i>ZYX</i>	0,60	3,42E-09	2,28E-06
1990577	<i>GCLM</i>	0,60	3,60E-09	2,37E-06
5820133	<i>C1ORF108</i>	0,59	3,82E-09	2,49E-06
630091	<i>NCOA7</i>	0,59	4,02E-09	2,58E-06
2340673	<i>PTPRE</i>	0,59	4,25E-09	2,69E-06
5860470	<i>TRIM15</i>	0,59	4,94E-09	3,06E-06
7050138	<i>RQCD1</i>	0,59	4,96E-09	3,06E-06
4490500	<i>ITGAX</i>	0,59	5,04E-09	3,07E-06
5550431	<i>MMD</i>	0,59	5,19E-09	3,13E-06
3780717	<i>SRXN1</i>	0,59	5,45E-09	3,22E-06
730576	<i>SPRY4</i>	0,59	5,48E-09	3,22E-06
840685	<i>IL1B</i>	0,59	5,73E-09	3,33E-06
4220605	<i>ETS2</i>	0,59	6,55E-09	3,64E-06
7650358	<i>TGFBI</i>	0,59	6,56E-09	3,64E-06
2750719	<i>DDX21</i>	0,59	6,58E-09	3,64E-06
1450670	<i>EIF4A1</i>	0,59	6,76E-09	3,70E-06
4810653	<i>YWHAH</i>	0,59	6,93E-09	3,75E-06
5960132	<i>NOLC1</i>	0,59	7,34E-09	3,93E-06
7550484	<i>SRGN</i>	0,58	8,65E-09	4,54E-06
6380021	<i>COQ10B</i>	0,58	9,44E-09	4,89E-06
2640471	<i>RNF24</i>	0,58	1,03E-08	5,24E-06
4730392	<i>MRCL3</i>	0,58	1,03E-08	5,24E-06
1400446	<i>ADFP</i>	0,58	1,05E-08	5,28E-06
830278	<i>C9ORF19</i>	0,58	1,08E-08	5,39E-06
6350634	<i>DYNLT1</i>	0,58	1,15E-08	5,61E-06
6660475	<i>FGR</i>	0,58	1,16E-08	5,61E-06
5050519	<i>RHOQ</i>	0,58	1,16E-08	5,61E-06

2710142	<i>IER5L</i>	0,58	1,23E-08	5,89E-06
1190367	<i>IER3</i>	0,58	1,41E-08	6,67E-06
1940253	<i>CRY1</i>	0,58	1,42E-08	6,67E-06
540671	<i>LILRB2</i>	0,57	1,71E-08	7,93E-06
3940270	<i>LILRA5</i>	0,57	1,92E-08	8,72E-06
5270730	<i>ACTB</i>	0,57	1,93E-08	8,72E-06
6350189	<i>MGC4677</i>	0,57	2,08E-08	9,31E-06
2470017	<i>LILRB3</i>	0,57	2,23E-08	9,91E-06
4010753	<i>RHOG</i>	0,57	2,67E-08	1,16E-05
5420095	<i>MYC</i>	0,57	2,69E-08	1,16E-05
20022	<i>SRF</i>	0,57	3,12E-08	1,29E-05
1030463	<i>PROK2</i>	0,57	3,13E-08	1,29E-05
6510279	<i>DPH3</i>	0,57	3,21E-08	1,31E-05
7320551	<i>LYN</i>	0,56	3,72E-08	1,49E-05
50286	<i>EEPD1</i>	0,56	4,23E-08	1,68E-05
5290270	<i>S100A4</i>	0,56	4,32E-08	1,70E-05
20129	<i>CD52</i>	0,56	4,42E-08	1,73E-05
1070451	<i>ANXA5</i>	0,56	4,75E-08	1,82E-05
520040	<i>C1ORF108</i>	0,56	5,01E-08	1,91E-05
3610035	<i>CD58</i>	0,56	5,27E-08	1,99E-05
2140136	<i>EMR2</i>	0,56	5,31E-08	1,99E-05
6020300	<i>IL1RL1</i>	0,56	5,59E-08	2,08E-05
6330132	<i>ISG20</i>	0,56	6,13E-08	2,25E-05
6510332	<i>EPHA2</i>	0,55	6,72E-08	2,41E-05
6370201	<i>C14ORF43</i>	0,55	6,87E-08	2,44E-05
1570092	<i>TUBB6</i>	0,55	6,94E-08	2,44E-05
7160010	<i>RNF19A</i>	0,55	6,96E-08	2,44E-05
6060326	<i>ZNF295</i>	0,55	7,29E-08	2,54E-05
3370041	<i>VNN3</i>	0,55	7,63E-08	2,60E-05
60341	<i>LOC653171</i>	0,55	7,65E-08	2,60E-05
4850343	<i>LOC647954</i>	0,55	7,74E-08	2,60E-05
620280	<i>JUND</i>	0,55	7,78E-08	2,60E-05

730528	<i>PLAUR</i>	0,55	7,79E-08	2,60E-05
2060047	<i>B4GALT5</i>	0,55	8,01E-08	2,66E-05
4920053	<i>BTG3</i>	0,55	8,66E-08	2,82E-05
2450639	<i>TSC22D1</i>	0,55	8,93E-08	2,87E-05
7100215	<i>TSC22D2</i>	0,55	8,95E-08	2,87E-05
1410408	<i>ARID5B</i>	0,55	9,06E-08	2,87E-05
2640408	<i>RAB6IP1</i>	0,55	9,30E-08	2,93E-05
4780398	<i>NXT1</i>	0,55	9,52E-08	2,97E-05
3130576	<i>CHIC2</i>	0,55	9,73E-08	3,00E-05
3130220	<i>TMEM158</i>	0,55	1,00E-07	3,05E-05
1660528	<i>CKLF</i>	0,55	1,05E-07	3,18E-05
6250468	<i>DUSP6</i>	0,55	1,07E-07	3,23E-05
840356	<i>NUAK2</i>	0,55	1,09E-07	3,26E-05
4010433	<i>LOC650832</i>	0,54	1,22E-07	3,62E-05
2030132	<i>LOC653506</i>	0,54	1,23E-07	3,64E-05
3830131	<i>TUBA1C</i>	0,54	1,24E-07	3,64E-05
6250064	<i>IRF1</i>	0,54	1,25E-07	3,65E-05
7160100	<i>PPRC1</i>	0,54	1,26E-07	3,66E-05
6940358	<i>SELL</i>	0,54	1,27E-07	3,66E-05
5860093	<i>NLF2</i>	0,54	1,28E-07	3,66E-05
540681	<i>S100A10</i>	0,54	1,29E-07	3,67E-05
4480288	<i>ISG20L1</i>	0,54	1,29E-07	3,67E-05
3870484	<i>LUZP1</i>	0,54	1,32E-07	3,71E-05
7100382	<i>SPSB1</i>	0,54	1,35E-07	3,75E-05
2340215	<i>KLF6</i>	0,54	1,45E-07	3,95E-05
1580465	<i>AMICA1</i>	0,54	1,46E-07	3,95E-05
3420373	<i>SOD2</i>	0,54	1,46E-07	3,95E-05
2710735	<i>RASD1</i>	0,54	1,46E-07	3,95E-05
730332	<i>MSN</i>	0,54	1,47E-07	3,95E-05
6450092	<i>C5AR1</i>	0,54	1,48E-07	3,96E-05
2140735	<i>RALGDS</i>	0,54	1,50E-07	3,99E-05
3290639	<i>RAB7B</i>	0,54	1,63E-07	4,27E-05

7400368	<i>RUNX1</i>	0,54	1,64E-07	4,27E-05
7560288	<i>DCUN1D3</i>	0,54	1,71E-07	4,44E-05
4730176	<i>WNT11</i>	0,54	1,72E-07	4,44E-05
2470358	<i>IFNGR1</i>	0,54	1,75E-07	4,50E-05
2100484	<i>STAT3</i>	0,54	1,80E-07	4,59E-05
990288	<i>FHL2</i>	0,54	1,89E-07	4,75E-05
1570553	<i>IL8</i>	0,54	1,92E-07	4,81E-05
6270114	<i>CSF3R</i>	0,54	1,99E-07	4,92E-05
2470689	<i>SPHK1</i>	0,54	2,00E-07	4,92E-05
5390220	<i>S100A9</i>	0,54	2,03E-07	4,98E-05
3710544	<i>EIF1</i>	0,54	2,06E-07	5,02E-05
1340075	<i>BAG3</i>	0,54	2,11E-07	5,11E-05
4150689	<i>METRNL</i>	0,54	2,18E-07	5,25E-05
5720184	<i>KLF10</i>	0,53	2,26E-07	5,43E-05
4050270	<i>LOC652481</i>	0,53	2,28E-07	5,45E-05
3870619	<i>AMD1</i>	0,53	2,31E-07	5,49E-05
1030333	<i>CCL2</i>	0,53	2,37E-07	5,61E-05
5810685	<i>THBS1</i>	0,53	2,40E-07	5,61E-05
4210113	<i>CMTM2</i>	0,53	2,59E-07	5,99E-05
1780273	<i>ALOX5</i>	0,53	2,62E-07	6,02E-05
1430424	<i>RFFL</i>	0,53	2,63E-07	6,02E-05
3140369	<i>TGIF1</i>	0,53	2,80E-07	6,39E-05
2900348	<i>ZFP36</i>	0,53	2,94E-07	6,60E-05
2630577	<i>CAV2</i>	0,53	2,96E-07	6,60E-05
6960215	<i>PITPNM1</i>	0,53	2,96E-07	6,60E-05
3890326	<i>SOD2</i>	0,53	2,96E-07	6,60E-05
5960358	<i>PELO</i>	0,53	3,09E-07	6,82E-05
7550500	<i>JUNB</i>	0,53	3,12E-07	6,85E-05
2140288	<i>FLJ22662</i>	0,53	3,13E-07	6,85E-05
380050	<i>RHBDF2</i>	0,53	3,16E-07	6,89E-05
650112	<i>LST1</i>	0,53	3,20E-07	6,92E-05
70592	<i>VCL</i>	0,53	3,22E-07	6,92E-05

2970332	<i>WEE1</i>	0,53	3,24E-07	6,93E-05
6960440	<i>UBE2A</i>	0,53	3,30E-07	7,04E-05
4490520	<i>EBI2</i>	0,53	3,56E-07	7,54E-05
1710189	<i>RHBDF1</i>	0,53	3,58E-07	7,56E-05
4830504	<i>PGM2</i>	0,53	3,66E-07	7,68E-05
3930750	<i>IRAK2</i>	0,53	3,93E-07	8,18E-05
2190470	<i>KLF10</i>	0,53	3,95E-07	8,20E-05
6620136	<i>MYH9</i>	0,53	3,99E-07	8,23E-05
7400626	<i>NFKB1</i>	0,53	4,11E-07	8,42E-05
5690202	<i>C6ORF166</i>	0,53	4,11E-07	8,42E-05
6900209	<i>ADAM19</i>	0,52	4,15E-07	8,46E-05
4180315	<i>CHMP4B</i>	0,52	4,28E-07	8,69E-05
4640470	<i>SGMS2</i>	0,52	4,67E-07	9,36E-05
5080021	<i>BIRC3</i>	0,52	4,74E-07	9,47E-05
780465	<i>SLC11A1</i>	0,52	4,77E-07	9,50E-05
1710541	<i>TMEM71</i>	0,52	5,26E-07	1,04E-04
380202	<i>NUAK2</i>	0,52	5,38E-07	1,06E-04
2650035	<i>PADI4</i>	0,52	5,41E-07	1,06E-04
4040576	<i>IL6</i>	0,52	5,54E-07	1,08E-04
4070017	<i>ODC1</i>	0,52	5,63E-07	1,08E-04
7560041	<i>AXUD1</i>	0,52	5,64E-07	1,08E-04
2850551	<i>RCAN1</i>	0,52	5,65E-07	1,08E-04
620360	<i>CAV2</i>	0,52	5,77E-07	1,10E-04
610025	<i>LOC400578</i>	0,52	5,82E-07	1,11E-04
2650193	<i>SDC4</i>	0,52	6,27E-07	1,18E-04
6100615	<i>CD93</i>	0,52	6,33E-07	1,19E-04
1240386	<i>KLHL21</i>	0,52	6,35E-07	1,19E-04
5390095	<i>RASSF2</i>	0,52	6,47E-07	1,21E-04
4890324	<i>HS.538259</i>	0,52	6,82E-07	1,26E-04
5290161	<i>C17ORF91</i>	0,52	7,18E-07	1,33E-04
3060022	<i>PHF13</i>	0,52	7,30E-07	1,34E-04
1510424	<i>S100P</i>	0,51	7,60E-07	1,38E-04

5290397	<i>CLCF1</i>	0,51	7,66E-07	1,38E-04
3890138	<i>MTMR11</i>	0,51	7,70E-07	1,38E-04
4050452	<i>PPA1</i>	0,51	7,94E-07	1,42E-04
6660630	<i>TP53INP1</i>	0,51	8,22E-07	1,46E-04
1510300	<i>ELF3</i>	0,51	8,33E-07	1,48E-04
2060577	<i>TRIM15</i>	0,51	8,60E-07	1,52E-04
6280332	<i>CXCL16</i>	0,51	8,64E-07	1,52E-04
4810020	<i>PLEK</i>	0,51	9,56E-07	1,65E-04
6590341	<i>RAB31</i>	0,51	1,02E-06	1,75E-04
2640735	<i>BHLHB2</i>	0,51	1,05E-06	1,80E-04
3780019	<i>HIGD1A</i>	0,51	1,06E-06	1,80E-04
7650433	<i>TIMP1</i>	0,51	1,08E-06	1,84E-04
4010133	<i>VNN3</i>	0,51	1,11E-06	1,87E-04
4040097	<i>KLF6</i>	0,51	1,11E-06	1,87E-04
290475	<i>CTNNAL1</i>	0,51	1,12E-06	1,88E-04
1710753	<i>ARL5B</i>	0,51	1,18E-06	1,97E-04
6250615	<i>PGLYRP1</i>	0,51	1,21E-06	2,01E-04
650458	<i>FILIP1L</i>	0,51	1,22E-06	2,02E-04
3170017	<i>MAP2K3</i>	0,51	1,27E-06	2,07E-04
7570673	<i>UPP1</i>	0,51	1,28E-06	2,08E-04
5360392	<i>TP53INP2</i>	0,51	1,29E-06	2,08E-04
3360112	<i>TMEM2</i>	0,50	1,34E-06	2,17E-04
7400286	<i>HMGA1</i>	0,50	1,35E-06	2,18E-04
6200128	<i>ROD1</i>	0,50	1,38E-06	2,21E-04
7510309	<i>FRMD6</i>	0,50	1,43E-06	2,28E-04
6290270	<i>MNDA</i>	0,50	1,44E-06	2,28E-04
4210465	<i>CD86</i>	0,50	1,55E-06	2,43E-04
7380706	<i>NINJ1</i>	0,50	1,56E-06	2,44E-04
6760546	<i>TIPARP</i>	0,50	1,59E-06	2,47E-04
5090671	<i>GDF15</i>	0,50	1,72E-06	2,65E-04
6280482	<i>NIP7</i>	0,50	1,73E-06	2,65E-04
940291	<i>MIDN</i>	0,50	1,74E-06	2,66E-04

5310754	<i>VNN1</i>	0,50	1,78E-06	2,71E-04
6960630	<i>CD97</i>	0,50	1,84E-06	2,79E-04
4010100	<i>HS.570988</i>	0,50	1,88E-06	2,83E-04
6650176	<i>TRMT11</i>	0,50	1,88E-06	2,83E-04
3060523	<i>NAMPT</i>	0,50	1,89E-06	2,84E-04
4810520	<i>TRIB1</i>	0,50	2,00E-06	2,98E-04
6560091	<i>TGFBR2</i>	0,50	2,00E-06	2,98E-04
6200168	<i>PIM2</i>	0,50	2,04E-06	3,03E-04
3930605	<i>CYR61</i>	0,50	2,06E-06	3,05E-04
1030259	<i>HPS5</i>	0,50	2,19E-06	3,19E-04
4810128	<i>PHLDA2</i>	0,50	2,21E-06	3,21E-04
5870202	<i>FBXO33</i>	0,50	2,26E-06	3,24E-04
4850095	<i>PNRC1</i>	0,49	2,28E-06	3,27E-04
4230735	<i>FAM129A</i>	0,49	2,30E-06	3,29E-04
50095	<i>METRN1L</i>	0,49	2,31E-06	3,30E-04
2360719	<i>IRAK3</i>	0,49	2,33E-06	3,31E-04
670673	<i>BCL2L1</i>	0,49	2,37E-06	3,36E-04
2690239	<i>VNN2</i>	0,49	2,43E-06	3,41E-04
360110	<i>KLF6</i>	0,49	2,58E-06	3,60E-04
4250538	<i>STAT3</i>	0,49	2,68E-06	3,73E-04
7160348	<i>MAPK6</i>	0,49	2,76E-06	3,82E-04
7510132	<i>OLR1</i>	0,49	2,77E-06	3,82E-04
5860138	<i>RIPK4</i>	0,49	2,81E-06	3,84E-04
1990300	<i>SOCS1</i>	0,49	2,82E-06	3,84E-04
5900735	<i>ANXA11</i>	0,49	3,03E-06	4,09E-04
270601	<i>HIAT1</i>	0,49	3,08E-06	4,13E-04
5820601	<i>CCND1</i>	0,49	3,16E-06	4,23E-04
3450092	<i>PELI1</i>	0,49	3,25E-06	4,33E-04
7510537	<i>SCO2</i>	0,49	3,35E-06	4,45E-04
460484	<i>CCRN4L</i>	0,49	3,38E-06	4,48E-04
3390438	<i>PLA2G7</i>	0,49	3,43E-06	4,52E-04
2000424	<i>HS.569566</i>	0,49	3,44E-06	4,52E-04

1110338	<i>MYL6</i>	0,49	3,46E-06	4,53E-04
1690465	<i>LOC650369</i>	0,49	3,55E-06	4,62E-04
1230639	<i>TRAPPC4</i>	0,49	3,61E-06	4,67E-04
2490066	<i>CD2BP2</i>	0,49	3,68E-06	4,72E-04
2490754	<i>MAP1LC3B</i>	0,49	3,69E-06	4,72E-04
1690184	<i>RNF19A</i>	0,48	3,92E-06	4,98E-04
5870307	<i>LOC440359</i>	0,48	4,02E-06	5,08E-04
4260414	<i>H2AFY</i>	0,48	4,07E-06	5,13E-04
3450201	<i>C6ORF32</i>	0,48	4,29E-06	5,35E-04
1990278	<i>FCGR2A</i>	0,48	4,29E-06	5,35E-04
2470601	<i>IL1RN</i>	0,48	4,30E-06	5,35E-04
2320220	<i>FCAMR</i>	0,48	4,31E-06	5,35E-04
5090750	<i>FOXC1</i>	0,48	4,46E-06	5,49E-04
7560037	<i>KIAA1949</i>	0,48	4,47E-06	5,49E-04
4880408	<i>SEMA4D</i>	0,48	4,53E-06	5,54E-04
3290398	<i>SLC25A3</i>	0,48	4,56E-06	5,56E-04
3450072	<i>CLIC1</i>	0,48	4,73E-06	5,75E-04
6580189	<i>LOC387820</i>	0,48	4,78E-06	5,80E-04
7100431	<i>P2RY8</i>	0,48	4,80E-06	5,81E-04
6620026	<i>CD83</i>	0,48	4,86E-06	5,86E-04
4490709	<i>FILIP1L</i>	0,48	4,93E-06	5,93E-04
3990458	<i>S100A4</i>	0,48	5,04E-06	6,05E-04
150762	<i>OSCAR</i>	0,48	5,08E-06	6,06E-04
2710064	<i>LOC387763</i>	0,48	5,08E-06	6,06E-04
6520215	<i>ANXA1</i>	0,48	5,16E-06	6,10E-04
3710504	<i>LYZ</i>	0,48	5,17E-06	6,10E-04
5910431	<i>COL4A1</i>	0,48	5,18E-06	6,10E-04
1070367	<i>C19ORF59</i>	0,48	5,23E-06	6,15E-04
7200156	<i>ITGB2</i>	0,48	5,41E-06	6,34E-04
3940435	<i>EMP1</i>	0,48	5,46E-06	6,38E-04
4900575	<i>PTRH2</i>	0,48	5,51E-06	6,41E-04
3890373	<i>ITGB2</i>	0,48	5,58E-06	6,48E-04

1030008	<i>TGFB3</i>	0,48	5,82E-06	6,71E-04
5890706	<i>SHB</i>	0,48	6,09E-06	6,93E-04
6270437	<i>FJX1</i>	0,48	6,16E-06	7,00E-04
2850576	<i>SEMA4A</i>	0,48	6,28E-06	7,11E-04
5490719	<i>FCAMR</i>	0,48	6,41E-06	7,23E-04
5860075	<i>CAMP</i>	0,48	6,42E-06	7,23E-04
7570053	<i>RND1</i>	0,48	6,49E-06	7,29E-04
610750	<i>MCL1</i>	0,47	6,60E-06	7,40E-04
670086	<i>MXD1</i>	0,47	6,66E-06	7,43E-04
1010328	<i>NEDD9</i>	0,47	6,67E-06	7,43E-04
1010333	<i>MSX1</i>	0,47	6,72E-06	7,46E-04
6100482	<i>ATP2B4</i>	0,47	6,81E-06	7,54E-04
6560301	<i>SH2B3</i>	0,47	6,87E-06	7,59E-04
3120431	<i>IMPDH1</i>	0,47	6,93E-06	7,63E-04
4200196	<i>TNFAIP8</i>	0,47	6,93E-06	7,63E-04
5090619	<i>STAT3</i>	0,47	7,12E-06	7,80E-04
4390450	<i>SGK</i>	0,47	7,24E-06	7,91E-04
630315	<i>DHRS9</i>	0,47	7,31E-06	7,96E-04
4480504	<i>ZNF828</i>	0,47	7,34E-06	7,97E-04
4760521	<i>HPS5</i>	0,47	7,35E-06	7,97E-04
5960343	<i>PRIC285</i>	0,47	7,41E-06	7,99E-04
4830014	<i>HS.250648</i>	0,47	7,46E-06	8,03E-04
6060468	<i>S100A8</i>	0,47	7,57E-06	8,13E-04
2900068	<i>VCL</i>	0,47	7,64E-06	8,18E-04
3460070	<i>SPP1</i>	0,47	7,78E-06	8,32E-04
6020630	<i>MMP25</i>	0,47	8,03E-06	8,56E-04
5360537	<i>ARHGAP30</i>	0,47	8,25E-06	8,77E-04
3800168	<i>SLC2A3</i>	0,47	8,41E-06	8,92E-04
3400392	<i>FPR2</i>	0,47	8,57E-06	9,04E-04
4150278	<i>DUSP14</i>	0,47	8,91E-06	9,37E-04
4180079	<i>CRISPLD2</i>	0,47	8,92E-06	9,37E-04
3710148	<i>DPM2</i>	0,47	8,96E-06	9,40E-04

5870301	<i>KIAA0513</i>	0,47	9,13E-06	9,55E-04
6590253	<i>ALDOA</i>	0,47	9,40E-06	9,73E-04
4260189	<i>TGIF1</i>	0,47	9,46E-06	9,77E-04
6560072	<i>HS.184721</i>	0,47	9,57E-06	9,86E-04
5560246	<i>TPM1</i>	0,47	9,58E-06	9,86E-04
1690630	<i>FAM43A</i>	0,47	9,84E-06	1,00E-03
3940133	<i>FAM46A</i>	0,47	9,86E-06	1,00E-03
110719	<i>SLC16A3</i>	0,47	9,88E-06	1,00E-03
6110242	<i>CALCA</i>	0,47	1,02E-05	1,03E-03
3800730	<i>GNA13</i>	0,47	1,03E-05	1,03E-03
6840035	<i>GBP1</i>	0,46	1,10E-05	1,10E-03
3460477	<i>H3F3A</i>	0,46	1,11E-05	1,11E-03
6510524	<i>PSCD4</i>	0,46	1,11E-05	1,11E-03
1400376	<i>WWC3</i>	0,46	1,12E-05	1,11E-03
510255	<i>C7ORF43</i>	0,46	1,13E-05	1,12E-03
7510386	<i>IL1RN</i>	0,46	1,13E-05	1,12E-03
1230048	<i>ABCB1</i>	0,46	1,19E-05	1,16E-03
1940100	<i>TMEM184B</i>	0,46	1,20E-05	1,17E-03
3610228	<i>PEA15</i>	0,46	1,21E-05	1,17E-03
1230224	<i>DNAJB6</i>	0,46	1,23E-05	1,18E-03
2630195	<i>VAMP5</i>	0,46	1,24E-05	1,19E-03
6660315	<i>INPP1</i>	0,46	1,27E-05	1,22E-03
4760537	<i>C20ORF24</i>	0,46	1,30E-05	1,24E-03
1660086	<i>FAM100A</i>	0,46	1,35E-05	1,28E-03
6270553	<i>CXCL10</i>	0,46	1,35E-05	1,28E-03
4860114	<i>CXCR7</i>	0,46	1,36E-05	1,29E-03
7330392	<i>TAP1</i>	0,46	1,38E-05	1,30E-03
1820398	<i>HNRNPA0B</i>	0,46	1,48E-05	1,38E-03
620239	<i>RCAN1</i>	0,46	1,49E-05	1,38E-03
1230156	<i>SERPINB9</i>	0,46	1,55E-05	1,42E-03
4120053	<i>PFKFB3</i>	0,46	1,56E-05	1,42E-03
1430647	<i>TAX1BP3</i>	0,46	1,56E-05	1,42E-03

2970575	<i>CCL4L2</i>	0,46	1,58E-05	1,43E-03
1230767	<i>IFITM2</i>	0,46	1,62E-05	1,46E-03
450615	<i>MT2A</i>	0,46	1,62E-05	1,46E-03
6020424	<i>LMNA</i>	0,46	1,63E-05	1,47E-03
4390703	<i>PTPN1</i>	0,46	1,69E-05	1,51E-03
1570746	<i>LOC651816</i>	0,46	1,71E-05	1,52E-03
780762	<i>CSNK1D</i>	0,46	1,73E-05	1,53E-03
60470	<i>STX11</i>	0,46	1,75E-05	1,54E-03
5570139	<i>QPCT</i>	0,45	1,79E-05	1,57E-03
6650465	<i>SLC15A4</i>	0,45	1,82E-05	1,59E-03
6580717	<i>ZMYND15</i>	0,45	1,82E-05	1,59E-03
130403	<i>RNF19B</i>	0,45	1,90E-05	1,65E-03
6060315	<i>FERMT3</i>	0,45	1,91E-05	1,66E-03
2640725	<i>ARSJ</i>	0,45	1,92E-05	1,66E-03
2640192	<i>BNIP3L</i>	0,45	1,93E-05	1,67E-03
7100164	<i>HIGD1A</i>	0,45	1,94E-05	1,67E-03
7050609	<i>XPNPEP1</i>	0,45	1,94E-05	1,67E-03
3930059	<i>E2F3</i>	0,45	2,00E-05	1,71E-03
2000300	<i>IFI30</i>	0,45	2,00E-05	1,71E-03
1400059	<i>ZBTB34</i>	0,45	2,04E-05	1,73E-03
6960372	<i>SH3GLB1</i>	0,45	2,04E-05	1,73E-03
3370075	<i>EDG6</i>	0,45	2,07E-05	1,75E-03
5050427	<i>FKBP1A</i>	0,45	2,07E-05	1,75E-03
4200450	<i>G6PD</i>	0,45	2,17E-05	1,81E-03
3780092	<i>TNFRSF21</i>	0,45	2,33E-05	1,91E-03
360619	<i>FGR</i>	0,45	2,35E-05	1,92E-03
1410201	<i>CD59</i>	0,45	2,36E-05	1,93E-03
1070754	<i>CAP1</i>	0,45	2,39E-05	1,95E-03
650241	<i>IER5</i>	0,45	2,41E-05	1,96E-03
4590064	<i>CDK2</i>	0,45	2,43E-05	1,97E-03
6250397	<i>DPH3</i>	0,45	2,47E-05	1,99E-03
6620121	<i>CCL8</i>	0,45	2,51E-05	2,02E-03

3890255	<i>TOP2B</i>	0,45	2,54E-05	2,04E-03
5690437	<i>ILF2</i>	0,45	2,56E-05	2,06E-03
540288	<i>TMEM88</i>	0,45	2,59E-05	2,07E-03
4230475	<i>SOX9</i>	0,45	2,60E-05	2,07E-03
1440408	<i>GEM</i>	0,45	2,64E-05	2,10E-03
1090575	<i>WWC1</i>	0,45	2,64E-05	2,10E-03
6510072	<i>ACTG1</i>	0,45	2,66E-05	2,12E-03
5670424	<i>GNA15</i>	0,45	2,69E-05	2,14E-03
4280482	<i>DRAM</i>	0,45	2,70E-05	2,14E-03
4560736	<i>SLCO4A1</i>	0,45	2,78E-05	2,19E-03
4230102	<i>SOCS3</i>	0,45	2,79E-05	2,19E-03
1660196	<i>HK1</i>	0,44	2,81E-05	2,20E-03
4670750	<i>TNFRSF1A</i>	0,44	2,83E-05	2,21E-03
3850722	<i>TMEM185B</i>	0,44	2,84E-05	2,21E-03
3370164	<i>ATP1A1</i>	0,44	2,85E-05	2,22E-03
6520180	<i>IL18RAP</i>	0,44	2,88E-05	2,23E-03
7560593	<i>OSM</i>	0,44	2,89E-05	2,23E-03
1990753	<i>SLA</i>	0,44	2,91E-05	2,25E-03
5810504	<i>METRNL</i>	0,44	2,95E-05	2,27E-03
1340669	<i>HS.92308</i>	0,44	2,97E-05	2,28E-03
670082	<i>GNA12</i>	0,44	3,02E-05	2,32E-03
4540228	<i>CD300LF</i>	0,44	3,06E-05	2,34E-03
1440348	<i>SLCO3A1</i>	0,44	3,07E-05	2,35E-03
5910546	<i>MGC4677</i>	0,44	3,22E-05	2,44E-03
2680110	<i>TM4SF1</i>	0,44	3,25E-05	2,45E-03
1010435	<i>C10RF55</i>	0,44	3,27E-05	2,46E-03
360475	<i>PLAUR</i>	0,44	3,29E-05	2,47E-03
1430673	<i>SDCBP2</i>	0,44	3,38E-05	2,52E-03
1500762	<i>C3ORF37</i>	0,44	3,42E-05	2,54E-03
7330026	<i>FRAT2</i>	0,44	3,48E-05	2,57E-03
6330725	<i>BCL3</i>	0,44	3,49E-05	2,57E-03
3940148	<i>CHMP1B</i>	0,44	3,60E-05	2,64E-03

160092	<i>HSPA6</i>	0,44	3,62E-05	2,65E-03
1820632	<i>PTGS2</i>	0,44	3,68E-05	2,68E-03
1510719	<i>PLDN</i>	0,44	3,68E-05	2,68E-03
5490546	<i>SLC30A1</i>	0,44	3,68E-05	2,68E-03
1450349	<i>LOC653158</i>	0,44	3,78E-05	2,73E-03
7100288	<i>CCT2</i>	0,44	3,80E-05	2,73E-03
940274	<i>GK</i>	0,44	3,80E-05	2,73E-03
2690324	<i>KIAA1754</i>	0,44	3,81E-05	2,73E-03
510672	<i>LOC731878</i>	0,44	3,82E-05	2,74E-03
1980687	<i>PITPNB</i>	0,44	3,82E-05	2,74E-03
70451	<i>WAS</i>	0,44	3,83E-05	2,74E-03
1940524	<i>STS-1</i>	0,44	3,84E-05	2,74E-03
7160327	<i>ARPC2</i>	0,44	3,86E-05	2,74E-03
7650097	<i>OASL</i>	0,44	3,88E-05	2,75E-03
270136	<i>RFX2</i>	0,44	3,91E-05	2,77E-03
360500	<i>SRGN</i>	0,44	3,92E-05	2,77E-03
4610608	<i>LOC731049</i>	0,44	3,98E-05	2,81E-03
4220431	<i>EXT1</i>	0,44	4,01E-05	2,82E-03
5900246	<i>HS.551128</i>	0,44	4,18E-05	2,91E-03
2450504	<i>LONRF3</i>	0,44	4,28E-05	2,97E-03
6760543	<i>UBAP1</i>	0,44	4,29E-05	2,98E-03
7160239	<i>FOSB</i>	0,44	4,30E-05	2,98E-03
2810730	<i>PPHLN1</i>	0,44	4,34E-05	3,00E-03
1940504	<i>FKBP1A</i>	0,44	4,34E-05	3,00E-03
7610131	<i>EPAS1</i>	0,44	4,36E-05	3,00E-03
1170246	<i>GEM</i>	0,44	4,40E-05	3,01E-03
5810047	<i>F2RL1</i>	0,44	4,41E-05	3,01E-03
2940577	<i>HSPA2</i>	0,44	4,41E-05	3,01E-03
60647	<i>GPX1</i>	0,43	4,43E-05	3,01E-03
780554	<i>MBNL2</i>	0,43	4,62E-05	3,12E-03
5220093	<i>HAVCR2</i>	0,43	4,66E-05	3,14E-03
5910600	<i>FAM57A</i>	0,43	4,91E-05	3,28E-03

1110736	<i>CSNK1D</i>	0,43	4,92E-05	3,28E-03
1820097	<i>ZNF410</i>	0,43	4,98E-05	3,32E-03
3190112	<i>SERPINB1</i>	0,43	5,00E-05	3,32E-03
450554	<i>CCNL1</i>	0,43	5,03E-05	3,33E-03
4150369	<i>GK</i>	0,43	5,11E-05	3,38E-03
1510608	<i>HS.371609</i>	0,43	5,16E-05	3,41E-03
2140682	<i>MT1E</i>	0,43	5,63E-05	3,65E-03
2900747	<i>C10ORF10</i>	0,43	5,67E-05	3,67E-03
4210039	<i>ABCB1</i>	0,43	5,72E-05	3,69E-03
4920372	<i>KBTBD2</i>	0,43	5,72E-05	3,69E-03
5820338	<i>SNRK</i>	0,43	5,74E-05	3,70E-03
1410020	<i>TMCO3</i>	0,43	5,78E-05	3,71E-03
2510520	<i>ABL2</i>	0,43	6,01E-05	3,83E-03
6370594	<i>PPAPDC2</i>	0,43	6,10E-05	3,88E-03
4590110	<i>40057</i>	0,43	6,13E-05	3,89E-03
4670500	<i>HIVEP1</i>	0,43	6,15E-05	3,90E-03
4200441	<i>SEC14L1</i>	0,43	6,25E-05	3,95E-03
3370768	<i>C10RF24</i>	0,43	6,27E-05	3,96E-03
940220	<i>NOD2</i>	0,43	6,29E-05	3,97E-03
1580524	<i>ACSL3</i>	0,43	6,37E-05	4,00E-03
3130612	<i>TRIP6</i>	0,43	6,41E-05	4,00E-03
110307	<i>FILIP1L</i>	0,43	6,49E-05	4,04E-03
3370037	<i>HS.561747</i>	0,43	6,50E-05	4,04E-03
6330008	<i>PDLIM3</i>	0,43	6,52E-05	4,05E-03
6060731	<i>MAPRE1</i>	0,43	6,53E-05	4,05E-03
60630	<i>GLA</i>	0,43	6,80E-05	4,19E-03
5090626	<i>FAP</i>	0,43	6,85E-05	4,22E-03
730121	<i>FBXO7</i>	0,42	6,94E-05	4,26E-03
4730711	<i>HS.193406</i>	0,42	6,94E-05	4,26E-03
1820347	<i>ASB1</i>	0,42	6,96E-05	4,27E-03
5310286	<i>SPA17</i>	0,42	7,09E-05	4,32E-03
4180369	<i>ATP2B4</i>	0,42	7,19E-05	4,37E-03

7050736	<i>FERMT3</i>	0,42	7,24E-05	4,39E-03
3840131	<i>NUP153</i>	0,42	7,27E-05	4,40E-03
2060477	<i>AGPAT9</i>	0,42	7,33E-05	4,43E-03
1570382	<i>ADAMTS9</i>	0,42	7,41E-05	4,47E-03
3840593	<i>SP110</i>	0,42	7,49E-05	4,50E-03
2370358	<i>TYROBP</i>	0,42	7,49E-05	4,50E-03
5720246	<i>AQP7P2</i>	0,42	7,51E-05	4,50E-03
150162	<i>FNDC4</i>	0,42	7,57E-05	4,52E-03
4390100	<i>LAMC2</i>	0,42	7,57E-05	4,52E-03
5570678	<i>RPS27L</i>	0,42	7,58E-05	4,52E-03
2480092	<i>CCL22</i>	0,42	7,59E-05	4,52E-03
7570753	<i>PCDHB2</i>	0,42	7,61E-05	4,52E-03
4540367	<i>LOC644647</i>	0,42	7,62E-05	4,52E-03
20241	<i>SLC7A1</i>	0,42	7,63E-05	4,52E-03
1410010	<i>PDLIM1</i>	0,42	7,66E-05	4,53E-03
1740242	<i>FVT1</i>	0,42	7,78E-05	4,59E-03
1190142	<i>EMILIN2</i>	0,42	7,83E-05	4,60E-03
7160142	<i>FREQ</i>	0,42	7,88E-05	4,63E-03
1660300	<i>PRCP</i>	0,42	7,94E-05	4,65E-03
6580634	<i>GPR4</i>	0,42	8,05E-05	4,70E-03
7000465	<i>RGL4</i>	0,42	8,17E-05	4,76E-03
4900719	<i>HS.562122</i>	0,42	8,21E-05	4,77E-03
6480692	<i>NCF4</i>	0,42	8,28E-05	4,80E-03
1470215	<i>MAP3K8</i>	0,42	8,36E-05	4,83E-03
1980059	<i>RASSF2</i>	0,42	8,48E-05	4,89E-03
5360193	<i>SIRPA</i>	0,42	8,67E-05	4,99E-03
510468	<i>NFE2</i>	0,42	8,68E-05	4,99E-03
3170139	<i>PHACTR1</i>	0,42	8,78E-05	5,03E-03
2360445	<i>NHP2L1</i>	0,42	8,78E-05	5,03E-03
5960653	<i>TMEM55A</i>	0,42	8,79E-05	5,03E-03
3370474	<i>SERTAD3</i>	0,42	8,88E-05	5,07E-03
2710746	<i>BCAR1</i>	0,42	8,92E-05	5,09E-03

2490719	<i>STK17B</i>	0,42	9,02E-05	5,12E-03
1820594	<i>HBEGF</i>	0,42	9,03E-05	5,12E-03
1430170	<i>FGL2</i>	0,42	9,13E-05	5,16E-03
3840215	<i>FAM102A</i>	0,42	9,18E-05	5,17E-03
4230619	<i>GCA</i>	0,42	9,31E-05	5,24E-03
830019	<i>PPARG</i>	0,42	9,42E-05	5,29E-03
2030553	<i>H3F3A</i>	0,42	9,48E-05	5,32E-03
7160224	<i>APH1B</i>	0,42	9,56E-05	5,34E-03
830113	<i>TNFRSF10D</i>	0,42	9,62E-05	5,36E-03
5290544	<i>NAT8</i>	0,42	9,75E-05	5,40E-03
4890133	<i>NUFIP2</i>	0,42	9,86E-05	5,43E-03
870091	<i>FLJ42393</i>	0,42	9,86E-05	5,43E-03
630010	<i>FKBP1A</i>	0,42	9,92E-05	5,45E-03
5810022	<i>MLKL</i>	0,42	1,00E-04	5,50E-03
7380136	<i>BNIP2</i>	0,42	1,01E-04	5,54E-03
3370139	<i>MYO1G</i>	0,42	1,02E-04	5,56E-03
4390131	<i>PRAMEF10</i>	0,42	1,04E-04	5,62E-03
5270167	<i>GNL3</i>	0,42	1,04E-04	5,62E-03
4640632	<i>HS.130623</i>	0,42	1,05E-04	5,68E-03
150373	<i>FABP4</i>	0,42	1,05E-04	5,68E-03
3400019	<i>RGS2</i>	0,42	1,06E-04	5,69E-03
380327	<i>LOC730820</i>	0,41	1,06E-04	5,70E-03
6650079	<i>C3ORF14</i>	0,41	1,07E-04	5,72E-03
4280100	<i>FAT</i>	0,41	1,08E-04	5,77E-03
4060600	<i>SELE</i>	0,41	1,08E-04	5,77E-03
4150356	<i>ARHGEF5</i>	0,41	1,10E-04	5,81E-03
4480497	<i>SIGLEC10</i>	0,41	1,12E-04	5,93E-03
5890386	<i>LOC642103</i>	0,41	1,13E-04	5,94E-03
630167	<i>SDCBP</i>	0,41	1,13E-04	5,94E-03
3360681	<i>TNFAIP3</i>	0,41	1,16E-04	6,04E-03
110328	<i>C14ORF32</i>	0,41	1,16E-04	6,04E-03
6250241	<i>APOB48R</i>	0,41	1,17E-04	6,10E-03

1940707	<i>RABGEF1</i>	0,41	1,18E-04	6,13E-03
3060292	<i>LAMP2</i>	0,41	1,18E-04	6,13E-03
4920110	<i>GADD45B</i>	0,41	1,19E-04	6,16E-03
6860193	<i>RTN1</i>	0,41	1,22E-04	6,27E-03
4670020	<i>NIPA2</i>	0,41	1,23E-04	6,31E-03
2320735	<i>PIAS2</i>	0,41	1,24E-04	6,34E-03
4280458	<i>MLXIP</i>	0,41	1,25E-04	6,35E-03
510703	<i>KBTBD9</i>	0,41	1,25E-04	6,35E-03
5910609	<i>IL4R</i>	0,41	1,25E-04	6,35E-03
5360376	<i>LAPTM5</i>	0,41	1,25E-04	6,36E-03
6960544	<i>TMEM185B</i>	0,41	1,25E-04	6,37E-03
150148	<i>MAP1S</i>	0,41	1,28E-04	6,47E-03
6620292	<i>C10ORF54</i>	0,41	1,30E-04	6,57E-03
5360670	<i>PLAU</i>	0,41	1,31E-04	6,57E-03
3140008	<i>PPM1G</i>	0,41	1,32E-04	6,65E-03
60397	<i>TRK1</i>	0,41	1,33E-04	6,67E-03
5360736	<i>HABP4</i>	0,41	1,33E-04	6,67E-03
3130079	<i>EIF2B2</i>	0,41	1,33E-04	6,68E-03
3870594	<i>IFI16</i>	0,41	1,34E-04	6,71E-03
3890523	<i>IL7R</i>	0,41	1,35E-04	6,75E-03
6270022	<i>HCK</i>	0,41	1,37E-04	6,85E-03
3400692	<i>TPM3</i>	0,41	1,38E-04	6,90E-03
5490768	<i>GPR56</i>	0,41	1,41E-04	6,97E-03
160170	<i>PKM2</i>	0,41	1,41E-04	6,97E-03
2970563	<i>RPRC1</i>	0,41	1,42E-04	7,02E-03
770079	<i>ATP2A2</i>	0,41	1,42E-04	7,02E-03
6770309	<i>MYL6</i>	0,41	1,43E-04	7,05E-03
1010735	<i>DDX24</i>	0,41	1,44E-04	7,10E-03
4730564	<i>TRIM37</i>	0,41	1,44E-04	7,11E-03
2140408	<i>CS</i>	0,41	1,45E-04	7,11E-03
5420754	<i>IL1RL1</i>	0,41	1,48E-04	7,24E-03
6020445	<i>TMEM32</i>	0,41	1,49E-04	7,26E-03

7000079	<i>C13ORF18</i>	0,41	1,50E-04	7,32E-03
7560180	<i>SUSD1</i>	0,41	1,52E-04	7,38E-03
2360452	<i>PFKP</i>	0,41	1,53E-04	7,43E-03
1340491	<i>SP110</i>	0,41	1,57E-04	7,61E-03
3930593	<i>ACSL3</i>	0,41	1,58E-04	7,66E-03
7100239	<i>OAZ1</i>	0,41	1,60E-04	7,71E-03
6840446	<i>HS.48787</i>	0,41	1,60E-04	7,73E-03
5260630	<i>SOCS3</i>	0,40	1,61E-04	7,75E-03
3140743	<i>TACC2</i>	0,40	1,62E-04	7,81E-03
670639	<i>LONP2</i>	0,40	1,63E-04	7,82E-03
1850546	<i>FAM102A</i>	0,40	1,63E-04	7,84E-03
4290682	<i>LOC645582</i>	0,40	1,63E-04	7,84E-03
630475	<i>DHODH</i>	0,40	1,64E-04	7,86E-03
6380672	<i>CA4</i>	0,40	1,66E-04	7,93E-03
620521	<i>HS.516784</i>	0,40	1,67E-04	7,94E-03
6220369	<i>GRIA3</i>	0,40	1,68E-04	8,00E-03
2640301	<i>TNF</i>	0,40	1,69E-04	8,02E-03
580041	<i>HS.59666</i>	0,40	1,69E-04	8,03E-03
1570538	<i>GTF2E2</i>	0,40	1,69E-04	8,03E-03
4180497	<i>LOC651808</i>	0,40	1,71E-04	8,10E-03
6620689	<i>MTHFD2</i>	0,40	1,71E-04	8,10E-03
6220382	<i>CD68</i>	0,40	1,71E-04	8,10E-03
150020	<i>C19ORF22</i>	0,40	1,76E-04	8,30E-03
2640088	<i>ALDOA</i>	0,40	1,76E-04	8,30E-03
2640292	<i>CTGF</i>	0,40	1,77E-04	8,32E-03
4280577	<i>BMP2</i>	0,40	1,77E-04	8,32E-03
1240114	<i>PRAMEF10</i>	0,40	1,77E-04	8,32E-03
730554	<i>ICAM4</i>	0,40	1,79E-04	8,34E-03
2100452	<i>NUP35</i>	0,40	1,80E-04	8,39E-03
5860152	<i>CD44</i>	0,40	1,80E-04	8,39E-03
7320041	<i>GALNAC4S-6ST</i>	0,40	1,81E-04	8,41E-03
3940446	<i>TXN</i>	0,40	1,82E-04	8,44E-03

7320288	<i>CXCR4</i>	0,40	1,82E-04	8,44E-03
3440669	<i>IL8RA</i>	0,40	1,83E-04	8,45E-03
1570193	<i>ARHGDIIB</i>	0,40	1,84E-04	8,49E-03
580703	<i>LOC728153</i>	0,40	1,90E-04	8,72E-03
6580168	<i>ARRDC4</i>	0,40	1,91E-04	8,74E-03
780725	<i>ADAM8</i>	0,40	1,92E-04	8,77E-03
6220746	<i>GLIPR1</i>	0,40	1,92E-04	8,77E-03
1740240	<i>PPP2CA</i>	0,40	1,93E-04	8,81E-03
10224	<i>METRNL</i>	0,40	1,94E-04	8,82E-03
5910594	<i>PTP4A3</i>	0,40	1,94E-04	8,84E-03
5890451	<i>CTNNA1</i>	0,40	1,97E-04	8,94E-03
4610390	<i>ACTB</i>	0,40	1,99E-04	8,99E-03
1470626	<i>CD97</i>	0,40	2,00E-04	9,03E-03
5570132	<i>ACTB</i>	0,40	2,02E-04	9,08E-03
940356	<i>IL15RA</i>	0,40	2,02E-04	9,08E-03
3990450	<i>IL1F7</i>	0,40	2,08E-04	9,29E-03
940753	<i>RALB</i>	0,40	2,08E-04	9,29E-03
5810189	<i>ATP2A2</i>	0,40	2,09E-04	9,30E-03
6480092	<i>FAM65A</i>	0,40	2,10E-04	9,30E-03
620300	<i>LASP1</i>	0,40	2,10E-04	9,30E-03
3390612	<i>TLR8</i>	0,40	2,10E-04	9,30E-03
7000403	<i>C20ORF45</i>	0,40	2,13E-04	9,43E-03
6660079	<i>CNTNAP5</i>	0,40	2,14E-04	9,45E-03
830176	<i>C20RF18</i>	0,40	2,15E-04	9,49E-03
1340600	<i>PPP1R15A</i>	0,40	2,17E-04	9,53E-03
6350161	<i>LCP1</i>	0,40	2,18E-04	9,55E-03
6900601	<i>HS.157344</i>	0,40	2,19E-04	9,61E-03
6290639	<i>FLJ36701</i>	0,40	2,20E-04	9,62E-03
4640156	<i>HS.564256</i>	0,40	2,21E-04	9,68E-03
7510731	<i>WBP5</i>	0,40	2,23E-04	9,72E-03
3460687	<i>RRP12</i>	0,40	2,23E-04	9,72E-03
4280253	<i>PAK1IP1</i>	0,40	2,23E-04	9,73E-03

2850438	<i>RBM12</i>	0,40	2,25E-04	9,78E-03
5050162	<i>CD83</i>	0,40	2,27E-04	9,85E-03
1470673	<i>RFX2</i>	0,40	2,28E-04	9,88E-03
6280167	<i>LOC401115</i>	0,40	2,30E-04	9,97E-03
6060113	<i>TBX15</i>	0,40	2,32E-04	1,00E-02
1940343	<i>PANX1</i>	0,40	2,32E-04	1,00E-02
4760767	<i>UBE2D3</i>	0,40	2,34E-04	1,01E-02
1780367	<i>C12ORF44</i>	0,40	2,36E-04	1,01E-02
940706	<i>AP1S2</i>	0,40	2,39E-04	1,02E-02
1430136	<i>ARF4</i>	0,40	2,40E-04	1,03E-02
2640519	<i>NBPF1</i>	0,39	2,42E-04	1,03E-02
6760255	<i>MNT</i>	0,39	2,43E-04	1,04E-02
7160360	<i>SKAP2</i>	0,39	2,44E-04	1,04E-02
4010546	<i>PDCD2</i>	0,39	2,50E-04	1,06E-02
730739	<i>TCEAL3</i>	0,39	2,52E-04	1,07E-02
6220195	<i>BATF</i>	0,39	2,53E-04	1,07E-02
4150201	<i>BCL2</i>	0,39	2,55E-04	1,08E-02
6250019	<i>SHC1</i>	0,39	2,55E-04	1,08E-02
3830349	<i>IL7R</i>	0,39	2,56E-04	1,08E-02
6650379	<i>SERTAD3</i>	0,39	2,56E-04	1,08E-02
6330356	<i>LASS5</i>	0,39	2,59E-04	1,09E-02
7050152	<i>EVI2B</i>	0,39	2,60E-04	1,09E-02
2260477	<i>PTGS2</i>	0,39	2,62E-04	1,10E-02
4900435	<i>TNFSF13B</i>	0,39	2,67E-04	1,12E-02
6110037	<i>LILRA3</i>	0,39	2,68E-04	1,12E-02
5690687	<i>CTGF</i>	0,39	2,68E-04	1,12E-02
1110373	<i>C15ORF48</i>	0,39	2,69E-04	1,12E-02
5960747	<i>TRIM22</i>	0,39	2,70E-04	1,13E-02
1770044	<i>SEC14L1</i>	0,39	2,71E-04	1,13E-02
7380193	<i>ARPC3</i>	0,39	2,72E-04	1,13E-02
7040477	<i>PLOD2</i>	0,39	2,78E-04	1,15E-02
7510707	<i>E2F6</i>	0,39	2,87E-04	1,18E-02

2570112	<i>ABLIM1</i>	0,39	2,87E-04	1,18E-02
4290612	<i>PIWIL1</i>	0,39	2,91E-04	1,19E-02
7570148	<i>LMNB2</i>	0,39	2,92E-04	1,19E-02
1010161	<i>ARL4A</i>	0,39	2,96E-04	1,20E-02
2470458	<i>MICAL1</i>	0,39	2,96E-04	1,20E-02
2320129	<i>CSDA</i>	0,39	3,01E-04	1,22E-02
5340187	<i>TUBA1A</i>	0,39	3,02E-04	1,22E-02
6400044	<i>EPDR1</i>	0,39	3,02E-04	1,22E-02
4070259	<i>GNA12</i>	0,39	3,04E-04	1,23E-02
1110017	<i>SON</i>	0,39	3,06E-04	1,24E-02
2690270	<i>SNIP1</i>	0,39	3,06E-04	1,24E-02
5900253	<i>BATF3</i>	0,39	3,07E-04	1,24E-02
1010360	<i>GCH1</i>	0,39	3,12E-04	1,26E-02
7150176	<i>MAT2A</i>	0,39	3,14E-04	1,26E-02
1190445	<i>TOMM34</i>	0,39	3,18E-04	1,27E-02
7210170	<i>DSE</i>	0,39	3,20E-04	1,28E-02
6020255	<i>EGR2</i>	0,39	3,21E-04	1,28E-02
630465	<i>SCHIP1</i>	0,39	3,22E-04	1,29E-02
3710068	<i>WARS</i>	0,39	3,27E-04	1,30E-02
110682	<i>S100A11</i>	0,39	3,32E-04	1,32E-02
870301	<i>HKDC1</i>	0,39	3,35E-04	1,33E-02
4880215	<i>GTF2B</i>	0,39	3,36E-04	1,33E-02
6420286	<i>NDEL1</i>	0,39	3,38E-04	1,33E-02
4570154	<i>HS.496897</i>	0,39	3,38E-04	1,34E-02
1440180	<i>C20ORF24</i>	0,39	3,41E-04	1,34E-02
6510528	<i>VPS37C</i>	0,39	3,41E-04	1,34E-02
4780523	<i>TMEM200A</i>	0,39	3,46E-04	1,35E-02
6620392	<i>LFNG</i>	0,39	3,48E-04	1,36E-02
4860152	<i>PLA2G2A</i>	0,39	3,48E-04	1,36E-02
5050768	<i>LONRF1</i>	0,39	3,48E-04	1,36E-02
1170072	<i>ZSWIM4</i>	0,39	3,49E-04	1,36E-02
2900594	<i>PGD</i>	0,39	3,49E-04	1,36E-02

4230195	<i>NAV2</i>	0,39	3,51E-04	1,37E-02
2000546	<i>C3ORF10</i>	0,39	3,53E-04	1,38E-02
7380382	<i>ZNF364</i>	0,38	3,58E-04	1,39E-02
7050619	<i>LRRKIP2</i>	0,38	3,62E-04	1,40E-02
3840154	<i>SPP1</i>	0,38	3,66E-04	1,41E-02
2570767	<i>CDC42SE2</i>	0,38	3,67E-04	1,41E-02
6860347	<i>FAM46C</i>	0,38	3,70E-04	1,42E-02
5360521	<i>SFT2D1</i>	0,38	3,73E-04	1,43E-02
770463	<i>PDLIM3</i>	0,38	3,75E-04	1,44E-02
2190148	<i>GBP1</i>	0,38	3,78E-04	1,45E-02
5310296	<i>SLC35D1</i>	0,38	3,84E-04	1,46E-02
3890017	<i>CTNNA1</i>	0,38	3,84E-04	1,46E-02
4480053	<i>GCLM</i>	0,38	3,85E-04	1,46E-02
7160059	<i>ATP6VOB</i>	0,38	3,87E-04	1,47E-02
1820450	<i>OSCAR</i>	0,38	3,92E-04	1,48E-02
1820326	<i>HS.561654</i>	0,38	3,93E-04	1,49E-02
3520239	<i>JMJD3</i>	0,38	3,95E-04	1,49E-02
6380441	<i>ENO1</i>	0,38	3,96E-04	1,49E-02
5490408	<i>CEBPD</i>	0,38	3,96E-04	1,49E-02
2570131	<i>HPS1</i>	0,38	4,03E-04	1,51E-02
610754	<i>HS.578150</i>	0,38	4,04E-04	1,52E-02
460082	<i>GOLT1A</i>	0,38	4,09E-04	1,53E-02
2680253	<i>ANKH</i>	0,38	4,10E-04	1,53E-02
990193	<i>SF3B4</i>	0,38	4,15E-04	1,54E-02
6650017	<i>ATP6V1B2</i>	0,38	4,15E-04	1,54E-02
3360553	<i>KIAA1434</i>	0,38	4,21E-04	1,56E-02
6180343	<i>HS.540313</i>	0,38	4,26E-04	1,58E-02
7210192	<i>ADA</i>	0,38	4,30E-04	1,58E-02
2120093	<i>HS.437472</i>	0,38	4,30E-04	1,58E-02
6840477	<i>HS.543887</i>	0,38	4,36E-04	1,60E-02
520358	<i>IKBKG</i>	0,38	4,36E-04	1,60E-02
6220368	<i>POGK</i>	0,38	4,38E-04	1,60E-02

1510133	<i>CD37</i>	0,38	4,42E-04	1,61E-02
5960296	<i>CLDN1</i>	0,38	4,43E-04	1,61E-02
6200619	<i>AADAC</i>	0,38	4,44E-04	1,62E-02
830441	<i>SCYL1BP1</i>	0,38	4,47E-04	1,62E-02
20673	<i>BSG</i>	0,38	4,55E-04	1,65E-02
840296	<i>LOC440926</i>	0,38	4,62E-04	1,67E-02
4200608	<i>SPATA2</i>	0,38	4,66E-04	1,69E-02
6860020	<i>PLEKHA3</i>	0,38	4,74E-04	1,71E-02
2850026	<i>H3F3A</i>	0,38	4,77E-04	1,72E-02
2690209	<i>ITGAV</i>	0,38	4,86E-04	1,74E-02
780270	<i>TIMP2</i>	0,38	4,89E-04	1,75E-02
3800452	<i>EMP3</i>	0,38	4,90E-04	1,75E-02
4920739	<i>TAX1BP1</i>	0,38	4,92E-04	1,75E-02
450424	<i>CXCR7</i>	0,38	4,93E-04	1,76E-02
5490014	<i>ZBED4</i>	0,38	4,94E-04	1,76E-02
2000025	<i>LOC648024</i>	0,38	5,01E-04	1,78E-02
6420739	<i>PGM3</i>	0,38	5,07E-04	1,79E-02
840554	<i>RYBP</i>	0,38	5,07E-04	1,79E-02
2940386	<i>NRARP</i>	0,38	5,15E-04	1,81E-02
6220494	<i>LINCR</i>	0,38	5,17E-04	1,82E-02
6420605	<i>UBD</i>	0,38	5,17E-04	1,82E-02
3420332	<i>SLC37A3</i>	0,37	5,18E-04	1,82E-02
2630202	<i>FLJ45248</i>	0,37	5,23E-04	1,83E-02
5910112	<i>IL32</i>	0,37	5,31E-04	1,85E-02
1010035	<i>NLRP3</i>	0,37	5,33E-04	1,85E-02
4180544	<i>ROPN1L</i>	0,37	5,33E-04	1,85E-02
2650019	<i>FAM53C</i>	0,37	5,37E-04	1,86E-02
3610561	<i>LOC653110</i>	0,37	5,38E-04	1,87E-02
3440367	<i>ACSL3</i>	0,37	5,41E-04	1,87E-02
1580435	<i>TGM2</i>	0,37	5,41E-04	1,87E-02
6770044	<i>TEX10</i>	0,37	5,45E-04	1,88E-02
110440	<i>ITGB1</i>	0,37	5,51E-04	1,90E-02

7210253	HS.544172	0,37	5,52E-04	1,90E-02
6270750	RASGRF2	0,37	5,53E-04	1,90E-02
4280491	LOC643962	0,37	5,53E-04	1,90E-02
6200468	CKS2	0,37	5,57E-04	1,91E-02
5090056	ARFGAP3	0,37	5,59E-04	1,91E-02
7000368	UBE2L6	0,37	5,64E-04	1,92E-02
1300674	FADD	0,37	5,64E-04	1,92E-02
4200259	ACLY	0,37	5,66E-04	1,93E-02
2810040	TIPRL	0,37	5,72E-04	1,95E-02
2680044	RAB27A	0,37	5,73E-04	1,95E-02
2650753	KIAA1324L	0,37	5,77E-04	1,96E-02
4780086	CRK	0,37	5,80E-04	1,96E-02
6200577	CREB5	0,37	5,80E-04	1,96E-02
2360326	TAGLN	0,37	5,93E-04	2,00E-02
130368	PRKAR1A	0,37	5,94E-04	2,00E-02
1710315	HYDIN	0,37	5,99E-04	2,02E-02
5340246	CRIP2	0,37	6,02E-04	2,02E-02
2350703	STX3	0,37	6,11E-04	2,05E-02
6130678	HS.120150	0,37	6,15E-04	2,05E-02
5080364	ACTN1	0,37	6,17E-04	2,06E-02
70167	LY96	0,37	6,20E-04	2,07E-02
7400653	PFKFB4	0,37	6,41E-04	2,12E-02
1110180	RORA	0,37	6,42E-04	2,12E-02
6290021	PSMD7	0,37	6,48E-04	2,14E-02
5290204	THPO	0,37	6,53E-04	2,15E-02
6940605	HS.489254	0,37	6,55E-04	2,15E-02
5910402	MGC102966	0,37	6,59E-04	2,16E-02
1110465	YPEL2	0,37	6,59E-04	2,16E-02
6420386	GPSM3	0,37	6,66E-04	2,18E-02
7560471	MOBKL2C	0,37	6,73E-04	2,20E-02
4120133	HYAL2	0,37	6,81E-04	2,22E-02
6110592	ABHD11	0,37	6,96E-04	2,26E-02

7210400	<i>STEAP1</i>	0,37	7,04E-04	2,28E-02
290358	<i>SGMS1</i>	0,37	7,05E-04	2,28E-02
1770400	<i>COMMD8</i>	0,37	7,10E-04	2,30E-02
510398	<i>ECOP</i>	0,37	7,13E-04	2,30E-02
6350037	<i>DNM1L</i>	0,37	7,17E-04	2,31E-02
5340020	<i>HS.22689</i>	0,37	7,21E-04	2,32E-02
4560576	<i>MYD88</i>	0,37	7,23E-04	2,32E-02
650709	<i>RNF34</i>	0,37	7,28E-04	2,34E-02
4560164	<i>PDLIM7</i>	0,37	7,28E-04	2,34E-02
4670255	<i>41701</i>	0,37	7,41E-04	2,37E-02
4390398	<i>LCN2</i>	0,37	7,42E-04	2,37E-02
3830093	<i>LMCD1</i>	0,37	7,44E-04	2,37E-02
3520041	<i>SON</i>	0,37	7,45E-04	2,37E-02
3840521	<i>STK40</i>	0,37	7,46E-04	2,38E-02
840246	<i>HS.563150</i>	0,36	7,59E-04	2,41E-02
5090563	<i>PRKCB1</i>	0,36	7,60E-04	2,41E-02
7200431	<i>GABPB2</i>	0,36	7,62E-04	2,41E-02
5910364	<i>TYMS</i>	0,36	7,70E-04	2,43E-02
3170273	<i>FER1L3</i>	0,36	7,75E-04	2,45E-02
6580372	<i>ZFYVE27</i>	0,36	7,77E-04	2,45E-02
4730025	<i>LOC341457</i>	0,36	7,79E-04	2,45E-02
360719	<i>CD44</i>	0,36	7,92E-04	2,48E-02
2570544	<i>CCNH</i>	0,36	7,96E-04	2,48E-02
110180	<i>ARHGAP9</i>	0,36	7,97E-04	2,48E-02
7380630	<i>HS.524902</i>	0,36	8,05E-04	2,50E-02
4040671	<i>COL1A2</i>	0,36	8,12E-04	2,52E-02
2600164	<i>THBS2</i>	0,36	8,12E-04	2,52E-02
4810324	<i>LOC649942</i>	0,36	8,20E-04	2,53E-02
2810315	<i>S100A6</i>	0,36	8,20E-04	2,53E-02
6480360	<i>TLR8</i>	0,36	8,28E-04	2,55E-02
3390092	<i>PLEKHM2</i>	0,36	8,31E-04	2,56E-02
540129	<i>KDELR3</i>	0,36	8,36E-04	2,57E-02

3440487	<i>DCUN1D5</i>	0,36	8,43E-04	2,59E-02
4560484	<i>DPP3</i>	0,36	8,47E-04	2,60E-02
2060605	<i>P2RX4</i>	0,36	8,47E-04	2,60E-02
1340360	<i>RCC2</i>	0,36	8,48E-04	2,60E-02
2760544	<i>PBX4</i>	0,36	8,49E-04	2,60E-02
5050674	<i>HS.159057</i>	0,36	8,55E-04	2,61E-02
7380709	<i>YWHAB</i>	0,36	8,58E-04	2,62E-02
4200220	<i>RNF4</i>	0,36	8,62E-04	2,63E-02
6960037	<i>EDC4</i>	0,36	8,63E-04	2,63E-02
1010487	<i>BTG2</i>	0,36	8,65E-04	2,63E-02
4290279	<i>ACLY</i>	0,36	8,69E-04	2,64E-02
830035	<i>ATG3</i>	0,36	8,77E-04	2,66E-02
3440224	<i>YRDC</i>	0,36	8,79E-04	2,66E-02
290239	<i>NAV2</i>	0,36	8,79E-04	2,66E-02
6220075	<i>GPR177</i>	0,36	8,92E-04	2,69E-02
430309	<i>C6ORF66</i>	0,36	8,99E-04	2,70E-02
6180050	<i>STK24</i>	0,36	9,01E-04	2,71E-02
5310554	<i>MPP1</i>	0,36	9,10E-04	2,73E-02
7320301	<i>CCR1</i>	0,36	9,11E-04	2,73E-02
70730	<i>GAS6</i>	0,36	9,25E-04	2,76E-02
3360685	<i>OSBPL9</i>	0,36	9,26E-04	2,77E-02
7560632	<i>ITK</i>	0,36	9,29E-04	2,77E-02
3170162	<i>PRNP</i>	0,36	9,38E-04	2,79E-02
3800706	<i>TM4SF19</i>	0,36	9,49E-04	2,82E-02
620102	<i>MALL</i>	0,36	9,53E-04	2,83E-02
830168	<i>CHFR</i>	0,36	9,60E-04	2,84E-02
2600424	<i>SAA1</i>	0,36	9,62E-04	2,85E-02
2680079	<i>OGFRL1</i>	0,36	9,64E-04	2,85E-02
50446	<i>INHBB</i>	0,36	9,70E-04	2,86E-02
2710709	<i>FCGR1B</i>	0,36	9,71E-04	2,86E-02
2230672	<i>LOC652463</i>	0,36	9,80E-04	2,89E-02
4120437	<i>RRS1</i>	0,36	9,81E-04	2,89E-02

7210685	<i>MKL1</i>	0,36	9,99E-04	2,93E-02
5720113	<i>C6ORF146</i>	0,36	1,00E-03	2,93E-02
2070368	<i>TUBB2C</i>	0,36	1,01E-03	2,96E-02
4780128	<i>ATF3</i>	0,36	1,02E-03	2,97E-02
4220044	<i>SLC15A3</i>	0,36	1,02E-03	2,99E-02
2140528	<i>GPR172A</i>	0,36	1,03E-03	2,99E-02
2120445	<i>BXDC2</i>	0,36	1,03E-03	3,00E-02
360181	<i>LAMA2</i>	0,36	1,03E-03	3,00E-02
3140520	<i>TMOD1</i>	0,36	1,03E-03	3,00E-02
6860687	<i>PYCARD</i>	0,36	1,03E-03	3,00E-02
6400452	<i>LOC643878</i>	0,36	1,04E-03	3,01E-02
6450273	<i>C10RF41</i>	0,36	1,04E-03	3,02E-02
840717	<i>CTSL1</i>	0,36	1,05E-03	3,03E-02
4290615	<i>ZBTB33</i>	0,36	1,05E-03	3,03E-02
4780072	<i>TCEAL3</i>	0,36	1,05E-03	3,04E-02
5260253	<i>TYR</i>	0,36	1,06E-03	3,06E-02
1820475	<i>HS.232142</i>	0,36	1,06E-03	3,06E-02
3290368	<i>IGFBP1</i>	0,35	1,07E-03	3,07E-02
7400470	<i>HS.409514</i>	0,35	1,07E-03	3,07E-02
5270097	<i>LOC653853</i>	0,35	1,07E-03	3,07E-02
3460132	<i>PAQR4</i>	0,35	1,07E-03	3,07E-02
2100400	<i>TNFAIP2</i>	0,35	1,08E-03	3,09E-02
2350112	<i>PRAMEF10</i>	0,35	1,09E-03	3,10E-02
2000500	<i>SF3B14</i>	0,35	1,10E-03	3,14E-02
7040301	<i>PLEKHB2</i>	0,35	1,11E-03	3,15E-02
1300369	<i>LOC255783</i>	0,35	1,11E-03	3,15E-02
3190382	<i>SNORD48</i>	0,35	1,11E-03	3,15E-02
2970195	<i>DDX3X</i>	0,35	1,12E-03	3,16E-02
6200014	<i>ZNF165</i>	0,35	1,12E-03	3,16E-02
4760747	<i>TPST1</i>	0,35	1,12E-03	3,16E-02
6290546	<i>PURB</i>	0,35	1,12E-03	3,17E-02
1050168	<i>PI3</i>	0,35	1,12E-03	3,18E-02

1740451	<i>IL1R2</i>	0,35	1,13E-03	3,19E-02
3990292	<i>KLF10</i>	0,35	1,13E-03	3,19E-02
1510538	<i>EPB41L3</i>	0,35	1,13E-03	3,19E-02
6900630	<i>ATP2B4</i>	0,35	1,13E-03	3,20E-02
10133	<i>SLC9A1</i>	0,35	1,14E-03	3,21E-02
50301	<i>EEF1E1</i>	0,35	1,14E-03	3,21E-02
1510458	<i>MYH9</i>	0,35	1,15E-03	3,25E-02
6330538	<i>MAD2L1BP</i>	0,35	1,16E-03	3,25E-02
1940180	<i>PSMB9</i>	0,35	1,16E-03	3,26E-02
2480577	<i>PDE4B</i>	0,35	1,17E-03	3,27E-02
5570187	<i>EDG3</i>	0,35	1,17E-03	3,27E-02
1820722	<i>APBB1IP</i>	0,35	1,18E-03	3,29E-02
1110372	<i>FAM130A1</i>	0,35	1,19E-03	3,31E-02
4610102	<i>TMEM123</i>	0,35	1,19E-03	3,31E-02
6620037	<i>ZNF460</i>	0,35	1,19E-03	3,31E-02
4610201	<i>SNORA10</i>	0,35	1,19E-03	3,31E-02
870382	<i>OR1L3</i>	0,35	1,19E-03	3,32E-02
6350626	<i>CCDC120</i>	0,35	1,20E-03	3,32E-02
3800161	<i>KRT7</i>	0,35	1,21E-03	3,33E-02
4280113	<i>NFKBIA</i>	0,35	1,22E-03	3,37E-02
380398	<i>LOC644096</i>	0,35	1,23E-03	3,39E-02
2320564	<i>WISP1</i>	0,35	1,23E-03	3,39E-02
4880327	<i>HS.547492</i>	0,35	1,23E-03	3,39E-02
670386	<i>ID1</i>	0,35	1,24E-03	3,40E-02
5390161	<i>DUSP5</i>	0,35	1,24E-03	3,41E-02
2600682	<i>SYTL3</i>	0,35	1,25E-03	3,41E-02
4230132	<i>ILK</i>	0,35	1,25E-03	3,41E-02
3520056	<i>ETNK1</i>	0,35	1,25E-03	3,41E-02
6480091	<i>DNAJA4</i>	0,35	1,25E-03	3,42E-02
830593	<i>VIM</i>	0,35	1,26E-03	3,45E-02
1580088	<i>HCST</i>	0,35	1,27E-03	3,45E-02
2320041	<i>TMEM189-UBE2V1</i>	0,35	1,27E-03	3,45E-02

6200753	<i>SWAP70</i>	0,35	1,27E-03	3,45E-02
7380139	<i>SERINC3</i>	0,35	1,27E-03	3,46E-02
5890450	<i>ATP6V1E1</i>	0,35	1,27E-03	3,46E-02
4150630	<i>NKIRAS1</i>	0,35	1,28E-03	3,46E-02
1430376	<i>NIN</i>	0,35	1,30E-03	3,51E-02
6330377	<i>ATP6V0D1</i>	0,35	1,30E-03	3,51E-02
4540241	<i>C50RF32</i>	0,35	1,31E-03	3,52E-02
2480050	<i>SOX7</i>	0,35	1,31E-03	3,53E-02
5550037	<i>CNN2</i>	0,35	1,31E-03	3,53E-02
6860543	<i>ATP6V1E1</i>	0,35	1,31E-03	3,53E-02
6940768	<i>MYBPC3</i>	0,35	1,32E-03	3,54E-02
270168	<i>HLA-DRA</i>	0,35	1,32E-03	3,54E-02
4150438	<i>LRRFIP2</i>	0,35	1,33E-03	3,56E-02
2060037	<i>ZBTB43</i>	0,35	1,33E-03	3,56E-02
5570685	<i>LOC400796</i>	0,35	1,34E-03	3,58E-02
2570255	<i>STARD13</i>	0,35	1,35E-03	3,61E-02
4860243	<i>SNRPB</i>	0,35	1,35E-03	3,61E-02
1770097	<i>HS.537553</i>	0,35	1,36E-03	3,62E-02
1770364	<i>APOLD1</i>	0,35	1,37E-03	3,64E-02
4250398	<i>STK4</i>	0,35	1,37E-03	3,64E-02
5090632	<i>LGALS9</i>	0,35	1,38E-03	3,67E-02
4260044	<i>SQSTM1</i>	0,35	1,38E-03	3,67E-02
2490309	<i>SH3TC1</i>	0,35	1,39E-03	3,68E-02
5270619	<i>FGD3</i>	0,35	1,39E-03	3,68E-02
6770730	<i>GSTO1</i>	0,35	1,40E-03	3,70E-02
730156	<i>ICAM2</i>	0,35	1,41E-03	3,72E-02
4610376	<i>FLJ11235</i>	0,35	1,42E-03	3,73E-02
3310021	<i>HS.572512</i>	0,35	1,42E-03	3,73E-02
5700739	<i>LARP7</i>	0,35	1,42E-03	3,73E-02
5690619	<i>HS.564389</i>	0,35	1,42E-03	3,73E-02
6510689	<i>HABP4</i>	0,35	1,42E-03	3,73E-02
4290497	<i>HS.559948</i>	0,35	1,42E-03	3,74E-02

630356	<i>DAZAP2</i>	0,35	1,43E-03	3,75E-02
7650296	<i>DCN</i>	0,35	1,43E-03	3,75E-02
6510768	<i>LOC651481</i>	0,35	1,43E-03	3,75E-02
2510195	<i>LOC441249</i>	0,35	1,44E-03	3,76E-02
1820681	<i>DPEP2</i>	0,35	1,45E-03	3,77E-02
4590020	<i>YOD1</i>	0,35	1,45E-03	3,78E-02
4860546	<i>CTHRC1</i>	0,35	1,47E-03	3,82E-02
4050722	<i>HS.571940</i>	0,35	1,47E-03	3,82E-02
3190452	<i>DNAJB11</i>	0,35	1,47E-03	3,82E-02
1820053	<i>SLC43A2</i>	0,35	1,47E-03	3,82E-02
4050209	<i>DCTN6</i>	0,35	1,48E-03	3,83E-02
520255	<i>TUBB6</i>	0,35	1,48E-03	3,83E-02
6100136	<i>CASP4</i>	0,35	1,48E-03	3,83E-02
1410181	<i>SAMSN1</i>	0,35	1,48E-03	3,83E-02
520470	<i>NLRP12</i>	0,35	1,48E-03	3,83E-02
4200008	<i>ATG2A</i>	0,35	1,49E-03	3,84E-02
6280152	<i>UTP11L</i>	0,35	1,50E-03	3,87E-02
780528	<i>CKS2</i>	0,34	1,51E-03	3,87E-02
6400243	<i>ABLIM1</i>	0,34	1,51E-03	3,89E-02
2140286	<i>HS.578059</i>	0,34	1,52E-03	3,90E-02
1850296	<i>FLJ43663</i>	0,34	1,53E-03	3,93E-02
3710553	<i>SMOX</i>	0,34	1,53E-03	3,93E-02
1300685	<i>LOC653249</i>	0,34	1,54E-03	3,94E-02
2810468	<i>SSH2</i>	0,34	1,55E-03	3,96E-02
2940373	<i>TACC1</i>	0,34	1,55E-03	3,96E-02
6650687	<i>PIGA</i>	0,34	1,58E-03	4,00E-02
6370377	<i>C19ORF12</i>	0,34	1,59E-03	4,02E-02
3830647	<i>VPS37B</i>	0,34	1,60E-03	4,02E-02
3940390	<i>TBXAS1</i>	0,34	1,60E-03	4,02E-02
6250129	<i>TNIP2</i>	0,34	1,61E-03	4,06E-02
730577	<i>CPXM1</i>	0,34	1,62E-03	4,06E-02
3780408	<i>RAB43</i>	0,34	1,62E-03	4,06E-02

7560520	<i>HS.348844</i>	0,34	1,62E-03	4,07E-02
7570273	<i>HS.368591</i>	0,34	1,63E-03	4,07E-02
4010692	<i>HS.569948</i>	0,34	1,63E-03	4,08E-02
270068	<i>SMOX</i>	0,34	1,63E-03	4,08E-02
3360717	<i>PIK3CD</i>	0,34	1,64E-03	4,09E-02
3360546	<i>UBE2W</i>	0,34	1,64E-03	4,09E-02
730685	<i>RGS19</i>	0,34	1,64E-03	4,09E-02
3120520	<i>GABARAPL2</i>	0,34	1,64E-03	4,10E-02
6250243	<i>HS.542667</i>	0,34	1,65E-03	4,13E-02
4590372	<i>VDAC1</i>	0,34	1,66E-03	4,14E-02
780332	<i>FAM3C</i>	0,34	1,67E-03	4,15E-02
4860315	<i>TESK1</i>	0,34	1,67E-03	4,15E-02
1990390	<i>RAB3IP</i>	0,34	1,68E-03	4,17E-02
1470669	<i>TNC</i>	0,34	1,69E-03	4,18E-02
5360156	<i>IFITM1</i>	0,34	1,69E-03	4,18E-02
3780053	<i>PALLD</i>	0,34	1,69E-03	4,18E-02
5570377	<i>HS.563743</i>	0,34	1,69E-03	4,18E-02
430102	<i>NTRK2</i>	0,34	1,70E-03	4,19E-02
3800139	<i>HEXB</i>	0,34	1,70E-03	4,19E-02
1710240	<i>DNAJB14</i>	0,34	1,71E-03	4,20E-02
1230754	<i>POR</i>	0,34	1,71E-03	4,22E-02
2230433	<i>TMEM154</i>	0,34	1,72E-03	4,23E-02
2510575	<i>ARMC8</i>	0,34	1,73E-03	4,26E-02
4200343	<i>CYFIP1</i>	0,34	1,76E-03	4,30E-02
6290519	<i>STOM</i>	0,34	1,76E-03	4,31E-02
1990253	<i>TDG</i>	0,34	1,77E-03	4,32E-02
2570022	<i>CLEC4A</i>	0,34	1,79E-03	4,37E-02
4730706	<i>HS.565713</i>	0,34	1,80E-03	4,39E-02
3450402	<i>PAK2</i>	0,34	1,81E-03	4,39E-02
1230292	<i>MED30</i>	0,34	1,82E-03	4,41E-02
2640369	<i>VIL2</i>	0,34	1,82E-03	4,41E-02
3460754	<i>AXIN1</i>	0,34	1,82E-03	4,42E-02

3850440	<i>FCER1G</i>	0,34	1,82E-03	4,42E-02
7380725	<i>GRB2</i>	0,34	1,82E-03	4,42E-02
3870630	<i>ATP6V1F</i>	0,34	1,83E-03	4,43E-02
1030133	<i>C14ORF140</i>	0,34	1,84E-03	4,44E-02
4250328	<i>CHSY3</i>	0,34	1,84E-03	4,44E-02
5820037	<i>MCART6</i>	0,34	1,85E-03	4,45E-02
1070253	<i>FAM105B</i>	0,34	1,85E-03	4,45E-02
2970674	<i>LEO1</i>	0,34	1,86E-03	4,46E-02
130681	<i>RNASE6</i>	0,34	1,87E-03	4,48E-02
1940162	<i>GBP2</i>	0,34	1,89E-03	4,51E-02
5910195	<i>RBM18</i>	0,34	1,90E-03	4,53E-02
6550603	<i>HMGCR</i>	0,34	1,92E-03	4,57E-02
20201	<i>FUBP1</i>	0,34	1,93E-03	4,58E-02
360192	<i>INSIG1</i>	0,34	1,93E-03	4,58E-02
3120743	<i>LAMP2</i>	0,34	1,95E-03	4,61E-02
1770593	<i>CH25H</i>	0,34	1,95E-03	4,62E-02
3420154	<i>NLRP3</i>	0,34	1,96E-03	4,62E-02
7040176	<i>C20ORF24</i>	0,34	1,97E-03	4,64E-02
2750044	<i>ZNF280B</i>	0,34	1,97E-03	4,64E-02
5670431	<i>HS.135735</i>	0,34	1,97E-03	4,64E-02
3520288	<i>RCE1</i>	0,34	1,98E-03	4,65E-02
160706	<i>HS.529743</i>	0,34	1,98E-03	4,65E-02
3370487	<i>HNRPNPAB</i>	0,34	2,02E-03	4,72E-02
1990630	<i>TRIB3</i>	0,34	2,03E-03	4,73E-02
5340148	<i>TMEM188</i>	0,34	2,04E-03	4,75E-02
840068	<i>C3AR1</i>	0,34	2,04E-03	4,76E-02
70414	<i>HS.564460</i>	0,34	2,05E-03	4,77E-02
3610193	<i>SOX17</i>	0,34	2,05E-03	4,77E-02
5420091	<i>LTB</i>	0,34	2,05E-03	4,78E-02
6650064	<i>SIGLEC5</i>	0,34	2,07E-03	4,81E-02
4890608	<i>LOC401398</i>	0,33	2,10E-03	4,85E-02
10747	<i>DOCK2</i>	0,33	2,10E-03	4,86E-02

4120563	<i>DST</i>	0,33	2,11E-03	4,87E-02
4900634	<i>TM4SF4</i>	0,33	2,12E-03	4,88E-02
70100	<i>UGT3A1</i>	0,33	2,13E-03	4,91E-02
2810411	<i>ANXA2P3</i>	0,33	2,14E-03	4,92E-02
1170170	<i>STC2</i>	0,33	2,14E-03	4,92E-02
1850041	<i>DPM2</i>	0,33	2,15E-03	4,94E-02
3390239	<i>LOC651158</i>	0,33	2,16E-03	4,95E-02
3940477	<i>TAP2</i>	0,33	2,16E-03	4,95E-02
4890241	<i>GPR56</i>	0,33	2,16E-03	4,95E-02
6200064	<i>CECR1</i>	0,33	2,17E-03	4,95E-02
3990661	<i>C14ORF24</i>	0,33	2,18E-03	4,98E-02
770575	<i>TSPAN32</i>	0,33	2,19E-03	4,99E-02
2570725	<i>PPCS</i>	-0,33	2,19E-03	4,99E-02
6420446	<i>CMPK1</i>	-0,33	2,17E-03	4,97E-02
1940072	<i>RAPGEFL1</i>	-0,33	2,17E-03	4,95E-02
3420450	<i>KIAA0240</i>	-0,33	2,16E-03	4,95E-02
6250154	<i>LZTFL1</i>	-0,33	2,15E-03	4,93E-02
3710634	<i>LOC642644</i>	-0,33	2,14E-03	4,92E-02
3440195	<i>GFM1</i>	-0,33	2,14E-03	4,92E-02
1510615	<i>CENTG3</i>	-0,33	2,14E-03	4,91E-02
3180176	<i>SYNJ2BP</i>	-0,33	2,13E-03	4,91E-02
1510465	<i>LOC400713</i>	-0,33	2,13E-03	4,90E-02
4640132	<i>C8ORF45</i>	-0,33	2,13E-03	4,90E-02
6900458	<i>LOC728481</i>	-0,33	2,12E-03	4,88E-02
2760156	<i>FAM63A</i>	-0,33	2,12E-03	4,88E-02
5130703	<i>NLP</i>	-0,33	2,11E-03	4,88E-02
5720598	<i>MYO1B</i>	-0,33	2,10E-03	4,85E-02
3310026	<i>FIGLA</i>	-0,34	2,10E-03	4,85E-02
2760121	<i>ADHFE1</i>	-0,34	2,09E-03	4,84E-02
2490452	<i>GAA</i>	-0,34	2,09E-03	4,84E-02
5870019	<i>HSPA12A</i>	-0,34	2,08E-03	4,82E-02
380626	<i>HCN4</i>	-0,34	2,07E-03	4,81E-02

1450707	<i>RING1</i>	-0,34	2,07E-03	4,81E-02
6400471	<i>HS.563568</i>	-0,34	2,07E-03	4,80E-02
4570341	<i>C8ORF46</i>	-0,34	2,06E-03	4,79E-02
6510601	<i>SHARPIN</i>	-0,34	2,04E-03	4,75E-02
1190553	<i>THSD7B</i>	-0,34	2,04E-03	4,75E-02
1410035	<i>RPS6</i>	-0,34	2,02E-03	4,72E-02
3850142	<i>KIF1C</i>	-0,34	2,02E-03	4,72E-02
3120750	<i>SEMA6C</i>	-0,34	2,02E-03	4,72E-02
1230242	<i>UBE2L3</i>	-0,34	2,02E-03	4,71E-02
3140553	<i>SAR1A</i>	-0,34	2,02E-03	4,71E-02
4180441	<i>NDUFA4</i>	-0,34	2,01E-03	4,69E-02
6110044	<i>CPS1</i>	-0,34	2,00E-03	4,69E-02
3170392	<i>HS.573834</i>	-0,34	2,00E-03	4,69E-02
1570736	<i>PRPF40B</i>	-0,34	2,00E-03	4,68E-02
5390450	<i>TSPAN2</i>	-0,34	2,00E-03	4,68E-02
7100753	<i>FOXD4L1</i>	-0,34	1,99E-03	4,66E-02
4250753	<i>TSPAN33</i>	-0,34	1,98E-03	4,65E-02
4670577	<i>TMEM17</i>	-0,34	1,98E-03	4,65E-02
5360687	<i>PKD2</i>	-0,34	1,98E-03	4,65E-02
3610367	<i>ZIM2</i>	-0,34	1,98E-03	4,65E-02
1450088	<i>HS.562875</i>	-0,34	1,97E-03	4,64E-02
3870142	<i>HS.563862</i>	-0,34	1,97E-03	4,64E-02
4760326	<i>CTPS2</i>	-0,34	1,96E-03	4,63E-02
6110487	<i>PACSIN3</i>	-0,34	1,96E-03	4,62E-02
6650692	<i>ISOC2</i>	-0,34	1,95E-03	4,61E-02
6590403	<i>LOC390811</i>	-0,34	1,95E-03	4,61E-02
2470743	<i>KMO</i>	-0,34	1,95E-03	4,61E-02
7510470	<i>CREB1</i>	-0,34	1,95E-03	4,61E-02
2600204	<i>SACM1L</i>	-0,34	1,95E-03	4,61E-02
3180402	<i>HDDC2</i>	-0,34	1,94E-03	4,61E-02
3290341	<i>AIFM1</i>	-0,34	1,94E-03	4,60E-02
2570408	<i>LOC649044</i>	-0,34	1,94E-03	4,60E-02

3890170	<i>MLLT10</i>	-0,34	1,94E-03	4,60E-02
1780682	<i>HYDIN</i>	-0,34	1,93E-03	4,58E-02
2070553	<i>TENC1</i>	-0,34	1,93E-03	4,58E-02
1510564	<i>TMEM4</i>	-0,34	1,93E-03	4,58E-02
3290242	<i>PDS5A</i>	-0,34	1,92E-03	4,57E-02
5820403	<i>CLK4</i>	-0,34	1,91E-03	4,55E-02
7040241	<i>OAT</i>	-0,34	1,90E-03	4,54E-02
2230598	<i>IGFALS</i>	-0,34	1,90E-03	4,53E-02
1240390	<i>LOC644596</i>	-0,34	1,90E-03	4,53E-02
6400437	<i>RPL32</i>	-0,34	1,90E-03	4,53E-02
1190246	<i>FBXL10</i>	-0,34	1,89E-03	4,53E-02
7210497	<i>NUAK1</i>	-0,34	1,89E-03	4,53E-02
520324	<i>REEP5</i>	-0,34	1,89E-03	4,51E-02
670176	<i>ZNF618</i>	-0,34	1,89E-03	4,51E-02
2480075	<i>ATF7IP2</i>	-0,34	1,88E-03	4,50E-02
4260364	<i>RNUXA</i>	-0,34	1,86E-03	4,46E-02
3940026	<i>HEBP2</i>	-0,34	1,86E-03	4,46E-02
1510452	<i>C8ORF59</i>	-0,34	1,85E-03	4,45E-02
4250372	<i>KLHDC3</i>	-0,34	1,85E-03	4,45E-02
5890168	<i>TMLHE</i>	-0,34	1,85E-03	4,45E-02
4760431	<i>LOC136143</i>	-0,34	1,85E-03	4,45E-02
1580608	<i>SEMA3E</i>	-0,34	1,84E-03	4,44E-02
7510600	<i>C12ORF30</i>	-0,34	1,84E-03	4,44E-02
460564	<i>FAM73A</i>	-0,34	1,84E-03	4,44E-02
4610289	<i>MTM</i>	-0,34	1,84E-03	4,44E-02
2030433	<i>HSCB</i>	-0,34	1,84E-03	4,44E-02
2260215	<i>CASP3</i>	-0,34	1,84E-03	4,44E-02
580681	<i>ZNF564</i>	-0,34	1,84E-03	4,44E-02
2370017	<i>MCM8</i>	-0,34	1,84E-03	4,44E-02
110707	<i>ANKAR</i>	-0,34	1,82E-03	4,41E-02
3190348	<i>LOC440927</i>	-0,34	1,82E-03	4,41E-02
5910441	<i>HS.552502</i>	-0,34	1,80E-03	4,39E-02

3170195	<i>FLJ10404</i>	-0,34	1,80E-03	4,39E-02
1110167	<i>TATDN1</i>	-0,34	1,80E-03	4,38E-02
4830121	<i>WDR27</i>	-0,34	1,79E-03	4,37E-02
4810661	<i>KIAA0408</i>	-0,34	1,79E-03	4,37E-02
1500747	<i>CBX7</i>	-0,34	1,79E-03	4,37E-02
6060209	<i>GNE</i>	-0,34	1,77E-03	4,33E-02
4220731	<i>P4HA1</i>	-0,34	1,77E-03	4,33E-02
4220307	<i>LOC647673</i>	-0,34	1,77E-03	4,32E-02
5310494	<i>LOC440733</i>	-0,34	1,76E-03	4,30E-02
4280300	<i>DIS3L</i>	-0,34	1,76E-03	4,30E-02
7040717	<i>AASDHPPPT</i>	-0,34	1,75E-03	4,30E-02
6660414	<i>PRKAG2</i>	-0,34	1,74E-03	4,26E-02
5220195	<i>UQCRC2</i>	-0,34	1,73E-03	4,24E-02
1400397	<i>TMEM101</i>	-0,34	1,73E-03	4,24E-02
1090682	<i>FRK</i>	-0,34	1,72E-03	4,23E-02
4810739	<i>OCIAD1</i>	-0,34	1,72E-03	4,23E-02
6560286	<i>LOC649856</i>	-0,34	1,71E-03	4,21E-02
1410427	<i>ZRANB1</i>	-0,34	1,71E-03	4,21E-02
5340703	<i>KRCC1</i>	-0,34	1,70E-03	4,20E-02
2100341	<i>C14ORF2</i>	-0,34	1,69E-03	4,18E-02
3060398	<i>PTPRF</i>	-0,34	1,69E-03	4,18E-02
4880068	<i>RNF123</i>	-0,34	1,69E-03	4,18E-02
70102	<i>ALDH7A1</i>	-0,34	1,68E-03	4,16E-02
6180463	<i>CNNM3</i>	-0,34	1,68E-03	4,16E-02
1230600	<i>LOC651064</i>	-0,34	1,68E-03	4,16E-02
6380639	<i>RPLP1</i>	-0,34	1,68E-03	4,16E-02
3120647	<i>GPER</i>	-0,34	1,67E-03	4,16E-02
360747	<i>COASY</i>	-0,34	1,67E-03	4,16E-02
6660332	<i>HYPK</i>	-0,34	1,67E-03	4,16E-02
70068	<i>ACBD4</i>	-0,34	1,66E-03	4,15E-02
20017	<i>LOC650128</i>	-0,34	1,66E-03	4,13E-02
4180292	<i>ACSM3</i>	-0,34	1,64E-03	4,09E-02

2320403	<i>ABCA11</i>	-0,34	1,62E-03	4,07E-02
6280286	<i>ADAMTSL3</i>	-0,34	1,62E-03	4,07E-02
1010739	<i>C3ORF15</i>	-0,34	1,62E-03	4,06E-02
2340452	<i>RN7SL1</i>	-0,34	1,61E-03	4,04E-02
2970687	<i>NUDT13</i>	-0,34	1,60E-03	4,04E-02
2100576	<i>ARAF</i>	-0,34	1,60E-03	4,04E-02
5820386	<i>AIRE</i>	-0,34	1,59E-03	4,02E-02
5310736	<i>C3ORF28</i>	-0,34	1,59E-03	4,02E-02
670594	<i>C2</i>	-0,34	1,59E-03	4,02E-02
5340546	<i>ARPC2</i>	-0,34	1,58E-03	4,00E-02
3520746	<i>MTTP</i>	-0,34	1,58E-03	4,00E-02
1190504	<i>NEK3</i>	-0,34	1,58E-03	4,00E-02
7380707	<i>ZFAND1</i>	-0,34	1,58E-03	4,00E-02
5810048	<i>HS.584250</i>	-0,34	1,58E-03	4,00E-02
5050470	<i>GHR</i>	-0,34	1,58E-03	4,00E-02
7050561	<i>ZNF259</i>	-0,34	1,58E-03	4,00E-02
460333	<i>SPAST</i>	-0,34	1,57E-03	3,99E-02
3120075	<i>TIA1</i>	-0,34	1,57E-03	3,99E-02
1430280	<i>CEBPA</i>	-0,34	1,57E-03	3,99E-02
5870220	<i>KCNK2</i>	-0,34	1,57E-03	3,98E-02
2680600	<i>CCL16</i>	-0,34	1,56E-03	3,98E-02
2100750	<i>FKBP4</i>	-0,34	1,56E-03	3,98E-02
7560543	<i>MOCS1</i>	-0,34	1,56E-03	3,97E-02
1230646	<i>THUMPD2</i>	-0,34	1,56E-03	3,97E-02
4850543	<i>TMEM151A</i>	-0,34	1,56E-03	3,97E-02
2970026	<i>ZNF622</i>	-0,34	1,55E-03	3,96E-02
1190647	<i>ZNF323</i>	-0,34	1,55E-03	3,96E-02
7570025	<i>C11ORF45</i>	-0,34	1,55E-03	3,96E-02
1780010	<i>HTR1D</i>	-0,34	1,54E-03	3,95E-02
2510239	<i>TRIM56</i>	-0,34	1,54E-03	3,94E-02
6040356	<i>KIAA1543</i>	-0,34	1,54E-03	3,94E-02
1070070	<i>NPIP</i>	-0,34	1,52E-03	3,91E-02

2470296	ZSCAN16	-0,34	1,52E-03	3,91E-02
1500132	SLC35A5	-0,34	1,52E-03	3,90E-02
3420521	C9	-0,34	1,51E-03	3,89E-02
7050524	LOC650346	-0,34	1,51E-03	3,87E-02
1240544	HS.576735	-0,34	1,50E-03	3,87E-02
6980435	ZNF232	-0,35	1,50E-03	3,87E-02
770687	FASTK	-0,35	1,50E-03	3,86E-02
5490703	POLR3GL	-0,35	1,50E-03	3,86E-02
1170477	GPRC5C	-0,35	1,48E-03	3,83E-02
3180196	PTCD1	-0,35	1,48E-03	3,83E-02
6580593	PPP1R3C	-0,35	1,47E-03	3,82E-02
7150184	TDRD1	-0,35	1,47E-03	3,82E-02
3290630	SERPINA5	-0,35	1,45E-03	3,78E-02
4070086	HAAO	-0,35	1,45E-03	3,78E-02
2120463	PKIG	-0,35	1,45E-03	3,77E-02
150672	KLHL7	-0,35	1,44E-03	3,77E-02
4780768	FAM8A1	-0,35	1,44E-03	3,77E-02
3190280	F7	-0,35	1,44E-03	3,76E-02
380487	HS.132249	-0,35	1,44E-03	3,76E-02
1090008	VTN	-0,35	1,43E-03	3,74E-02
1440575	OSBPL7	-0,35	1,43E-03	3,74E-02
2900470	LOC388532	-0,35	1,43E-03	3,74E-02
4050463	LOC219854	-0,35	1,42E-03	3,73E-02
4040114	TEF	-0,35	1,42E-03	3,73E-02
4220161	ZNF518A	-0,35	1,41E-03	3,73E-02
870441	PPARA	-0,35	1,41E-03	3,71E-02
2060707	GPR125	-0,35	1,39E-03	3,68E-02
520403	PRO1853	-0,35	1,39E-03	3,68E-02
1660184	GPR88	-0,35	1,39E-03	3,68E-02
3460091	SMC6	-0,35	1,39E-03	3,68E-02
4920136	MKKS	-0,35	1,39E-03	3,68E-02
1470711	TRPV1	-0,35	1,38E-03	3,66E-02

2140167	<i>MOSC2</i>	-0,35	1,38E-03	3,66E-02
4810356	<i>HS.542116</i>	-0,35	1,37E-03	3,64E-02
4290189	<i>P8</i>	-0,35	1,37E-03	3,64E-02
1740204	<i>THUMPD1</i>	-0,35	1,37E-03	3,64E-02
1050050	<i>C9ORF45</i>	-0,35	1,36E-03	3,63E-02
2060440	<i>MAFB</i>	-0,35	1,36E-03	3,63E-02
510100	<i>CBY1</i>	-0,35	1,36E-03	3,63E-02
7000259	<i>DDX17</i>	-0,35	1,34E-03	3,58E-02
3190735	<i>SSNA1</i>	-0,35	1,34E-03	3,58E-02
3120608	<i>ERBB3</i>	-0,35	1,34E-03	3,58E-02
2760706	<i>C16ORF48</i>	-0,35	1,34E-03	3,58E-02
2650102	<i>ZNF792</i>	-0,35	1,34E-03	3,58E-02
2690300	<i>LOC730432</i>	-0,35	1,32E-03	3,54E-02
240736	<i>TSPAN6</i>	-0,35	1,31E-03	3,53E-02
4250427	<i>ZNF493</i>	-0,35	1,31E-03	3,53E-02
6380678	<i>RHO</i>	-0,35	1,30E-03	3,52E-02
3190746	<i>PAH</i>	-0,35	1,30E-03	3,51E-02
1450646	<i>HSD17B13</i>	-0,35	1,30E-03	3,51E-02
1190707	<i>PRPF31</i>	-0,35	1,29E-03	3,50E-02
7560189	<i>RNF5P1</i>	-0,35	1,28E-03	3,47E-02
730711	<i>LOC644733</i>	-0,35	1,28E-03	3,47E-02
1030053	<i>MZF1</i>	-0,35	1,28E-03	3,46E-02
3400685	<i>OGDHL</i>	-0,35	1,27E-03	3,45E-02
3450040	<i>CCBL1</i>	-0,35	1,27E-03	3,45E-02
6760152	<i>HS.539751</i>	-0,35	1,27E-03	3,45E-02
4150753	<i>FKBP14</i>	-0,35	1,27E-03	3,45E-02
5260639	<i>ZNF330</i>	-0,35	1,26E-03	3,44E-02
6960576	<i>WDR23</i>	-0,35	1,25E-03	3,41E-02
5700220	<i>DAPK1</i>	-0,35	1,25E-03	3,41E-02
3170431	<i>LRCH4</i>	-0,35	1,24E-03	3,41E-02
7380192	<i>SEC14L4</i>	-0,35	1,24E-03	3,41E-02
5900605	<i>DCLRE1A</i>	-0,35	1,23E-03	3,39E-02

3710450	<i>NR1H3</i>	-0,35	1,23E-03	3,38E-02
2260521	<i>C1ORF25</i>	-0,35	1,23E-03	3,38E-02
2370309	<i>HS.148519</i>	-0,35	1,22E-03	3,37E-02
5820333	<i>RPUSD2</i>	-0,35	1,22E-03	3,37E-02
2640544	<i>ASS1</i>	-0,35	1,22E-03	3,36E-02
4850092	<i>ACSM5</i>	-0,35	1,22E-03	3,36E-02
10592	<i>EFCAB4A</i>	-0,35	1,21E-03	3,34E-02
3120678	<i>CHRNA4</i>	-0,35	1,21E-03	3,34E-02
1770484	<i>CYP46A1</i>	-0,35	1,20E-03	3,33E-02
1740280	<i>NIT1</i>	-0,35	1,20E-03	3,33E-02
3400202	<i>GPATCH1</i>	-0,35	1,20E-03	3,32E-02
4610681	<i>LOC653658</i>	-0,35	1,20E-03	3,32E-02
5810477	<i>SERINC5</i>	-0,35	1,19E-03	3,32E-02
6940053	<i>NTNG1</i>	-0,35	1,19E-03	3,31E-02
7100544	<i>HS.443185</i>	-0,35	1,19E-03	3,31E-02
6760673	<i>SC65</i>	-0,35	1,19E-03	3,31E-02
3420452	<i>TSPAN13</i>	-0,35	1,19E-03	3,31E-02
5090253	<i>SFRS14</i>	-0,35	1,19E-03	3,31E-02
7510538	<i>CTBP1</i>	-0,35	1,18E-03	3,31E-02
6370014	<i>B3GAT1</i>	-0,35	1,18E-03	3,31E-02
2450754	<i>HS.543163</i>	-0,35	1,18E-03	3,31E-02
1780445	<i>POGZ</i>	-0,35	1,18E-03	3,29E-02
6180470	<i>FAM108B1</i>	-0,35	1,17E-03	3,28E-02
7150711	<i>ZNF223</i>	-0,35	1,17E-03	3,27E-02
1260154	<i>DOLPP1</i>	-0,35	1,16E-03	3,26E-02
870735	<i>ZNF514</i>	-0,35	1,16E-03	3,25E-02
4390524	<i>LOC649548</i>	-0,35	1,15E-03	3,25E-02
360689	<i>HEBP1</i>	-0,35	1,14E-03	3,21E-02
6450021	<i>ANAPC4</i>	-0,35	1,14E-03	3,21E-02
5870632	<i>TM9SF2</i>	-0,35	1,13E-03	3,19E-02
3170682	<i>FLJ42289</i>	-0,35	1,11E-03	3,16E-02
2600040	<i>C19ORF2</i>	-0,35	1,11E-03	3,16E-02

3190020	<i>C10ORF137</i>	-0,35	1,11E-03	3,15E-02
6620554	<i>TSN</i>	-0,35	1,09E-03	3,12E-02
10386	<i>TM2D1</i>	-0,35	1,09E-03	3,12E-02
650605	<i>LOC388789</i>	-0,35	1,08E-03	3,10E-02
3870561	<i>EHMT2</i>	-0,35	1,08E-03	3,09E-02
6940431	<i>WSCD1</i>	-0,35	1,08E-03	3,09E-02
2070575	<i>ALCAM</i>	-0,35	1,08E-03	3,09E-02
3460451	<i>SH3PXD2A</i>	-0,35	1,08E-03	3,09E-02
2570156	<i>GGA1</i>	-0,35	1,07E-03	3,08E-02
2750639	<i>DFFA</i>	-0,35	1,07E-03	3,08E-02
620707	<i>SLC6A16</i>	-0,35	1,07E-03	3,07E-02
1770519	<i>PDRG1</i>	-0,35	1,07E-03	3,07E-02
3830180	<i>VPS16</i>	-0,35	1,07E-03	3,07E-02
430438	<i>MIAT</i>	-0,36	1,06E-03	3,06E-02
2570482	<i>LOC728417</i>	-0,36	1,06E-03	3,06E-02
6330593	<i>PTHR1</i>	-0,36	1,05E-03	3,04E-02
6330367	<i>C19ORF44</i>	-0,36	1,05E-03	3,04E-02
6250646	<i>SLC27A5</i>	-0,36	1,04E-03	3,03E-02
2370279	<i>MACROD1</i>	-0,36	1,04E-03	3,02E-02
2030068	<i>SCYL3</i>	-0,36	1,04E-03	3,02E-02
6770315	<i>LOC391656</i>	-0,36	1,02E-03	2,99E-02
2600273	<i>CATSPER2</i>	-0,36	1,01E-03	2,95E-02
3780392	<i>LOC143941</i>	-0,36	1,01E-03	2,94E-02
4890341	<i>SEC14L2</i>	-0,36	1,00E-03	2,93E-02
2370438	<i>A2M</i>	-0,36	9,99E-04	2,93E-02
5420400	<i>FLJ39827</i>	-0,36	9,97E-04	2,92E-02
4250154	<i>LOC648749</i>	-0,36	9,95E-04	2,92E-02
5270753	<i>ARG1</i>	-0,36	9,92E-04	2,91E-02
3450521	<i>ECM1</i>	-0,36	9,89E-04	2,90E-02
6650189	<i>PEX5</i>	-0,36	9,89E-04	2,90E-02
2030020	<i>HS.544637</i>	-0,36	9,83E-04	2,89E-02
3870010	<i>SNRP70</i>	-0,36	9,79E-04	2,88E-02

1070731	<i>LOC440567</i>	-0,36	9,78E-04	2,88E-02
5700243	<i>LIN7C</i>	-0,36	9,70E-04	2,86E-02
160181	<i>FOXRED2</i>	-0,36	9,65E-04	2,85E-02
780100	<i>F7</i>	-0,36	9,63E-04	2,85E-02
5700612	<i>SEPHS1</i>	-0,36	9,60E-04	2,84E-02
4050500	<i>TAF6</i>	-0,36	9,60E-04	2,84E-02
5910543	<i>GLOD4</i>	-0,36	9,48E-04	2,82E-02
1740767	<i>C11ORF63</i>	-0,36	9,47E-04	2,81E-02
4040181	<i>NUPR1</i>	-0,36	9,43E-04	2,81E-02
4290017	<i>PLEKHA6</i>	-0,36	9,33E-04	2,78E-02
5390347	<i>ZNF79</i>	-0,36	9,31E-04	2,77E-02
6520048	<i>FCGR2A</i>	-0,36	9,29E-04	2,77E-02
6520427	<i>HS.12876</i>	-0,36	9,26E-04	2,77E-02
4830301	<i>GCN5L2</i>	-0,36	9,24E-04	2,76E-02
3830044	<i>GRTP1</i>	-0,36	9,17E-04	2,74E-02
1410079	<i>CDC26</i>	-0,36	9,15E-04	2,74E-02
1400035	<i>RCBTB2</i>	-0,36	9,09E-04	2,73E-02
840553	<i>RGMB</i>	-0,36	9,02E-04	2,71E-02
6200286	<i>RHBDL2</i>	-0,36	9,01E-04	2,71E-02
1170161	<i>HS.149679</i>	-0,36	8,96E-04	2,70E-02
990075	<i>BMP4</i>	-0,36	8,92E-04	2,69E-02
460072	<i>MTX2</i>	-0,36	8,90E-04	2,68E-02
3870470	<i>LOC728973</i>	-0,36	8,85E-04	2,67E-02
3460463	<i>PKLR</i>	-0,36	8,85E-04	2,67E-02
6450066	<i>CUX2</i>	-0,36	8,83E-04	2,67E-02
5220139	<i>FLJ23834</i>	-0,36	8,81E-04	2,66E-02
1430711	<i>KLF12</i>	-0,36	8,79E-04	2,66E-02
4230753	<i>HLX</i>	-0,36	8,78E-04	2,66E-02
5270343	<i>IQCC</i>	-0,36	8,74E-04	2,65E-02
1570280	<i>GCC1</i>	-0,36	8,70E-04	2,64E-02
670136	<i>FLJ38717</i>	-0,36	8,68E-04	2,64E-02
450376	<i>TSC2</i>	-0,36	8,64E-04	2,63E-02

6400711	ZNF573	-0,36	8,63E-04	2,63E-02
6450475	YRDC	-0,36	8,58E-04	2,62E-02
6180154	MRPL10	-0,36	8,55E-04	2,61E-02
620626	NAT2	-0,36	8,47E-04	2,60E-02
2680497	NCAPD2	-0,36	8,40E-04	2,58E-02
3400156	FAM99A	-0,36	8,35E-04	2,57E-02
6450162	MGC59937	-0,36	8,34E-04	2,57E-02
4830195	HS.223856	-0,36	8,34E-04	2,57E-02
770280	OR5P2	-0,36	8,34E-04	2,57E-02
6770215	SARDH	-0,36	8,33E-04	2,57E-02
3520484	HS.552903	-0,36	8,27E-04	2,55E-02
5220717	HS.526973	-0,36	8,15E-04	2,52E-02
2600360	C10RF9	-0,36	8,13E-04	2,52E-02
1500538	LOC645138	-0,36	8,11E-04	2,52E-02
2710044	SLC39A5	-0,36	8,10E-04	2,51E-02
2070059	PARP10	-0,36	8,00E-04	2,49E-02
6520398	HS.550371	-0,36	8,00E-04	2,49E-02
4390121	ADRM1	-0,36	7,99E-04	2,48E-02
380068	TMEM80	-0,36	7,98E-04	2,48E-02
5900286	ZFP90	-0,36	7,96E-04	2,48E-02
6040064	IHPK1	-0,36	7,96E-04	2,48E-02
5810689	PRRG4	-0,36	7,96E-04	2,48E-02
2100358	HGD	-0,36	7,94E-04	2,48E-02
6380255	RPS3A	-0,36	7,94E-04	2,48E-02
2100521	STARD8	-0,36	7,94E-04	2,48E-02
5570593	KIAA1751	-0,36	7,89E-04	2,47E-02
1780356	HAGH	-0,36	7,89E-04	2,47E-02
1090041	A26A1	-0,36	7,88E-04	2,47E-02
50193	ZNF318	-0,36	7,87E-04	2,47E-02
270403	TTC14	-0,36	7,87E-04	2,47E-02
6560670	HS.496730	-0,36	7,86E-04	2,47E-02
4210520	HS.538684	-0,36	7,83E-04	2,46E-02

7200612	<i>LOC730417</i>	-0,36	7,82E-04	2,46E-02
1010446	<i>C1QTNF6</i>	-0,36	7,78E-04	2,45E-02
2680670	<i>HS.415576</i>	-0,36	7,73E-04	2,44E-02
4560270	<i>PTPLB</i>	-0,36	7,70E-04	2,43E-02
7380068	<i>CNBP</i>	-0,36	7,69E-04	2,43E-02
4010348	<i>INPP5B</i>	-0,36	7,65E-04	2,42E-02
4050066	<i>SGTB</i>	-0,36	7,60E-04	2,41E-02
5420367	<i>SOD1</i>	-0,36	7,60E-04	2,41E-02
7210601	<i>LOC651404</i>	-0,36	7,59E-04	2,41E-02
2140392	<i>ZNF580</i>	-0,36	7,58E-04	2,41E-02
7200719	<i>INTS3</i>	-0,36	7,52E-04	2,39E-02
510192	<i>CXXC4</i>	-0,37	7,43E-04	2,37E-02
1770025	<i>SYNE2</i>	-0,37	7,42E-04	2,37E-02
5390608	<i>GSDML</i>	-0,37	7,42E-04	2,37E-02
4050768	<i>CHST13</i>	-0,37	7,37E-04	2,36E-02
2060014	<i>HS.31532</i>	-0,37	7,35E-04	2,36E-02
4480348	<i>FBXW9</i>	-0,37	7,34E-04	2,35E-02
5820521	<i>PTBP2</i>	-0,37	7,23E-04	2,32E-02
5900129	<i>CROP</i>	-0,37	7,21E-04	2,32E-02
6060056	<i>RPLP1</i>	-0,37	7,18E-04	2,31E-02
3930437	<i>LOC339047</i>	-0,37	7,15E-04	2,31E-02
730093	<i>SHD</i>	-0,37	7,14E-04	2,30E-02
3710612	<i>FRAG1</i>	-0,37	7,13E-04	2,30E-02
110327	<i>SEC62</i>	-0,37	7,10E-04	2,30E-02
6620608	<i>ZNF248</i>	-0,37	7,09E-04	2,29E-02
1230025	<i>CYB5R1</i>	-0,37	7,03E-04	2,28E-02
6860246	<i>GRAMD1C</i>	-0,37	7,00E-04	2,27E-02
380379	<i>KIAA1737</i>	-0,37	6,91E-04	2,25E-02
2230373	<i>LOC652679</i>	-0,37	6,90E-04	2,24E-02
5340682	<i>LOC650293</i>	-0,37	6,85E-04	2,23E-02
7610528	<i>ZNF14</i>	-0,37	6,84E-04	2,23E-02
160047	<i>LOC389787</i>	-0,37	6,82E-04	2,22E-02

2630224	<i>LOC93622</i>	-0,37	6,76E-04	2,21E-02
1770270	<i>C1ORF117</i>	-0,37	6,74E-04	2,20E-02
6370358	<i>C1ORF168</i>	-0,37	6,72E-04	2,20E-02
6370228	<i>HS.554507</i>	-0,37	6,58E-04	2,16E-02
2470270	<i>DUS4L</i>	-0,37	6,57E-04	2,16E-02
2100519	<i>IPP</i>	-0,37	6,55E-04	2,15E-02
4070706	<i>GALK2</i>	-0,37	6,55E-04	2,15E-02
3170669	<i>REV1</i>	-0,37	6,54E-04	2,15E-02
6770279	<i>ERMAP</i>	-0,37	6,49E-04	2,14E-02
1580129	<i>MRPS7</i>	-0,37	6,48E-04	2,14E-02
2970632	<i>RP9</i>	-0,37	6,45E-04	2,13E-02
5260082	<i>CP110</i>	-0,37	6,44E-04	2,13E-02
6900768	<i>HS.162932</i>	-0,37	6,44E-04	2,13E-02
6250605	<i>RCCD1</i>	-0,37	6,41E-04	2,12E-02
2570731	<i>TRPV1</i>	-0,37	6,38E-04	2,11E-02
5340059	<i>LRRC58</i>	-0,37	6,36E-04	2,11E-02
4830446	<i>LOC645520</i>	-0,37	6,35E-04	2,11E-02
2750202	<i>HS.537002</i>	-0,37	6,26E-04	2,08E-02
5560482	<i>UBQLN2</i>	-0,37	6,26E-04	2,08E-02
2030414	<i>BCHE</i>	-0,37	6,25E-04	2,08E-02
430519	<i>FAM120A</i>	-0,37	6,24E-04	2,08E-02
2340709	<i>ZMYM3</i>	-0,37	6,22E-04	2,07E-02
6380131	<i>TAF1C</i>	-0,37	6,19E-04	2,06E-02
1980259	<i>C15ORF28</i>	-0,37	6,14E-04	2,05E-02
6180678	<i>TMEM143</i>	-0,37	6,13E-04	2,05E-02
5220653	<i>NARS</i>	-0,37	6,13E-04	2,05E-02
3190634	<i>DSTN</i>	-0,37	6,11E-04	2,05E-02
3130132	<i>LOC654260</i>	-0,37	6,08E-04	2,04E-02
3830192	<i>ZNF791</i>	-0,37	6,07E-04	2,04E-02
6370639	<i>MINPP1</i>	-0,37	6,04E-04	2,03E-02
2340093	<i>GABRA3</i>	-0,37	6,02E-04	2,02E-02
770561	<i>C20ORF108</i>	-0,37	5,91E-04	1,99E-02

6180204	<i>FUK</i>	-0,37	5,91E-04	1,99E-02
1400019	<i>CPA2</i>	-0,37	5,91E-04	1,99E-02
4890463	<i>EXOSC10</i>	-0,37	5,83E-04	1,97E-02
2640274	<i>ALDH5A1</i>	-0,37	5,83E-04	1,97E-02
4050196	<i>RNF170</i>	-0,37	5,83E-04	1,97E-02
1410600	<i>TRIM13</i>	-0,37	5,78E-04	1,96E-02
2320215	<i>NUP210</i>	-0,37	5,76E-04	1,95E-02
2810674	<i>TRIM4</i>	-0,37	5,68E-04	1,93E-02
3610278	<i>LOC91661</i>	-0,37	5,67E-04	1,93E-02
1770273	<i>ANKRD30B</i>	-0,37	5,66E-04	1,93E-02
6220131	<i>HS.14514</i>	-0,37	5,64E-04	1,92E-02
1090576	<i>EIF2B5</i>	-0,37	5,61E-04	1,92E-02
7570131	<i>RPS18</i>	-0,37	5,56E-04	1,90E-02
1690114	<i>U2AF2</i>	-0,37	5,55E-04	1,90E-02
5130176	<i>ASAHL</i>	-0,37	5,53E-04	1,90E-02
7150259	<i>C7ORF49</i>	-0,37	5,52E-04	1,90E-02
6940008	<i>PNLDC1</i>	-0,37	5,49E-04	1,89E-02
2120653	<i>RAXL1</i>	-0,37	5,49E-04	1,89E-02
4810494	<i>AKAP1</i>	-0,37	5,45E-04	1,88E-02
5690402	<i>CLOCK</i>	-0,37	5,45E-04	1,88E-02
2370193	<i>RPS15A</i>	-0,37	5,44E-04	1,88E-02
7400240	<i>KLKB1</i>	-0,37	5,44E-04	1,88E-02
5360673	<i>HS.562058</i>	-0,37	5,40E-04	1,87E-02
7050040	<i>ZNF318</i>	-0,37	5,35E-04	1,86E-02
2490291	<i>PAN2</i>	-0,37	5,32E-04	1,85E-02
6250390	<i>TSR2</i>	-0,37	5,31E-04	1,85E-02
2260168	<i>LOC731640</i>	-0,37	5,27E-04	1,84E-02
290435	<i>KRTCAP3</i>	-0,37	5,27E-04	1,84E-02
4070154	<i>IQWD1</i>	-0,37	5,24E-04	1,83E-02
4290196	<i>SCRIB</i>	-0,37	5,22E-04	1,83E-02
3990703	<i>IL10</i>	-0,37	5,21E-04	1,83E-02
20192	<i>DHX35</i>	-0,37	5,21E-04	1,83E-02

2810373	<i>FAM20A</i>	-0,37	5,18E-04	1,82E-02
150491	<i>LOC401622</i>	-0,38	5,15E-04	1,81E-02
460347	<i>LOC150383</i>	-0,38	5,11E-04	1,80E-02
2710653	<i>FBXO38</i>	-0,38	5,09E-04	1,79E-02
3370274	<i>ANKRD11</i>	-0,38	5,08E-04	1,79E-02
6660348	<i>DCUN1D4</i>	-0,38	5,08E-04	1,79E-02
3170292	<i>DDAH1</i>	-0,38	5,08E-04	1,79E-02
3930296	<i>EIF1AX</i>	-0,38	5,05E-04	1,79E-02
4210722	<i>LOC641693</i>	-0,38	5,02E-04	1,78E-02
4610041	<i>LOC728473</i>	-0,38	5,01E-04	1,78E-02
60707	<i>DPP8</i>	-0,38	4,97E-04	1,76E-02
6900674	<i>ANKRD10</i>	-0,38	4,94E-04	1,76E-02
4070296	<i>BCORL1</i>	-0,38	4,94E-04	1,76E-02
6580504	<i>LOC124512</i>	-0,38	4,91E-04	1,75E-02
1740131	<i>HAO1</i>	-0,38	4,88E-04	1,74E-02
1510091	<i>VPS36</i>	-0,38	4,87E-04	1,74E-02
3870608	<i>CSPP1</i>	-0,38	4,84E-04	1,73E-02
2350543	<i>EID2B</i>	-0,38	4,82E-04	1,73E-02
2640767	<i>LOC646100</i>	-0,38	4,81E-04	1,73E-02
3060040	<i>PABPC1</i>	-0,38	4,80E-04	1,72E-02
1440356	<i>CNOT4</i>	-0,38	4,78E-04	1,72E-02
6620521	<i>BLVRB</i>	-0,38	4,74E-04	1,71E-02
540239	<i>TRIM41</i>	-0,38	4,74E-04	1,71E-02
2680156	<i>RBM10</i>	-0,38	4,71E-04	1,70E-02
6040768	<i>DMAP1</i>	-0,38	4,69E-04	1,69E-02
5260386	<i>PCGF1</i>	-0,38	4,67E-04	1,69E-02
2970315	<i>RNPC3</i>	-0,38	4,65E-04	1,68E-02
4570484	<i>USP48</i>	-0,38	4,62E-04	1,67E-02
5960411	<i>BCYRN1</i>	-0,38	4,60E-04	1,67E-02
670446	<i>FAM86C</i>	-0,38	4,45E-04	1,62E-02
2510324	<i>NUDT2</i>	-0,38	4,44E-04	1,62E-02
3850228	<i>ZRANB2</i>	-0,38	4,40E-04	1,61E-02

2060491	ZNF565	-0,38	4,39E-04	1,60E-02
2470279	ACADM	-0,38	4,37E-04	1,60E-02
2320047	NFIA	-0,38	4,37E-04	1,60E-02
3370136	ACAD11	-0,38	4,34E-04	1,59E-02
7210333	HS.571151	-0,38	4,34E-04	1,59E-02
6280520	TMEM45A	-0,38	4,32E-04	1,59E-02
1990047	C9ORF119	-0,38	4,32E-04	1,59E-02
6380376	USP21	-0,38	4,30E-04	1,58E-02
1660541	ESRRA	-0,38	4,30E-04	1,58E-02
1660762	LOC285908	-0,38	4,29E-04	1,58E-02
6620520	LOC652009	-0,38	4,29E-04	1,58E-02
1300328	ABHD10	-0,38	4,27E-04	1,58E-02
620639	ASAHL	-0,38	4,27E-04	1,58E-02
840551	CEP27	-0,38	4,27E-04	1,58E-02
4230035	KIAA0999	-0,38	4,23E-04	1,57E-02
5490053	DLEU1	-0,38	4,19E-04	1,55E-02
4890703	MBTD1	-0,38	4,17E-04	1,55E-02
520754	CSTF1	-0,38	4,16E-04	1,55E-02
5690156	TTC31	-0,38	4,15E-04	1,54E-02
1580168	ACTR6	-0,38	4,12E-04	1,54E-02
1770133	LOC389599	-0,38	4,11E-04	1,53E-02
1710113	PPP1R3E	-0,38	4,09E-04	1,53E-02
1050754	LOC653583	-0,38	4,06E-04	1,52E-02
4220441	PTPRD	-0,38	4,05E-04	1,52E-02
6200253	THBS4	-0,38	4,05E-04	1,52E-02
6350484	SLC28A1	-0,38	4,04E-04	1,52E-02
4040093	GIMAP6	-0,38	4,03E-04	1,51E-02
3940653	PREPL	-0,38	4,02E-04	1,51E-02
4260687	SLCO4C1	-0,38	3,95E-04	1,49E-02
1470386	CPNE8	-0,38	3,95E-04	1,49E-02
2630379	ZNF69	-0,38	3,94E-04	1,49E-02
4850500	PVRL3	-0,38	3,91E-04	1,48E-02

6420521	<i>PRUNE</i>	-0,38	3,91E-04	1,48E-02
1980474	<i>LOC201164</i>	-0,38	3,88E-04	1,47E-02
6650026	<i>ASTE1</i>	-0,38	3,85E-04	1,46E-02
4280725	<i>RNF14</i>	-0,38	3,84E-04	1,46E-02
6580291	<i>ABAT</i>	-0,38	3,84E-04	1,46E-02
6660487	<i>ZNF577</i>	-0,38	3,83E-04	1,46E-02
5310292	<i>CFHR5</i>	-0,38	3,81E-04	1,46E-02
1430392	<i>LOC648130</i>	-0,38	3,79E-04	1,45E-02
160307	<i>C9ORF3</i>	-0,38	3,77E-04	1,44E-02
6290110	<i>RFC1</i>	-0,38	3,76E-04	1,44E-02
5870594	<i>RAB33B</i>	-0,38	3,74E-04	1,44E-02
5260632	<i>UBE2D4</i>	-0,38	3,70E-04	1,42E-02
7200519	<i>FLJ46309</i>	-0,38	3,69E-04	1,42E-02
1990053	<i>POLRMT</i>	-0,38	3,66E-04	1,41E-02
540446	<i>TIMM8B</i>	-0,38	3,65E-04	1,41E-02
1030201	<i>WDR33</i>	-0,38	3,65E-04	1,41E-02
630278	<i>H1FO</i>	-0,38	3,63E-04	1,41E-02
730722	<i>ITIH2</i>	-0,38	3,61E-04	1,40E-02
1230653	<i>CYP3A43</i>	-0,38	3,60E-04	1,40E-02
4640491	<i>CDO1</i>	-0,38	3,60E-04	1,40E-02
830064	<i>HS.290540</i>	-0,38	3,57E-04	1,39E-02
1850612	<i>PARP2</i>	-0,39	3,53E-04	1,37E-02
3460528	<i>HS.122125</i>	-0,39	3,47E-04	1,36E-02
1430689	<i>LOC55908</i>	-0,39	3,45E-04	1,35E-02
5870372	<i>UGT2B28</i>	-0,39	3,44E-04	1,35E-02
7000754	<i>AMY2B</i>	-0,39	3,44E-04	1,35E-02
6590338	<i>LOC401623</i>	-0,39	3,43E-04	1,35E-02
3440189	<i>ZBTB20</i>	-0,39	3,41E-04	1,34E-02
5860187	<i>PHYH</i>	-0,39	3,39E-04	1,34E-02
450300	<i>ANKFY1</i>	-0,39	3,38E-04	1,33E-02
1990717	<i>C10RF63</i>	-0,39	3,38E-04	1,33E-02
730392	<i>HS.543842</i>	-0,39	3,36E-04	1,33E-02

3830274	<i>CROT</i>	-0,39	3,34E-04	1,33E-02
6370674	<i>TUBE1</i>	-0,39	3,32E-04	1,32E-02
4180630	<i>HS.439050</i>	-0,39	3,32E-04	1,32E-02
3310259	<i>LOC648852</i>	-0,39	3,31E-04	1,32E-02
1260601	<i>ST6GAL1</i>	-0,39	3,29E-04	1,31E-02
6760192	<i>CHP</i>	-0,39	3,25E-04	1,30E-02
6110356	<i>RPS14</i>	-0,39	3,17E-04	1,27E-02
4390576	<i>DFFA</i>	-0,39	3,16E-04	1,27E-02
3930082	<i>FLJ12355</i>	-0,39	3,12E-04	1,25E-02
450161	<i>FAHD1</i>	-0,39	3,12E-04	1,25E-02
2510209	<i>KDELR1</i>	-0,39	3,06E-04	1,24E-02
870128	<i>ZKSCAN1</i>	-0,39	3,01E-04	1,22E-02
5490671	<i>XAB2</i>	-0,39	3,00E-04	1,22E-02
3370121	<i>LASS2</i>	-0,39	2,99E-04	1,21E-02
4860500	<i>LOC652968</i>	-0,39	2,95E-04	1,20E-02
7210450	<i>LMO4</i>	-0,39	2,94E-04	1,20E-02
6370682	<i>GRIPAP1</i>	-0,39	2,93E-04	1,20E-02
6560239	<i>CYP4F12</i>	-0,39	2,91E-04	1,19E-02
2060110	<i>TDP1</i>	-0,39	2,91E-04	1,19E-02
7150162	<i>MRPS25</i>	-0,39	2,90E-04	1,19E-02
3450114	<i>FAM69B</i>	-0,39	2,89E-04	1,19E-02
6350324	<i>GLYAT</i>	-0,39	2,87E-04	1,18E-02
7200021	<i>CUL4A</i>	-0,39	2,87E-04	1,18E-02
6770647	<i>TLK1</i>	-0,39	2,86E-04	1,18E-02
4920682	<i>GLYCTK</i>	-0,39	2,83E-04	1,17E-02
6420730	<i>RPL9</i>	-0,39	2,82E-04	1,16E-02
650349	<i>RPS28</i>	-0,39	2,80E-04	1,15E-02
4050377	<i>LOC648622</i>	-0,39	2,77E-04	1,15E-02
2260376	<i>C14ORF131</i>	-0,39	2,76E-04	1,14E-02
990687	<i>STOX2</i>	-0,39	2,75E-04	1,14E-02
6900053	<i>PPFIBP2</i>	-0,39	2,74E-04	1,14E-02
3140047	<i>CROP</i>	-0,39	2,72E-04	1,13E-02

6100630	<i>MUM1</i>	-0,39	2,70E-04	1,13E-02
70767	<i>BAIAP2</i>	-0,39	2,70E-04	1,13E-02
3290187	<i>PCMTD1</i>	-0,39	2,68E-04	1,12E-02
1660368	<i>PKN1</i>	-0,39	2,66E-04	1,11E-02
3780441	<i>PHLDB2</i>	-0,39	2,65E-04	1,11E-02
2230411	<i>SMEK2</i>	-0,39	2,65E-04	1,11E-02
1850086	<i>HS.547580</i>	-0,39	2,60E-04	1,09E-02
5220504	<i>CHCHD7</i>	-0,39	2,59E-04	1,09E-02
2810687	<i>LRRC14</i>	-0,39	2,57E-04	1,08E-02
5860369	<i>KIAA0564</i>	-0,39	2,54E-04	1,08E-02
3610112	<i>RAB11FIP3</i>	-0,39	2,50E-04	1,06E-02
3120328	<i>GUCY2E</i>	-0,39	2,49E-04	1,06E-02
3370687	<i>CGGBP1</i>	-0,39	2,47E-04	1,05E-02
1580338	<i>KIAA1267</i>	-0,39	2,46E-04	1,05E-02
7400224	<i>CDKN2AIPNL</i>	-0,40	2,39E-04	1,02E-02
7000424	<i>LOC732075</i>	-0,40	2,37E-04	1,02E-02
6960397	<i>EPHX2</i>	-0,40	2,37E-04	1,02E-02
4010411	<i>RHOT1</i>	-0,40	2,35E-04	1,01E-02
150092	<i>RBM33</i>	-0,40	2,35E-04	1,01E-02
2760349	<i>C5ORF33</i>	-0,40	2,34E-04	1,01E-02
3780041	<i>TIAF1</i>	-0,40	2,31E-04	9,98E-03
3460039	<i>RUNDCC2C</i>	-0,40	2,31E-04	9,97E-03
1410400	<i>HNRNPU</i>	-0,40	2,28E-04	9,90E-03
6040204	<i>ATP11C</i>	-0,40	2,26E-04	9,83E-03
6510025	<i>NSMCE4A</i>	-0,40	2,22E-04	9,71E-03
870202	<i>TNFSF10</i>	-0,40	2,21E-04	9,67E-03
5960450	<i>SLC35C2</i>	-0,40	2,21E-04	9,66E-03
430400	<i>GLT8D1</i>	-0,40	2,17E-04	9,53E-03
270544	<i>NR2C1</i>	-0,40	2,16E-04	9,49E-03
1580537	<i>PCBP2</i>	-0,40	2,15E-04	9,47E-03
270593	<i>GPER</i>	-0,40	2,15E-04	9,47E-03
3400451	<i>KIF18B</i>	-0,40	2,14E-04	9,45E-03

5420706	<i>LOC643011</i>	-0,40	2,10E-04	9,30E-03
1400025	<i>PTOV1</i>	-0,40	2,10E-04	9,30E-03
7510551	<i>FLJ21986</i>	-0,40	2,09E-04	9,29E-03
5090040	<i>ING1</i>	-0,40	2,08E-04	9,29E-03
990273	<i>RPL37A</i>	-0,40	2,08E-04	9,29E-03
7400100	<i>SUOX</i>	-0,40	2,07E-04	9,26E-03
6130438	<i>GSTCD</i>	-0,40	2,06E-04	9,24E-03
1110221	<i>LOC554235</i>	-0,40	2,05E-04	9,20E-03
1690326	<i>PGRMC2</i>	-0,40	2,05E-04	9,20E-03
2070706	<i>KRIT1</i>	-0,40	2,05E-04	9,19E-03
1090292	<i>BMI1</i>	-0,40	2,03E-04	9,13E-03
6510196	<i>TRIM24</i>	-0,40	2,02E-04	9,08E-03
3180400	<i>EGFL7</i>	-0,40	2,00E-04	9,04E-03
4290349	<i>LOC643949</i>	-0,40	2,00E-04	9,03E-03
240132	<i>ZNF627</i>	-0,40	2,00E-04	9,03E-03
6900437	<i>FLJ40722</i>	-0,40	1,98E-04	8,98E-03
5870403	<i>CEPT1</i>	-0,40	1,98E-04	8,96E-03
1170228	<i>ACY3</i>	-0,40	1,97E-04	8,94E-03
4050195	<i>FAM10A4</i>	-0,40	1,94E-04	8,83E-03
4200605	<i>XRCC2</i>	-0,40	1,92E-04	8,78E-03
3990630	<i>DCDC5</i>	-0,40	1,91E-04	8,74E-03
5270064	<i>SHROOM4</i>	-0,40	1,89E-04	8,67E-03
3800041	<i>RCOR3</i>	-0,40	1,89E-04	8,67E-03
3850273	<i>PEBP1</i>	-0,40	1,88E-04	8,66E-03
110240	<i>C12ORF29</i>	-0,40	1,87E-04	8,62E-03
3440630	<i>ESPN</i>	-0,40	1,84E-04	8,50E-03
5860546	<i>ZNF22</i>	-0,40	1,84E-04	8,49E-03
4220327	<i>MRPL38</i>	-0,40	1,83E-04	8,46E-03
7380390	<i>LOC90586</i>	-0,40	1,82E-04	8,44E-03
5720575	<i>C10ORF114</i>	-0,40	1,82E-04	8,44E-03
4560762	<i>ST13</i>	-0,40	1,81E-04	8,41E-03
7510553	<i>C10RF83</i>	-0,40	1,79E-04	8,34E-03

2680474	<i>SUMF2</i>	-0,40	1,78E-04	8,34E-03
6130273	<i>FAM76B</i>	-0,40	1,78E-04	8,33E-03
6220180	<i>CABC1</i>	-0,40	1,78E-04	8,32E-03
6220332	<i>SLC6A12</i>	-0,40	1,78E-04	8,32E-03
630634	<i>ZNF544</i>	-0,40	1,77E-04	8,32E-03
620369	<i>PPP2R2B</i>	-0,40	1,73E-04	8,18E-03
5490601	<i>SLC40A1</i>	-0,40	1,71E-04	8,10E-03
730379	<i>LOC388621</i>	-0,40	1,68E-04	8,00E-03
520484	<i>USP15</i>	-0,40	1,68E-04	7,99E-03
4180142	<i>KIAA1370</i>	-0,40	1,66E-04	7,93E-03
3840360	<i>LARP4</i>	-0,40	1,65E-04	7,90E-03
1940494	<i>ZNF133</i>	-0,40	1,65E-04	7,88E-03
380132	<i>ZNF483</i>	-0,40	1,63E-04	7,82E-03
4260093	<i>ZCCHC11</i>	-0,41	1,58E-04	7,63E-03
2480768	<i>DHFRL1</i>	-0,41	1,57E-04	7,61E-03
2480044	<i>MTX2</i>	-0,41	1,57E-04	7,61E-03
5570246	<i>DISP1</i>	-0,41	1,56E-04	7,57E-03
610091	<i>C4ORF8</i>	-0,41	1,51E-04	7,36E-03
5900452	<i>CHST7</i>	-0,41	1,48E-04	7,26E-03
2710324	<i>HELZ</i>	-0,41	1,48E-04	7,25E-03
7000376	<i>C20ORF191</i>	-0,41	1,47E-04	7,22E-03
6760450	<i>CAPS</i>	-0,41	1,46E-04	7,18E-03
1260435	<i>ZNF511</i>	-0,41	1,45E-04	7,12E-03
3800725	<i>SPHK2</i>	-0,41	1,44E-04	7,10E-03
7650343	<i>USP47</i>	-0,41	1,42E-04	7,02E-03
5270139	<i>PEX11G</i>	-0,41	1,40E-04	6,96E-03
6290129	<i>DMD</i>	-0,41	1,40E-04	6,95E-03
6510403	<i>GLULD1</i>	-0,41	1,39E-04	6,93E-03
2000327	<i>GRB14</i>	-0,41	1,39E-04	6,91E-03
3170300	<i>MTSS1</i>	-0,41	1,37E-04	6,85E-03
5570348	<i>SH3RF2</i>	-0,41	1,29E-04	6,51E-03
6960300	HS.279842	-0,41	1,28E-04	6,47E-03

6560327	<i>ACAD10</i>	-0,41	1,27E-04	6,43E-03
4120008	<i>ZNF33B</i>	-0,41	1,27E-04	6,43E-03
2070184	<i>NTHL1</i>	-0,41	1,24E-04	6,32E-03
60403	<i>ZFAND2B</i>	-0,41	1,23E-04	6,31E-03
7610402	<i>HS.561735</i>	-0,41	1,22E-04	6,27E-03
4230228	<i>CDK5RAP3</i>	-0,41	1,22E-04	6,27E-03
1850561	<i>LMOD3</i>	-0,41	1,22E-04	6,27E-03
3450750	<i>ZNF549</i>	-0,41	1,22E-04	6,27E-03
990224	<i>FBXL19</i>	-0,41	1,22E-04	6,27E-03
2060482	<i>KIAA0907</i>	-0,41	1,21E-04	6,24E-03
1570138	<i>APTX</i>	-0,41	1,21E-04	6,24E-03
1820008	<i>METTL7A</i>	-0,41	1,21E-04	6,22E-03
5220309	<i>RILPL1</i>	-0,41	1,19E-04	6,17E-03
2480280	<i>SORD</i>	-0,41	1,18E-04	6,12E-03
3170450	<i>MBTD1</i>	-0,41	1,17E-04	6,10E-03
540382	<i>RSAD1</i>	-0,41	1,17E-04	6,10E-03
1940301	<i>MARVELD2</i>	-0,41	1,17E-04	6,09E-03
1500148	<i>MAP3K7IP1</i>	-0,41	1,17E-04	6,09E-03
3890681	<i>SLC41A3</i>	-0,41	1,16E-04	6,04E-03
6200615	<i>SAPS2</i>	-0,41	1,13E-04	5,94E-03
2510441	<i>TBC1D17</i>	-0,41	1,13E-04	5,94E-03
6550452	<i>ACSM2A</i>	-0,41	1,13E-04	5,94E-03
6020136	<i>FAHD2A</i>	-0,41	1,13E-04	5,94E-03
4040373	<i>TSC1</i>	-0,41	1,13E-04	5,94E-03
1010647	<i>TP53I13</i>	-0,41	1,12E-04	5,91E-03
1580093	<i>SCYL1</i>	-0,41	1,11E-04	5,87E-03
4900474	<i>MED23</i>	-0,41	1,10E-04	5,83E-03
1400435	<i>TOMM70A</i>	-0,41	1,09E-04	5,81E-03
7000240	<i>TTC14</i>	-0,41	1,09E-04	5,81E-03
6940484	<i>ASPSCR1</i>	-0,41	1,09E-04	5,81E-03
3460731	<i>TCP10L</i>	-0,41	1,08E-04	5,78E-03
2340632	<i>INADL</i>	-0,41	1,08E-04	5,77E-03

520017	<i>PAPD5</i>	-0,41	1,07E-04	5,71E-03
1990433	<i>RMI1</i>	-0,41	1,06E-04	5,70E-03
780187	<i>C6ORF130</i>	-0,41	1,06E-04	5,70E-03
5810564	<i>CMBL</i>	-0,42	1,05E-04	5,68E-03
2940372	<i>DTWD2</i>	-0,42	1,05E-04	5,68E-03
6270634	<i>TMEM120A</i>	-0,42	1,05E-04	5,66E-03
6580110	<i>PAH</i>	-0,42	1,04E-04	5,65E-03
770093	<i>HS.160602</i>	-0,42	1,03E-04	5,58E-03
1090646	<i>FAM119A</i>	-0,42	1,02E-04	5,57E-03
4280343	<i>COASY</i>	-0,42	1,02E-04	5,56E-03
1070358	<i>HEXIM2</i>	-0,42	1,01E-04	5,54E-03
290465	<i>FBXW5</i>	-0,42	1,00E-04	5,49E-03
3370128	<i>TNFSF15</i>	-0,42	1,00E-04	5,49E-03
1410152	<i>GJB1</i>	-0,42	9,93E-05	5,45E-03
6280521	<i>LOC648399</i>	-0,42	9,86E-05	5,43E-03
630202	<i>DFNB59</i>	-0,42	9,84E-05	5,43E-03
2570358	<i>HNRPDL</i>	-0,42	9,81E-05	5,42E-03
7570209	<i>ARMC1</i>	-0,42	9,80E-05	5,42E-03
6380673	<i>TUBE1</i>	-0,42	9,70E-05	5,38E-03
2470722	<i>TDRD1</i>	-0,42	9,70E-05	5,38E-03
4810445	<i>PCOLCE2</i>	-0,42	9,69E-05	5,38E-03
2750328	<i>PRNPIP</i>	-0,42	9,67E-05	5,38E-03
2360626	<i>GPR175</i>	-0,42	9,59E-05	5,35E-03
20440	<i>BHMT2</i>	-0,42	9,57E-05	5,34E-03
5290482	<i>IFP38</i>	-0,42	9,50E-05	5,32E-03
6220202	<i>ZADH1</i>	-0,42	9,50E-05	5,32E-03
4590154	<i>ZDHHC8</i>	-0,42	9,34E-05	5,25E-03
2510068	<i>C10RF51</i>	-0,42	9,14E-05	5,16E-03
6180538	<i>GDI2</i>	-0,42	9,13E-05	5,16E-03
6650564	<i>RPS27</i>	-0,42	9,09E-05	5,15E-03
5560328	<i>SLC38A3</i>	-0,42	9,02E-05	5,12E-03
1850575	<i>CHD6</i>	-0,42	9,01E-05	5,12E-03

1090280	ZNF680	-0,42	8,98E-05	5,12E-03
5810598	HS.556082	-0,42	8,86E-05	5,06E-03
5490593	BDH1	-0,42	8,84E-05	5,06E-03
3290044	TTC27	-0,42	8,58E-05	4,95E-03
6290672	LOC728417	-0,42	8,48E-05	4,89E-03
830609	RPL5	-0,42	8,33E-05	4,82E-03
1030348	CDKN1B	-0,42	8,27E-05	4,80E-03
6180408	NOSIP	-0,42	8,19E-05	4,77E-03
3780411	C10RF43	-0,42	8,10E-05	4,72E-03
7000672	AGL	-0,42	8,03E-05	4,69E-03
4060692	SUCLG2	-0,42	7,95E-05	4,65E-03
360706	GRTP1	-0,42	7,93E-05	4,65E-03
1710546	CHST12	-0,42	7,83E-05	4,60E-03
630280	PRKCSH	-0,42	7,68E-05	4,54E-03
3870068	NR1I2	-0,42	7,66E-05	4,53E-03
4560288	ERBB3	-0,42	7,59E-05	4,52E-03
7380619	LOC728037	-0,42	7,58E-05	4,52E-03
1170523	TRIM13	-0,42	7,54E-05	4,52E-03
6550754	EVL	-0,42	7,51E-05	4,50E-03
1450403	TMEM129	-0,42	7,30E-05	4,41E-03
7160747	C14ORF153	-0,42	7,27E-05	4,40E-03
6110053	ZNF32	-0,42	7,21E-05	4,38E-03
2600286	CCS	-0,42	7,20E-05	4,37E-03
5090392	GMPR2	-0,42	7,10E-05	4,32E-03
1740300	TFR2	-0,42	7,07E-05	4,32E-03
870390	DEPDC6	-0,42	7,02E-05	4,30E-03
7150132	PNN	-0,42	7,00E-05	4,29E-03
3450537	DGAT2	-0,43	6,75E-05	4,17E-03
6590139	LASS4	-0,43	6,71E-05	4,15E-03
3170519	HARS2	-0,43	6,60E-05	4,08E-03
2000288	CCDC25	-0,43	6,54E-05	4,05E-03
7650504	CTAGE5	-0,43	6,41E-05	4,00E-03

3440431	ZNF682	-0,43	6,40E-05	4,00E-03
5090445	RNF128	-0,43	6,40E-05	4,00E-03
1990468	ADD3	-0,43	6,39E-05	4,00E-03
3310400	IGF1	-0,43	6,37E-05	4,00E-03
6940647	C16ORF58	-0,43	6,37E-05	4,00E-03
4640333	ZNF76	-0,43	6,33E-05	3,99E-03
4900689	LOC63920	-0,43	6,19E-05	3,92E-03
6660201	GCDH	-0,43	6,04E-05	3,84E-03
2690524	BLCAP	-0,43	6,01E-05	3,83E-03
3390187	EFNA1	-0,43	6,00E-05	3,83E-03
540156	PVRL3	-0,43	5,92E-05	3,79E-03
7000341	LOC647834	-0,43	5,89E-05	3,78E-03
1170255	LARGE	-0,43	5,77E-05	3,71E-03
3140022	ZSCAN2	-0,43	5,76E-05	3,71E-03
3940593	MFSD11	-0,43	5,73E-05	3,69E-03
110390	SLC25A34	-0,43	5,62E-05	3,65E-03
1980762	SAT2	-0,43	5,50E-05	3,58E-03
4480575	FOXO4	-0,43	5,50E-05	3,58E-03
3990739	KCNK5	-0,43	5,48E-05	3,57E-03
4150575	LETMD1	-0,43	5,44E-05	3,55E-03
5340450	LOC116236	-0,43	5,40E-05	3,53E-03
6520523	IL27	-0,43	5,34E-05	3,49E-03
4900333	HAGH	-0,43	5,32E-05	3,49E-03
6980156	CIAO1	-0,43	5,32E-05	3,49E-03
1570291	SLTM	-0,43	5,28E-05	3,47E-03
2100215	MAF	-0,43	5,27E-05	3,47E-03
4120341	ITGAE	-0,43	5,23E-05	3,45E-03
3940056	AIG1	-0,43	5,20E-05	3,43E-03
3190626	MAGT1	-0,43	5,02E-05	3,33E-03
2690709	VIPR1	-0,43	4,99E-05	3,32E-03
3170398	MAT2B	-0,43	4,91E-05	3,28E-03
7000224	SIRT1	-0,43	4,90E-05	3,28E-03

670475	<i>C4ORF19</i>	-0,43	4,90E-05	3,28E-03
7610356	<i>SLC22A2</i>	-0,43	4,79E-05	3,22E-03
50601	<i>PURA</i>	-0,43	4,69E-05	3,15E-03
6550689	<i>WDR23</i>	-0,43	4,64E-05	3,13E-03
10343	<i>MRPS5</i>	-0,43	4,58E-05	3,10E-03
3440500	<i>ELP3</i>	-0,43	4,54E-05	3,08E-03
1170709	<i>CDH2</i>	-0,43	4,52E-05	3,07E-03
5270743	<i>PTPRA</i>	-0,43	4,44E-05	3,01E-03
6900014	<i>RNUXA</i>	-0,44	4,42E-05	3,01E-03
5260440	<i>ST3GAL6</i>	-0,44	4,42E-05	3,01E-03
20348	<i>HS.340945</i>	-0,44	4,41E-05	3,01E-03
2100347	<i>ZNF384</i>	-0,44	4,40E-05	3,01E-03
3390348	<i>KIAA1772</i>	-0,44	4,35E-05	3,00E-03
5820343	<i>ERCC5</i>	-0,44	4,34E-05	3,00E-03
4220053	<i>SKAP1</i>	-0,44	4,19E-05	2,91E-03
5260343	<i>SCG5</i>	-0,44	4,19E-05	2,91E-03
3140167	<i>ZNF146</i>	-0,44	4,10E-05	2,86E-03
2600072	<i>BOK</i>	-0,44	4,09E-05	2,86E-03
7150240	<i>TRIM2</i>	-0,44	4,06E-05	2,84E-03
2470577	<i>ZCWPW1</i>	-0,44	4,04E-05	2,83E-03
3930333	<i>HS.28705</i>	-0,44	4,02E-05	2,83E-03
3850730	<i>BSN</i>	-0,44	3,96E-05	2,79E-03
5310767	<i>LRP5</i>	-0,44	3,92E-05	2,77E-03
4290110	<i>CYP4F3</i>	-0,44	3,87E-05	2,75E-03
6420450	<i>LIME1</i>	-0,44	3,84E-05	2,74E-03
610768	<i>TAPT1</i>	-0,44	3,78E-05	2,73E-03
1190221	<i>REXO4</i>	-0,44	3,75E-05	2,71E-03
70520	<i>FGFR4</i>	-0,44	3,75E-05	2,71E-03
2230424	<i>RBM25</i>	-0,44	3,74E-05	2,71E-03
2100546	<i>ALDH8A1</i>	-0,44	3,66E-05	2,67E-03
4890553	<i>RORC</i>	-0,44	3,65E-05	2,67E-03
7040307	<i>UQCC</i>	-0,44	3,54E-05	2,60E-03

6590082	<i>HS.542993</i>	-0,44	3,51E-05	2,58E-03
1260327	<i>DOCK4</i>	-0,44	3,48E-05	2,57E-03
5080682	<i>CTDSP1</i>	-0,44	3,47E-05	2,56E-03
5810113	<i>HS.282795</i>	-0,44	3,46E-05	2,56E-03
6130020	<i>BLZF1</i>	-0,44	3,46E-05	2,56E-03
870451	<i>ASB8</i>	-0,44	3,42E-05	2,54E-03
3130296	<i>AMY2A</i>	-0,44	3,39E-05	2,52E-03
2640463	<i>LOC652541</i>	-0,44	3,38E-05	2,52E-03
3610519	<i>OFD1</i>	-0,44	3,37E-05	2,52E-03
3190048	<i>ZNF688</i>	-0,44	3,30E-05	2,47E-03
5490603	<i>LOC401019</i>	-0,44	3,26E-05	2,46E-03
2810709	<i>SLC22A7</i>	-0,44	3,24E-05	2,45E-03
520706	<i>UBE4A</i>	-0,44	3,24E-05	2,45E-03
4050491	<i>TCEA3</i>	-0,44	3,22E-05	2,44E-03
6860026	<i>ZNF358</i>	-0,44	3,13E-05	2,38E-03
6040017	<i>FLJ20699</i>	-0,44	3,11E-05	2,37E-03
6840356	<i>MGEA5</i>	-0,44	3,05E-05	2,33E-03
1410736	<i>TMEM42</i>	-0,44	2,98E-05	2,29E-03
1170398	<i>C100RF57</i>	-0,44	2,89E-05	2,23E-03
2350044	<i>LIPC</i>	-0,44	2,87E-05	2,23E-03
5720474	<i>TMCO6</i>	-0,44	2,83E-05	2,21E-03
1430053	<i>TTLL12</i>	-0,44	2,82E-05	2,21E-03
3450086	<i>LOC149134</i>	-0,44	2,81E-05	2,20E-03
510209	<i>LOC643310</i>	-0,45	2,74E-05	2,16E-03
6450300	<i>GEMIN4</i>	-0,45	2,73E-05	2,15E-03
3870301	<i>SORBS3</i>	-0,45	2,72E-05	2,15E-03
4210687	<i>ZNF485</i>	-0,45	2,54E-05	2,04E-03
4060433	<i>MAOB</i>	-0,45	2,45E-05	1,98E-03
630215	<i>RAD51</i>	-0,45	2,45E-05	1,98E-03
1400070	<i>TBC1D9</i>	-0,45	2,36E-05	1,93E-03
7510634	<i>GPRC5C</i>	-0,45	2,33E-05	1,91E-03
6380010	<i>HS.222909</i>	-0,45	2,32E-05	1,91E-03

4070193	HS.291319	-0,45	2,32E-05	1,91E-03
2570577	KLF15	-0,45	2,31E-05	1,90E-03
6660544	C100RF65	-0,45	2,30E-05	1,90E-03
5340719	HS.163752	-0,45	2,27E-05	1,88E-03
2000669	ARHGAP10	-0,45	2,27E-05	1,88E-03
2140753	RPL14	-0,45	2,23E-05	1,85E-03
4120722	NOL8	-0,45	2,22E-05	1,85E-03
5290193	KCTD6	-0,45	2,20E-05	1,83E-03
4610484	C14ORF93	-0,45	2,17E-05	1,81E-03
6060402	HS.571741	-0,45	2,11E-05	1,77E-03
2940528	OPRS1	-0,45	2,10E-05	1,76E-03
1240446	CAT	-0,45	2,10E-05	1,76E-03
3180154	HFE2	-0,45	2,07E-05	1,75E-03
620202	OSGIN1	-0,45	2,07E-05	1,75E-03
10594	PECI	-0,45	2,02E-05	1,72E-03
1510722	RNF130	-0,45	1,99E-05	1,70E-03
5290762	UTS2	-0,45	1,96E-05	1,68E-03
1050386	SMUG1	-0,45	1,94E-05	1,67E-03
4560497	ETNK2	-0,45	1,91E-05	1,66E-03
5420373	FUT6	-0,45	1,91E-05	1,66E-03
520053	OXER1	-0,45	1,86E-05	1,63E-03
5810059	HS.18849	-0,45	1,85E-05	1,62E-03
1170482	PEX14	-0,45	1,76E-05	1,55E-03
1070709	PLEKHH3	-0,46	1,71E-05	1,52E-03
2710196	UTP6	-0,46	1,71E-05	1,52E-03
1430767	ING4	-0,46	1,71E-05	1,52E-03
1820482	NDUFB10	-0,46	1,71E-05	1,52E-03
840358	EXOSC10	-0,46	1,69E-05	1,51E-03
2470634	PBX3	-0,46	1,69E-05	1,51E-03
5290403	WDR59	-0,46	1,68E-05	1,51E-03
670273	DPYD	-0,46	1,65E-05	1,49E-03
2140600	TTC36	-0,46	1,59E-05	1,44E-03

7380202	<i>NR2F2</i>	-0,46	1,56E-05	1,42E-03
6620050	<i>IFFO</i>	-0,46	1,55E-05	1,42E-03
2900079	<i>LOC647389</i>	-0,46	1,55E-05	1,42E-03
3420195	<i>ATPBD1B</i>	-0,46	1,54E-05	1,42E-03
6650324	<i>PLEKHA1</i>	-0,46	1,54E-05	1,42E-03
6650121	<i>C10RF71</i>	-0,46	1,54E-05	1,42E-03
1850360	<i>EIF4EBP3</i>	-0,46	1,51E-05	1,40E-03
2810615	<i>GRB10</i>	-0,46	1,50E-05	1,39E-03
4560019	<i>MBOAT2</i>	-0,46	1,48E-05	1,38E-03
7650615	<i>GRHPR</i>	-0,46	1,46E-05	1,36E-03
5820427	<i>PDIK1L</i>	-0,46	1,45E-05	1,36E-03
3180347	<i>LOC285359</i>	-0,46	1,45E-05	1,36E-03
2480132	<i>LOC554203</i>	-0,46	1,44E-05	1,36E-03
1010600	<i>LRRC3</i>	-0,46	1,43E-05	1,34E-03
2320392	<i>C12ORF65</i>	-0,46	1,37E-05	1,29E-03
3830519	<i>MKKS</i>	-0,46	1,33E-05	1,27E-03
840021	<i>LOC643692</i>	-0,46	1,33E-05	1,27E-03
3940309	<i>CDAN1</i>	-0,46	1,21E-05	1,17E-03
1770079	<i>LOC440350</i>	-0,46	1,21E-05	1,17E-03
1580356	<i>TMED1</i>	-0,46	1,21E-05	1,17E-03
7550431	<i>REV1</i>	-0,46	1,20E-05	1,17E-03
1440091	<i>GON4L</i>	-0,46	1,20E-05	1,17E-03
3290475	<i>NFYC</i>	-0,46	1,18E-05	1,15E-03
5130682	<i>PRNPIP</i>	-0,46	1,17E-05	1,15E-03
7570553	<i>POLM</i>	-0,46	1,16E-05	1,14E-03
7560164	<i>GCAT</i>	-0,46	1,16E-05	1,14E-03
7040519	<i>FOLH1</i>	-0,46	1,11E-05	1,11E-03
2000494	<i>AR</i>	-0,47	1,08E-05	1,08E-03
1660564	<i>SLC6A1</i>	-0,47	1,05E-05	1,06E-03
60427	<i>NUCB2</i>	-0,47	1,05E-05	1,05E-03
6450605	<i>DDOST</i>	-0,47	1,03E-05	1,03E-03
450445	<i>NSUN5</i>	-0,47	9,90E-06	1,00E-03

7650689	HS.310040	-0,47	9,83E-06	1,00E-03
7380291	CYP2D7P1	-0,47	9,77E-06	1,00E-03
6940474	HS.317399	-0,47	9,69E-06	9,94E-04
3370215	ZG16	-0,47	9,24E-06	9,59E-04
870528	HS.16587	-0,47	9,22E-06	9,58E-04
7550292	SELENBP1	-0,47	9,19E-06	9,57E-04
3780240	FLJ39653	-0,47	9,15E-06	9,55E-04
4060768	DBT	-0,47	8,52E-06	9,02E-04
1440133	NGFRAP1	-0,47	8,17E-06	8,69E-04
6760661	CAPN5	-0,47	7,39E-06	7,99E-04
1710639	RBM4B	-0,47	7,26E-06	7,92E-04
2750170	SORBS2	-0,47	7,04E-06	7,73E-04
2810367	ABCB6	-0,47	6,67E-06	7,43E-04
4880113	LOC649639	-0,48	6,25E-06	7,09E-04
6510600	MLLT10	-0,48	6,01E-06	6,86E-04
2900253	HS.487766	-0,48	5,96E-06	6,82E-04
2070735	STAG3L1	-0,48	5,91E-06	6,78E-04
5860307	PRKAB2	-0,48	5,89E-06	6,77E-04
1300041	C19ORF42	-0,48	5,80E-06	6,71E-04
3420553	ENPP1	-0,48	5,79E-06	6,71E-04
2260181	SLC38A4	-0,48	5,47E-06	6,38E-04
3310592	ZNF394	-0,48	5,13E-06	6,08E-04
1510554	SPIN3	-0,48	5,09E-06	6,06E-04
6980377	MTMR15	-0,48	5,08E-06	6,06E-04
5130438	PIPOX	-0,48	4,50E-06	5,52E-04
6660240	FGFR4	-0,48	4,36E-06	5,38E-04
2970167	NSUN5C	-0,48	4,35E-06	5,38E-04
6620201	KLHL24	-0,48	4,31E-06	5,35E-04
5290474	SMARCA2	-0,48	4,14E-06	5,20E-04
3190066	ARFGAP2	-0,48	4,02E-06	5,08E-04
1230347	RERE	-0,49	3,77E-06	4,80E-04
4040719	BA16L21.2.1	-0,49	3,72E-06	4,75E-04

4060136	<i>SLTM</i>	-0,49	3,69E-06	4,72E-04
2940113	<i>AGL</i>	-0,49	3,68E-06	4,72E-04
270093	<i>MYO18A</i>	-0,49	3,61E-06	4,67E-04
580598	<i>ANKZF1</i>	-0,49	3,56E-06	4,63E-04
4060669	<i>CCDC76</i>	-0,49	3,53E-06	4,61E-04
4570575	<i>ST7</i>	-0,49	3,42E-06	4,52E-04
3140408	<i>PPP1R16A</i>	-0,49	3,15E-06	4,22E-04
4250167	<i>SOX13</i>	-0,49	3,03E-06	4,09E-04
1780348	<i>FH</i>	-0,49	2,98E-06	4,03E-04
6330653	<i>FLJ45244</i>	-0,49	2,92E-06	3,97E-04
6060601	<i>HS.536664</i>	-0,49	2,79E-06	3,83E-04
130041	<i>NR1I3</i>	-0,49	2,78E-06	3,82E-04
2230376	<i>C4ORF34</i>	-0,49	2,73E-06	3,78E-04
3800079	<i>C19ORF56</i>	-0,49	2,60E-06	3,63E-04
830598	<i>CLK2</i>	-0,49	2,54E-06	3,56E-04
1770148	<i>FLJ20444</i>	-0,49	2,40E-06	3,38E-04
7200195	<i>TBX3</i>	-0,49	2,39E-06	3,38E-04
1710168	<i>NDUFS3</i>	-0,50	2,23E-06	3,22E-04
4480519	<i>EDEM2</i>	-0,50	2,22E-06	3,21E-04
3140138	<i>C12ORF47</i>	-0,50	2,18E-06	3,18E-04
5340138	<i>MRPS18B</i>	-0,50	2,16E-06	3,17E-04
6290575	<i>ABCG5</i>	-0,50	2,11E-06	3,11E-04
240035	<i>RUND C3B</i>	-0,50	2,08E-06	3,06E-04
5810273	<i>LOC492311</i>	-0,50	2,08E-06	3,06E-04
2710358	<i>ENOSF1</i>	-0,50	1,79E-06	2,72E-04
2370594	<i>GSTA5</i>	-0,50	1,65E-06	2,55E-04
7100274	<i>ALDH6A1</i>	-0,50	1,62E-06	2,50E-04
4280167	<i>ZNF500</i>	-0,50	1,58E-06	2,47E-04
5490270	<i>LOC92270</i>	-0,50	1,54E-06	2,42E-04
5390148	<i>LOC642333</i>	-0,50	1,49E-06	2,35E-04
7210092	<i>TRIT1</i>	-0,50	1,48E-06	2,34E-04
3780068	<i>ATPIF1</i>	-0,50	1,36E-06	2,18E-04

2490730	<i>SF4</i>	-0,51	1,27E-06	2,07E-04
4850576	<i>SLCO1B3</i>	-0,51	1,26E-06	2,06E-04
1090367	<i>BIVM</i>	-0,51	1,23E-06	2,03E-04
2070279	<i>PIGV</i>	-0,51	1,19E-06	1,98E-04
650020	<i>SYNJ1</i>	-0,51	1,17E-06	1,96E-04
2120068	<i>MTMR4</i>	-0,51	9,98E-07	1,72E-04
7000474	<i>GARNL1</i>	-0,51	9,37E-07	1,63E-04
870181	<i>LOC653314</i>	-0,51	9,30E-07	1,62E-04
5390372	<i>C2ORF64</i>	-0,51	9,25E-07	1,62E-04
2640619	<i>ZNF91</i>	-0,51	8,92E-07	1,56E-04
3990608	<i>MAN2A1</i>	-0,51	7,69E-07	1,38E-04
5870605	<i>HS.145049</i>	-0,51	7,68E-07	1,38E-04
6580612	<i>NUP43</i>	-0,51	7,55E-07	1,38E-04
3190338	<i>HDHD3</i>	-0,52	7,33E-07	1,34E-04
5820202	<i>LOC644131</i>	-0,52	6,70E-07	1,25E-04
4850538	<i>PAOX</i>	-0,52	5,78E-07	1,10E-04
5090603	<i>FAM73B</i>	-0,52	5,57E-07	1,08E-04
4260377	<i>HAX1</i>	-0,52	5,26E-07	1,04E-04
2070189	<i>ZNF451</i>	-0,52	4,50E-07	9,07E-05
5810619	<i>TADA1L</i>	-0,52	4,44E-07	8,98E-05
6450722	<i>SETDB1</i>	-0,53	3,87E-07	8,11E-05
6350341	<i>SDHAP3</i>	-0,53	3,22E-07	6,92E-05
6480674	<i>HCN3</i>	-0,53	3,08E-07	6,82E-05
7320646	<i>EPB41L5</i>	-0,53	2,88E-07	6,53E-05
7550192	<i>SLC16A10</i>	-0,53	2,41E-07	5,61E-05
1470753	<i>PIK3R1</i>	-0,53	2,41E-07	5,61E-05
2100431	<i>RCN3</i>	-0,53	2,38E-07	5,61E-05
1090204	<i>TTC17</i>	-0,54	1,99E-07	4,92E-05
1980180	<i>C9ORF95</i>	-0,54	1,86E-07	4,69E-05
2630619	<i>RNF20</i>	-0,54	1,83E-07	4,65E-05
70161	<i>PKD2</i>	-0,54	1,64E-07	4,27E-05
1580601	<i>USPL1</i>	-0,54	1,58E-07	4,18E-05

5960196	<i>MOGAT1</i>	-0,54	1,35E-07	3,75E-05
940500	<i>CLDN14</i>	-0,54	1,34E-07	3,74E-05
6060553	<i>RBP5</i>	-0,55	9,86E-08	3,02E-05
670397	<i>BRD8</i>	-0,55	9,70E-08	3,00E-05
4070091	<i>RORC</i>	-0,55	9,08E-08	2,87E-05
1170112	<i>LCAT</i>	-0,55	8,69E-08	2,82E-05
1190673	<i>LMAN2L</i>	-0,55	8,46E-08	2,79E-05
4060543	<i>SEMA4G</i>	-0,55	7,59E-08	2,60E-05
5960678	<i>NISCH</i>	-0,55	6,62E-08	2,39E-05
7210300	<i>C100RF104</i>	-0,55	6,62E-08	2,39E-05
6980253	<i>PTPLB</i>	-0,56	5,73E-08	2,12E-05
3830661	<i>HS.298873</i>	-0,56	4,49E-08	1,74E-05
6350360	<i>IMPA1</i>	-0,56	3,43E-08	1,38E-05
3840463	<i>TADA1L</i>	-0,56	3,36E-08	1,37E-05
2060228	<i>RNF43</i>	-0,57	3,12E-08	1,29E-05
2810364	<i>KLHDC2</i>	-0,57	3,11E-08	1,29E-05
1430735	<i>NET1</i>	-0,57	2,93E-08	1,25E-05
1400541	<i>SLC6A13</i>	-0,57	2,45E-08	1,07E-05
5420719	<i>C20RF42</i>	-0,57	1,77E-08	8,15E-06
4890167	<i>CHAD</i>	-0,58	8,42E-09	4,46E-06
5720154	<i>ZBTB48</i>	-0,59	6,44E-09	3,64E-06
4480114	<i>F11</i>	-0,60	3,33E-09	2,28E-06
5490524	<i>ZNF302</i>	-0,60	2,34E-09	1,73E-06
4120753	<i>ZZZ3</i>	-0,62	6,76E-10	6,32E-07
4040520	<i>HAO2</i>	-0,62	6,17E-10	5,90E-07
4810433	<i>MTMR10</i>	-0,64	1,03E-10	1,67E-07
3710711	<i>STAG3L2</i>	-0,66	1,88E-11	3,99E-08
6510661	<i>SS18L1</i>	-0,67	7,72E-12	2,22E-08

S6. DE genes between KD1 vs Mock and KD2 vs mock in HepG2 after lnc18q22.2 knockdown. 1821 genes were overlapping between KD1 vs Mock and KD2 vs Mock from which 1625 were in the same direction (this table) and 196 in opposite direction. All genes are significant at FDR<0.01.

Ensembl Gene ID	Official gene name	KD1 vs Mock (HepG2)		KD2 vs Mock (HepG2)	
		Log2 Fold Change	FDR	Log2 Fold Change	FDR
ENSG00000132031	<i>MATN3</i>	-3,73	0,00E+00	-2,77	1,01E-252
ENSG00000135919	<i>SERPINE2</i>	-2,92	7,17E-165	-2,85	5,18E-156
ENSG00000196136	<i>SERPINA3</i>	-3,53	1,17E-133	-3,81	2,62E-154
ENSG00000103888	<i>KIAA1199</i>	-2,58	1,31E-161	-2,16	1,90E-118
ENSG00000116016	<i>EPAS1</i>	-0,90	1,70E-51	-1,31	2,10E-106
ENSG00000137801	<i>THBS1</i>	-1,17	1,03E-45	-1,73	2,38E-93
ENSG00000115594	<i>IL1R1</i>	-0,89	9,34E-28	-1,62	4,80E-85
ENSG00000124762	<i>CDKN1A</i>	-0,46	6,45E-09	-1,49	2,86E-79
ENSG00000167658	<i>EEF2</i>	-0,42	3,76E-16	-0,94	2,37E-77
ENSG00000147403	<i>RPL10</i>	-0,51	4,27E-19	-1,04	1,83E-75
ENSG00000155093	<i>PTPRN2</i>	-1,66	6,09E-71	-1,64	2,08E-68
ENSG00000117394	<i>SLC2A1</i>	-2,98	0,00E+00	-1,10	6,59E-66
ENSG00000179218	<i>CALR</i>	-0,20	3,15E-03	-1,04	1,51E-62
ENSG00000257017	<i>HP</i>	-0,45	2,13E-08	-1,30	1,03E-61
ENSG00000108175	<i>ZMIZ1</i>	-0,45	1,81E-08	-1,33	7,72E-61
ENSG00000118523	<i>CTGF</i>	-1,95	8,34E-49	-2,17	6,74E-60
ENSG00000146072	<i>TNFRSF21</i>	-1,43	1,42E-69	-1,32	6,61E-59
ENSG00000171617	<i>ENC1</i>	-1,62	9,68E-116	-1,12	2,28E-56
ENSG00000188157	<i>AGRN</i>	-1,68	1,45E-125	-1,06	3,69E-52
ENSG00000139514	<i>SLC7A1</i>	-1,03	6,47E-47	-1,10	4,54E-52
ENSG00000108932	<i>LOC440459</i>	-2,76	3,25E-152	-1,43	4,12E-49
ENSG00000144677	<i>CTDSPL</i>	-1,77	1,27E-79	-1,37	1,36E-48
ENSG00000142178	<i>SIK1</i>	-1,69	1,51E-61	-1,48	3,27E-47
ENSG00000103257	<i>SLC7A5</i>	-0,31	2,84E-05	-1,01	1,12E-46
ENSG00000069702	<i>TGFBR3</i>	-1,73	4,78E-117	-1,07	6,89E-46
ENSG00000130513	<i>GDF15</i>	-1,90	1,15E-164	-0,98	1,20E-45
ENSG00000140807	<i>NKD1</i>	-0,66	2,60E-13	-1,24	4,35E-43
ENSG00000131016	<i>AKAP12</i>	-2,23	1,13E-189	-1,01	3,25E-41

ENSG00000142541	<i>RPL13A</i>	-0,78	1,99E-43	-0,76	1,49E-40
ENSG00000198561	<i>CTNND1</i>	-0,56	1,71E-17	-0,86	3,42E-40
ENSG00000143878	<i>RHOB</i>	-0,29	3,97E-04	-1,02	6,81E-40
ENSG00000185269	<i>NOTUM</i>	-2,01	6,04E-91	-1,31	1,09E-39
ENSG00000125730	<i>C3</i>	-0,70	1,81E-22	-0,94	3,12E-39
ENSG00000087916	<i>SLC6A14</i>	-3,15	1,12E-65	-2,26	3,19E-39
ENSG00000116285	<i>ERRFI1</i>	-1,82	3,94E-96	-1,16	5,61E-39
ENSG00000156535	<i>CD109</i>	-1,58	1,33E-28	-1,90	2,34E-38
ENSG00000171552	<i>BCL2L1</i>	-0,50	5,19E-18	-0,73	1,69E-36
ENSG00000021300	<i>PLEKHB1</i>	-1,17	8,76E-24	-1,50	2,97E-36
ENSG00000142534	<i>RPS11</i>	-0,76	3,65E-41	-0,71	4,87E-36
ENSG00000104760	<i>FGL1</i>	-0,77	1,56E-22	-0,98	9,83E-36
ENSG00000168386	<i>FILIP1L</i>	-2,66	3,09E-141	-1,29	1,13E-35
ENSG00000160862	<i>AZGP1</i>	-0,66	9,96E-12	-1,21	6,75E-35
ENSG00000118785	<i>SPP1</i>	-0,85	1,61E-22	-1,06	2,35E-34
ENSG00000112414	<i>GPR126</i>	-1,32	1,86E-78	-0,87	4,08E-34
ENSG00000101346	<i>POFUT1</i>	-0,55	1,58E-11	-0,98	1,35E-33
ENSG00000096433	<i>ITPR3</i>	-1,66	5,40E-51	-1,33	2,77E-33
ENSG00000115414	<i>FN1</i>	-1,07	2,14E-61	-0,79	2,78E-33
ENSG00000169696	<i>ASPSCR1</i>	-1,09	1,31E-34	-1,07	2,91E-33
ENSG00000106804	<i>C5</i>	-1,44	4,65E-97	-0,84	5,17E-33
ENSG00000049759	<i>NEDD4L</i>	-0,30	4,50E-05	-0,85	7,14E-33
ENSG00000166900	<i>STX3</i>	-0,72	4,42E-10	-1,40	1,55E-32
ENSG00000175061	<i>NCRNA00188</i>	-0,65	1,37E-16	-0,93	5,19E-32
ENSG00000083845	<i>RPS5</i>	-0,69	1,09E-26	-0,76	8,77E-32
ENSG00000132688	<i>NES</i>	-1,89	2,37E-62	-1,30	1,90E-31
ENSG00000173706	<i>HEG1</i>	-0,95	3,24E-29	-1,00	2,59E-31
ENSG00000197122	<i>SRC</i>	-0,85	7,30E-29	-0,89	5,53E-31
ENSG00000152291	<i>TGOLN2</i>	-0,44	9,26E-13	-0,71	1,05E-30
ENSG00000141458	<i>NPC1</i>	-0,99	9,75E-38	-0,89	2,02E-30
ENSG00000124766	<i>SOX4</i>	-1,03	1,28E-14	-1,56	3,46E-30
ENSG00000167470	<i>MIDN</i>	-0,99	1,98E-28	-1,02	1,23E-29

ENSG00000175215	<i>CTDSP2</i>	-0,28	4,77E-04	-0,85	1,35E-29
ENSG00000168497	<i>SDPR</i>	-1,04	9,39E-23	-1,22	1,65E-29
ENSG00000136689	<i>IL1RN</i>	-0,68	7,40E-18	-0,90	1,83E-29
ENSG00000116194	<i>ANGPTL1</i>	-2,62	9,02E-43	-2,07	1,53E-28
ENSG00000130741	<i>EIF2S3</i>	-0,75	5,41E-25	-0,81	3,92E-28
ENSG00000080618	<i>CPB2</i>	-0,55	1,36E-07	-1,15	3,95E-28
ENSG00000082781	<i>ITGB5</i>	-1,07	1,27E-51	-0,78	4,81E-28
ENSG00000117289	<i>TXNIP</i>	-1,13	6,69E-31	-1,08	5,06E-28
ENSG00000231500	<i>RPS18</i>	-0,78	2,14E-42	-0,62	5,50E-27
ENSG00000147526	<i>TACC1</i>	-1,34	4,34E-39	-1,10	1,14E-26
ENSG00000141429	<i>GALNT1</i>	-0,43	3,95E-08	-0,83	1,23E-26
ENSG00000057019	<i>DCBLD2</i>	-0,87	4,20E-31	-0,81	2,60E-26
ENSG00000155090	<i>KLF10</i>	-1,13	1,95E-24	-1,18	3,97E-26
ENSG00000076356	<i>PLXNA2</i>	-0,34	4,44E-03	-1,22	5,54E-26
ENSG00000169242	<i>EFNA1</i>	-1,18	2,91E-46	-0,88	7,64E-26
ENSG00000129422	<i>MTUS1</i>	-1,13	2,24E-55	-0,77	7,77E-26
ENSG00000063046	<i>EIF4B</i>	-0,39	5,20E-10	-0,65	8,41E-26
ENSG00000176619	<i>LMNB2</i>	-0,38	1,32E-04	-0,98	8,98E-26
ENSG00000184840	<i>TMED9</i>	-0,51	7,17E-13	-0,73	4,68E-25
ENSG00000115363	<i>FAM176A</i>	-0,66	1,69E-09	-1,15	4,69E-25
ENSG00000111371	<i>SLC38A1</i>	-1,10	1,11E-63	-0,69	5,46E-25
ENSG00000134109	<i>EDEM1</i>	-0,30	9,48E-04	-0,89	7,21E-25
ENSG00000114698	<i>PLSCR4</i>	-2,67	9,76E-44	-1,89	3,08E-24
ENSG00000143515	<i>ATP8B2</i>	-0,56	1,62E-10	-0,90	3,18E-24
ENSG00000146859	<i>TMEM140</i>	-0,47	9,12E-04	-1,40	4,60E-24
ENSG0000013364	<i>MVP</i>	-0,53	5,07E-07	-1,05	8,04E-24
ENSG00000108375	<i>RNF43</i>	-0,52	2,35E-10	-0,81	1,28E-23
ENSG00000142871	<i>CYR61</i>	-1,63	9,30E-37	-1,29	1,66E-23
ENSG00000188846	<i>RPL14</i>	-0,57	1,48E-21	-0,60	1,73E-23
ENSG00000159674	<i>SPON2</i>	-1,31	3,34E-24	-1,31	1,82E-23
ENSG00000145592	<i>RPL37</i>	-1,00	7,95E-47	-0,71	2,03E-23
ENSG00000100097	<i>LGALS1</i>	-1,35	3,41E-44	-0,96	2,55E-23

ENSG00000113739	STC2	-1,67	5,88E-69	-0,95	2,63E-23
ENSG00000003989	SLC7A2	-1,78	1,99E-88	-0,90	2,88E-23
ENSG00000142949	PTPRF	-0,59	2,39E-16	-0,71	3,11E-23
ENSG00000170889	RPS9	-0,66	1,45E-28	-0,59	4,13E-23
ENSG00000070756	PABPC1	-0,64	4,84E-24	-0,63	5,71E-23
ENSG00000111859	NEDD9	-1,58	1,20E-72	-0,88	8,09E-23
ENSG00000213853	EMP2	-0,92	9,23E-18	-1,06	1,59E-22
ENSG00000169100	SLC25A6	-0,68	1,55E-22	-0,68	1,97E-22
ENSG00000094975	C1ORF9	-0,30	5,53E-03	-0,99	2,25E-22
ENSG00000171314	PGAM1	-1,20	6,56E-48	-0,81	2,93E-22
ENSG00000102934	PLLP	-0,63	3,79E-10	-0,99	3,51E-22
ENSG00000244731	C4A	-0,25	4,37E-03	-0,79	4,16E-22
ENSG00000148411	NACC2	-0,32	8,63E-03	-1,09	4,48E-22
ENSG00000172175	MALT1	-0,94	6,52E-23	-0,93	4,96E-22
ENSG00000155380	SLC16A1	-1,06	1,04E-44	-0,74	5,36E-22
ENSG00000114942	EEF1B2	-0,49	1,12E-16	-0,57	6,91E-22
ENSG00000105193	RPS16	-0,64	9,62E-19	-0,69	9,42E-22
ENSG00000130147	SH3BP4	-0,64	4,18E-17	-0,73	1,26E-21
ENSG00000068650	ATP11A	-0,78	4,15E-22	-0,78	1,27E-21
ENSG00000063177	RPL18	-0,55	2,18E-17	-0,62	2,05E-21
ENSG00000096696	DSP	-1,07	1,91E-54	-0,67	2,31E-21
ENSG00000198355	PIM3	-1,41	5,25E-27	-1,26	2,73E-21
ENSG00000205403	CFI	-0,45	1,88E-07	-0,80	2,73E-21
ENSG00000113719	ERGIC1	-0,57	1,66E-14	-0,71	3,09E-21
ENSG00000164733	CTSB	-0,26	2,41E-05	-0,57	3,26E-21
ENSG00000112306	RPS12	-0,85	2,44E-42	-0,60	3,86E-21
ENSG00000106546	AHR	-1,04	6,73E-34	-0,82	4,45E-21
ENSG00000106034	C7ORF58	-1,08	2,05E-27	-0,95	4,62E-21
ENSG00000079385	CEACAM1	-1,34	3,18E-58	-0,79	5,13E-21
ENSG00000164587	RPS14	-0,57	6,08E-20	-0,59	7,99E-21
ENSG00000106392	C1GALT1	-1,04	9,31E-32	-0,83	1,13E-20
ENSG00000088930	XRN2	-0,27	1,42E-04	-0,63	1,42E-20

ENSG00000182871	<i>COL18A1</i>	-0,77	9,83E-18	-0,84	1,44E-20
ENSG00000196576	<i>PLXNB2</i>	-0,31	1,41E-04	-0,72	1,90E-20
ENSG00000065308	<i>TRAM2</i>	-0,42	3,17E-11	-0,58	1,95E-20
ENSG00000078269	<i>SYNJ2</i>	-1,19	6,03E-61	-0,68	2,05E-20
ENSG00000138434	<i>SSFA2</i>	-0,35	1,21E-05	-0,72	2,33E-20
ENSG00000128272	<i>ATF4</i>	-0,44	2,25E-13	-0,56	2,43E-20
ENSG00000124614	<i>RPS10</i>	-0,73	1,11E-33	-0,56	2,71E-20
ENSG00000149273	<i>RPS3</i>	-0,52	4,27E-20	-0,53	3,11E-20
ENSG00000127863	<i>TNFRSF19</i>	-1,20	2,20E-43	-0,80	4,15E-20
ENSG00000162244	<i>RPL29</i>	-0,74	5,98E-39	-0,52	8,90E-20
ENSG00000053254	<i>FOXN3</i>	-0,71	6,71E-24	-0,65	9,43E-20
ENSG00000133657	<i>ATP13A3</i>	-0,81	3,77E-26	-0,70	1,01E-19
ENSG00000115840	<i>SLC25A12</i>	-0,79	2,59E-07	-1,40	1,16E-19
ENSG00000198034	<i>RPS4X</i>	-0,53	5,98E-15	-0,61	1,21E-19
ENSG00000070614	<i>NDST1</i>	-0,33	7,34E-05	-0,73	1,22E-19
ENSG00000188760	<i>TMEM198</i>	-0,58	1,29E-05	-1,21	1,52E-19
ENSG00000173599	<i>PC</i>	-0,62	6,52E-16	-0,70	1,54E-19
ENSG00000136237	<i>RAPGEF5</i>	-0,84	1,11E-18	-0,87	2,19E-19
ENSG00000184384	<i>MAML2</i>	-1,12	2,97E-24	-1,00	3,09E-19
ENSG00000055163	<i>CYFIP2</i>	-0,61	5,68E-12	-0,80	5,16E-19
ENSG00000179403	<i>VWA1</i>	-1,28	1,14E-30	-1,00	6,67E-19
ENSG00000183876	<i>ARSI</i>	-2,03	9,09E-14	-2,45	9,98E-19
ENSG00000175745	<i>NR2F1</i>	-0,79	8,61E-11	-1,09	1,05E-18
ENSG00000120254	<i>MTHFD1L</i>	-0,96	1,86E-26	-0,80	1,21E-18
ENSG00000100364	<i>C22ORF9</i>	-0,49	6,84E-07	-0,85	1,26E-18
ENSG00000104660	<i>LEPROTL1</i>	-0,58	2,26E-07	-0,99	1,27E-18
ENSG00000101444	<i>AHCY</i>	-1,02	2,56E-50	-0,62	1,48E-18
ENSG00000131236	<i>CAP1</i>	-0,21	3,52E-03	-0,58	1,75E-18
ENSG00000147677	<i>EIF3H</i>	-0,25	2,53E-03	-0,68	1,75E-18
ENSG00000038427	<i>VCAN</i>	-1,62	1,03E-17	-1,68	2,44E-18
ENSG00000118503	<i>TNFAIP3</i>	-0,38	7,30E-04	-0,93	2,79E-18
ENSG00000138074	<i>SLC5A6</i>	-0,82	3,89E-24	-0,71	3,41E-18

ENSG00000139793	<i>MBNL2</i>	-0,60	1,61E-10	-0,81	5,31E-18
ENSG00000140450	<i>ARRDC4</i>	-0,88	5,15E-09	-1,33	5,98E-18
ENSG00000092758	<i>COL9A3</i>	-1,39	9,09E-30	-1,07	7,97E-18
ENSG00000215021	<i>PHB2</i>	-0,44	3,33E-10	-0,61	9,11E-18
ENSG00000122406	<i>RPL5</i>	-0,71	2,24E-32	-0,52	1,92E-17
ENSG00000147324	<i>MFHAS1</i>	-0,40	2,48E-04	-0,89	2,00E-17
ENSG00000163235	<i>TGFA</i>	-0,72	7,65E-06	-1,39	2,12E-17
ENSG00000161016	<i>RPL8</i>	-0,73	2,59E-27	-0,58	2,52E-17
ENSG00000174748	<i>RPL15</i>	-0,56	2,39E-16	-0,58	3,02E-17
ENSG00000172164	<i>SNTB1</i>	-0,25	5,32E-04	-0,58	4,08E-17
ENSG00000074964	<i>ARHGEF10L</i>	-0,36	2,42E-05	-0,69	4,10E-17
ENSG00000141568	<i>FOXK2</i>	-0,38	3,70E-06	-0,67	4,39E-17
ENSG00000142676	<i>RPL11</i>	-0,53	3,69E-17	-0,53	4,43E-17
ENSG00000187244	<i>BCAM</i>	-0,30	2,78E-03	-0,79	7,61E-17
ENSG00000133275	<i>CSNK1G2</i>	-0,63	1,24E-08	-0,92	8,73E-17
ENSG00000164251	<i>F2RL1</i>	-2,21	6,51E-87	-0,88	9,35E-17
ENSG00000197081	<i>IGF2R</i>	-0,65	2,27E-28	-0,50	1,32E-16
ENSG00000054179	<i>ENTPD2</i>	-0,93	2,27E-09	-1,31	1,56E-16
ENSG00000034510	<i>TMSB10</i>	-1,09	1,10E-41	-0,68	1,59E-16
ENSG00000171858	<i>RPS21</i>	-0,67	1,04E-22	-0,57	1,71E-16
ENSG00000100316	<i>LOC653881</i>	-0,61	4,52E-24	-0,51	1,80E-16
ENSG00000164171	<i>ITGA2</i>	-1,94	2,57E-111	-0,71	1,89E-16
ENSG00000165238	<i>WNK2</i>	-0,75	8,59E-12	-0,91	1,89E-16
ENSG00000125398	<i>SOX9</i>	-0,72	1,28E-16	-0,72	2,13E-16
ENSG00000130821	<i>SLC6A8</i>	-1,37	3,05E-51	-0,76	2,90E-16
ENSG00000166949	<i>SMAD3</i>	-0,49	1,93E-08	-0,71	3,09E-16
ENSG00000174444	<i>RPL4</i>	-0,85	9,13E-46	-0,50	4,93E-16
ENSG00000160255	<i>ITGB2</i>	-0,69	3,08E-06	-1,20	5,27E-16
ENSG00000137193	<i>PIM1</i>	-1,57	3,02E-61	-0,77	5,87E-16
ENSG00000198888	<i>ND1</i>	-0,48	9,39E-12	-0,57	6,97E-16
ENSG00000114650	<i>SCAP</i>	-0,27	3,56E-03	-0,70	7,81E-16
ENSG00000260604	<i>RP1-140K8.5</i>	-1,73	7,04E-32	-1,18	8,87E-16

ENSG00000164946	<i>FREM1</i>	-1,24	2,49E-34	-0,83	9,41E-16
ENSG00000182272	<i>B4GALNT4</i>	-2,08	3,53E-46	-1,13	1,09E-15
ENSG00000167635	<i>ZNF146</i>	-0,73	1,37E-15	-0,74	1,26E-15
ENSG00000167703	<i>SLC43A2</i>	-1,10	9,83E-22	-0,93	1,28E-15
ENSG00000204628	<i>GNB2L1</i>	-0,38	2,22E-07	-0,57	1,57E-15
ENSG00000171490	<i>RSL1D1</i>	-0,22	6,51E-04	-0,50	1,74E-15
ENSG00000122490	<i>PQLC1</i>	-0,35	9,13E-04	-0,80	1,91E-15
ENSG00000110700	<i>RPS13</i>	-0,60	1,06E-22	-0,50	1,98E-15
ENSG00000210082	<i>MT-RNR2</i>	-1,01	7,43E-84	-0,43	2,16E-15
ENSG00000183741	<i>CBX6</i>	-0,59	4,82E-04	-1,32	2,92E-15
ENSG00000144713	<i>RPL32</i>	-0,73	3,05E-28	-0,53	3,28E-15
ENSG00000157557	<i>ETS2</i>	-1,36	1,03E-51	-0,71	3,43E-15
ENSG00000078898	<i>BPIL1</i>	-1,33	2,99E-70	-0,61	3,72E-15
ENSG00000058056	<i>USP13</i>	-1,13	1,58E-32	-0,76	4,27E-15
ENSG00000148303	<i>RPL7A</i>	-0,44	5,67E-15	-0,44	6,23E-15
ENSG00000177508	<i>IRX3</i>	-1,95	2,36E-38	-1,14	7,30E-15
ENSG00000105379	<i>ETFB</i>	-1,01	7,42E-24	-0,79	1,30E-14
ENSG00000141503	<i>MINK1</i>	-0,39	5,98E-05	-0,73	1,55E-14
ENSG00000077782	<i>FGFR1</i>	-0,68	3,97E-10	-0,83	1,63E-14
ENSG00000010319	<i>SEMA3G</i>	-1,07	2,08E-20	-0,90	1,67E-14
ENSG00000158985	<i>CDC42SE2</i>	-0,48	1,69E-06	-0,77	1,68E-14
ENSG00000197594	<i>ENPP1</i>	-1,53	9,49E-98	-0,57	1,98E-14
ENSG00000109819	<i>PPARGC1A</i>	-0,82	3,85E-16	-0,78	2,09E-14
ENSG00000070669	<i>ASNS</i>	-1,73	1,15E-67	-0,77	2,42E-14
ENSG00000133195	<i>SLC39A11</i>	-0,76	9,20E-07	-1,18	2,65E-14
ENSG00000071082	<i>RPL31</i>	-0,71	3,70E-27	-0,51	3,34E-14
ENSG00000135677	<i>GNS</i>	-0,50	1,89E-08	-0,66	4,83E-14
ENSG00000187109	<i>NAP1L1</i>	-1,17	6,70E-65	-0,53	4,83E-14
ENSG00000140443	<i>IGF1R</i>	-0,63	2,50E-18	-0,55	5,15E-14
ENSG00000166441	<i>RPL27A</i>	-0,74	9,45E-24	-0,57	5,52E-14
ENSG00000162889	<i>MAPKAPK2</i>	-0,59	7,39E-09	-0,77	1,03E-13
ENSG00000172943	<i>PHF8</i>	-0,27	7,34E-03	-0,70	1,16E-13

ENSG00000166986	MARS	-0,87	1,11E-33	-0,55	1,33E-13
ENSG00000233016	SNHG7	-0,54	3,86E-05	-0,96	1,36E-13
ENSG00000161091	C19ORF28	-0,56	3,93E-05	-1,00	1,36E-13
ENSG00000105372	RPS19	-0,48	1,14E-10	-0,55	1,40E-13
ENSG00000079432	CIC	-0,81	8,45E-16	-0,76	1,56E-13
ENSG00000133112	LOC285741	-0,69	1,73E-25	-0,50	1,63E-13
ENSG00000079308	TNS1	-2,25	7,96E-26	-1,61	1,81E-13
ENSG00000108107	RPL28	-0,39	4,53E-06	-0,61	1,98E-13
ENSG00000144711	IQSEC1	-0,29	9,10E-04	-0,61	2,26E-13
ENSG00000108298	RPL19	-0,47	1,76E-14	-0,46	2,29E-13
ENSG00000162407	PPAP2B	-0,48	2,76E-09	-0,59	2,76E-13
ENSG00000162009	SSTR5	-1,21	8,50E-15	-1,15	3,40E-13
ENSG00000110721	CHKA	-0,24	7,37E-03	-0,61	3,52E-13
ENSG00000140988	RPS2	-0,47	5,62E-13	-0,47	3,58E-13
ENSG00000035928	RFC1	-0,38	3,83E-07	-0,53	3,93E-13
ENSG00000142937	RPS8	-0,63	1,68E-17	-0,55	4,66E-13
ENSG00000168994	C6ORF145	-0,85	2,14E-15	-0,78	7,39E-13
ENSG00000154127	UBASH3B	-1,06	7,85E-26	-0,73	9,99E-13
ENSG00000116584	ARHGEF2	-0,83	1,12E-08	-1,05	1,12E-12
ENSG00000226015	CCT8P1	-1,39	5,43E-20	-1,09	1,38E-12
ENSG00000157827	FMNL2	-1,36	5,00E-77	-0,53	1,74E-12
ENSG00000152818	UTRN	-1,33	1,68E-77	-0,52	1,87E-12
ENSG00000142599	RERE	-0,67	2,37E-16	-0,58	2,11E-12
ENSG00000105429	MEGF8	-0,78	3,35E-16	-0,69	2,16E-12
ENSG00000204444	APOM	-0,86	3,97E-33	-0,52	2,24E-12
ENSG00000138095	LRPPRC	-0,64	4,53E-26	-0,44	2,24E-12
ENSG00000103429	BFAR	-0,26	9,83E-04	-0,52	2,58E-12
ENSG00000113328	CCNG1	-0,52	4,80E-11	-0,55	2,91E-12
ENSG00000138604	GLCE	-0,93	5,96E-11	-1,01	3,52E-12
ENSG00000205730	ITPRIPL2	-0,78	4,07E-13	-0,76	3,79E-12
ENSG00000100345	MYH9	-0,49	3,55E-12	-0,49	3,89E-12
ENSG00000146729	GBAS	-0,53	1,84E-05	-0,84	4,59E-12

ENSG00000089157	<i>RPLPO</i>	-0,52	3,69E-17	-0,43	4,82E-12
ENSG00000101577	<i>LPIN2</i>	-0,76	6,49E-24	-0,53	5,07E-12
ENSG00000099204	<i>ABLIM1</i>	-0,43	9,80E-11	-0,47	5,45E-12
ENSG00000054965	<i>FAM168A</i>	-0,45	1,62E-06	-0,64	6,03E-12
ENSG00000197958	<i>RPL12</i>	-0,51	1,08E-14	-0,46	6,10E-12
ENSG00000169908	<i>TM4SF1</i>	-1,73	3,75E-101	-0,58	7,12E-12
ENSG00000078401	<i>EDN1</i>	-1,89	7,24E-20	-1,42	7,13E-12
ENSG00000105373	<i>GLTSCR2</i>	-0,84	2,99E-13	-0,80	7,90E-12
ENSG00000185615	<i>PDIA2</i>	-1,76	7,13E-19	-1,36	9,02E-12
ENSG00000087266	<i>SH3BP2</i>	-0,77	1,57E-09	-0,88	1,09E-11
ENSG00000169855	<i>LOC642132</i>	-1,06	5,51E-49	-0,51	1,18E-11
ENSG00000197756	<i>RPL37A</i>	-0,60	1,77E-22	-0,43	1,24E-11
ENSG00000198755	<i>RPL10A</i>	-0,67	9,80E-28	-0,43	1,50E-11
ENSG00000137818	<i>RPLP1</i>	-0,64	5,76E-17	-0,53	1,50E-11
ENSG00000100528	<i>CNIH</i>	-0,34	5,02E-04	-0,63	1,53E-11
ENSG00000103187	<i>COTL1</i>	-1,89	1,18E-48	-0,84	1,81E-11
ENSG00000155229	<i>MMS19</i>	-0,38	4,57E-05	-0,61	1,94E-11
ENSG00000137309	<i>HMGAI</i>	-1,06	3,54E-38	-0,57	2,50E-11
ENSG00000102081	<i>FMR1</i>	-0,39	1,29E-05	-0,58	2,67E-11
ENSG00000168758	<i>SEMA4C</i>	-1,24	3,10E-31	-0,72	2,76E-11
ENSG00000168264	<i>IRF2BP2</i>	-0,79	2,24E-21	-0,57	2,76E-11
ENSG00000156508	<i>EEF1A1</i>	-0,64	2,75E-17	-0,52	2,76E-11
ENSG00000197321	<i>SVIL</i>	-0,63	1,23E-07	-0,80	2,78E-11
ENSG00000128829	<i>EIF2AK4</i>	-0,81	1,17E-27	-0,51	2,84E-11
ENSG00000198858	<i>C19ORF22</i>	-0,53	5,36E-07	-0,70	3,50E-11
ENSG00000137166	<i>FOXP4</i>	-0,41	3,68E-05	-0,64	3,71E-11
ENSG00000143537	<i>ADAM15</i>	-0,57	2,93E-05	-0,89	3,74E-11
ENSG00000168003	<i>SLC3A2</i>	-0,23	2,74E-03	-0,47	4,12E-11
ENSG00000163513	<i>TGFBR2</i>	-0,56	4,41E-17	-0,45	4,20E-11
ENSG00000125691	<i>RPL23</i>	-0,83	5,59E-37	-0,45	5,27E-11
ENSG00000168488	<i>ATXN2L</i>	-0,34	5,66E-06	-0,48	6,36E-11
ENSG00000198886	<i>ND4</i>	-0,43	3,91E-16	-0,35	6,82E-11

ENSG00000146433	<i>TMEM181</i>	-0,91	1,10E-34	-0,50	7,15E-11
ENSG00000168056	<i>LTPB3</i>	-0,53	1,35E-06	-0,71	7,15E-11
ENSG00000128342	<i>LIF</i>	-0,71	2,08E-04	-1,24	7,23E-11
ENSG00000144645	<i>OSBPL10</i>	-2,13	2,00E-46	-0,94	7,62E-11
ENSG00000260032	<i>LINC00657</i>	-0,33	1,10E-06	-0,43	8,35E-11
ENSG00000101384	<i>JAG1</i>	-0,55	1,68E-13	-0,49	9,12E-11
ENSG00000116962	<i>NID1</i>	-0,83	1,63E-36	-0,44	1,01E-10
ENSG00000125149	<i>C16ORF70</i>	-0,92	2,36E-18	-0,69	1,01E-10
ENSG00000140044	<i>JDP2</i>	-0,81	2,21E-04	-1,42	1,06E-10
ENSG00000145425	<i>LOC100130107</i>	-0,71	1,94E-18	-0,53	1,08E-10
ENSG00000181896	<i>ZNF101</i>	-0,80	3,33E-08	-0,94	1,23E-10
ENSG00000103460	<i>TOX3</i>	-1,23	2,59E-31	-0,69	1,28E-10
ENSG00000105639	<i>JAK3</i>	-1,61	9,89E-21	-1,11	1,51E-10
ENSG00000147408	<i>CSGALNACT1</i>	-2,05	2,00E-20	-1,41	1,53E-10
ENSG00000182606	<i>TRAK1</i>	-0,75	3,34E-20	-0,54	1,77E-10
ENSG00000177426	<i>TGIF1</i>	-0,91	1,55E-14	-0,77	1,78E-10
ENSG00000189221	<i>MAOA</i>	-0,38	2,05E-04	-0,64	1,89E-10
ENSG00000198804	<i>COX1</i>	-0,48	2,75E-19	-0,35	1,90E-10
ENSG00000185624	<i>P4HB</i>	-0,52	2,77E-17	-0,40	2,01E-10
ENSG00000055483	<i>USP36</i>	-0,32	5,01E-04	-0,57	2,02E-10
ENSG00000105254	<i>TBCB</i>	-0,76	8,29E-11	-0,75	2,25E-10
ENSG00000008710	<i>PKD1</i>	-0,82	2,41E-14	-0,70	2,38E-10
ENSG00000196914	<i>ARHGEF12</i>	-0,33	9,61E-06	-0,46	2,46E-10
ENSG00000141905	<i>NFIC</i>	-0,87	9,54E-10	-0,92	2,47E-10
ENSG00000142089	<i>IFitm3</i>	-1,02	1,07E-18	-0,74	2,54E-10
ENSG00000101337	<i>TM9SF4</i>	-0,40	1,73E-08	-0,45	2,87E-10
ENSG00000132970	<i>WASF3</i>	-0,87	8,19E-12	-0,81	3,00E-10
ENSG00000184640	<i>SEPT9</i>	-0,20	4,52E-03	-0,42	3,00E-10
ENSG00000120129	<i>DUSP1</i>	-0,92	7,19E-10	-0,96	3,29E-10
ENSG00000064300	<i>NGFR</i>	-2,79	1,58E-21	-1,84	3,52E-10
ENSG00000091136	<i>LAMB1</i>	-1,00	5,32E-51	-0,43	3,64E-10
ENSG00000233927	<i>RPS28</i>	-0,46	1,46E-06	-0,59	4,28E-10

ENSG00000007047	<i>MARK4</i>	-0,76	5,81E-08	-0,88	4,47E-10
ENSG00000159335	<i>PTMS</i>	-0,95	6,10E-11	-0,92	4,73E-10
ENSG00000065154	<i>OAT</i>	-0,26	4,71E-03	-0,53	5,10E-10
ENSG00000127948	<i>POR</i>	-0,51	6,36E-14	-0,43	6,01E-10
ENSG00000175727	<i>MLXIP</i>	-0,28	9,27E-03	-0,64	6,01E-10
ENSG00000182319	<i>SGK223</i>	-1,04	1,79E-21	-0,69	6,75E-10
ENSG00000116017	<i>ARID3A</i>	-0,31	2,48E-04	-0,51	7,01E-10
ENSG00000089009	<i>RPL6</i>	-1,16	1,34E-59	-0,46	7,02E-10
ENSG00000198727	<i>CYTB</i>	-0,46	6,53E-12	-0,42	7,10E-10
ENSG00000142192	<i>APP</i>	-1,03	2,56E-46	-0,46	7,17E-10
ENSG00000090339	<i>ICAM1</i>	-1,33	7,20E-41	-0,62	8,93E-10
ENSG00000105325	<i>FZR1</i>	-0,33	3,44E-03	-0,66	8,96E-10
ENSG00000168615	<i>ADAM9</i>	-0,95	3,53E-42	-0,44	9,03E-10
ENSG00000158296	<i>SLC13A3</i>	-1,58	5,67E-38	-0,74	9,35E-10
ENSG00000198959	<i>TGM2</i>	-0,43	7,24E-04	-0,76	9,35E-10
ENSG00000064932	<i>SBNO2</i>	-0,70	2,09E-08	-0,77	1,07E-09
ENSG00000047457	<i>CP</i>	-2,40	1,92E-44	-1,10	1,09E-09
ENSG00000175826	<i>DULLARD</i>	-0,78	1,06E-08	-0,85	1,09E-09
ENSG00000105640	<i>RPL18A</i>	-0,75	8,39E-18	-0,54	1,13E-09
ENSG00000167491	<i>GATA2A</i>	-0,48	3,13E-06	-0,62	1,17E-09
ENSG00000067082	<i>KLF6</i>	-0,70	3,73E-17	-0,52	1,19E-09
ENSG00000143947	<i>RPS27A</i>	-0,63	3,98E-23	-0,40	1,24E-09
ENSG00000132670	<i>PTPRA</i>	-0,36	2,31E-06	-0,46	1,33E-09
ENSG00000177807	<i>KCNJ10</i>	-2,23	2,27E-13	-1,88	1,35E-09
ENSG00000084652	<i>TXLNA</i>	-0,41	5,35E-07	-0,49	1,38E-09
ENSG00000130066	<i>SAT1</i>	-1,35	1,28E-63	-0,51	1,54E-09
ENSG00000100065	<i>CARD10</i>	-0,76	5,01E-19	-0,53	1,59E-09
ENSG00000112033	<i>PPARD</i>	-0,73	9,41E-10	-0,73	1,97E-09
ENSG00000100422	<i>CERK</i>	-0,46	1,91E-06	-0,58	1,98E-09
ENSG00000233864	<i>TTTY15</i>	-0,45	1,88E-03	-0,84	2,41E-09
ENSG00000167526	<i>RPL13</i>	-0,62	1,51E-11	-0,56	2,42E-09
ENSG00000056586	<i>RC3H2</i>	-0,42	6,64E-06	-0,56	2,62E-09

ENSG00000159128	<i>IFNGR2</i>	-0,78	1,19E-10	-0,73	3,14E-09
ENSG00000130255	<i>RPL36</i>	-0,48	5,61E-07	-0,57	3,16E-09
ENSG00000065060	<i>UHRF1BP1</i>	-0,31	9,76E-05	-0,46	3,37E-09
ENSG00000134686	<i>PHC2</i>	-0,78	1,62E-21	-0,50	3,52E-09
ENSG00000198300	<i>PEG3</i>	-0,59	1,31E-16	-0,43	3,73E-09
ENSG00000221978	<i>CCNL2</i>	-0,40	7,68E-06	-0,52	3,85E-09
ENSG00000103811	<i>CTSH</i>	-0,31	4,76E-05	-0,44	3,90E-09
ENSG00000072864	<i>NDE1</i>	-1,29	5,96E-41	-0,58	4,01E-09
ENSG00000005022	<i>SLC25A5</i>	-0,39	2,53E-07	-0,45	4,14E-09
ENSG00000123989	<i>CHPF</i>	-1,32	2,78E-53	-0,52	4,79E-09
ENSG00000185359	<i>HGS</i>	-0,57	1,57E-09	-0,56	4,79E-09
ENSG00000171867	<i>PRNP</i>	-0,30	4,15E-05	-0,42	4,93E-09
ENSG00000163435	<i>ELF3</i>	-1,34	1,05E-10	-1,23	5,14E-09
ENSG00000172057	<i>ORMDL3</i>	-1,45	2,35E-64	-0,52	5,29E-09
ENSG00000104529	<i>EEF1D</i>	-0,43	2,04E-08	-0,45	5,77E-09
ENSG00000031823	<i>RANBP3</i>	-0,69	6,32E-13	-0,57	5,85E-09
ENSG00000140836	<i>ZFHX3</i>	-0,52	1,72E-08	-0,54	6,58E-09
ENSG00000124226	<i>RNF114</i>	-0,25	4,15E-03	-0,47	6,67E-09
ENSG00000171877	<i>FRMD5</i>	-1,26	8,84E-07	-1,51	6,96E-09
ENSG0000008282	<i>SYPL1</i>	-0,49	3,47E-07	-0,57	7,20E-09
ENSG00000119669	<i>C14ORF4</i>	-0,77	1,00E-06	-0,91	7,30E-09
ENSG00000213949	<i>ITGA1</i>	-1,04	2,04E-27	-0,57	7,61E-09
ENSG00000229117	<i>RPL41</i>	-0,69	3,83E-25	-0,40	8,08E-09
ENSG00000170537	<i>TMC7</i>	-1,11	2,19E-08	-1,16	8,51E-09
ENSG00000123243	<i>ITIH5</i>	-0,56	1,55E-04	-0,84	8,68E-09
ENSG00000163584	<i>RPL22L1</i>	-1,09	6,32E-14	-0,85	9,01E-09
ENSG00000123561	<i>SERPINA7</i>	-1,17	2,53E-45	-0,50	9,02E-09
ENSG00000108840	<i>HDAC5</i>	-0,48	1,51E-06	-0,57	9,68E-09
ENSG00000176624	<i>MEX3C</i>	-0,33	3,52E-03	-0,62	1,12E-08
ENSG00000105767	<i>CADM4</i>	-0,67	4,49E-05	-0,93	1,14E-08
ENSG00000183337	<i>BCOR</i>	-0,40	2,52E-05	-0,54	1,15E-08
ENSG00000113387	<i>SUB1</i>	-0,26	2,07E-03	-0,46	1,22E-08

ENSG00000088826	<i>SMOX</i>	-0,42	1,62E-03	-0,75	1,24E-08
ENSG00000103005	<i>C16ORF57</i>	-0,27	6,12E-03	-0,53	1,24E-08
ENSG00000129473	<i>BCL2L2</i>	-0,52	4,91E-09	-0,51	1,53E-08
ENSG00000145741	<i>BTF3</i>	-0,26	1,93E-05	-0,35	1,54E-08
ENSG00000162337	<i>LRP5</i>	-0,83	3,22E-39	-0,38	1,57E-08
ENSG00000133812	<i>SBF2</i>	-0,44	7,08E-05	-0,62	1,73E-08
ENSG00000167202	<i>TBC1D2B</i>	-0,46	1,36E-04	-0,67	2,20E-08
ENSG00000164056	<i>SPRY1</i>	-1,12	8,49E-23	-0,65	2,20E-08
ENSG00000130723	<i>BAT2L1</i>	-0,25	9,31E-04	-0,41	2,22E-08
ENSG00000156413	<i>FUT6</i>	-1,15	1,26E-19	-0,73	2,22E-08
ENSG00000188559	<i>RALGAPA2</i>	-1,02	1,21E-32	-0,50	2,22E-08
ENSG00000143384	<i>MCL1</i>	-1,25	3,09E-67	-0,42	2,23E-08
ENSG00000018408	<i>WWTR1</i>	-0,46	1,51E-08	-0,46	2,23E-08
ENSG00000183255	<i>PTTG1IP</i>	-0,72	5,68E-25	-0,41	2,31E-08
ENSG00000101040	<i>ZMYND8</i>	-0,65	1,76E-20	-0,41	2,42E-08
ENSG00000105355	<i>PLIN3</i>	-0,73	2,42E-16	-0,51	2,63E-08
ENSG00000071564	<i>TCF3</i>	-0,40	6,93E-05	-0,56	2,78E-08
ENSG00000181789	<i>COPG</i>	-0,21	8,90E-03	-0,42	2,78E-08
ENSG00000136295	<i>TTYH3</i>	-0,85	1,94E-31	-0,42	2,82E-08
ENSG00000083857	<i>FAT1</i>	-0,49	1,45E-10	-0,44	2,91E-08
ENSG00000100889	<i>PCK2</i>	-0,58	3,11E-16	-0,40	3,09E-08
ENSG00000188707	<i>C7ORF29</i>	-0,39	7,74E-04	-0,62	3,09E-08
ENSG00000138326	<i>RPS24</i>	-0,67	4,74E-19	-0,43	3,10E-08
ENSG0000008988	<i>RPS20</i>	-0,51	1,70E-15	-0,37	3,25E-08
ENSG00000170035	<i>UBE2E3</i>	-0,28	5,35E-03	-0,54	3,40E-08
ENSG00000145907	<i>G3BP1</i>	-0,30	1,91E-05	-0,39	3,66E-08
ENSG00000100353	<i>EIF3D</i>	-0,54	1,37E-11	-0,45	4,39E-08
ENSG00000107581	<i>EIF3A</i>	-0,33	1,11E-07	-0,34	4,91E-08
ENSG00000171863	<i>RPS7</i>	-0,70	3,88E-20	-0,43	5,14E-08
ENSG00000141522	<i>ARHGDI1</i>	-0,58	1,37E-06	-0,66	5,61E-08
ENSG00000178297	<i>TMPRSS9</i>	-0,79	1,48E-04	-1,12	6,45E-08
ENSG00000135486	<i>HNRNPA1</i>	-0,24	1,03E-03	-0,37	6,67E-08

ENSG00000090975	<i>PITPNM2</i>	-0,44	2,88E-03	-0,77	6,83E-08
ENSG00000137154	<i>RPS6</i>	-0,90	5,92E-37	-0,40	6,87E-08
ENSG00000107331	<i>ABCA2</i>	-0,61	2,24E-07	-0,65	6,98E-08
ENSG00000122376	<i>FAM35B</i>	-0,39	1,33E-04	-0,54	7,09E-08
ENSG00000142627	<i>EPHA2</i>	-1,09	1,42E-34	-0,49	7,76E-08
ENSG00000112379	<i>KIAA1244</i>	-1,81	3,03E-24	-0,95	8,05E-08
ENSG00000139842	<i>CUL4A</i>	-0,44	3,39E-08	-0,43	8,79E-08
ENSG00000162909	<i>CAPN2</i>	-0,63	9,18E-06	-0,76	9,04E-08
ENSG00000162267	<i>ITIH3</i>	-0,96	7,65E-11	-0,81	9,31E-08
ENSG00000116539	<i>ASH1L</i>	-0,55	3,99E-07	-0,59	9,45E-08
ENSG00000174032	<i>SLC25A30</i>	-0,51	1,27E-06	-0,57	9,64E-08
ENSG00000196531	<i>NACA</i>	-0,37	9,69E-10	-0,33	9,67E-08
ENSG00000090621	<i>PABPC4</i>	-0,62	4,31E-13	-0,47	9,83E-08
ENSG00000142453	<i>CARM1</i>	-0,95	6,35E-20	-0,57	1,00E-07
ENSG00000166016	<i>ABTB2</i>	-0,65	7,35E-09	-0,61	1,01E-07
ENSG00000164574	<i>GALNT10</i>	-0,43	1,82E-04	-0,61	1,05E-07
ENSG00000182899	<i>RPL35A</i>	-0,62	1,78E-18	-0,39	1,07E-07
ENSG00000121552	<i>CSTA</i>	-1,87	8,55E-10	-1,65	1,10E-07
ENSG00000077232	<i>DNAJC10</i>	-0,34	1,07E-06	-0,37	1,21E-07
ENSG00000164684	<i>ZNF704</i>	-0,43	5,95E-04	-0,64	1,27E-07
ENSG00000172809	<i>RPL38</i>	-0,67	3,17E-14	-0,48	1,30E-07
ENSG00000101255	<i>TRIB3</i>	-0,38	2,96E-07	-0,40	1,35E-07
ENSG00000197457	<i>STMN3</i>	-1,08	1,43E-25	-0,56	1,39E-07
ENSG00000160213	<i>CSTB</i>	-0,78	8,95E-11	-0,65	1,46E-07
ENSG00000131469	<i>RPL27</i>	-0,64	2,41E-18	-0,40	1,56E-07
ENSG00000060237	<i>LOC100132369</i>	-0,38	1,39E-07	-0,39	1,57E-07
ENSG00000144136	<i>SLC20A1</i>	-0,59	1,01E-15	-0,40	1,69E-07
ENSG00000169813	<i>HNRNPFI</i>	-0,21	2,99E-03	-0,36	1,75E-07
ENSG00000171206	<i>TRIM8</i>	-0,50	1,34E-04	-0,68	1,80E-07
ENSG00000103335	<i>FAM38A</i>	-0,46	8,66E-07	-0,49	1,82E-07
ENSG00000118579	<i>MED28</i>	-0,44	1,83E-06	-0,48	1,83E-07
ENSG00000160712	<i>IL6R</i>	-0,82	8,45E-22	-0,46	1,86E-07

ENSG00000135966	<i>TGFBRAP1</i>	-0,57	2,11E-09	-0,51	1,94E-07
ENSG00000152894	<i>PTPRK</i>	-0,25	1,61E-03	-0,41	2,03E-07
ENSG00000116260	<i>QSOX1</i>	-2,27	9,10E-48	-0,79	2,10E-07
ENSG00000004399	<i>PLXND1</i>	-0,88	6,32E-26	-0,45	2,15E-07
ENSG00000141551	<i>CSNK1D</i>	-0,29	3,97E-04	-0,42	2,21E-07
ENSG00000176438	<i>C14ORF49</i>	-0,70	2,07E-05	-0,86	2,25E-07
ENSG00000205595	<i>AREG</i>	-1,84	7,58E-09	-1,68	2,30E-07
ENSG00000136938	<i>ANP32B</i>	-0,26	4,23E-04	-0,37	2,34E-07
ENSG00000141582	<i>CBX4</i>	-0,46	2,71E-03	-0,77	2,37E-07
ENSG00000118985	<i>ELL2</i>	-0,86	7,04E-30	-0,41	2,74E-07
ENSG00000113407	<i>TARS</i>	-0,71	7,72E-20	-0,41	2,95E-07
ENSG00000170017	<i>ALCAM</i>	-0,58	3,85E-10	-0,49	3,10E-07
ENSG00000126368	<i>NR1D1</i>	-0,63	1,63E-03	-1,01	3,19E-07
ENSG00000168028	<i>RPSA</i>	-0,60	1,40E-26	-0,30	3,37E-07
ENSG00000188706	<i>ZDHHC9</i>	-0,37	2,24E-05	-0,45	3,51E-07
ENSG00000177885	<i>GRB2</i>	-0,25	4,15E-03	-0,42	3,61E-07
ENSG00000162878	<i>PKDCC</i>	-1,27	3,19E-34	-0,55	3,81E-07
ENSG00000198734	<i>F5</i>	-0,73	4,29E-21	-0,41	4,18E-07
ENSG00000136010	<i>ALDH1L2</i>	-0,85	3,63E-11	-0,67	4,36E-07
ENSG00000167522	<i>ANKRD11</i>	-0,35	1,48E-05	-0,41	4,68E-07
ENSG00000134243	<i>SORT1</i>	-0,59	2,59E-17	-0,37	4,78E-07
ENSG00000010818	<i>HIVEP2</i>	-1,47	1,11E-24	-0,73	4,94E-07
ENSG00000125741	<i>OPA3</i>	-0,39	1,45E-03	-0,61	4,98E-07
ENSG00000102996	<i>MMP15</i>	-0,58	9,30E-11	-0,46	5,34E-07
ENSG00000107404	<i>DVL1</i>	-0,54	4,39E-08	-0,51	5,34E-07
ENSG00000160789	<i>LMNA</i>	-0,30	1,62E-04	-0,40	5,34E-07
ENSG00000164086	<i>DUSP7</i>	-0,48	6,28E-03	-0,86	5,46E-07
ENSG00000166197	<i>NOLC1</i>	-0,72	2,58E-20	-0,41	5,86E-07
ENSG00000011009	<i>LYPLA2</i>	-0,40	2,03E-04	-0,53	5,91E-07
ENSG00000182600	<i>C2ORF82</i>	-1,15	1,14E-10	-0,91	6,35E-07
ENSG00000147459	<i>DOCK5</i>	-0,40	1,50E-04	-0,52	6,52E-07
ENSG00000132640	<i>BTBD3</i>	-1,01	1,03E-22	-0,53	6,53E-07

ENSG00000088836	<i>SLC4A11</i>	-0,92	4,53E-13	-0,65	7,14E-07
ENSG00000002549	<i>LAP3</i>	-1,39	1,02E-48	-0,49	7,41E-07
ENSG00000163251	<i>FZD5</i>	-0,36	1,73E-06	-0,37	7,49E-07
ENSG00000088992	<i>TESC</i>	-1,15	1,43E-15	-0,73	7,66E-07
ENSG00000142207	<i>URB1</i>	-0,40	2,98E-05	-0,48	7,87E-07
ENSG00000142910	<i>TINAGL1</i>	-0,57	1,49E-03	-0,87	7,98E-07
ENSG00000177728	<i>KIAA0195</i>	-0,36	6,24E-04	-0,50	8,48E-07
ENSG00000143013	<i>LMO4</i>	-1,09	2,64E-12	-0,79	8,50E-07
ENSG00000198369	<i>SPRED2</i>	-0,49	4,42E-10	-0,39	8,77E-07
ENSG00000108219	<i>TSPAN14</i>	-0,89	9,24E-31	-0,40	8,92E-07
ENSG00000166575	<i>TMEM135</i>	-0,63	6,23E-17	-0,39	9,10E-07
ENSG00000115457	<i>IGFBP2</i>	-2,06	4,03E-14	-1,35	9,33E-07
ENSG00000099942	<i>CRKL</i>	-0,45	1,20E-07	-0,42	9,36E-07
ENSG00000131471	<i>AOC3</i>	-0,58	2,83E-07	-0,56	1,01E-06
ENSG00000234741	<i>GAS5</i>	-0,56	1,69E-07	-0,53	1,01E-06
ENSG00000078804	<i>TP53INP2</i>	-0,42	1,77E-06	-0,43	1,04E-06
ENSG00000147604	<i>RPL7</i>	-0,70	4,75E-18	-0,41	1,06E-06
ENSG00000197724	<i>PHF2</i>	-0,51	5,12E-05	-0,62	1,12E-06
ENSG00000178035	<i>IMPDH2</i>	-0,53	3,71E-14	-0,35	1,13E-06
ENSG00000188647	<i>PTAR1</i>	-0,32	1,76E-03	-0,49	1,13E-06
ENSG00000129250	<i>KIF1C</i>	-0,34	4,95E-05	-0,41	1,19E-06
ENSG00000119383	<i>PPP2R4</i>	-0,35	2,88E-05	-0,41	1,20E-06
ENSG00000068120	<i>COASY</i>	-0,32	1,37E-05	-0,36	1,24E-06
ENSG00000137331	<i>IER3</i>	-2,46	9,01E-19	-0,51	1,25E-06
ENSG00000112337	<i>SLC17A2</i>	-0,60	9,20E-06	-0,66	1,30E-06
ENSG00000157224	<i>CLDN12</i>	-0,74	1,87E-15	-0,47	1,41E-06
ENSG00000128849	<i>CGNL1</i>	-0,53	2,18E-07	-0,50	1,43E-06
ENSG00000055917	<i>PUM2</i>	-0,26	3,55E-04	-0,35	1,49E-06
ENSG00000130175	<i>PRKCSH</i>	-0,35	1,07E-04	-0,44	1,50E-06
ENSG00000075426	<i>FOSL2</i>	-0,93	9,88E-18	-0,54	1,57E-06
ENSG00000107957	<i>SH3PXD2A</i>	-0,52	8,79E-10	-0,42	1,68E-06
ENSG00000139146	<i>FAM60A</i>	-1,28	7,50E-41	-0,48	1,87E-06

ENSG00000101194	<i>SLC17A9</i>	-0,44	7,30E-10	-0,35	2,06E-06
ENSG00000105281	<i>SLC1A5</i>	-1,01	1,03E-40	-0,38	2,06E-06
ENSG00000099860	<i>GADD45B</i>	-1,29	1,26E-08	-1,10	2,12E-06
ENSG00000138080	<i>EMILIN1</i>	-0,99	3,93E-20	-0,53	2,15E-06
ENSG00000149187	<i>CELF1</i>	-0,48	4,84E-10	-0,37	2,18E-06
ENSG00000102763	<i>KIAA0564</i>	-0,65	2,84E-09	-0,53	2,18E-06
ENSG00000139318	<i>DUSP6</i>	-1,52	1,83E-53	-0,49	2,37E-06
ENSG00000113721	<i>PDGFRB</i>	-1,43	8,54E-23	-0,70	2,49E-06
ENSG00000182534	<i>MXRA7</i>	-1,12	2,72E-32	-0,47	2,60E-06
ENSG00000196950	<i>SLC39A10</i>	-1,17	2,59E-18	-0,66	2,67E-06
ENSG00000138166	<i>DUSP5</i>	-2,01	2,05E-14	-1,25	2,76E-06
ENSG00000198918	<i>RPL39</i>	-0,71	6,27E-12	-0,50	3,20E-06
ENSG00000111321	<i>LTBR</i>	-0,35	2,48E-03	-0,53	3,38E-06
ENSG00000129667	<i>RHBDF2</i>	-1,31	1,37E-12	-0,88	3,45E-06
ENSG00000153879	<i>CEBPG</i>	-0,53	1,11E-09	-0,42	3,54E-06
ENSG00000120942	<i>UBIAD1</i>	-0,33	4,50E-03	-0,52	3,80E-06
ENSG00000119559	<i>C19ORF25</i>	-0,60	1,21E-06	-0,58	3,81E-06
ENSG00000092964	<i>DPYSL2</i>	-0,82	3,05E-19	-0,44	3,91E-06
ENSG00000130762	<i>ARHGEF16</i>	-0,52	1,91E-04	-0,64	4,14E-06
ENSG00000115694	<i>STK25</i>	-0,72	4,49E-20	-0,38	4,23E-06
ENSG00000197136	<i>PCNXL3</i>	-0,27	8,78E-03	-0,45	4,26E-06
ENSG00000134352	<i>IL6ST</i>	-0,24	1,09E-03	-0,33	4,68E-06
ENSG00000176490	<i>DIRAS1</i>	-1,58	4,19E-11	-1,12	4,70E-06
ENSG00000149231	<i>CCDC82</i>	-0,29	9,26E-03	-0,49	4,81E-06
ENSG00000169826	<i>CSGALNACT2</i>	-0,84	4,21E-09	-0,68	5,13E-06
ENSG00000134970	<i>TICAM2</i>	-0,56	2,63E-11	-0,40	5,16E-06
ENSG00000179833	<i>SERTAD2</i>	-0,40	8,19E-06	-0,42	5,17E-06
ENSG00000164932	<i>CTHRC1</i>	-2,19	5,90E-27	-0,92	5,33E-06
ENSG00000132382	<i>MYBBP1A</i>	-0,38	2,66E-04	-0,47	5,41E-06
ENSG00000150093	<i>ITGB1</i>	-0,74	3,98E-30	-0,32	5,49E-06
ENSG00000091513	<i>TF</i>	-0,43	3,74E-07	-0,39	5,55E-06
ENSG00000183145	<i>DSCR6</i>	-2,45	2,91E-18	-1,29	5,63E-06

ENSG00000140859	<i>KIFC3</i>	-0,27	8,55E-03	-0,45	5,83E-06
ENSG00000081377	<i>CDC14B</i>	-0,28	8,63E-03	-0,46	5,84E-06
ENSG00000159842	<i>ABR</i>	-0,65	3,00E-07	-0,59	6,01E-06
ENSG00000206053	<i>HN1L</i>	-0,28	1,48E-03	-0,39	6,16E-06
ENSG00000155111	<i>CDK19</i>	-0,38	7,40E-04	-0,50	6,87E-06
ENSG00000259974	<i>LNC00261</i>	-0,67	5,21E-20	-0,35	7,02E-06
ENSG00000141505	<i>ASGR1</i>	-0,51	4,33E-16	-0,30	7,08E-06
ENSG00000185112	<i>FAM43A</i>	-1,46	5,77E-14	-0,89	7,94E-06
ENSG00000179820	<i>MYADM</i>	-0,63	7,21E-10	-0,47	8,15E-06
ENSG00000186184	<i>POLR1D</i>	-0,60	3,71E-12	-0,40	8,41E-06
ENSG00000074211	<i>PPP2R2C</i>	-1,91	6,21E-14	-1,15	8,44E-06
ENSG00000106366	<i>SERPINE1</i>	-2,38	2,49E-28	-1,03	8,79E-06
ENSG00000135069	<i>C8ORF62</i>	-0,32	7,34E-05	-0,36	9,27E-06
ENSG00000237115	<i>LOC100421775</i>	-1,83	6,45E-10	-1,35	9,68E-06
ENSG00000182022	<i>CHST15</i>	-2,77	1,74E-58	-0,81	1,03E-05
ENSG00000177954	<i>RPS27</i>	-0,57	1,88E-11	-0,39	1,08E-05
ENSG00000104885	<i>DOT1L</i>	-0,73	1,86E-16	-0,41	1,09E-05
ENSG00000175906	<i>ARL4D</i>	-0,81	1,06E-08	-0,65	1,10E-05
ENSG00000174804	<i>FZD4</i>	-0,25	4,07E-04	-0,31	1,11E-05
ENSG00000165802	<i>NELF</i>	-0,96	1,21E-34	-0,37	1,11E-05
ENSG00000111676	<i>ATN1</i>	-0,45	3,22E-05	-0,48	1,19E-05
ENSG00000184557	<i>SOCS3</i>	-1,81	1,13E-08	-1,43	1,19E-05
ENSG00000107833	<i>NPM3</i>	-0,42	8,36E-04	-0,55	1,23E-05
ENSG00000076928	<i>ARHGEF1</i>	-0,65	3,55E-10	-0,47	1,26E-05
ENSG00000124143	<i>ARHGAP40</i>	-1,71	3,94E-08	-1,40	1,27E-05
ENSG00000079819	<i>EPB41L2</i>	-1,10	4,38E-53	-0,33	1,28E-05
ENSG00000025772	<i>TOMM34</i>	-0,65	1,80E-10	-0,47	1,28E-05
ENSG00000060982	<i>BCAT1</i>	-1,07	6,26E-31	-0,43	1,31E-05
ENSG00000172270	<i>BSG</i>	-0,59	2,33E-17	-0,32	1,34E-05
ENSG00000139722	<i>VPS37B</i>	-0,65	1,04E-03	-0,87	1,35E-05
ENSG00000198796	<i>ALPK2</i>	-1,27	3,78E-05	-1,36	1,37E-05
ENSG00000114115	<i>RBP1</i>	-1,78	1,45E-13	-1,07	1,37E-05

ENSG0000072110	<i>ACTN1</i>	-0,78	1,39E-26	-0,34	1,39E-05
ENSG0000101162	<i>TUBB1</i>	-2,29	1,98E-42	-0,71	1,40E-05
ENSG0000133612	<i>AGAP3</i>	-0,39	3,61E-04	-0,47	1,62E-05
ENSG0000138623	<i>SEMA7A</i>	-0,51	3,47E-04	-0,62	1,63E-05
ENSG0000165655	<i>ZNF503</i>	-0,73	3,24E-05	-0,77	1,64E-05
ENSG0000213923	<i>CSNK1E</i>	-0,58	1,78E-09	-0,43	1,70E-05
ENSG0000213719	<i>CLIC1</i>	-1,13	5,92E-74	-0,29	1,77E-05
ENSG0000101745	<i>ANKRD12</i>	-0,40	1,04E-03	-0,51	1,83E-05
ENSG0000118520	<i>ARG1</i>	-1,90	1,70E-27	-0,77	1,83E-05
ENSG0000112242	<i>E2F3</i>	-0,64	1,53E-06	-0,59	1,86E-05
ENSG0000114503	<i>NCBP2</i>	-0,82	2,35E-20	-0,40	1,91E-05
ENSG0000214078	<i>CPNE1</i>	-0,26	5,44E-04	-0,32	2,09E-05
ENSG0000197498	<i>RPF2</i>	-0,50	7,63E-04	-0,63	2,12E-05
ENSG0000102760	<i>C13ORF15</i>	-1,74	5,40E-08	-1,41	2,23E-05
ENSG0000033100	<i>CHPF2</i>	-0,54	4,12E-07	-0,47	2,23E-05
ENSG0000184232	<i>OAF</i>	-0,32	2,83E-03	-0,45	2,30E-05
ENSG0000073060	<i>SCARB1</i>	-0,50	3,54E-12	-0,32	2,47E-05
ENSG0000087074	<i>PPP1R15A</i>	-0,90	2,08E-08	-0,70	2,80E-05
ENSG0000005893	<i>LAMP2</i>	-0,29	1,87E-04	-0,33	2,88E-05
ENSG0000059804	<i>SLC2A3</i>	-1,06	2,96E-41	-0,35	3,27E-05
ENSG0000197063	<i>MAFG</i>	-0,49	9,39E-06	-0,47	3,38E-05
ENSG0000110400	<i>PVRL1</i>	-0,48	2,94E-03	-0,67	3,48E-05
ENSG0000251322	<i>SHANK3</i>	-0,63	1,14E-05	-0,61	3,48E-05
ENSG0000148468	<i>FAM171A1</i>	-0,98	3,27E-26	-0,41	3,50E-05
ENSG0000108244	<i>KRT23</i>	-1,24	4,69E-15	-0,68	3,59E-05
ENSG0000010404	<i>IDS</i>	-1,00	5,06E-11	-0,65	3,61E-05
ENSG0000136720	<i>HS6ST1</i>	-0,37	2,38E-05	-0,37	3,64E-05
ENSG0000162998	<i>FRZB</i>	-1,85	5,41E-09	-1,37	3,79E-05
ENSG0000136048	<i>DRAM1</i>	-0,32	6,30E-03	-0,47	3,81E-05
ENSG0000170027	<i>YWHAQ</i>	-0,44	2,69E-10	-0,30	4,00E-05
ENSG0000119231	<i>SENP5</i>	-0,45	1,52E-05	-0,44	4,06E-05
ENSG0000167173	<i>C15ORF39</i>	-0,46	2,71E-04	-0,52	4,41E-05

ENSG00000175224	<i>KIAA0652</i>	-0,49	2,13E-09	-0,35	4,53E-05
ENSG00000105699	<i>LSR</i>	-0,57	1,38E-07	-0,46	4,56E-05
ENSG00000167680	<i>SEMA6B</i>	-0,29	9,63E-03	-0,45	4,79E-05
ENSG00000140107	<i>C14ORF68</i>	-1,30	8,55E-10	-0,89	4,85E-05
ENSG00000135912	<i>TTL4</i>	-0,43	4,22E-07	-0,36	4,86E-05
ENSG00000100060	<i>MFNG</i>	-1,77	2,20E-12	-1,05	5,03E-05
ENSG00000163597	<i>SNHG16</i>	-0,25	5,01E-03	-0,35	5,03E-05
ENSG00000125944	<i>HNRNPR</i>	-0,27	1,83E-04	-0,29	5,12E-05
ENSG00000171425	<i>ZNF581</i>	-0,66	6,82E-05	-0,68	5,20E-05
ENSG00000104419	<i>NDRG1</i>	-1,30	2,98E-12	-0,80	5,33E-05
ENSG00000155980	<i>KIF5A</i>	-1,40	5,30E-16	-0,72	5,86E-05
ENSG00000249550	<i>LINC01234</i>	-1,27	3,53E-08	-0,96	6,10E-05
ENSG00000167614	<i>TTYH1</i>	-1,30	2,82E-05	-1,27	6,17E-05
ENSG00000073067	<i>CYP2W1</i>	-1,22	3,97E-31	-0,44	6,49E-05
ENSG00000148175	<i>STOM</i>	-0,98	3,71E-29	-0,37	6,69E-05
ENSG00000221983	<i>UBA52</i>	-0,37	3,92E-06	-0,33	6,94E-05
ENSG00000105329	<i>TGFB1</i>	-1,49	8,45E-18	-0,71	7,33E-05
ENSG00000247844	<i>CCAT1</i>	-1,21	6,55E-23	-0,51	7,41E-05
ENSG00000149212	<i>SESN3</i>	-0,58	2,08E-03	-0,75	7,63E-05
ENSG00000134294	<i>SLC38A2</i>	-1,51	1,23E-75	-0,36	7,77E-05
ENSG00000134287	<i>ARF3</i>	-0,30	1,36E-03	-0,36	7,85E-05
ENSG00000178209	<i>LOC652460</i>	-0,81	4,16E-17	-0,41	7,91E-05
ENSG00000162927	<i>PUS10</i>	-0,37	4,99E-04	-0,42	7,97E-05
ENSG00000132510	<i>KDM6B</i>	-0,68	8,63E-07	-0,56	8,25E-05
ENSG00000110514	<i>MADD</i>	-0,51	3,28E-07	-0,41	8,40E-05
ENSG00000160336	<i>ZNF761</i>	-0,47	3,45E-03	-0,62	8,80E-05
ENSG00000189343	<i>RPS2P46</i>	-0,41	1,45E-05	-0,38	8,95E-05
ENSG00000073792	<i>IGF2BP2</i>	-0,36	2,99E-06	-0,31	9,17E-05
ENSG00000160271	<i>RALGDS</i>	-0,58	1,80E-04	-0,61	9,38E-05
ENSG00000112186	<i>CAP2</i>	-1,00	2,36E-14	-0,54	9,47E-05
ENSG00000159164	<i>SV2A</i>	-1,62	3,33E-12	-0,93	9,54E-05
ENSG00000082269	<i>FAM135A</i>	-1,06	1,93E-25	-0,42	9,56E-05

ENSG00000107984	<i>DKK1</i>	-0,79	3,82E-11	-0,49	1,02E-04
ENSG00000119125	<i>GDA</i>	-2,20	1,93E-33	-0,69	1,14E-04
ENSG00000118680	<i>MYL12B</i>	-0,46	8,64E-11	-0,29	1,16E-04
ENSG00000165030	<i>NFIL3</i>	-0,89	5,68E-18	-0,42	1,21E-04
ENSG00000115009	<i>CCL20</i>	-2,44	5,31E-51	-0,68	1,23E-04
ENSG00000167792	<i>NDUFV1</i>	-0,29	2,59E-03	-0,37	1,24E-04
ENSG00000113916	<i>BCL6</i>	-0,38	8,45E-05	-0,38	1,28E-04
ENSG00000153815	<i>CMIP</i>	-0,31	5,40E-04	-0,34	1,34E-04
ENSG00000134909	<i>ARHGAP32</i>	-0,38	6,14E-04	-0,43	1,37E-04
ENSG00000105722	<i>ERF</i>	-0,36	4,37E-03	-0,48	1,37E-04
ENSG00000156858	<i>PRR14</i>	-0,46	3,15E-03	-0,60	1,37E-04
ENSG00000085415	<i>SEH1L</i>	-0,49	4,25E-07	-0,38	1,40E-04
ENSG00000050344	<i>NFE2L3</i>	-0,67	6,95E-06	-0,58	1,44E-04
ENSG00000156096	<i>UGT2B4</i>	-1,43	4,06E-17	-0,67	1,46E-04
ENSG00000198763	<i>ND2</i>	-0,20	8,59E-03	-0,28	1,48E-04
ENSG00000120875	<i>DUSP4</i>	-1,15	5,96E-04	-1,28	1,48E-04
ENSG00000115641	<i>FHL2</i>	-1,52	5,64E-21	-0,63	1,54E-04
ENSG00000204387	<i>C6ORF48</i>	-0,39	1,43E-04	-0,39	1,54E-04
ENSG00000160209	<i>PDXK</i>	-0,22	6,46E-03	-0,30	1,58E-04
ENSG00000205339	<i>IPO7</i>	-0,90	7,63E-47	-0,26	1,59E-04
ENSG00000166887	<i>VPS39</i>	-0,33	4,20E-03	-0,43	1,59E-04
ENSG00000188895	<i>MSL1</i>	-0,29	1,21E-03	-0,34	1,61E-04
ENSG00000131778	<i>CHD1L</i>	-0,41	6,72E-07	-0,32	1,64E-04
ENSG00000153250	<i>RBMS1</i>	-0,62	1,10E-15	-0,31	1,76E-04
ENSG00000128595	<i>CALU</i>	-0,56	3,76E-17	-0,27	1,78E-04
ENSG00000163931	<i>TKT</i>	-0,35	9,15E-08	-0,25	1,78E-04
ENSG00000189334	<i>S100A14</i>	-0,92	4,92E-03	-1,21	1,86E-04
ENSG00000136888	<i>ATP6V1G1</i>	-1,03	4,02E-24	-0,41	1,96E-04
ENSG00000112699	<i>GMDS</i>	-0,73	1,03E-17	-0,34	1,98E-04
ENSG00000162885	<i>B3GALNT2</i>	-0,51	5,07E-04	-0,56	2,01E-04
ENSG00000198952	<i>SMG5</i>	-0,66	5,95E-15	-0,34	2,01E-04
ENSG00000112144	<i>ICK</i>	-0,44	2,64E-05	-0,40	2,05E-04

ENSG00000214274	ANG	-0,76	1,22E-07	-0,56	2,06E-04
ENSG00000109572	CLCN3	-0,32	1,66E-03	-0,38	2,09E-04
ENSG00000162383	SLC1A7	-1,30	6,68E-05	-1,24	2,09E-04
ENSG00000006459	JHDM1D	-1,26	3,23E-31	-0,43	2,22E-04
ENSG00000125798	FOXA2	-0,57	6,81E-06	-0,48	2,29E-04
ENSG00000131779	PEX11B	-0,52	3,81E-04	-0,55	2,32E-04
ENSG00000135404	CD63	-0,44	2,70E-07	-0,33	2,34E-04
ENSG00000197181	HSD3B7	-0,92	2,17E-03	-1,10	2,40E-04
ENSG00000101109	STK4	-0,22	6,78E-03	-0,29	2,44E-04
ENSG00000157985	AGAP1	-0,52	9,45E-08	-0,38	2,51E-04
ENSG00000185201	IFITM2	-1,91	2,52E-17	-0,84	2,65E-04
ENSG00000173020	ADRBK1	-0,40	5,43E-06	-0,33	2,67E-04
ENSG00000077150	NFKB2	-0,65	1,28E-05	-0,56	2,68E-04
ENSG00000166526	ZNF3	-0,48	1,42E-05	-0,42	2,70E-04
ENSG00000104611	SH2D4A	-0,64	2,47E-04	-0,64	2,72E-04
ENSG00000067225	LOC652797	-0,99	1,03E-39	-0,30	2,75E-04
ENSG00000106397	PLOD3	-1,03	2,16E-27	-0,37	2,79E-04
ENSG00000173065	C17ORF63	-0,75	3,99E-08	-0,52	2,81E-04
ENSG00000179195	ZNF664	-0,32	1,41E-04	-0,32	2,81E-04
ENSG00000131873	CHSY1	-1,21	4,65E-26	-0,44	2,84E-04
ENSG00000173334	TRIB1	-1,15	6,52E-39	-0,34	2,93E-04
ENSG00000144283	PKP4	-0,31	4,88E-04	-0,32	2,94E-04
ENSG00000171603	CLSTN1	-0,41	2,70E-06	-0,33	3,03E-04
ENSG00000148737	TCF7L2	-0,88	4,86E-12	-0,48	3,06E-04
ENSG00000184060	ADAP2	-1,13	2,99E-04	-1,14	3,08E-04
ENSG00000102317	RBM3	-0,62	2,83E-10	-0,38	3,12E-04
ENSG00000136859	ANGPTL2	-1,66	1,36E-13	-0,84	3,22E-04
ENSG00000151693	ASAP2	-0,80	1,56E-09	-0,50	3,22E-04
ENSG00000159399	HK2	-1,95	1,11E-119	-0,33	3,26E-04
ENSG00000103342	GSPT1	-0,27	1,77E-04	-0,26	3,39E-04
ENSG00000147883	CDKN2B	-0,94	6,19E-04	-1,00	3,54E-04
ENSG00000126457	PRMT1	-0,55	5,00E-13	-0,29	3,54E-04

ENSG00000104408	<i>EIF3E</i>	-0,46	5,84E-07	-0,35	3,54E-04
ENSG0000011275	<i>RNF216</i>	-0,39	5,92E-05	-0,35	3,61E-04
ENSG00000180263	<i>FGD6</i>	-0,60	1,01E-03	-0,65	3,64E-04
ENSG00000141456	<i>PELP1</i>	-0,28	8,97E-03	-0,37	3,77E-04
ENSG00000182087	<i>C19ORF6</i>	-0,39	2,05E-05	-0,33	3,92E-04
ENSG00000162772	<i>ATF3</i>	-0,99	3,00E-07	-0,71	4,14E-04
ENSG00000130702	<i>LAMA5</i>	-0,88	1,92E-21	-0,35	4,24E-04
ENSG00000125753	<i>VASP</i>	-0,64	5,66E-08	-0,43	4,39E-04
ENSG00000099617	<i>EFNA2</i>	-0,69	1,59E-04	-0,66	4,65E-04
ENSG00000114391	<i>RPL24</i>	-0,53	3,86E-11	-0,30	4,74E-04
ENSG00000177410	<i>C20ORF199</i>	-0,53	1,40E-05	-0,44	4,91E-04
ENSG00000147872	<i>PLIN2</i>	-1,18	1,26E-09	-0,72	5,00E-04
ENSG00000187017	<i>ESPN</i>	-0,49	4,16E-05	-0,43	5,28E-04
ENSG00000167291	<i>TBC1D16</i>	-0,69	1,51E-16	-0,31	5,29E-04
ENSG00000253522	<i>MIR3142HG</i>	-0,99	1,44E-03	-1,09	5,46E-04
ENSG00000125848	<i>FLRT3</i>	-1,14	7,73E-06	-0,91	5,50E-04
ENSG00000125503	<i>PPP1R12C</i>	-0,50	4,31E-04	-0,50	5,50E-04
ENSG00000160691	<i>SHC1</i>	-0,40	1,58E-06	-0,30	5,54E-04
ENSG00000071073	<i>MGAT4A</i>	-0,95	4,51E-34	-0,29	5,59E-04
ENSG00000181467	<i>RAP2B</i>	-0,54	4,45E-05	-0,47	5,78E-04
ENSG00000134086	<i>VHL</i>	-0,25	6,92E-03	-0,31	5,78E-04
ENSG00000158711	<i>ELK4</i>	-0,62	1,34E-08	-0,40	5,84E-04
ENSG00000073849	<i>ST6GAL1</i>	-0,57	4,45E-19	-0,24	6,28E-04
ENSG00000198720	<i>ANKRD13B</i>	-0,83	4,08E-03	-0,99	6,57E-04
ENSG00000101493	<i>ZNF516</i>	-0,46	7,27E-05	-0,40	6,81E-04
ENSG00000218226	<i>TATDN2P2</i>	-1,34	3,38E-12	-0,68	6,99E-04
ENSG00000164543	<i>STK17A</i>	-0,36	4,56E-03	-0,43	7,03E-04
ENSG00000151414	<i>NEK7</i>	-0,88	4,16E-10	-0,50	7,13E-04
ENSG00000143126	<i>CELSR2</i>	-0,73	5,00E-10	-0,42	7,19E-04
ENSG00000140943	<i>MBTPS1</i>	-0,51	1,83E-09	-0,31	7,24E-04
ENSG00000064651	<i>SLC12A2</i>	-0,58	9,92E-05	-0,52	7,63E-04
ENSG00000106348	<i>IMPDH1</i>	-0,33	9,73E-03	-0,43	7,73E-04

ENSG00000099904	ZDHC8	-0,61	1,48E-04	-0,55	7,92E-04
ENSG00000103353	UBFD1	-0,27	5,60E-05	-0,23	8,09E-04
ENSG00000129521	EGLN3	-2,26	7,22E-20	-0,89	8,34E-04
ENSG00000167460	TPM4	-1,05	1,99E-54	-0,25	8,37E-04
ENSG00000099953	MMP11	-0,63	7,70E-04	-0,64	8,50E-04
ENSG00000197343	ZNF655	-0,31	1,17E-03	-0,33	8,51E-04
ENSG00000196961	AP2A1	-0,43	3,53E-06	-0,32	8,51E-04
ENSG00000132182	NUP210	-0,44	9,19E-08	-0,29	8,65E-04
ENSG00000079313	REXO1	-0,44	2,42E-03	-0,48	8,73E-04
ENSG00000105568	PPP2R1A	-0,28	2,50E-03	-0,31	8,75E-04
ENSG00000261713	SSTR5-AS1	-0,87	1,10E-04	-0,78	8,75E-04
ENSG00000196205	EEF1A1P5	-0,61	1,76E-05	-0,50	8,86E-04
ENSG00000131724	IL13RA1	-0,85	7,75E-34	-0,25	8,86E-04
ENSG00000174938	SEZ6L2	-0,92	1,38E-13	-0,44	9,01E-04
ENSG00000017373	LOC100128100	-0,72	1,16E-04	-0,64	9,10E-04
ENSG00000146282	RARS2	-0,57	9,02E-09	-0,35	9,16E-04
ENSG00000166562	SEC11C	-0,66	1,38E-11	-0,35	9,34E-04
ENSG00000196588	MKL1	-0,65	2,59E-05	-0,53	9,36E-04
ENSG00000130511	SSBP4	-1,10	4,86E-09	-0,66	9,42E-04
ENSG00000198938	ATP6	-0,46	2,73E-08	-0,29	9,45E-04
ENSG00000120738	EGR1	-1,75	8,02E-23	-0,61	9,63E-04
ENSG00000149823	C11ORF2	-0,48	9,19E-05	-0,42	9,70E-04
ENSG00000105656	ELL	-1,07	1,85E-08	-0,65	1,02E-03
ENSG00000183386	FHL3	-0,89	1,44E-05	-0,70	1,02E-03
ENSG00000088832	FKBP1A	-0,21	4,52E-03	-0,24	1,08E-03
ENSG00000236552	RPL13AP5	-0,69	4,59E-05	-0,58	1,10E-03
ENSG00000167244	IGF2	-0,85	8,47E-11	-0,46	1,12E-03
ENSG00000101752	MIB1	-0,35	5,90E-05	-0,30	1,14E-03
ENSG00000213741	RPS29	-0,73	8,31E-06	-0,56	1,15E-03
ENSG00000118046	STK11	-0,76	4,88E-13	-0,37	1,17E-03
ENSG00000182199	SHMT2	-0,69	8,63E-22	-0,26	1,18E-03
ENSG00000175832	ETV4	-0,73	1,73E-23	-0,26	1,19E-03

ENSG00000176871	<i>WSB2</i>	-0,42	4,08E-04	-0,39	1,19E-03
ENSG00000102003	<i>SYP</i>	-0,71	5,43E-03	-0,83	1,21E-03
ENSG00000148426	<i>C100RF47</i>	-0,90	4,06E-07	-0,60	1,21E-03
ENSG00000130158	<i>DOCK6</i>	-0,97	9,38E-14	-0,45	1,22E-03
ENSG00000145495	<i>MARCH6</i>	-0,26	3,39E-03	-0,29	1,22E-03
ENSG00000085788	<i>DDHD2</i>	-0,58	1,87E-08	-0,36	1,23E-03
ENSG00000163788	<i>SNRK</i>	-0,60	3,96E-06	-0,44	1,25E-03
ENSG00000123131	<i>PRDX4</i>	-0,43	1,72E-06	-0,30	1,25E-03
ENSG00000184216	<i>IRAK1</i>	-0,90	4,70E-31	-0,27	1,27E-03
ENSG00000108557	<i>RAI1</i>	-0,41	1,62E-03	-0,42	1,30E-03
ENSG00000171456	<i>ASXL1</i>	-0,41	2,96E-07	-0,27	1,30E-03
ENSG00000176533	<i>GNG7</i>	-0,55	7,43E-03	-0,67	1,31E-03
ENSG00000092421	<i>SEMA6A</i>	-0,97	2,44E-11	-0,49	1,32E-03
ENSG00000112320	<i>SOBP</i>	-0,82	2,31E-08	-0,50	1,36E-03
ENSG00000064309	<i>CDON</i>	-0,58	1,95E-04	-0,52	1,41E-03
ENSG00000145623	<i>OSMR</i>	-1,45	4,42E-72	-0,28	1,43E-03
ENSG00000125089	<i>SH3TC1</i>	-0,91	1,61E-09	-0,51	1,44E-03
ENSG00000198363	<i>ASPH</i>	-0,50	2,55E-11	-0,26	1,44E-03
ENSG00000107372	<i>LOC732229</i>	-0,35	3,97E-04	-0,32	1,47E-03
ENSG00000158813	<i>EDA</i>	-0,46	4,75E-04	-0,43	1,48E-03
ENSG00000058335	<i>RASGRF1</i>	-1,12	8,58E-04	-1,09	1,49E-03
ENSG00000188021	<i>UBQLN2</i>	-0,60	1,02E-04	-0,51	1,51E-03
ENSG00000149218	<i>ENDOD1</i>	-0,77	9,57E-08	-0,48	1,55E-03
ENSG00000130173	<i>LOC55908</i>	-1,15	2,18E-16	-0,48	1,59E-03
ENSG00000047315	<i>POLR2B</i>	-0,22	4,49E-03	-0,25	1,61E-03
ENSG00000153944	<i>MSI2</i>	-0,53	3,11E-11	-0,27	1,61E-03
ENSG00000197077	<i>KIAA1671</i>	-0,33	1,71E-03	-0,34	1,61E-03
ENSG00000232803	<i>SLCO4A1-AS1</i>	-1,35	3,75E-05	-1,08	1,62E-03
ENSG00000163479	<i>SSR2</i>	-0,46	1,53E-09	-0,26	1,68E-03
ENSG00000116514	<i>RNF19B</i>	-0,65	1,55E-05	-0,49	1,74E-03
ENSG00000174915	<i>PTDSS2</i>	-0,45	1,71E-03	-0,46	1,78E-03
ENSG00000142002	<i>DPP9</i>	-0,31	8,17E-03	-0,37	1,80E-03

ENSG00000144381	<i>HSPD1</i>	-0,56	4,01E-17	-0,23	1,90E-03
ENSG00000114127	<i>XRN1</i>	-0,49	7,69E-05	-0,40	1,93E-03
ENSG00000019186	<i>CYP24A1</i>	-0,71	9,39E-11	-0,36	1,93E-03
ENSG00000104897	<i>SF3A2</i>	-0,55	9,41E-05	-0,45	1,95E-03
ENSG00000130958	<i>SLC35D2</i>	-0,26	4,57E-03	-0,29	1,97E-03
ENSG00000110619	<i>CARS</i>	-0,84	1,87E-12	-0,39	1,97E-03
ENSG00000083444	<i>PLOD1</i>	-0,96	1,79E-33	-0,27	1,98E-03
ENSG00000156875	<i>HIAT1</i>	-0,29	2,68E-03	-0,30	2,09E-03
ENSG00000001617	<i>SEMA3F</i>	-0,53	8,35E-04	-0,51	2,09E-03
ENSG00000158528	<i>PPP1R9A</i>	-0,56	2,20E-08	-0,33	2,14E-03
ENSG00000142186	<i>SCYL1</i>	-0,64	1,27E-12	-0,30	2,16E-03
ENSG00000100029	<i>PES1</i>	-0,50	4,53E-06	-0,35	2,18E-03
ENSG00000198860	<i>TSEN15</i>	-0,56	1,68E-05	-0,42	2,23E-03
ENSG00000173638	<i>SLC19A1</i>	-0,45	2,58E-04	-0,39	2,25E-03
ENSG00000117010	<i>ZNF684</i>	-0,82	7,68E-05	-0,65	2,30E-03
ENSG00000114315	<i>HES1</i>	-0,67	2,07E-03	-0,68	2,38E-03
ENSG00000107263	<i>RAPGEF1</i>	-0,63	6,08E-13	-0,29	2,40E-03
ENSG00000132470	<i>ITGB4</i>	-0,53	7,75E-03	-0,61	2,42E-03
ENSG00000089351	<i>GRAMD1A</i>	-1,60	1,32E-32	-0,43	2,44E-03
ENSG00000085978	<i>ATG16L1</i>	-0,40	2,82E-04	-0,35	2,44E-03
ENSG00000115718	<i>PROC</i>	-0,40	1,43E-06	-0,27	2,47E-03
ENSG00000236609	<i>ZNF853</i>	-0,60	2,10E-04	-0,51	2,49E-03
ENSG00000023445	<i>BIRC3</i>	-0,58	9,99E-03	-0,68	2,51E-03
ENSG00000104055	<i>TGM5</i>	-1,03	2,41E-03	-1,04	2,53E-03
ENSG00000101294	<i>HM13</i>	-0,29	5,87E-04	-0,26	2,55E-03
ENSG00000146858	<i>ZC3HAV1L</i>	-0,55	7,19E-03	-0,62	2,59E-03
ENSG00000178188	<i>SH2B1</i>	-0,49	7,85E-05	-0,39	2,59E-03
ENSG00000162736	<i>NCSTN</i>	-0,41	1,90E-07	-0,26	2,61E-03
ENSG00000232324	<i>AC008440.10</i>	-0,91	6,80E-03	-1,02	2,68E-03
ENSG00000138678	<i>AGPAT9</i>	-0,56	7,39E-03	-0,63	2,70E-03
ENSG00000165661	<i>QSOX2</i>	-0,79	3,90E-16	-0,32	2,84E-03
ENSG00000254986	<i>DPP3</i>	-0,36	5,85E-04	-0,32	2,85E-03

ENSG00000166510	<i>CCDC68</i>	-0,92	1,37E-08	-0,51	2,92E-03
ENSG00000134058	<i>CDK7</i>	-0,44	7,85E-05	-0,35	2,92E-03
ENSG00000196781	<i>LOC645381</i>	-0,30	1,86E-03	-0,29	2,94E-03
ENSG00000064999	<i>ANKS1A</i>	-0,35	1,13E-03	-0,33	2,95E-03
ENSG00000162714	<i>ZNF496</i>	-0,60	5,33E-08	-0,35	2,96E-03
ENSG00000110711	<i>AIP</i>	-0,61	2,37E-08	-0,35	2,99E-03
ENSG00000183458	<i>RP11-958N24.1</i>	-1,05	1,87E-07	-0,63	2,99E-03
ENSG00000083454	<i>P2RX5</i>	-1,11	4,41E-04	-0,96	2,99E-03
ENSG00000151552	<i>QDPR</i>	-0,61	2,52E-09	-0,32	3,02E-03
ENSG00000123240	<i>OPTN</i>	-0,34	4,28E-03	-0,36	3,07E-03
ENSG00000129187	<i>DCTD</i>	-0,41	7,27E-06	-0,29	3,08E-03
ENSG00000049239	<i>H6PD</i>	-0,32	9,64E-05	-0,25	3,12E-03
ENSG00000122026	<i>RPL21</i>	-1,01	1,58E-29	-0,30	3,14E-03
ENSG00000136111	<i>TBC1D4</i>	-0,87	8,57E-28	-0,26	3,22E-03
ENSG00000131482	<i>G6PC</i>	-2,17	8,72E-28	-0,65	3,24E-03
ENSG00000126464	<i>PRR12</i>	-0,48	3,21E-03	-0,49	3,29E-03
ENSG00000049449	<i>RCN1</i>	-0,96	9,77E-16	-0,38	3,29E-03
ENSG00000105220	<i>GPI</i>	-0,48	5,29E-11	-0,24	3,30E-03
ENSG00000183723	<i>CMTM4</i>	-0,49	1,73E-08	-0,28	3,32E-03
ENSG00000105202	<i>FBL</i>	-0,25	7,14E-03	-0,27	3,33E-03
ENSG00000117505	<i>DR1</i>	-0,37	5,42E-04	-0,32	3,33E-03
ENSG00000138363	<i>ATIC</i>	-0,23	2,40E-03	-0,23	3,34E-03
ENSG00000084092	<i>C4ORF14</i>	-0,35	5,68E-03	-0,38	3,37E-03
ENSG00000134318	<i>ROCK2</i>	-0,46	4,33E-09	-0,25	3,39E-03
ENSG00000131781	<i>FMO5</i>	-1,03	2,41E-09	-0,55	3,39E-03
ENSG00000182979	<i>MTA1</i>	-0,56	1,66E-06	-0,36	3,40E-03
ENSG00000155130	<i>MARCKS</i>	-0,48	3,00E-07	-0,29	3,40E-03
ENSG00000136059	<i>VILL</i>	-0,99	8,94E-04	-0,90	3,47E-03
ENSG00000131446	<i>MGAT1</i>	-0,54	2,35E-10	-0,27	3,49E-03
ENSG00000173530	<i>TNFRSF10D</i>	-1,05	3,35E-28	-0,31	3,50E-03
ENSG00000151292	<i>CSNK1G3</i>	-0,55	3,09E-07	-0,33	3,66E-03
ENSG00000143570	<i>SLC39A1</i>	-0,25	7,36E-03	-0,27	3,74E-03

ENSG00000137962	<i>ARHGAP29</i>	-0,84	5,14E-19	-0,30	3,82E-03
ENSG00000146830	<i>GIGYF1</i>	-0,30	8,15E-03	-0,34	3,86E-03
ENSG00000147162	<i>OGT</i>	-0,37	1,80E-04	-0,30	3,90E-03
ENSG00000212907	<i>KRTAP4-11</i>	-0,41	7,04E-06	-0,28	3,95E-03
ENSG00000198756	<i>GLT25D2</i>	-1,62	1,09E-25	-0,47	3,98E-03
ENSG00000182095	<i>TNRC18B</i>	-1,02	7,83E-24	-0,32	4,00E-03
ENSG00000180574	<i>EIF2S3L</i>	-0,95	7,26E-04	-0,83	4,06E-03
ENSG00000104969	<i>SGTA</i>	-0,55	1,73E-10	-0,27	4,09E-03
ENSG00000085733	<i>CTTN</i>	-0,36	9,71E-07	-0,23	4,11E-03
ENSG00000162591	<i>MEGF6</i>	-0,43	8,01E-03	-0,47	4,16E-03
ENSG00000213654	<i>GPSM3</i>	-1,76	3,19E-08	-0,98	4,28E-03
ENSG00000132463	<i>GRSF1</i>	-0,30	5,42E-04	-0,26	4,29E-03
ENSG00000196233	<i>LCOR</i>	-0,33	2,22E-03	-0,32	4,30E-03
ENSG00000137266	<i>SLC22A23</i>	-0,59	2,94E-09	-0,30	4,38E-03
ENSG00000104964	<i>AES</i>	-0,84	2,49E-18	-0,30	4,50E-03
ENSG00000125912	<i>NCLN</i>	-0,54	1,08E-07	-0,31	4,51E-03
ENSG00000089916	<i>C14ORF118</i>	-0,34	5,36E-03	-0,35	4,52E-03
ENSG00000162604	<i>TM2D1</i>	-0,69	8,85E-05	-0,52	4,57E-03
ENSG00000198142	<i>ANKRD57</i>	-0,49	8,44E-08	-0,28	4,64E-03
ENSG00000136098	<i>NEK3</i>	-1,10	7,25E-19	-0,38	4,66E-03
ENSG00000074219	<i>TEAD2</i>	-1,28	2,76E-09	-0,65	4,70E-03
ENSG00000169251	<i>NMD3</i>	-0,43	1,47E-05	-0,30	4,85E-03
ENSG00000244306	<i>LINC01296</i>	-0,51	3,82E-04	-0,42	4,85E-03
ENSG00000157978	<i>LDLRAP1</i>	-0,58	2,32E-04	-0,46	4,87E-03
ENSG00000162729	<i>IGSF8</i>	-0,68	1,05E-06	-0,42	4,92E-03
ENSG00000134070	<i>IRAK2</i>	-0,44	8,81E-04	-0,38	4,96E-03
ENSG00000116251	<i>RPL22</i>	-0,53	8,27E-09	-0,28	5,00E-03
ENSG00000198408	<i>MGEA5</i>	-0,37	1,25E-04	-0,29	5,04E-03
ENSG00000185650	<i>ZFP36L1</i>	-0,49	8,96E-06	-0,33	5,07E-03
ENSG00000140931	<i>CMTM3</i>	-0,77	2,90E-12	-0,33	5,10E-03
ENSG00000134644	<i>PUM1</i>	-0,21	4,59E-03	-0,21	5,15E-03
ENSG00000163682	<i>RPL9</i>	-0,73	5,43E-16	-0,28	5,29E-03

ENSG00000104805	<i>NUCB1</i>	-0,35	2,77E-04	-0,28	5,61E-03
ENSG00000126934	<i>LOC407835</i>	-0,32	6,90E-03	-0,33	5,66E-03
ENSG00000148843	<i>PDCD11</i>	-0,60	3,79E-13	-0,25	5,68E-03
ENSG00000188735	<i>TMEM120B</i>	-0,44	5,26E-03	-0,45	5,69E-03
ENSG00000227210	<i>AC079145.4</i>	-1,13	6,27E-04	-0,94	5,88E-03
ENSG00000139679	<i>LPAR6</i>	-2,56	6,63E-78	-0,40	5,89E-03
ENSG00000152520	<i>PAN3</i>	-0,39	4,00E-03	-0,38	5,91E-03
ENSG00000125046	<i>C3ORF32</i>	-0,49	1,44E-06	-0,30	5,96E-03
ENSG00000148498	<i>PARD3</i>	-0,40	9,18E-06	-0,26	5,99E-03
ENSG00000141698	<i>NT5C3L</i>	-0,28	6,79E-03	-0,29	6,02E-03
ENSG00000081087	<i>OSTM1</i>	-0,41	3,21E-03	-0,39	6,08E-03
ENSG00000180354	<i>C7ORF41</i>	-0,75	4,31E-06	-0,47	6,09E-03
ENSG00000143970	<i>ASXL2</i>	-0,89	4,93E-27	-0,25	6,09E-03
ENSG00000128165	<i>ADM2</i>	-1,09	1,12E-13	-0,44	6,14E-03
ENSG00000174705	<i>SH3PXD2B</i>	-0,54	2,79E-03	-0,51	6,15E-03
ENSG00000170802	<i>FOXN2</i>	-0,99	7,82E-26	-0,28	6,34E-03
ENSG00000169692	<i>AGPAT2</i>	-1,19	9,31E-05	-0,87	6,36E-03
ENSG00000167615	<i>LENG8</i>	-0,55	3,86E-06	-0,35	6,44E-03
ENSG00000173212	<i>C1ORF161</i>	-0,81	8,42E-04	-0,68	6,49E-03
ENSG00000160888	<i>IER2</i>	-0,58	2,38E-04	-0,45	6,50E-03
ENSG00000076201	<i>PTPN23</i>	-0,34	2,47E-03	-0,31	6,63E-03
ENSG00000151715	<i>TMEM45B</i>	-1,14	3,36E-24	-0,34	6,68E-03
ENSG00000225210	<i>DUXAP9</i>	-0,59	2,87E-03	-0,56	6,72E-03
ENSG00000167601	<i>AXL</i>	-0,73	3,05E-04	-0,58	6,73E-03
ENSG00000141580	<i>WDR45L</i>	-0,30	6,42E-04	-0,25	6,81E-03
ENSG00000160953	<i>MUM1</i>	-0,36	2,07E-03	-0,33	6,85E-03
ENSG00000130304	<i>SLC27A1</i>	-0,72	3,21E-03	-0,68	6,92E-03
ENSG00000167118	<i>URM1</i>	-0,33	6,29E-03	-0,33	6,94E-03
ENSG00000116478	<i>HDAC1</i>	-0,31	2,96E-04	-0,24	6,95E-03
ENSG00000156860	<i>FBRS</i>	-0,31	2,45E-03	-0,28	6,97E-03
ENSG00000173153	<i>ESRRA</i>	-0,55	1,23E-05	-0,36	7,12E-03
ENSG00000149806	<i>FAU</i>	-0,35	3,81E-03	-0,34	7,17E-03

ENSG00000114480	<i>GBE1</i>	-0,98	6,18E-17	-0,35	7,24E-03
ENSG00000052795	<i>FNIP2</i>	-0,97	1,73E-28	-0,26	7,24E-03
ENSG00000163930	<i>BAP1</i>	-0,26	4,31E-03	-0,25	7,39E-03
ENSG00000198242	<i>RPL23A</i>	-0,59	2,88E-03	-0,54	7,40E-03
ENSG00000187840	<i>EIF4EBP1</i>	-0,80	9,99E-10	-0,38	7,49E-03
ENSG00000198899	<i>ATP6</i>	-0,29	1,49E-05	-0,19	7,50E-03
ENSG00000168209	<i>DDIT4</i>	-1,59	3,06E-25	-0,43	7,79E-03
ENSG00000180644	<i>PRF1</i>	-1,15	5,83E-04	-0,93	7,84E-03
ENSG00000140545	<i>MFGE8</i>	-1,25	4,12E-07	-0,70	7,91E-03
ENSG00000117479	<i>SLC19A2</i>	-0,69	1,24E-14	-0,26	7,98E-03
ENSG00000250251	<i>PKD1P6</i>	-0,81	7,71E-05	-0,57	8,16E-03
ENSG00000138801	<i>PAPSS1</i>	-0,26	7,20E-03	-0,26	8,49E-03
ENSG00000112715	<i>VEGFA</i>	-0,95	1,63E-21	-0,29	8,50E-03
ENSG00000078403	<i>MLLT10</i>	-0,38	9,00E-05	-0,27	8,60E-03
ENSG00000178607	<i>ERN1</i>	-0,95	3,88E-08	-0,49	8,65E-03
ENSG00000102265	<i>TIMP1</i>	-1,00	9,35E-08	-0,53	8,75E-03
ENSG00000166068	<i>SPRED1</i>	-0,51	2,52E-04	-0,39	8,90E-03
ENSG00000170558	<i>CDH2</i>	-0,61	3,70E-08	-0,32	8,93E-03
ENSG00000122547	<i>EEP1</i>	-0,77	1,42E-07	-0,41	9,00E-03
ENSG00000156482	<i>RPL30</i>	-0,60	8,92E-04	-0,50	9,06E-03
ENSG00000143499	<i>SMYD2</i>	-0,44	4,16E-05	-0,30	9,11E-03
ENSG00000159023	<i>EPB41</i>	-0,26	3,68E-03	-0,24	9,12E-03
ENSG00000238290	<i>RP11-431K24.1</i>	-1,17	2,92E-04	-0,89	9,19E-03
ENSG00000092445	<i>TYRO3</i>	-0,92	1,99E-17	-0,31	9,23E-03
ENSG00000149639	<i>C20ORF117</i>	-0,35	1,11E-03	-0,29	9,36E-03
ENSG00000137267	<i>TUBB2A</i>	-0,76	2,85E-07	-0,42	9,53E-03
ENSG00000164930	<i>FZD6</i>	-0,53	7,90E-04	-0,43	9,56E-03
ENSG00000131746	<i>TNS4</i>	-1,66	1,43E-09	-0,76	9,62E-03
ENSG00000109501	<i>WFS1</i>	-0,52	2,62E-06	-0,31	9,82E-03
ENSG00000084234	<i>APLP2</i>	-0,49	2,37E-15	-0,18	9,90E-03
ENSG00000153714	<i>C9ORF150</i>	-0,82	1,65E-05	-0,52	9,94E-03
ENSG00000243955	<i>GSTA1</i>	4,63	0,00E+00	3,37	2,05E-204

ENSG00000196975	<i>ANXA4</i>	1,28	2,59E-78	1,88	1,18E-170
ENSG00000170099	<i>SERPINA6</i>	1,32	1,15E-85	1,68	2,61E-139
ENSG00000165092	<i>ALDH1A1</i>	2,16	1,31E-228	1,64	1,06E-130
ENSG00000145692	<i>BHMT</i>	2,59	1,03E-117	2,43	4,08E-102
ENSG00000162817	<i>C1ORF115</i>	2,06	3,43E-162	1,62	5,47E-98
ENSG00000111846	<i>GCNT2</i>	1,30	5,62E-52	1,63	2,59E-81
ENSG00000172296	<i>SPTLC3</i>	1,00	1,08E-41	1,31	2,08E-71
ENSG00000066813	<i>ACSM2A</i>	2,70	2,34E-169	1,75	2,87E-68
ENSG00000168385	<i>SEPT2</i>	0,89	2,91E-51	0,88	3,17E-49
ENSG00000183747	<i>ACSM2B</i>	2,83	9,25E-72	2,30	3,65E-46
ENSG00000122787	<i>AKR1D1</i>	1,81	5,60E-81	1,34	4,96E-43
ENSG00000167780	<i>SOAT2</i>	0,47	1,61E-04	1,48	1,05E-39
ENSG00000172239	<i>LOC645139</i>	1,18	3,96E-37	1,20	2,77E-38
ENSG00000198099	<i>ADH4</i>	0,51	1,08E-07	1,17	2,14E-37
ENSG00000113790	<i>EHHADH</i>	0,77	5,77E-14	1,26	5,60E-37
ENSG00000171759	<i>PAH</i>	0,77	1,62E-35	0,78	2,54E-36
ENSG00000244067	<i>GSTA2</i>	4,00	6,53E-81	2,73	4,76E-36
ENSG00000102931	<i>ARL2BP</i>	1,93	1,38E-51	1,64	4,87E-36
ENSG00000178988	<i>MRFAP1L1</i>	1,21	5,90E-34	1,25	5,24E-36
ENSG00000105398	<i>SULT2A1</i>	1,23	6,04E-71	0,88	5,94E-36
ENSG00000139219	<i>COL2A1</i>	1,29	3,18E-10	2,40	4,88E-35
ENSG00000117528	<i>ABCD3</i>	0,94	2,81E-40	0,88	1,99E-34
ENSG00000188582	<i>PAQR9</i>	0,35	3,73E-03	1,28	2,29E-34
ENSG00000211452	<i>DIO1</i>	2,31	4,76E-65	1,71	3,15E-34
ENSG00000256162	<i>SMLR1</i>	0,69	2,10E-24	0,83	4,00E-34
ENSG00000131242	<i>RAB11FIP4</i>	0,88	1,87E-33	0,90	4,86E-34
ENSG00000167910	<i>CYP7A1</i>	2,50	1,38E-49	2,08	2,04E-33
ENSG00000166450	<i>PRTG</i>	0,46	1,69E-06	1,08	2,04E-33
ENSG00000113583	<i>C5ORF15</i>	0,75	8,20E-16	1,09	4,39E-33
ENSG00000111897	<i>SERINC1</i>	0,60	4,97E-12	1,01	5,17E-33
ENSG00000089597	<i>GANAB</i>	0,29	3,17E-04	0,88	7,34E-33
ENSG00000119711	<i>ALDH6A1</i>	1,26	2,85E-30	1,30	8,63E-32

ENSG00000129214	<i>SHBG</i>	0,71	4,98E-05	1,85	2,71E-31
ENSG00000147400	<i>CETN2</i>	0,78	2,51E-15	1,13	2,98E-31
ENSG00000073712	<i>FERMT2</i>	0,63	9,70E-15	0,92	1,27E-30
ENSG00000175567	<i>UCP2</i>	0,79	4,17E-13	1,21	2,54E-30
ENSG00000187189	<i>TSPYL4</i>	1,23	3,30E-31	1,21	9,88E-30
ENSG00000134962	<i>KLB</i>	0,52	1,24E-11	0,84	1,23E-29
ENSG00000104371	<i>DKK4</i>	2,09	2,71E-14	3,02	1,23E-29
ENSG00000078668	<i>VDAC3</i>	0,89	3,49E-32	0,86	2,16E-29
ENSG00000196502	<i>SULT1A1</i>	0,79	1,91E-24	0,87	2,21E-29
ENSG00000144118	<i>RALB</i>	1,26	4,73E-29	1,27	3,73E-29
ENSG00000113889	<i>KNG1</i>	0,62	1,44E-05	1,46	5,43E-28
ENSG00000154930	<i>ACSS1</i>	0,39	8,53E-05	1,00	2,62E-27
ENSG00000117601	<i>SERPINC1</i>	1,47	2,74E-90	0,81	2,35E-26
ENSG00000182326	<i>C1S</i>	1,84	2,36E-56	1,27	4,29E-26
ENSG00000112494	<i>UNC93A</i>	0,39	3,26E-03	1,26	5,52E-26
ENSG00000109814	<i>UGDH</i>	1,13	1,96E-66	0,71	6,94E-26
ENSG00000100814	<i>CCNB1IP1</i>	0,61	1,76E-08	1,09	7,77E-26
ENSG00000132541	<i>HRSP12</i>	0,60	1,49E-04	1,49	3,11E-25
ENSG00000172795	<i>DCP2</i>	0,42	9,38E-06	0,92	4,21E-25
ENSG00000165410	<i>CFL2</i>	0,62	8,11E-20	0,71	5,99E-25
ENSG00000081051	<i>AFP</i>	0,62	1,74E-18	0,73	2,01E-24
ENSG00000170482	<i>SLC23A1</i>	2,51	6,14E-56	1,70	2,05E-24
ENSG00000112078	<i>KCTD20</i>	0,65	1,61E-17	0,77	3,52E-24
ENSG00000120697	<i>ALG5</i>	1,07	1,62E-13	1,44	4,73E-24
ENSG00000120262	<i>C6ORF97</i>	1,02	5,83E-07	1,94	5,13E-24
ENSG00000096092	<i>TMEM14A</i>	1,76	2,39E-53	1,20	5,89E-24
ENSG00000134049	<i>IER3IP1</i>	1,00	2,11E-15	1,26	7,37E-24
ENSG00000171612	<i>SLC25A33</i>	0,58	4,49E-09	0,97	1,17E-23
ENSG00000072210	<i>ALDH3A2</i>	0,65	2,60E-19	0,72	2,25E-23
ENSG00000151632	<i>AKR1C2</i>	1,89	5,68E-140	0,77	2,30E-23
ENSG00000134717	<i>BTF3L4</i>	0,45	1,04E-04	1,08	2,33E-23
ENSG00000186106	<i>ANKRD46</i>	0,53	7,69E-05	1,24	2,52E-23

ENSG00000165526	<i>RPUSD4</i>	0,58	2,07E-07	1,03	3,80E-22
ENSG00000130779	<i>CLIP1</i>	0,38	3,28E-05	0,83	6,21E-22
ENSG00000140284	<i>SLC27A2</i>	0,69	3,55E-07	1,24	1,11E-21
ENSG00000163624	<i>CDS1</i>	0,56	5,71E-04	1,41	1,40E-21
ENSG00000152601	<i>MBNL1</i>	1,01	2,85E-30	0,86	1,62E-21
ENSG00000156510	<i>HKDC1</i>	1,22	4,12E-22	1,21	1,74E-21
ENSG00000152620	<i>C5ORF33</i>	0,33	1,11E-04	0,75	3,96E-21
ENSG00000146416	<i>AIG1</i>	0,67	3,12E-14	0,82	2,01E-20
ENSG00000196177	<i>ACADSB</i>	0,18	7,29E-03	0,57	2,59E-20
ENSG00000205364	<i>MT1M</i>	1,66	8,55E-08	2,74	3,63E-20
ENSG00000185155	<i>MIXL1</i>	0,90	3,03E-19	0,93	3,78E-20
ENSG00000102753	<i>KPNA3</i>	0,55	1,69E-11	0,74	3,78E-20
ENSG00000115425	<i>PECR</i>	0,63	4,43E-14	0,76	7,48E-20
ENSG00000196937	<i>FAM3C</i>	0,44	2,44E-03	1,19	1,64E-19
ENSG00000121578	<i>B4GALT4</i>	0,41	1,36E-03	1,04	2,09E-19
ENSG00000100744	<i>C14ORF129</i>	0,48	8,26E-04	1,17	2,55E-19
ENSG00000154080	<i>CHST9</i>	1,50	7,49E-19	1,53	2,80E-19
ENSG00000138823	<i>MTTP</i>	1,07	1,68E-31	0,83	7,26E-19
ENSG00000139324	<i>TMTCP3</i>	1,15	5,63E-22	1,07	8,14E-19
ENSG00000115365	<i>LANCL1</i>	0,61	8,08E-18	0,63	8,69E-19
ENSG00000153130	<i>SCOC</i>	0,41	5,01E-05	0,85	1,13E-18
ENSG00000121858	<i>TNFSF10</i>	0,79	1,81E-14	0,90	2,46E-18
ENSG00000169562	<i>GJB1</i>	0,35	1,74E-05	0,68	5,43E-18
ENSG00000147255	<i>IGSF1</i>	0,70	3,17E-24	0,61	6,69E-18
ENSG00000153066	<i>TXND11</i>	0,52	4,01E-10	0,70	1,49E-17
ENSG00000008394	<i>MGST1</i>	0,80	2,35E-23	0,70	1,99E-17
ENSG00000111052	<i>LIN7A</i>	0,49	1,34E-06	0,82	2,34E-17
ENSG00000166035	<i>LIPC</i>	0,64	2,30E-08	0,94	4,65E-17
ENSG00000110169	<i>HPX</i>	1,70	8,79E-22	1,51	5,94E-17
ENSG00000198417	<i>MT1F</i>	2,10	1,10E-18	2,00	7,92E-17
ENSG00000132837	<i>DMGDH</i>	1,33	4,67E-20	1,23	1,08E-16
ENSG00000090512	<i>FETUB</i>	1,87	1,56E-19	1,74	1,61E-16

ENSG00000151090	<i>THRΒ</i>	1,27	3,34E-32	0,91	2,88E-16
ENSG00000138308	<i>PLA2G12B</i>	0,93	5,99E-15	0,98	3,11E-16
ENSG00000182985	<i>CADM1</i>	0,98	8,73E-30	0,73	3,17E-16
ENSG00000132677	<i>RHBG</i>	1,60	5,77E-60	0,84	3,19E-16
ENSG00000204899	<i>C13ORF37</i>	0,81	9,49E-09	1,12	3,25E-16
ENSG00000137869	<i>CYP19A1</i>	0,64	3,87E-06	1,08	5,94E-16
ENSG00000127946	<i>HIP1</i>	0,85	1,33E-08	1,19	7,00E-16
ENSG00000137831	<i>UACA</i>	0,58	1,10E-06	0,93	7,52E-16
ENSG00000204128	<i>C20RF72</i>	0,66	3,06E-22	0,56	8,10E-16
ENSG00000196660	<i>SLC30A10</i>	0,68	8,92E-10	0,88	8,50E-16
ENSG00000133835	<i>HSD17B4</i>	0,42	5,61E-09	0,56	1,49E-15
ENSG00000205978	<i>NYNRIN</i>	2,23	4,84E-28	1,68	1,57E-15
ENSG00000170456	<i>DENND5B</i>	0,42	1,63E-05	0,73	2,18E-15
ENSG00000100997	<i>ABHD12</i>	0,44	5,04E-06	0,74	2,65E-15
ENSG00000184117	<i>NIPSNAP1</i>	0,30	2,21E-04	0,61	2,82E-15
ENSG00000141504	<i>SAT2</i>	0,91	9,51E-18	0,85	3,14E-15
ENSG00000144045	<i>DQX1</i>	0,55	3,06E-08	0,76	3,70E-15
ENSG00000112294	<i>ALDH5A1</i>	0,48	3,49E-08	0,68	3,72E-15
ENSG00000168234	<i>TTC39C</i>	0,89	8,85E-16	0,88	4,43E-15
ENSG00000170899	<i>GSTA4</i>	1,03	3,34E-20	0,89	5,98E-15
ENSG00000138356	<i>AOX1</i>	0,89	1,08E-36	0,57	8,04E-15
ENSG00000175854	<i>C9ORF119</i>	0,86	1,83E-08	1,17	9,36E-15
ENSG00000104325	<i>DECR1</i>	0,94	1,04E-18	0,84	9,69E-15
ENSG00000165650	<i>PDZD8</i>	0,66	1,25E-14	0,67	1,23E-14
ENSG00000138413	<i>IDH1</i>	0,67	4,10E-35	0,43	1,32E-14
ENSG00000069535	<i>MAOB</i>	1,12	9,82E-29	0,80	1,63E-14
ENSG00000119927	<i>GPAM</i>	0,93	7,26E-38	0,57	1,98E-14
ENSG00000114021	<i>NIT2</i>	0,52	7,95E-05	0,94	2,87E-14
ENSG00000115073	<i>ACTR1B</i>	0,49	1,77E-08	0,65	2,91E-14
ENSG00000100075	<i>SLC25A1</i>	0,84	5,15E-27	0,61	2,96E-14
ENSG00000131981	<i>LGALS3</i>	0,36	1,04E-03	0,78	3,02E-14
ENSG00000077254	<i>USP33</i>	0,72	3,69E-11	0,82	3,15E-14

ENSG00000156968	<i>MPV17L</i>	0,35	3,77E-03	0,84	5,14E-14
ENSG00000129354	<i>AP1M2</i>	1,62	4,23E-36	1,02	6,66E-14
ENSG00000143322	<i>ABL2</i>	0,60	1,42E-08	0,78	8,17E-14
ENSG00000117834	<i>SLC5A9</i>	1,09	3,54E-27	0,78	9,43E-14
ENSG00000183844	<i>FAM3B</i>	1,12	6,87E-21	0,91	1,06E-13
ENSG00000100867	<i>DHRS2</i>	0,53	1,27E-19	0,44	1,36E-13
ENSG00000079332	<i>SAR1A</i>	0,32	6,81E-04	0,65	3,40E-13
ENSG00000091483	<i>FH</i>	0,36	2,87E-05	0,61	4,28E-13
ENSG00000149809	<i>TM7SF2</i>	0,54	1,16E-06	0,78	4,41E-13
ENSG00000023909	<i>GCLM</i>	0,84	3,34E-16	0,76	5,38E-13
ENSG00000088766	<i>CRLS1</i>	0,44	9,54E-10	0,52	5,93E-13
ENSG00000143921	<i>ABCG8</i>	1,60	3,73E-35	0,98	6,57E-13
ENSG00000111275	<i>ALDH2</i>	0,71	1,41E-15	0,64	1,16E-12
ENSG00000089220	<i>PEBP1</i>	0,67	1,63E-22	0,50	1,22E-12
ENSG00000124370	<i>MCEE</i>	0,51	7,01E-04	0,99	1,36E-12
ENSG00000152078	<i>TMEM56</i>	0,82	6,17E-18	0,69	1,40E-12
ENSG00000137992	<i>DBT</i>	0,42	4,45E-03	0,95	1,74E-12
ENSG00000124383	<i>MPHOSPH10</i>	0,49	1,61E-11	0,52	1,80E-12
ENSG00000072364	<i>AFF4</i>	0,51	1,94E-10	0,57	1,87E-12
ENSG00000138796	<i>HADH</i>	0,57	1,25E-09	0,66	1,98E-12
ENSG00000228716	<i>DHFR</i>	0,63	1,69E-11	0,67	2,24E-12
ENSG00000181019	<i>NQO1</i>	1,33	1,28E-70	0,55	2,36E-12
ENSG00000144908	<i>ALDH1L1</i>	1,22	1,90E-31	0,77	2,39E-12
ENSG00000187630	<i>DHRS4L2</i>	0,89	5,02E-11	0,95	2,55E-12
ENSG00000080824	<i>HSP90AA1</i>	0,35	1,33E-10	0,38	2,71E-12
ENSG00000196083	<i>IL1RAP</i>	0,57	4,78E-09	0,67	5,87E-12
ENSG00000128311	<i>TST</i>	0,55	2,78E-06	0,79	6,59E-12
ENSG00000109205	<i>ODAM</i>	0,51	1,89E-03	1,04	6,76E-12
ENSG00000178802	<i>MPI</i>	0,40	4,89E-04	0,74	8,69E-12
ENSG00000116774	<i>OLFML3</i>	2,58	2,21E-30	1,63	9,13E-12
ENSG00000164134	<i>NAA15</i>	0,43	4,16E-05	0,68	9,26E-12
ENSG00000168060	<i>NAALADL1</i>	1,63	1,96E-37	0,92	9,78E-12

ENSG00000171848	<i>RRM2</i>	0,40	3,25E-08	0,49	1,10E-11
ENSG00000106853	<i>PTGR1</i>	2,74	2,92E-65	1,17	1,50E-11
ENSG00000117280	<i>RAB7L1</i>	0,77	1,98E-07	0,98	1,50E-11
ENSG00000167074	<i>TEF</i>	0,98	1,27E-10	1,03	1,63E-11
ENSG00000166483	<i>WEE1</i>	0,39	5,10E-04	0,72	1,85E-11
ENSG00000115255	<i>REEP6</i>	1,21	2,73E-21	0,89	1,88E-11
ENSG00000125144	<i>MT1G</i>	1,80	3,38E-13	1,68	2,00E-11
ENSG00000243818	<i>RP11-372E1.4</i>	1,02	4,49E-08	1,23	2,21E-11
ENSG00000117632	<i>STMN1</i>	0,33	6,56E-05	0,53	2,32E-11
ENSG00000092841	<i>MYL6</i>	0,24	5,84E-03	0,55	2,33E-11
ENSG00000070501	<i>POLB</i>	0,97	7,28E-12	0,96	3,72E-11
ENSG00000197535	<i>MYO5A</i>	0,81	2,94E-09	0,90	3,74E-11
ENSG00000091583	<i>APOH</i>	0,80	5,09E-43	0,40	4,67E-11
ENSG00000082146	<i>STRADB</i>	0,66	3,26E-15	0,56	4,86E-11
ENSG00000173482	<i>PTPRM</i>	0,61	1,09E-10	0,62	4,89E-11
ENSG00000180964	<i>TCEAL8</i>	0,37	7,92E-03	0,83	6,38E-11
ENSG00000108187	<i>PBLD</i>	1,42	8,75E-11	1,43	9,04E-11
ENSG00000159322	<i>ADPGK</i>	0,36	8,65E-04	0,66	1,11E-10
ENSG00000149679	<i>CABLES2</i>	0,74	2,34E-07	0,90	1,53E-10
ENSG00000132437	<i>DDC</i>	0,98	6,70E-22	0,68	1,61E-10
ENSG00000182704	<i>TSKU</i>	1,38	1,44E-38	0,72	1,77E-10
ENSG00000128394	<i>APOBEC3F</i>	0,87	1,12E-03	1,59	1,83E-10
ENSG00000108479	<i>GALK1</i>	0,91	3,25E-17	0,71	1,84E-10
ENSG00000171174	<i>RBKS</i>	0,59	4,84E-04	1,02	1,92E-10
ENSG00000064225	<i>ST3GAL6</i>	0,70	1,19E-08	0,79	2,29E-10
ENSG00000138036	<i>DYNC2LI1</i>	0,58	8,06E-04	1,03	2,46E-10
ENSG00000137274	<i>BPHL</i>	0,60	1,70E-04	0,96	3,01E-10
ENSG00000198130	<i>HIBCH</i>	0,31	5,60E-03	0,66	3,01E-10
ENSG00000197894	<i>ADH5</i>	0,24	4,13E-04	0,40	4,57E-10
ENSG00000076003	<i>MCM6</i>	0,95	6,43E-20	0,68	5,37E-10
ENSG00000170873	<i>MTSS1</i>	0,69	2,03E-14	0,58	5,67E-10
ENSG00000070087	<i>PFN2</i>	0,46	1,34E-06	0,59	5,77E-10

ENSG00000108576	<i>SLC6A4</i>	1,05	9,77E-18	0,79	5,84E-10
ENSG00000237172	<i>B3GNT9</i>	1,19	3,97E-05	1,73	6,32E-10
ENSG00000099968	<i>BCL2L13</i>	0,68	5,10E-08	0,78	6,86E-10
ENSG00000145703	<i>IQGAP2</i>	0,57	4,14E-16	0,45	6,88E-10
ENSG00000110436	<i>SLC1A2</i>	0,25	4,79E-03	0,51	7,98E-10
ENSG00000198074	<i>AKR1B10</i>	2,76	4,56E-120	0,79	1,05E-09
ENSG00000151413	<i>NUBPL</i>	0,92	7,12E-19	0,66	1,19E-09
ENSG00000148180	<i>GSN</i>	0,80	2,29E-44	0,37	1,19E-09
ENSG00000118508	<i>RAB32</i>	0,62	1,22E-10	0,59	1,39E-09
ENSG00000029364	<i>SLC39A9</i>	0,73	2,17E-17	0,54	1,39E-09
ENSG00000234127	<i>TRIM26</i>	1,10	4,55E-30	0,62	1,54E-09
ENSG00000120860	<i>CCDC53</i>	0,70	2,79E-05	0,97	1,71E-09
ENSG00000105852	<i>PON3</i>	1,22	2,49E-18	0,88	2,07E-09
ENSG00000130770	<i>ATPIF1</i>	0,38	2,87E-03	0,71	2,11E-09
ENSG00000177565	<i>TBL1XR1</i>	0,83	4,06E-17	0,62	2,28E-09
ENSG00000143819	<i>EPHX1</i>	1,53	1,10E-69	0,56	2,33E-09
ENSG00000186115	<i>CYP4F2</i>	0,79	2,46E-04	1,22	2,54E-09
ENSG00000095209	<i>TMEM38B</i>	0,47	3,93E-04	0,76	2,67E-09
ENSG00000131844	<i>MCCC2</i>	0,35	9,10E-06	0,46	2,78E-09
ENSG00000138078	<i>PREPL</i>	0,66	1,81E-11	0,59	3,25E-09
ENSG00000174327	<i>SLC16A13</i>	1,01	1,02E-10	0,94	3,41E-09
ENSG00000124713	<i>GNMT</i>	1,83	1,24E-14	1,46	3,47E-09
ENSG00000013583	<i>HEBP1</i>	0,96	6,95E-11	0,89	3,69E-09
ENSG00000150977	<i>RILPL2</i>	1,10	3,04E-15	0,85	3,90E-09
ENSG00000100373	<i>UPK3A</i>	2,24	4,01E-36	1,14	4,47E-09
ENSG00000062282	<i>DGAT2</i>	1,35	5,35E-46	0,60	4,74E-09
ENSG00000148584	<i>A1CF</i>	0,57	6,60E-09	0,58	4,75E-09
ENSG00000039068	<i>CDH1</i>	0,81	3,11E-08	0,85	7,83E-09
ENSG00000113494	<i>PRLR</i>	0,34	5,72E-03	0,67	7,83E-09
ENSG00000115355	<i>CCDC88A</i>	0,28	7,61E-03	0,56	8,32E-09
ENSG00000162433	<i>AK3L1</i>	0,47	1,52E-10	0,43	8,63E-09
ENSG00000042286	<i>AIFM2</i>	0,80	1,22E-16	0,58	9,09E-09

ENSG00000147475	<i>ERLIN2</i>	0,29	9,14E-04	0,48	1,03E-08
ENSG00000038210	<i>PI4K2B</i>	0,44	1,35E-06	0,52	1,11E-08
ENSG00000171100	<i>MTM1</i>	0,52	7,60E-05	0,73	1,16E-08
ENSG00000145476	<i>CYP4V2</i>	0,60	9,23E-05	0,85	1,21E-08
ENSG00000070061	<i>IKBKAP</i>	0,56	2,20E-16	0,40	1,26E-08
ENSG0000014641	<i>MDH1</i>	0,26	1,53E-03	0,45	1,30E-08
ENSG00000141349	<i>G6PC3</i>	0,35	6,26E-03	0,67	1,40E-08
ENSG00000161533	<i>ACOX1</i>	0,43	3,93E-09	0,42	1,43E-08
ENSG00000166816	<i>LDHD</i>	1,06	5,37E-08	1,11	1,75E-08
ENSG00000115919	<i>KYNU</i>	0,55	5,21E-09	0,54	1,77E-08
ENSG00000183978	<i>CCDC56</i>	0,65	1,21E-11	0,56	1,81E-08
ENSG00000251164	<i>HULC</i>	0,92	1,71E-06	1,07	2,21E-08
ENSG00000197165	<i>SULT1A2</i>	1,07	1,26E-17	0,74	2,22E-08
ENSG00000119333	<i>WDR34</i>	0,66	1,28E-06	0,76	2,35E-08
ENSG00000162704	<i>ARPC5</i>	0,41	3,69E-05	0,54	2,59E-08
ENSG00000131018	<i>SYNE1</i>	1,43	1,93E-44	0,61	3,03E-08
ENSG00000231574	<i>KCCAT211</i>	1,69	3,39E-10	1,53	3,27E-08
ENSG00000143158	<i>BRP44</i>	0,89	1,80E-14	0,67	3,45E-08
ENSG00000100983	<i>GSS</i>	0,62	2,98E-13	0,49	3,96E-08
ENSG00000166974	<i>MAPRE2</i>	0,27	9,23E-03	0,53	5,41E-08
ENSG00000129691	<i>ASH2L</i>	0,57	1,87E-08	0,56	6,35E-08
ENSG00000142166	<i>IFNAR1</i>	0,49	3,28E-07	0,52	6,71E-08
ENSG00000197557	<i>TTC30A</i>	0,82	5,03E-04	1,22	6,71E-08
ENSG00000134575	<i>ACP2</i>	0,52	1,21E-04	0,72	7,31E-08
ENSG00000165934	<i>CPSF2</i>	0,37	3,19E-05	0,47	7,60E-08
ENSG00000188690	<i>UROS</i>	0,65	9,25E-07	0,71	7,76E-08
ENSG00000117305	<i>HMGCL</i>	0,49	1,60E-04	0,68	8,00E-08
ENSG00000102804	<i>TSC22D1</i>	0,95	4,22E-19	0,60	9,15E-08
ENSG00000141034	<i>C17ORF39</i>	0,58	1,36E-03	0,93	9,47E-08
ENSG00000180667	<i>YOD1</i>	0,45	1,02E-03	0,69	9,49E-08
ENSG0000006282	<i>SPATA20</i>	0,92	3,69E-21	0,55	9,51E-08
ENSG00000139410	<i>SDSL</i>	0,92	1,20E-03	1,45	9,93E-08

ENSG00000173402	DAG1	0,30	3,03E-04	0,43	1,03E-07
ENSG00000110243	APOA5	0,43	7,61E-06	0,51	1,06E-07
ENSG00000166311	SMPD1	0,85	4,83E-07	0,90	1,08E-07
ENSG00000095139	ARCN1	0,35	3,09E-07	0,37	1,10E-07
ENSG00000005189	LOC1691	1,05	2,16E-11	0,86	1,17E-07
ENSG00000176974	SHMT1	0,82	1,94E-14	0,60	1,32E-07
ENSG00000088305	DNMT3B	0,99	3,38E-12	0,79	1,33E-07
ENSG0000004897	CDC27	0,22	5,14E-03	0,40	1,42E-07
ENSG00000120948	TARDBP	0,41	6,75E-08	0,40	1,45E-07
ENSG00000115486	GGCX	0,43	3,82E-07	0,45	1,48E-07
ENSG00000187164	KIAA1598	0,40	1,69E-04	0,55	1,53E-07
ENSG00000205423	LOC100130176	0,69	1,12E-06	0,75	1,53E-07
ENSG00000117408	IPO13	0,78	7,15E-12	0,62	1,66E-07
ENSG00000113594	LIFR	0,51	4,42E-06	0,58	1,83E-07
ENSG00000162735	PEX19	0,48	1,71E-05	0,58	1,86E-07
ENSG00000124120	TTPAL	0,76	2,19E-13	0,56	1,97E-07
ENSG00000087586	AURKA	0,38	1,11E-06	0,41	2,38E-07
ENSG00000164039	BDH2	1,44	1,05E-14	1,02	2,43E-07
ENSG00000198919	DZIP3	0,85	1,55E-13	0,62	2,46E-07
ENSG00000137713	PPP2R1B	0,30	4,16E-05	0,38	2,48E-07
ENSG00000155640	C100RF12	0,70	8,48E-05	0,91	2,48E-07
ENSG00000094631	HDAC6	0,63	1,97E-12	0,48	2,62E-07
ENSG00000135617	C20RF7	1,23	3,31E-14	0,88	2,65E-07
ENSG00000139865	TTC6	0,98	1,88E-09	0,86	2,86E-07
ENSG00000147465	STAR	1,15	1,04E-08	1,05	2,98E-07
ENSG00000106789	CORO2A	0,50	3,91E-07	0,51	3,02E-07
ENSG00000132840	BHMT2	0,43	1,26E-04	0,57	3,04E-07
ENSG00000092820	EZR	0,53	5,10E-12	0,41	3,06E-07
ENSG00000172955	ADH6	0,82	1,20E-30	0,39	3,15E-07
ENSG00000156398	SFXN2	0,92	1,36E-09	0,80	3,15E-07
ENSG00000181274	FRAT2	0,86	1,94E-08	0,80	3,33E-07
ENSG00000170915	PAQR8	0,44	2,13E-06	0,47	4,03E-07

ENSG00000158793	<i>NIT1</i>	0,50	1,62E-03	0,77	4,20E-07
ENSG00000157326	<i>DHRS4</i>	0,76	1,41E-05	0,88	4,29E-07
ENSG00000168246	<i>UBTD2</i>	0,29	6,12E-03	0,51	4,51E-07
ENSG00000139194	<i>RBP5</i>	1,03	2,90E-08	0,96	4,54E-07
ENSG00000136935	<i>GOLGA1</i>	0,73	3,56E-13	0,53	4,69E-07
ENSG00000163964	<i>PIGX</i>	0,38	9,82E-03	0,70	4,69E-07
ENSG00000104524	<i>PYCRL</i>	0,61	4,63E-03	1,01	5,18E-07
ENSG00000163644	<i>PPM1K</i>	0,76	5,45E-04	1,07	5,66E-07
ENSG00000197780	<i>TAF13</i>	0,64	1,71E-05	0,73	6,58E-07
ENSG00000080371	<i>RAB21</i>	0,56	1,40E-07	0,54	6,71E-07
ENSG00000150764	<i>DIXDC1</i>	0,57	7,79E-10	0,48	7,33E-07
ENSG00000137561	<i>TTPA</i>	2,11	7,06E-19	1,27	8,09E-07
ENSG00000168566	<i>SNRNP48</i>	0,33	7,61E-04	0,46	8,16E-07
ENSG00000185515	<i>BRCC3</i>	0,34	5,59E-03	0,57	8,24E-07
ENSG00000198721	<i>PECI</i>	0,52	3,80E-07	0,51	8,40E-07
ENSG00000138175	<i>ARL3</i>	0,54	3,96E-03	0,87	8,46E-07
ENSG00000075945	<i>KIFAP3</i>	0,87	7,36E-08	0,82	8,63E-07
ENSG00000108984	<i>MAP2K6</i>	1,35	8,29E-13	0,98	8,69E-07
ENSG00000142677	<i>IL22RA1</i>	1,30	9,58E-21	0,73	1,06E-06
ENSG00000239713	<i>APOBEC3G</i>	1,20	4,73E-05	1,43	1,08E-06
ENSG00000101003	<i>GINS1</i>	0,30	8,25E-03	0,52	1,10E-06
ENSG00000152056	<i>AP1S3</i>	0,56	1,03E-03	0,81	1,11E-06
ENSG00000198001	<i>IRAK4</i>	0,74	8,23E-05	0,90	1,17E-06
ENSG00000091262	<i>ABCC6</i>	1,12	1,90E-33	0,49	1,18E-06
ENSG00000254233	<i>RP11-242J7.1</i>	1,48	6,97E-15	0,98	1,21E-06
ENSG00000170445	<i>HARS</i>	0,32	2,76E-03	0,50	1,24E-06
ENSG00000185745	<i>IFIT1</i>	1,79	2,82E-14	1,21	1,25E-06
ENSG00000204682	<i>C10ORF114</i>	0,61	1,84E-04	0,78	1,27E-06
ENSG00000156735	<i>BAG4</i>	0,31	4,23E-03	0,50	1,28E-06
ENSG00000179528	<i>LBX2</i>	1,14	3,54E-09	0,97	1,33E-06
ENSG00000183044	<i>ABAT</i>	0,46	1,22E-09	0,37	1,47E-06
ENSG00000034693	<i>PEX3</i>	0,52	4,66E-04	0,70	1,71E-06

ENSG00000083093	<i>PALB2</i>	0,54	2,08E-07	0,50	2,36E-06
ENSG00000158435	<i>C2ORF29</i>	0,34	2,04E-04	0,43	2,38E-06
ENSG00000124508	<i>BTN2A2</i>	0,72	4,45E-05	0,83	2,41E-06
ENSG00000144852	<i>NR1I2</i>	1,46	1,20E-18	0,84	2,45E-06
ENSG00000122591	<i>FAM126A</i>	0,46	7,74E-07	0,45	2,46E-06
ENSG00000116906	<i>GNPAT</i>	0,60	3,54E-15	0,38	2,53E-06
ENSG00000164187	<i>LMBRD2</i>	0,46	7,88E-03	0,77	2,57E-06
ENSG00000185787	<i>MORF4</i>	0,29	2,40E-05	0,32	2,79E-06
ENSG00000212978	<i>AC016747.3</i>	0,82	5,76E-09	0,68	2,83E-06
ENSG00000164089	<i>AGXT2L1</i>	1,63	3,10E-13	1,11	2,97E-06
ENSG00000006576	<i>PHTF2</i>	0,44	3,85E-03	0,67	3,06E-06
ENSG00000120265	<i>PCMT1</i>	0,37	8,55E-06	0,39	3,08E-06
ENSG00000035141	<i>FAM136A</i>	0,75	2,64E-16	0,46	3,23E-06
ENSG00000166391	<i>MOGAT2</i>	1,30	2,29E-50	0,45	3,26E-06
ENSG00000127952	<i>STYXL1</i>	0,55	1,34E-03	0,77	3,49E-06
ENSG00000101400	<i>SNTA1</i>	0,85	2,13E-12	0,59	3,55E-06
ENSG00000135387	<i>CAPRIN1</i>	0,63	2,39E-25	0,30	3,57E-06
ENSG00000178772	<i>CPN2</i>	0,96	2,21E-31	0,42	3,81E-06
ENSG00000144401	<i>FAM119A</i>	0,55	8,25E-06	0,58	3,98E-06
ENSG00000100714	<i>MTHFD1</i>	0,43	4,03E-08	0,37	4,11E-06
ENSG00000100897	<i>DCAF11</i>	0,35	1,87E-07	0,32	4,35E-06
ENSG00000198585	<i>NUDT16</i>	0,74	4,52E-12	0,51	4,70E-06
ENSG00000106780	<i>MEGF9</i>	0,42	8,28E-05	0,49	4,87E-06
ENSG00000138744	<i>NAAA</i>	0,49	1,03E-03	0,66	5,15E-06
ENSG00000118564	<i>FBXL5</i>	0,52	1,55E-05	0,55	5,42E-06
ENSG00000178537	<i>SLC25A20</i>	1,36	1,26E-27	0,62	6,28E-06
ENSG00000142892	<i>PIGK</i>	0,43	7,69E-04	0,57	6,41E-06
ENSG00000103496	<i>STX4</i>	0,69	6,43E-08	0,60	6,46E-06
ENSG00000137364	<i>TPMT</i>	0,55	1,59E-05	0,58	6,55E-06
ENSG00000145217	<i>SLC26A1</i>	0,92	1,48E-10	0,68	6,91E-06
ENSG00000167046	<i>FLJ32154</i>	1,65	1,59E-07	1,45	7,06E-06
ENSG00000083799	<i>CYLD</i>	0,46	1,27E-04	0,54	7,56E-06

ENSG00000182378	<i>PLCXD1</i>	0,29	1,45E-04	0,34	7,76E-06
ENSG00000250799	<i>PRODH2</i>	0,62	2,40E-10	0,46	7,81E-06
ENSG00000130988	<i>RGN</i>	0,75	4,43E-12	0,51	8,36E-06
ENSG00000142507	<i>PSMB6</i>	0,28	9,40E-03	0,45	9,04E-06
ENSG00000127884	<i>ECHS1</i>	0,27	1,36E-03	0,37	9,05E-06
ENSG00000179761	<i>PIPOX</i>	0,98	5,73E-48	0,33	1,04E-05
ENSG00000164124	<i>TMEM144</i>	0,50	2,51E-03	0,70	1,14E-05
ENSG00000176209	<i>C8ORF40</i>	0,55	7,01E-03	0,85	1,16E-05
ENSG00000197375	<i>SLC22A5</i>	0,52	7,27E-03	0,80	1,26E-05
ENSG00000186088	<i>PION</i>	0,64	4,74E-05	0,69	1,27E-05
ENSG00000079482	<i>OPHN1</i>	0,83	7,16E-04	1,05	1,39E-05
ENSG00000159403	<i>C1R</i>	1,26	1,70E-06	1,17	1,47E-05
ENSG00000155629	<i>PIK3AP1</i>	0,91	2,42E-06	0,85	1,47E-05
ENSG00000110245	<i>APOC3</i>	0,79	4,84E-24	0,36	1,59E-05
ENSG00000163743	<i>RCHY1</i>	1,26	1,59E-19	0,66	1,59E-05
ENSG00000124588	<i>NQO2</i>	0,77	8,22E-08	0,64	1,62E-05
ENSG00000128581	<i>RABL5</i>	0,71	1,10E-03	0,92	1,62E-05
ENSG00000151502	<i>VPS26B</i>	0,47	3,94E-06	0,45	1,69E-05
ENSG00000137714	<i>FDX1</i>	0,43	3,56E-03	0,61	1,71E-05
ENSG00000119812	<i>FAM98A</i>	0,27	3,42E-03	0,39	1,75E-05
ENSG00000079974	<i>RABL2B</i>	0,86	8,44E-06	0,84	2,01E-05
ENSG00000039537	<i>C6</i>	1,10	8,92E-04	1,39	2,05E-05
ENSG00000173898	<i>SPTBN2</i>	0,51	7,93E-05	0,55	2,18E-05
ENSG00000166347	<i>CYB5A</i>	0,62	3,13E-12	0,40	2,23E-05
ENSG00000198624	<i>CCDC69</i>	0,97	1,03E-21	0,47	2,26E-05
ENSG00000172367	<i>PDZD3</i>	2,12	1,56E-11	1,40	2,61E-05
ENSG00000139055	<i>ERP27</i>	1,98	4,41E-17	1,08	2,82E-05
ENSG00000169955	<i>ZNF747</i>	0,62	1,41E-03	0,79	3,04E-05
ENSG00000173193	<i>PARP14</i>	1,55	1,51E-45	0,51	3,20E-05
ENSG00000172007	<i>RAB33B</i>	0,68	5,36E-05	0,71	3,34E-05
ENSG00000142156	<i>COL6A1</i>	0,87	1,39E-10	0,60	3,36E-05
ENSG00000197417	<i>SHPK</i>	0,58	8,94E-03	0,88	3,44E-05

ENSG00000114107	<i>CEP70</i>	0,86	8,80E-08	0,70	3,48E-05
ENSG00000005469	<i>CROT</i>	0,78	1,04E-08	0,59	3,77E-05
ENSG00000170439	<i>METTL7B</i>	1,23	6,36E-17	0,66	4,03E-05
ENSG00000104687	<i>GSR</i>	0,40	1,70E-06	0,35	4,07E-05
ENSG00000084693	<i>AGBL5</i>	0,27	8,09E-03	0,40	4,09E-05
ENSG00000125868	<i>DSTN</i>	0,33	5,96E-05	0,35	4,14E-05
ENSG00000198689	<i>SLC9A6</i>	0,81	1,98E-06	0,72	4,42E-05
ENSG00000204536	<i>CCHCR1</i>	0,71	2,28E-07	0,58	4,44E-05
ENSG00000180198	<i>RCC1</i>	0,40	6,85E-06	0,38	4,48E-05
ENSG00000144535	<i>DIS3L2</i>	0,78	6,30E-09	0,58	4,73E-05
ENSG00000092208	<i>SIP1</i>	0,49	6,14E-05	0,50	4,85E-05
ENSG00000116171	<i>SCP2</i>	0,47	3,99E-09	0,34	4,94E-05
ENSG00000012174	<i>MBTPS2</i>	0,64	1,69E-10	0,43	5,41E-05
ENSG00000117155	<i>SSX2IP</i>	0,68	6,58E-07	0,58	5,45E-05
ENSG00000135218	<i>CD36</i>	2,09	1,67E-39	0,73	5,68E-05
ENSG00000121579	<i>NAA50</i>	0,31	3,69E-05	0,30	5,72E-05
ENSG00000165475	<i>CRYL1</i>	0,39	5,56E-04	0,46	5,91E-05
ENSG00000121486	<i>C10RF25</i>	0,39	3,49E-03	0,52	6,16E-05
ENSG00000204439	<i>C6ORF47</i>	0,94	6,61E-05	0,96	6,18E-05
ENSG00000188010	<i>MORN2</i>	1,23	1,23E-08	0,91	6,20E-05
ENSG00000136960	<i>ENPP2</i>	1,66	1,99E-37	0,59	6,39E-05
ENSG00000164244	<i>PRRC1</i>	0,39	2,08E-06	0,34	6,46E-05
ENSG00000100350	<i>FOXRED2</i>	0,61	4,52E-12	0,37	6,53E-05
ENSG00000238164	<i>RP3-395M20.8</i>	1,19	3,65E-05	1,17	6,59E-05
ENSG00000228889	<i>UBAC2-AS1</i>	0,88	7,07E-03	1,25	6,66E-05
ENSG00000140525	<i>FANCI</i>	0,53	1,13E-07	0,41	7,28E-05
ENSG00000102048	<i>ASB9</i>	1,24	2,43E-12	0,76	7,47E-05
ENSG00000168393	<i>DTYMK</i>	0,32	5,78E-03	0,44	8,19E-05
ENSG00000104889	<i>RNASEH2A</i>	0,64	2,17E-05	0,61	8,23E-05
ENSG00000115216	<i>NRBP1</i>	0,25	7,36E-04	0,29	8,26E-05
ENSG00000198964	<i>SGMS1</i>	0,78	2,58E-09	0,55	8,75E-05
ENSG00000196659	<i>TTC30B</i>	0,84	1,71E-03	1,03	9,17E-05

ENSG00000185875	<i>THNSL1</i>	0,76	7,44E-05	0,76	9,54E-05
ENSG00000111802	<i>TTRAP</i>	0,66	3,54E-13	0,38	9,63E-05
ENSG00000126953	<i>TIMM8A</i>	0,55	1,05E-04	0,56	1,02E-04
ENSG00000005889	<i>ZFX</i>	0,43	1,43E-06	0,36	1,05E-04
ENSG00000004961	<i>HCCS</i>	0,43	4,45E-03	0,57	1,09E-04
ENSG00000145386	<i>CCNA2</i>	0,38	1,95E-05	0,35	1,10E-04
ENSG00000135090	<i>TAOK3</i>	0,67	9,00E-08	0,51	1,10E-04
ENSG00000110318	<i>KIAA1377</i>	1,08	2,32E-07	0,85	1,13E-04
ENSG00000185697	<i>MYBL1</i>	1,40	9,33E-12	0,86	1,14E-04
ENSG00000133739	<i>LRRCC1</i>	0,76	6,43E-05	0,75	1,14E-04
ENSG00000122481	<i>RWDD3</i>	0,39	9,29E-03	0,56	1,15E-04
ENSG00000040275	<i>CCDC99</i>	0,36	5,66E-03	0,48	1,17E-04
ENSG00000156299	<i>TIAM1</i>	1,83	2,57E-09	1,26	1,22E-04
ENSG00000113161	<i>HMGCR</i>	0,24	4,88E-03	0,32	1,27E-04
ENSG00000125354	<i>SEPT6</i>	0,36	1,21E-03	0,42	1,28E-04
ENSG00000183549	<i>ACSM5</i>	1,12	7,12E-10	0,75	1,31E-04
ENSG00000144357	<i>UBR3</i>	0,28	1,88E-03	0,34	1,31E-04
ENSG00000107175	<i>CREB3</i>	0,46	2,29E-04	0,48	1,31E-04
ENSG00000187134	<i>AKR1C1</i>	1,68	5,78E-140	0,28	1,37E-04
ENSG00000148672	<i>GLUD1</i>	0,32	3,67E-06	0,27	1,37E-04
ENSG00000187824	<i>TMEM220</i>	0,97	4,86E-04	1,06	1,42E-04
ENSG00000101335	<i>MYL9</i>	0,83	1,51E-04	0,84	1,47E-04
ENSG00000119638	<i>NEK9</i>	0,66	2,75E-11	0,40	1,48E-04
ENSG00000182093	<i>WRB</i>	0,46	4,85E-04	0,50	1,54E-04
ENSG00000165006	<i>UBAP1</i>	0,73	6,74E-12	0,44	1,55E-04
ENSG00000196510	<i>ANAPC7</i>	0,35	3,07E-03	0,45	1,57E-04
ENSG00000198203	<i>SULT1C2</i>	1,80	1,14E-23	0,77	1,57E-04
ENSG00000177485	<i>ZBTB33</i>	0,42	6,43E-05	0,40	1,62E-04
ENSG00000197859	<i>ADAMTSL2</i>	0,73	3,02E-03	0,92	1,70E-04
ENSG00000143942	<i>CHAC2</i>	0,66	4,45E-03	0,85	1,75E-04
ENSG00000120913	<i>PDLIM2</i>	0,59	9,99E-04	0,67	1,89E-04
ENSG00000114784	<i>EIF1B</i>	0,44	4,56E-05	0,42	1,89E-04

ENSG00000134326	CMPK2	0,90	9,05E-03	1,25	2,10E-04
ENSG00000196922	ZNF252	0,83	5,00E-11	0,50	2,26E-04
ENSG00000165646	SLC18A2	1,02	2,72E-06	0,84	2,28E-04
ENSG00000135828	RNASEL	1,08	1,22E-03	1,23	2,35E-04
ENSG00000110042	DTX4	1,64	2,77E-17	0,80	2,37E-04
ENSG00000187546	TMEM195	1,14	7,29E-04	1,24	2,42E-04
ENSG00000164830	OXR1	0,51	1,06E-05	0,44	2,46E-04
ENSG00000137752	CASP1	2,25	1,96E-22	0,96	2,52E-04
ENSG00000126016	AMOT	1,24	4,19E-06	1,03	2,54E-04
ENSG00000130717	UCK1	1,17	1,34E-20	0,51	2,56E-04
ENSG00000100347	SAMM50	0,45	1,48E-05	0,39	2,66E-04
ENSG00000172070	SRXN1	1,20	1,46E-16	0,59	2,74E-04
ENSG00000163382	APOA1BP	0,38	2,05E-03	0,45	2,76E-04
ENSG00000134398	ERN2	1,14	1,45E-05	0,99	2,82E-04
ENSG00000008311	AASS	0,72	2,63E-07	0,54	2,86E-04
ENSG00000185813	PCYT2	0,44	8,40E-09	0,30	2,86E-04
ENSG00000078487	ZCW/PW1	0,91	1,88E-03	1,06	2,89E-04
ENSG00000104549	SQLE	0,26	4,95E-04	0,28	2,91E-04
ENSG00000158865	SLC5A11	2,49	1,64E-20	1,09	3,00E-04
ENSG00000114446	IFT57	0,77	3,06E-04	0,78	3,07E-04
ENSG00000143815	LBR	0,38	4,87E-06	0,31	3,09E-04
ENSG00000132854	KANK4	0,75	8,43E-13	0,42	3,11E-04
ENSG00000197043	ANXA6	0,66	8,12E-23	0,27	3,16E-04
ENSG00000114686	MRPL3	0,38	3,62E-05	0,34	3,28E-04
ENSG00000137563	GGH	0,51	3,68E-07	0,38	3,33E-04
ENSG00000203797	DDO	0,90	1,30E-06	0,70	3,45E-04
ENSG00000099991	CABIN1	0,71	2,85E-15	0,35	3,74E-04
ENSG00000049245	VAMP3	0,38	6,86E-06	0,31	4,13E-04
ENSG00000124164	VAPB	0,49	3,96E-10	0,29	4,24E-04
ENSG00000082438	COBL1	0,69	1,84E-20	0,29	4,37E-04
ENSG00000023697	DERA	0,40	1,37E-03	0,44	4,41E-04
ENSG00000143653	SCCPDH	0,35	4,75E-04	0,36	4,53E-04

ENSG00000159348	<i>CYB5R1</i>	0,67	9,39E-05	0,62	4,59E-04
ENSG00000184517	<i>ZFP1</i>	0,61	9,65E-04	0,66	4,60E-04
ENSG00000258821	/	1,47	1,67E-06	1,13	4,61E-04
ENSG00000178966	<i>RMI1</i>	0,65	1,04E-05	0,53	4,84E-04
ENSG00000100652	<i>SLC10A1</i>	1,73	6,51E-08	1,18	4,89E-04
ENSG00000168002	<i>POLR2G</i>	0,36	8,15E-03	0,47	5,02E-04
ENSG00000148225	<i>WDR31</i>	1,14	1,04E-04	1,05	5,82E-04
ENSG00000100664	<i>EIF5</i>	0,61	1,63E-19	0,26	5,86E-04
ENSG00000099260	<i>PALMD</i>	0,77	1,75E-13	0,39	6,06E-04
ENSG00000156587	<i>UBE2L6</i>	0,91	2,70E-11	0,51	6,08E-04
ENSG00000002016	<i>RAD52</i>	0,48	7,31E-03	0,60	6,26E-04
ENSG00000205765	<i>C5ORF51</i>	0,39	5,77E-04	0,39	6,38E-04
ENSG00000108395	<i>TRIM37</i>	0,45	1,52E-05	0,37	6,55E-04
ENSG00000129562	<i>DAD1</i>	0,25	3,65E-03	0,29	6,73E-04
ENSG00000095321	<i>CRAT</i>	0,44	6,39E-05	0,38	7,31E-04
ENSG00000123080	<i>CDKN2C</i>	0,77	3,91E-05	0,66	7,39E-04
ENSG00000182165	<i>TP53TG1</i>	0,58	2,50E-03	0,65	7,51E-04
ENSG00000205873	/	0,82	7,19E-06	0,65	7,63E-04
ENSG00000129596	<i>CDO1</i>	1,34	3,76E-14	0,66	7,87E-04
ENSG00000182511	<i>FES</i>	0,69	2,46E-04	0,65	7,92E-04
ENSG00000008869	<i>HEATR5B</i>	0,53	1,49E-06	0,39	7,99E-04
ENSG00000117450	<i>PRDX1</i>	0,55	8,01E-22	0,21	8,01E-04
ENSG00000156253	<i>RWDD2B</i>	0,55	1,58E-04	0,51	8,21E-04
ENSG00000139405	<i>C12ORF52</i>	0,99	3,23E-12	0,52	8,29E-04
ENSG00000149591	<i>TAGLN</i>	1,06	1,72E-09	0,64	8,31E-04
ENSG00000171307	<i>ZDHHC16</i>	0,39	8,30E-04	0,40	8,51E-04
ENSG00000183624	<i>C3ORF37</i>	0,52	2,36E-05	0,43	8,53E-04
ENSG00000182179	<i>UBA7</i>	0,91	4,96E-08	0,60	8,60E-04
ENSG00000173744	<i>AGFG1</i>	0,27	7,48E-04	0,28	8,60E-04
ENSG00000113368	<i>LMNB1</i>	0,29	2,34E-03	0,32	8,62E-04
ENSG00000184227	<i>ACOT1</i>	0,39	8,62E-03	0,49	8,65E-04
ENSG00000140463	<i>BBS4</i>	0,63	2,44E-04	0,59	8,78E-04

ENSG00000178150	ZNF114	1,38	5,96E-11	0,77	8,81E-04
ENSG00000188827	BTBD12	1,38	1,01E-15	0,64	8,87E-04
ENSG00000119946	CNNM1	0,46	8,04E-03	0,56	8,92E-04
ENSG00000130005	GAMT	0,83	4,14E-21	0,33	9,22E-04
ENSG00000215039	CD27-AS1	0,81	3,60E-03	0,92	9,38E-04
ENSG00000138315	OIT3	1,02	4,26E-07	0,71	9,50E-04
ENSG00000112210	RAB23	0,50	4,39E-04	0,48	1,08E-03
ENSG00000164308	ERAP2	0,88	2,84E-11	0,48	1,09E-03
ENSG00000138794	CASP6	0,76	7,91E-06	0,59	1,11E-03
ENSG00000127084	FGD3	0,98	9,32E-04	0,98	1,16E-03
ENSG00000137204	SLC22A7	3,00	5,25E-78	0,63	1,16E-03
ENSG00000164305	CASP3	0,36	1,74E-04	0,32	1,18E-03
ENSG00000124357	NAGK	0,75	2,67E-08	0,47	1,23E-03
ENSG00000169894	LOC100134216	1,03	2,30E-03	1,10	1,30E-03
ENSG00000143036	SLC44A3	0,86	1,89E-04	0,77	1,30E-03
ENSG00000137575	SDCBP	0,35	2,85E-04	0,32	1,31E-03
ENSG00000154265	ABCA5	1,47	5,68E-27	0,50	1,31E-03
ENSG00000176542	KIAA2018	0,37	4,70E-03	0,42	1,32E-03
ENSG00000137133	HINT2	0,60	8,90E-05	0,51	1,33E-03
ENSG00000162460	TMEM82	1,60	2,95E-07	1,07	1,36E-03
ENSG00000204147	ASAH2B	0,51	5,78E-03	0,59	1,43E-03
ENSG00000145246	ATP10D	1,31	5,36E-09	0,78	1,49E-03
ENSG00000123739	PLA2G12A	0,55	2,52E-04	0,49	1,55E-03
ENSG00000116120	FARSB	0,29	2,97E-03	0,31	1,58E-03
ENSG00000128039	SRD5A3	0,67	4,07E-04	0,62	1,60E-03
ENSG00000165060	FXN	0,68	1,11E-06	0,47	1,66E-03
ENSG00000160703	NLRX1	0,60	8,54E-08	0,38	1,67E-03
ENSG00000135637	CCDC142	1,26	9,01E-20	0,50	1,67E-03
ENSG00000160172	LOC100125556	0,90	1,19E-03	0,89	1,70E-03
ENSG00000137720	C11ORF1	0,71	3,53E-04	0,65	1,70E-03
ENSG00000140526	ABHD2	0,50	3,46E-11	0,26	1,71E-03
ENSG00000164252	AGGF1	0,39	6,97E-04	0,37	1,72E-03

ENSG00000184898	<i>RBM43</i>	1,12	2,65E-05	0,88	1,76E-03
ENSG00000204569	<i>PPP1R10</i>	0,34	1,39E-03	0,34	1,78E-03
ENSG00000104870	<i>FCGRT</i>	0,59	9,51E-14	0,27	1,80E-03
ENSG00000162972	<i>C2ORF47</i>	0,44	1,07E-03	0,43	1,86E-03
ENSG00000164007	<i>CLDN19</i>	1,16	2,45E-10	0,63	1,88E-03
ENSG00000150712	<i>MTMR12</i>	0,40	1,50E-06	0,28	1,89E-03
ENSG00000206337	<i>HCP5</i>	1,13	3,08E-05	0,89	1,92E-03
ENSG00000055957	<i>ITIH1</i>	0,73	5,43E-06	0,53	2,03E-03
ENSG00000111875	<i>ASF1A</i>	0,48	1,12E-05	0,36	2,05E-03
ENSG00000169604	<i>ANTXR1</i>	0,60	1,50E-08	0,36	2,07E-03
ENSG00000112297	<i>AIM1</i>	0,54	2,64E-11	0,28	2,08E-03
ENSG00000073921	<i>PICALM</i>	0,52	3,91E-14	0,23	2,09E-03
ENSG00000120696	<i>KBTBD7</i>	0,63	3,22E-05	0,49	2,09E-03
ENSG00000206527	<i>PTPLB</i>	0,56	6,16E-12	0,27	2,11E-03
ENSG00000198830	<i>HMGN2</i>	0,31	3,63E-04	0,28	2,15E-03
ENSG00000116752	<i>BCAS2</i>	0,41	1,74E-03	0,41	2,16E-03
ENSG00000134057	<i>CCNB1</i>	0,29	5,79E-04	0,27	2,18E-03
ENSG00000130349	<i>C6ORF203</i>	0,60	9,97E-03	0,70	2,25E-03
ENSG00000185339	<i>TCN2</i>	2,12	1,04E-11	1,05	2,25E-03
ENSG00000131504	<i>DIAPH1</i>	0,34	6,80E-07	0,23	2,29E-03
ENSG00000143545	<i>LOC100131294</i>	0,44	3,44E-03	0,46	2,30E-03
ENSG00000112110	<i>MRPL18</i>	0,35	9,91E-04	0,34	2,36E-03
ENSG00000254004	<i>ZNF260</i>	0,58	7,21E-05	0,47	2,38E-03
ENSG00000037042	<i>TUBG2</i>	0,54	1,98E-04	0,46	2,41E-03
ENSG00000112983	<i>BRD8</i>	0,31	9,97E-04	0,29	2,43E-03
ENSG00000204852	<i>TCTN1</i>	0,59	5,53E-03	0,65	2,46E-03
ENSG00000110013	<i>SIAE</i>	0,56	1,83E-05	0,42	2,49E-03
ENSG00000146477	<i>SLC22A3</i>	0,46	1,05E-05	0,34	2,51E-03
ENSG00000177951	<i>BET1L</i>	0,33	8,10E-03	0,38	2,52E-03
ENSG00000137700	<i>SLC37A4</i>	0,43	7,91E-06	0,31	2,53E-03
ENSG00000164040	<i>PGRMC2</i>	0,27	2,38E-03	0,28	2,54E-03
ENSG00000213366	<i>GSTM2</i>	1,16	9,05E-07	0,77	2,58E-03

ENSG00000175279	<i>APITD1</i>	0,94	3,48E-03	0,98	2,58E-03
ENSG00000109099	<i>PMP22</i>	1,03	1,65E-09	0,57	2,59E-03
ENSG00000156136	<i>DCK</i>	0,39	6,84E-03	0,44	2,61E-03
ENSG00000108846	<i>ABCC3</i>	1,08	9,66E-28	0,34	2,63E-03
ENSG00000111445	<i>RFC5</i>	0,77	3,95E-08	0,46	2,64E-03
ENSG00000149476	<i>DAK</i>	0,37	2,75E-07	0,24	2,75E-03
ENSG00000177879	<i>AP3S1</i>	0,33	9,79E-04	0,31	2,78E-03
ENSG00000177000	<i>MTHFR</i>	0,97	4,10E-09	0,54	2,88E-03
ENSG00000125827	<i>TMX4</i>	0,49	1,03E-07	0,30	3,09E-03
ENSG00000166801	<i>FAM11A</i>	1,05	1,59E-10	0,54	3,15E-03
ENSG00000197386	<i>HTT</i>	0,73	3,15E-16	0,30	3,20E-03
ENSG00000136870	<i>ZNF189</i>	0,32	6,25E-04	0,28	3,21E-03
ENSG00000146476	<i>C60RF211</i>	0,29	7,75E-03	0,33	3,23E-03
ENSG00000138075	<i>ABCG5</i>	0,83	2,89E-11	0,41	3,28E-03
ENSG00000100612	<i>DHRS7</i>	0,46	7,81E-04	0,41	3,36E-03
ENSG00000146904	<i>EPHA1</i>	1,81	6,10E-25	0,60	3,40E-03
ENSG00000140368	<i>PSTPIP1</i>	0,97	9,51E-04	0,89	3,44E-03
ENSG00000166913	<i>YWHAZ</i>	0,27	2,11E-04	0,22	3,61E-03
ENSG00000186635	<i>ARAP1</i>	0,32	3,60E-04	0,27	3,67E-03
ENSG00000121057	<i>AKAP1</i>	0,74	1,49E-20	0,26	3,75E-03
ENSG00000116954	<i>RRAGC</i>	1,13	1,58E-16	0,45	3,80E-03
ENSG00000118418	<i>HMGN3</i>	0,60	2,30E-09	0,32	3,89E-03
ENSG00000140465	<i>CYP1A1</i>	0,76	5,65E-04	0,66	3,95E-03
ENSG00000167315	<i>ACAA2</i>	0,35	1,80E-04	0,28	3,97E-03
ENSG00000072415	<i>MPP5</i>	0,40	2,92E-04	0,33	3,98E-03
ENSG00000177125	<i>ZBTB34</i>	0,52	7,00E-04	0,46	4,04E-03
ENSG00000125355	<i>FAM70A</i>	1,17	4,48E-04	1,00	4,04E-03
ENSG00000166938	<i>DIS3L</i>	0,55	4,42E-08	0,32	4,05E-03
ENSG00000115685	<i>PPP1R7</i>	0,59	2,89E-08	0,34	4,05E-03
ENSG00000169715	<i>MT1E</i>	1,15	4,15E-08	0,65	4,12E-03
ENSG00000113369	<i>ARRDC3</i>	0,39	2,73E-03	0,39	4,14E-03
ENSG00000000003	<i>TSPAN6</i>	0,33	4,35E-05	0,24	4,16E-03

ENSG00000136810	<i>TXN</i>	0,32	8,02E-05	0,25	4,31E-03
ENSG00000255121	<i>RP11-110I1.12</i>	0,79	5,10E-03	0,82	4,34E-03
ENSG00000178425	<i>NT5DC1</i>	0,36	1,40E-03	0,33	4,36E-03
ENSG00000108424	<i>KPNB1</i>	0,18	5,81E-03	0,19	4,37E-03
ENSG00000196704	<i>AMZ2</i>	0,39	1,19E-05	0,27	4,38E-03
ENSG00000129514	<i>FOXA1</i>	0,59	6,88E-10	0,30	4,40E-03
ENSG00000129480	<i>C14ORF126</i>	0,42	2,95E-04	0,34	4,41E-03
ENSG0000005020	<i>SKAP2</i>	0,89	8,92E-12	0,42	4,44E-03
ENSG00000109181	<i>UGT2B10</i>	0,40	3,21E-04	0,33	4,62E-03
ENSG00000102230	<i>PCYT1B</i>	0,81	1,44E-06	0,52	4,71E-03
ENSG00000171067	<i>C11ORF24</i>	0,37	3,16E-05	0,27	4,85E-03
ENSG00000111671	<i>SPSB2</i>	0,83	1,89E-03	0,77	5,02E-03
ENSG00000119185	<i>ITGB1BP1</i>	0,50	2,66E-06	0,33	5,03E-03
ENSG00000174799	<i>CEP135</i>	0,58	2,35E-03	0,54	5,17E-03
ENSG00000154305	<i>MIA3</i>	0,26	5,48E-03	0,27	5,25E-03
ENSG00000149658	<i>YTHDF1</i>	0,50	3,23E-09	0,26	5,30E-03
ENSG00000139684	<i>ESD</i>	0,33	1,29E-03	0,29	5,35E-03
ENSG00000132744	<i>ACY3</i>	1,86	2,29E-19	0,67	5,37E-03
ENSG00000112312	<i>GMNN</i>	0,32	7,33E-04	0,28	5,41E-03
ENSG00000181894	<i>ZNF329</i>	0,51	8,38E-03	0,54	5,41E-03
ENSG00000196533	<i>C10RF186</i>	0,99	6,60E-09	0,53	5,47E-03
ENSG00000183578	<i>TNFAIP8L3</i>	0,91	3,87E-04	0,74	5,68E-03
ENSG00000159314	<i>SH3D20</i>	0,58	5,37E-05	0,42	5,69E-03
ENSG00000114779	<i>ABHD14B</i>	0,65	5,95E-10	0,32	5,69E-03
ENSG00000100888	<i>CHD8</i>	0,26	5,96E-04	0,22	5,87E-03
ENSG00000108515	<i>ENO3</i>	1,08	5,49E-15	0,44	6,04E-03
ENSG00000168938	<i>PPIC</i>	0,69	1,03E-04	0,52	6,09E-03
ENSG00000076555	<i>ACACB</i>	0,94	1,34E-12	0,41	6,14E-03
ENSG00000117461	<i>PIK3R3</i>	1,36	1,05E-15	0,54	6,17E-03
ENSG00000179163	<i>FUCA1</i>	0,60	7,33E-08	0,33	6,45E-03
ENSG00000255277	<i>ABCC6P2</i>	0,79	3,65E-04	0,64	6,50E-03
ENSG00000214530	<i>STARD10</i>	0,78	6,28E-25	0,24	6,51E-03

ENSG00000075399	<i>C16ORF7</i>	1,02	2,46E-06	0,64	6,76E-03
ENSG00000230356	<i>NCAPD2P1</i>	1,03	9,31E-08	0,58	6,77E-03
ENSG00000183161	<i>FANCF</i>	0,54	2,18E-03	0,49	6,94E-03
ENSG00000106399	<i>RPA3</i>	0,44	1,43E-03	0,39	7,05E-03
ENSG00000063322	<i>MED29</i>	0,66	5,78E-10	0,32	7,06E-03
ENSG00000121691	<i>CAT</i>	0,26	1,02E-03	0,22	7,11E-03
ENSG00000128534	<i>NAA38</i>	0,75	2,08E-07	0,43	7,17E-03
ENSG00000111247	<i>RAD51AP1</i>	0,47	3,67E-04	0,37	7,31E-03
ENSG00000167528	<i>ZNF641</i>	0,93	1,37E-07	0,53	7,40E-03
ENSG00000006634	<i>DBF4</i>	0,58	4,27E-06	0,37	7,43E-03
ENSG00000173992	<i>CCS</i>	0,50	1,58E-04	0,37	7,55E-03
ENSG00000184481	<i>FOXO4</i>	0,79	1,40E-05	0,53	7,68E-03
ENSG00000145022	<i>TCTA</i>	0,73	7,69E-07	0,43	8,06E-03
ENSG00000081177	<i>EXD2</i>	0,41	5,17E-03	0,40	8,22E-03
ENSG00000170264	<i>FAM161A</i>	0,60	6,23E-03	0,59	8,25E-03
ENSG00000105968	<i>H2AFV</i>	0,49	1,23E-09	0,24	8,30E-03
ENSG00000143633	<i>C10RF131</i>	0,63	1,03E-05	0,41	8,35E-03
ENSG00000114999	<i>TTL</i>	0,27	2,87E-03	0,24	8,52E-03
ENSG00000089177	<i>KIF16B</i>	0,48	3,77E-05	0,33	8,61E-03
ENSG00000137449	<i>CPEB2</i>	1,17	8,46E-09	0,60	8,65E-03
ENSG00000159228	<i>CBR1</i>	0,57	5,75E-05	0,40	8,73E-03
ENSG00000139428	<i>MMAB</i>	0,47	2,50E-04	0,35	8,82E-03
ENSG00000109846	<i>CRYAB</i>	0,92	6,70E-03	0,90	8,95E-03
ENSG00000143416	<i>SELENBP1</i>	0,95	9,57E-13	0,40	9,00E-03
ENSG00000197763	<i>TXNRD3</i>	0,59	5,42E-04	0,47	9,11E-03
ENSG00000163900	<i>TMEM41A</i>	1,14	2,70E-35	0,28	9,12E-03
ENSG00000130234	<i>ACE2</i>	1,18	6,77E-06	0,75	9,14E-03
ENSG00000123374	<i>CDK2</i>	0,48	2,18E-03	0,42	9,28E-03
ENSG00000139998	<i>RAB15</i>	0,64	3,37E-05	0,43	9,73E-03

S7. DE genes between KD1 vs Mock and KD2 vs mock in Hep3B after Inc18q22.2 knockdown. 2063 genes were overlapping between KD1 vs Mock and KD2 vs Mock from which 1724 were in the same direction (this table) and 339 in opposite direction. All genes are significant at FDR<0.01.

Ensembl Gene ID	Official gene name	KD1 vs Mock (Hep3B)		KD2 vs Mock (Hep3B)	
		Log2 Fold Change	FDR	Log2 Fold Change	FDR
ENSG00000189403	<i>HMGB1</i>	-0,26	6,59E-04	-2,28	9,09E-204
ENSG00000118523	<i>CTGF</i>	-1,46	3,05E-94	-2,13	3,43E-194
ENSG00000103257	<i>SLC7A5</i>	-1,03	7,06E-43	-2,14	2,47E-174
ENSG00000137801	<i>THBS1</i>	-1,62	3,66E-96	-1,94	1,51E-136
ENSG00000146670	<i>CDCA5</i>	-0,46	2,85E-08	-2,04	1,96E-133
ENSG00000101255	<i>TRIB3</i>	-0,27	8,91E-03	-1,97	6,28E-91
ENSG00000176619	<i>LMNB2</i>	-0,38	7,59E-05	-1,74	4,41E-83
ENSG00000147403	<i>RPL10</i>	-0,31	5,49E-05	-1,35	1,86E-75
ENSG00000106636	<i>YKT6</i>	-0,68	7,44E-15	-1,61	8,50E-75
ENSG00000181789	<i>COPG</i>	-0,47	4,50E-09	-1,43	3,74E-73
ENSG00000119280	<i>C10orf198</i>	-0,45	5,36E-07	-1,59	4,40E-70
ENSG00000136238	<i>RAC1</i>	-0,20	3,48E-03	-1,13	8,66E-69
ENSG00000124766	<i>SOX4</i>	-0,70	3,82E-23	-1,22	6,24E-68
ENSG00000103591	<i>AAGAB</i>	-0,33	9,74E-04	-1,68	1,33E-66
ENSG00000125817	<i>CENPB</i>	-0,75	1,12E-10	-2,03	9,04E-64
ENSG00000171314	<i>PGAM1</i>	-1,22	1,59E-26	-1,96	9,40E-64
ENSG00000166900	<i>STX3</i>	-0,73	3,16E-18	-1,41	1,12E-63
ENSG00000108861	<i>DUSP3</i>	-0,30	1,00E-04	-1,24	3,03E-63
ENSG00000116584	<i>ARHGEF2</i>	-1,39	6,24E-44	-1,68	3,26E-63
ENSG00000101346	<i>POFUT1</i>	-0,86	1,08E-20	-1,53	6,90E-62
ENSG0000011009	<i>LYPLA2</i>	-1,44	1,06E-36	-1,89	1,16E-60
ENSG00000171552	<i>BCL2L1</i>	-0,41	9,72E-09	-1,12	6,42E-59
ENSG00000070614	<i>NDST1</i>	-0,47	2,05E-11	-1,10	2,71E-58
ENSG00000065060	<i>UHRF1BP1</i>	-0,42	4,28E-05	-1,57	2,77E-57
ENSG00000148411	<i>NACC2</i>	-0,35	5,36E-04	-1,54	3,84E-54
ENSG00000097007	<i>ABL1</i>	-0,29	2,32E-03	-1,38	8,66E-54
ENSG00000206053	<i>HN1L</i>	-1,09	1,29E-48	-1,14	1,42E-53

ENSG00000175215	<i>CTDSP2</i>	-0,42	9,57E-07	-1,27	2,25E-52
ENSG00000205208	<i>C4ORF46</i>	-0,63	2,13E-05	-2,38	1,69E-51
ENSG00000147526	<i>TACC1</i>	-0,85	3,66E-21	-1,35	1,42E-50
ENSG00000049449	<i>RCN1</i>	-0,84	7,61E-22	-1,29	4,85E-49
ENSG00000167470	<i>MIDN</i>	-1,45	8,64E-36	-1,70	1,27E-48
ENSG00000171004	<i>HS6ST2</i>	-0,35	1,02E-03	-1,44	5,19E-47
ENSG00000162889	<i>MAPKAPK2</i>	-1,19	2,63E-33	-1,42	1,30E-46
ENSG00000090889	<i>KIF4A</i>	-0,79	2,09E-16	-1,37	1,30E-46
ENSG00000167658	<i>EEF2</i>	-0,33	3,82E-08	-0,83	1,50E-46
ENSG00000147869	<i>CER1</i>	-2,51	3,55E-46	-2,46	1,84E-46
ENSG00000169710	<i>FASN</i>	-0,63	4,59E-15	-1,11	4,13E-45
ENSG00000166851	<i>PLK1</i>	-0,42	4,02E-07	-1,10	2,65E-43
ENSG00000147324	<i>MFHAS1</i>	-1,07	4,03E-20	-1,61	1,39E-42
ENSG00000064666	<i>CNN2</i>	-0,30	1,06E-03	-1,16	1,07E-41
ENSG00000077232	<i>DNAJC10</i>	-0,32	4,23E-04	-1,13	4,65E-41
ENSG00000003989	<i>SLC7A2</i>	-1,03	6,32E-24	-1,36	5,10E-41
ENSG00000198826	<i>ARHGAP11A</i>	-0,46	1,03E-05	-1,36	1,30E-40
ENSG00000110395	<i>CBL</i>	-0,49	1,54E-05	-1,47	1,38E-40
ENSG00000185624	<i>P4HB</i>	-0,79	5,28E-29	-0,93	2,07E-39
ENSG00000183098	<i>GPC6</i>	-0,59	1,86E-10	-1,21	2,27E-39
ENSG00000099942	<i>CRKL</i>	-0,78	6,59E-22	-1,05	1,30E-38
ENSG00000138829	<i>FBN2</i>	-1,80	1,09E-43	-1,61	3,29E-37
ENSG00000175826	<i>DULLARD</i>	-1,69	1,31E-29	-1,90	5,08E-37
ENSG00000173706	<i>HEG1</i>	-0,68	9,05E-15	-1,10	8,30E-37
ENSG00000142178	<i>SIK1</i>	-1,15	1,73E-30	-1,25	2,21E-36
ENSG00000143384	<i>MCL1</i>	-1,50	1,35E-98	-0,89	3,62E-36
ENSG00000119383	<i>PPP2R4</i>	-0,94	8,94E-26	-1,12	5,21E-36
ENSG00000163545	<i>NUAK2</i>	-1,62	2,13E-52	-1,30	6,91E-36
ENSG00000135763	<i>URB2</i>	-0,72	4,39E-12	-1,28	1,46E-35
ENSG00000120802	<i>TMPO</i>	-0,90	9,97E-31	-0,95	8,64E-35
ENSG00000182963	<i>GJC1</i>	-0,63	2,75E-12	-1,09	1,91E-34
ENSG00000186716	<i>BCR</i>	-0,30	1,51E-03	-1,09	2,71E-34

ENSG00000160208	<i>RRP1B</i>	-0,52	6,25E-09	-1,06	5,08E-34
ENSG00000035928	<i>RFC1</i>	-0,60	8,25E-15	-0,93	5,81E-34
ENSG00000204516	<i>MICB</i>	-1,08	4,53E-16	-1,61	8,28E-34
ENSG00000164880	<i>INTS1</i>	-0,32	6,65E-05	-0,90	6,32E-33
ENSG00000100364	<i>C22ORF9</i>	-0,36	1,27E-03	-1,27	5,85E-32
ENSG00000175727	<i>MLXIP</i>	-0,41	2,91E-04	-1,29	1,72E-31
ENSG00000155096	<i>AZIN1</i>	-0,38	1,25E-06	-0,88	7,21E-31
ENSG00000147677	<i>EIF3H</i>	-0,35	5,01E-06	-0,86	7,40E-31
ENSG00000100889	<i>PCK2</i>	-0,80	2,34E-10	-1,43	5,65E-30
ENSG00000025772	<i>TOMM34</i>	-1,66	2,20E-38	-1,41	1,07E-29
ENSG00000143515	<i>ATP8B2</i>	-0,26	2,31E-03	-0,91	1,25E-29
ENSG00000115561	<i>RNF103</i>	-0,33	5,64E-04	-1,03	1,29E-29
ENSG00000068078	<i>FGFR3</i>	-0,32	2,85E-04	-0,94	2,44E-29
ENSG00000124641	<i>MED20</i>	-0,60	4,33E-07	-1,32	9,82E-29
ENSG00000187514	<i>LOC441454</i>	-0,61	3,83E-11	-1,00	1,94E-28
ENSG00000139514	<i>SLC7A1</i>	-1,27	2,52E-39	-1,06	2,57E-28
ENSG00000139269	<i>INHBE</i>	-0,70	1,18E-13	-1,03	4,24E-28
ENSG00000171848	<i>RRM2</i>	-0,37	4,74E-06	-0,85	7,17E-28
ENSG00000130766	<i>SESN2</i>	-1,59	2,88E-39	-1,29	1,36E-27
ENSG00000132463	<i>GRSF1</i>	-0,72	1,14E-20	-0,83	2,68E-27
ENSG00000135269	<i>TES</i>	-0,65	1,70E-19	-0,77	3,57E-27
ENSG00000124226	<i>RNF114</i>	-0,90	1,72E-22	-0,99	4,12E-27
ENSG00000134107	<i>BHLHE40</i>	-0,50	1,71E-06	-1,09	1,31E-26
ENSG00000144677	<i>CTDSPL</i>	-1,47	3,38E-28	-1,39	3,95E-26
ENSG00000088325	<i>TPX2</i>	-0,46	1,44E-12	-0,68	5,68E-26
ENSG00000116016	<i>EPAS1</i>	-0,90	7,37E-30	-0,83	1,13E-25
ENSG00000142453	<i>CARM1</i>	-1,11	3,68E-22	-1,19	1,58E-25
ENSG00000128272	<i>ATF4</i>	-0,46	3,24E-13	-0,64	1,76E-25
ENSG00000149503	<i>INCENP</i>	-0,80	5,15E-18	-0,96	2,15E-25
ENSG00000198561	<i>CTNND1</i>	-0,79	6,66E-31	-0,71	2,96E-25
ENSG00000126003	<i>LOC152845</i>	-1,38	9,44E-52	-0,93	3,64E-25
ENSG00000185900	<i>SGK196</i>	-0,66	2,98E-03	-2,33	4,47E-25

ENSG00000121671	<i>CRY2</i>	-0,72	3,44E-08	-1,34	4,55E-25
ENSG00000137337	<i>MDC1</i>	-0,80	1,27E-21	-0,85	1,76E-24
ENSG00000177302	<i>TOP3A</i>	-0,90	3,20E-19	-1,02	1,79E-24
ENSG00000130741	<i>EIF2S3</i>	-1,36	2,11E-58	-0,85	2,32E-24
ENSG00000132688	<i>NES</i>	-1,12	4,44E-49	-0,76	1,05E-23
ENSG00000136237	<i>RAPGEF5</i>	-0,48	2,09E-06	-0,98	1,67E-23
ENSG00000198853	<i>RUSC2</i>	-1,88	2,58E-52	-1,21	1,93E-23
ENSG00000118579	<i>MED28</i>	-0,62	3,20E-09	-1,02	3,70E-23
ENSG00000170027	<i>YWHAG</i>	-0,33	7,60E-06	-0,69	7,86E-23
ENSG00000173065	<i>C17ORF63</i>	-1,25	7,71E-31	-1,05	1,22E-22
ENSG00000164543	<i>STK17A</i>	-0,99	9,71E-39	-0,74	1,55E-22
ENSG00000189067	<i>LITAF</i>	-1,32	1,89E-28	-1,15	1,56E-22
ENSG00000205730	<i>ITPR1PL2</i>	-1,29	7,08E-13	-1,77	3,13E-22
ENSG00000133119	<i>RFC3</i>	-0,30	9,71E-03	-1,04	6,22E-22
ENSG00000113739	<i>STC2</i>	-0,94	1,37E-13	-1,21	9,58E-22
ENSG00000163347	<i>CLDN1</i>	-0,19	1,35E-03	-0,52	9,73E-22
ENSG00000058262	<i>SEC61A1</i>	-0,58	1,96E-19	-0,61	1,48E-21
ENSG00000113387	<i>SUB1</i>	-0,33	3,23E-06	-0,65	1,55E-21
ENSG00000146433	<i>TMEM181</i>	-0,28	2,18E-03	-0,80	1,63E-21
ENSG00000141458	<i>NPC1</i>	-0,28	7,14E-03	-0,92	2,15E-21
ENSG00000197081	<i>IGF2R</i>	-0,99	1,84E-48	-0,64	3,40E-21
ENSG00000093000	<i>NUP50</i>	-0,22	6,18E-03	-0,70	3,95E-21
ENSG00000146729	<i>GBAS</i>	-0,75	5,64E-10	-1,13	5,22E-21
ENSG00000100422	<i>CERK</i>	-1,31	4,40E-35	-0,99	5,68E-21
ENSG00000168395	<i>ING5</i>	-0,49	2,42E-04	-1,22	6,19E-21
ENSG00000141568	<i>FOXK2</i>	-0,74	4,12E-14	-0,91	1,27E-20
ENSG00000173207	<i>CKS1B</i>	-0,52	3,39E-10	-0,76	1,48E-20
ENSG00000134970	<i>TICAM2</i>	-0,72	2,91E-14	-0,87	3,24E-20
ENSG00000205336	<i>GPR56</i>	-1,00	1,57E-11	-1,37	3,34E-20
ENSG00000010818	<i>H1VEP2</i>	-1,26	3,10E-19	-1,28	4,14E-20
ENSG00000087266	<i>SH3BP2</i>	-0,57	1,19E-04	-1,34	4,59E-20
ENSG00000160867	<i>FGFR4</i>	-1,37	1,05E-82	-0,65	6,04E-20

ENSG00000163539	<i>CLASP2</i>	-0,62	2,24E-08	-0,98	3,38E-19
ENSG00000005339	<i>CREBBP</i>	-0,60	3,78E-15	-0,67	6,64E-19
ENSG00000175216	<i>CKAP5</i>	-0,58	2,56E-16	-0,63	7,54E-19
ENSG00000108557	<i>RAI1</i>	-0,60	1,09E-07	-0,98	9,49E-19
ENSG00000114554	<i>PLXNA1</i>	-1,22	8,88E-52	-0,71	1,05E-18
ENSG00000197312	<i>DDI2</i>	-0,39	3,13E-04	-0,93	1,11E-18
ENSG00000164287	<i>CDC20B</i>	-0,66	1,46E-05	-1,34	1,34E-18
ENSG00000134086	<i>VHL</i>	-0,56	6,76E-10	-0,79	1,66E-18
ENSG00000142949	<i>PTPRF</i>	-0,74	7,71E-27	-0,61	1,72E-18
ENSG00000101057	<i>MYBL2</i>	-0,40	2,04E-07	-0,65	1,88E-18
ENSG00000165689	<i>LOC646891</i>	-0,37	1,45E-04	-0,83	2,17E-18
ENSG00000158985	<i>CDC42SE2</i>	-0,53	2,37E-05	-1,07	2,18E-18
ENSG00000107249	<i>GLIS3</i>	-1,43	2,15E-36	-0,96	2,53E-18
ENSG00000183943	<i>PRKX</i>	-0,54	2,12E-04	-1,25	3,01E-18
ENSG00000167491	<i>GATAD2A</i>	-1,10	7,10E-27	-0,88	3,84E-18
ENSG00000100567	<i>PSMA3</i>	-0,47	1,25E-05	-0,92	4,43E-18
ENSG00000048052	<i>HDAC9</i>	-1,72	2,21E-27	-1,33	5,32E-18
ENSG00000148297	<i>MED22</i>	-0,56	5,66E-07	-0,94	6,16E-18
ENSG00000136504	<i>LOC648927</i>	-0,33	1,48E-03	-0,84	6,59E-18
ENSG00000148773	<i>MKI67</i>	-0,62	1,83E-18	-0,61	1,10E-17
ENSG00000170776	<i>AKAP13</i>	-0,59	4,90E-11	-0,75	1,63E-17
ENSG00000133657	<i>ATP13A3</i>	-0,22	8,96E-03	-0,66	1,80E-17
ENSG00000186174	<i>BCL9L</i>	-1,10	5,34E-23	-0,94	2,35E-17
ENSG00000080603	<i>SRCAP</i>	-0,22	4,36E-03	-0,60	2,41E-17
ENSG00000142230	<i>SAE1</i>	-0,35	3,54E-05	-0,68	2,63E-17
ENSG00000175224	<i>KIAA0652</i>	-1,03	4,57E-25	-0,84	4,32E-17
ENSG00000084463	<i>WBP11</i>	-0,39	1,14E-06	-0,66	8,58E-17
ENSG00000131374	<i>TBC1D5</i>	-1,31	5,59E-34	-0,88	9,75E-17
ENSG00000015520	<i>NPC1L1</i>	-0,52	8,41E-06	-0,94	1,01E-16
ENSG00000057252	<i>SOAT1</i>	-0,32	2,20E-04	-0,69	1,02E-16
ENSG00000094916	<i>CBX5</i>	-0,48	8,07E-10	-0,63	1,07E-16
ENSG00000138018	<i>EPT1</i>	-0,52	2,06E-08	-0,75	1,08E-16

ENSG00000166025	<i>AMOTL1</i>	-1,28	2,13E-27	-0,96	1,15E-16
ENSG00000160294	<i>MCM3AP</i>	-0,30	1,20E-03	-0,71	1,37E-16
ENSG00000113273	<i>ARSB</i>	-0,42	7,14E-03	-1,23	1,58E-16
ENSG00000145431	<i>PDGFC</i>	-0,82	3,04E-16	-0,82	2,07E-16
ENSG00000135476	<i>ESPL1</i>	-0,31	7,05E-04	-0,72	3,31E-16
ENSG00000183723	<i>CMTM4</i>	-0,52	9,77E-07	-0,84	8,03E-16
ENSG00000116017	<i>ARID3A</i>	-0,86	8,41E-27	-0,65	8,90E-16
ENSG00000185215	<i>TNFAIP2</i>	-0,86	1,09E-13	-0,93	9,92E-16
ENSG00000175130	<i>MARCKSL1</i>	-0,54	3,84E-12	-0,62	1,08E-15
ENSG00000109320	<i>NFKB1</i>	-0,62	2,32E-09	-0,82	1,11E-15
ENSG00000243156	<i>MICAL3</i>	-0,36	1,54E-04	-0,74	1,41E-15
ENSG00000136119	<i>MAMLD1</i>	-0,53	5,04E-03	-1,47	1,46E-15
ENSG00000153071	<i>DAB2</i>	-1,20	6,65E-36	-0,76	1,74E-15
ENSG00000197408	<i>CYP2B6</i>	-2,00	1,18E-56	-0,96	1,95E-15
ENSG00000259974	<i>LNC00261</i>	-0,45	2,55E-08	-0,63	2,32E-15
ENSG00000130559	<i>CAMSAP1</i>	-0,71	4,85E-08	-1,02	2,36E-15
ENSG00000196576	<i>PLXNB2</i>	-0,79	3,03E-29	-0,56	3,78E-15
ENSG00000166123	<i>GPT2</i>	-0,77	5,99E-09	-1,02	5,07E-15
ENSG00000008282	<i>SYPL1</i>	-0,95	3,23E-23	-0,74	6,02E-15
ENSG00000267427	/	-0,79	2,86E-11	-0,92	6,08E-15
ENSG00000129473	<i>BCL2L2</i>	-0,65	7,61E-08	-0,92	1,06E-14
ENSG00000179195	<i>ZNF664</i>	-0,71	7,51E-17	-0,65	1,29E-14
ENSG00000125398	<i>SOX9</i>	-1,71	4,92E-91	-0,63	1,58E-14
ENSG00000162512	<i>SDC3</i>	-0,40	2,67E-03	-0,98	1,61E-14
ENSG00000132182	<i>NUP210</i>	-0,75	7,44E-21	-0,62	1,86E-14
ENSG00000101384	<i>JAG1</i>	-1,41	1,52E-95	-0,53	2,00E-14
ENSG00000204138	<i>PHACTR4</i>	-0,63	3,91E-13	-0,66	2,36E-14
ENSG00000111371	<i>SLC38A1</i>	-0,63	1,09E-16	-0,58	2,65E-14
ENSG00000057019	<i>DCBLD2</i>	-0,89	2,06E-22	-0,69	3,11E-14
ENSG00000106804	<i>C5</i>	-0,30	1,34E-03	-0,66	4,08E-14
ENSG00000167721	<i>TSR1</i>	-0,78	1,48E-17	-0,69	4,32E-14
ENSG00000112242	<i>E2F3</i>	-0,74	1,16E-18	-0,63	4,43E-14

ENSG00000133195	<i>SLC39A11</i>	-0,77	3,52E-07	-1,12	4,45E-14
ENSG00000168488	<i>ATXN2L</i>	-0,27	1,13E-03	-0,59	4,62E-14
ENSG00000213160	<i>KLHL23</i>	-1,03	1,84E-28	-0,70	5,04E-14
ENSG00000128595	<i>CALU</i>	-0,42	1,00E-09	-0,51	6,49E-14
ENSG00000141002	<i>TCF25</i>	-0,64	1,84E-09	-0,78	8,21E-14
ENSG00000162290	<i>DCP1A</i>	-0,44	4,30E-05	-0,77	8,44E-14
ENSG00000128342	<i>LIF</i>	-2,25	5,80E-30	-1,40	8,51E-14
ENSG00000129654	<i>FOXJ1</i>	-1,31	1,12E-07	-1,85	8,51E-14
ENSG00000104388	<i>RAB2A</i>	-0,34	9,30E-04	-0,74	9,08E-14
ENSG00000133275	<i>CSNK1G2</i>	-0,56	1,09E-06	-0,84	9,94E-14
ENSG00000071282	<i>LMCD1</i>	-0,36	5,76E-03	-0,92	1,01E-13
ENSG00000204304	<i>PBX2</i>	-1,34	8,46E-45	-0,70	1,13E-13
ENSG00000170044	<i>ZPLD1</i>	-0,57	6,42E-04	-1,20	1,17E-13
ENSG00000116133	<i>DHCR24</i>	-0,42	5,41E-07	-0,61	1,21E-13
ENSG00000140443	<i>IGF1R</i>	-0,74	1,12E-13	-0,73	1,38E-13
ENSG00000197724	<i>PHF2</i>	-0,65	5,00E-09	-0,81	1,58E-13
ENSG00000164323	<i>KIAA1430</i>	-1,38	1,82E-30	-0,88	1,77E-13
ENSG00000135845	<i>PIGC</i>	-0,48	1,80E-07	-0,67	1,77E-13
ENSG00000167978	<i>LOC100132779</i>	-0,21	2,10E-03	-0,48	1,79E-13
ENSG00000066468	<i>FGFR2</i>	-1,50	9,04E-25	-1,05	2,52E-13
ENSG00000077235	<i>GTF3C1</i>	-0,39	6,27E-06	-0,62	3,40E-13
ENSG00000106948	<i>AKNA</i>	-0,95	5,84E-06	-1,53	3,40E-13
ENSG00000145555	<i>MYO10</i>	-1,61	2,15E-78	-0,61	3,50E-13
ENSG00000214113	<i>LYRM4</i>	-0,48	2,82E-04	-0,94	3,51E-13
ENSG00000172893	<i>DHCR7</i>	-0,47	9,56E-06	-0,76	3,59E-13
ENSG00000198034	<i>RPS4X</i>	-0,83	3,15E-29	-0,54	4,61E-13
ENSG00000066117	<i>SMARCD1</i>	-0,31	1,41E-03	-0,67	6,41E-13
ENSG00000188846	<i>RPL14</i>	-0,82	2,35E-26	-0,56	7,69E-13
ENSG00000165323	<i>FAT3</i>	-2,31	5,10E-54	-1,00	8,52E-13
ENSG00000121152	<i>NCAPH</i>	-0,31	2,03E-03	-0,68	1,03E-12
ENSG00000171490	<i>RSL1D1</i>	-0,72	3,24E-21	-0,55	1,12E-12
ENSG00000135074	<i>ADAM19</i>	-1,08	4,75E-15	-0,97	1,18E-12

ENSG00000116132	<i>PRRX1</i>	-1,06	5,07E-11	-1,14	1,46E-12
ENSG00000137818	<i>RPLP1</i>	-0,89	7,63E-26	-0,61	1,50E-12
ENSG00000065328	<i>MCM10</i>	-0,65	3,00E-10	-0,72	1,50E-12
ENSG00000130702	<i>LAMA5</i>	-0,42	8,81E-07	-0,59	1,58E-12
ENSG00000164292	<i>RHOBTB3</i>	-0,47	1,01E-05	-0,74	1,61E-12
ENSG00000130382	<i>MLLT1</i>	-0,76	8,38E-07	-1,08	1,78E-12
ENSG00000169242	<i>EFNA1</i>	-0,83	7,16E-12	-0,85	2,01E-12
ENSG00000137166	<i>FOXP4</i>	-0,94	1,54E-22	-0,67	2,14E-12
ENSG00000182492	<i>BGN</i>	-1,39	9,97E-10	-1,59	2,64E-12
ENSG00000110048	<i>OSBP</i>	-0,37	7,60E-05	-0,64	2,79E-12
ENSG00000064726	<i>BTBD1</i>	-0,71	4,23E-15	-0,63	2,91E-12
ENSG00000176142	<i>TMEM39A</i>	-0,34	5,06E-03	-0,79	2,92E-12
ENSG00000163754	<i>GYG1</i>	-0,41	2,63E-03	-0,90	3,66E-12
ENSG00000064999	<i>ANKS1A</i>	-0,84	2,74E-17	-0,68	4,24E-12
ENSG00000173020	<i>ADRBK1</i>	-0,36	1,80E-04	-0,64	4,48E-12
ENSG00000257923	<i>CUX1</i>	-0,45	1,34E-06	-0,63	4,53E-12
ENSG00000119900	<i>OGFRL1</i>	-1,34	3,70E-16	-1,12	4,86E-12
ENSG00000163697	<i>APBB2</i>	-0,45	8,95E-04	-0,89	5,11E-12
ENSG00000170348	<i>TMED10</i>	-0,84	4,31E-27	-0,55	5,77E-12
ENSG00000033050	<i>ABCF2</i>	-0,45	4,79E-06	-0,66	6,26E-12
ENSG00000171223	<i>JUNB</i>	-0,56	6,11E-05	-0,93	6,38E-12
ENSG00000072803	<i>FBXW11</i>	-0,44	1,72E-07	-0,57	6,73E-12
ENSG00000197771	<i>C10ORF119</i>	-0,65	2,48E-13	-0,61	7,09E-12
ENSG00000120437	<i>ACAT2</i>	-0,70	1,34E-10	-0,75	7,44E-12
ENSG00000134802	<i>SLC43A3</i>	-0,31	7,15E-04	-0,60	7,61E-12
ENSG00000198830	<i>HMGN2</i>	-0,31	4,34E-04	-0,57	7,81E-12
ENSG00000104738	<i>MCM4</i>	-0,32	1,66E-05	-0,49	8,37E-12
ENSG00000135632	<i>SMYD5</i>	-1,00	5,35E-18	-0,78	9,08E-12
ENSG0000012660	<i>ELOVL5</i>	-0,44	6,91E-09	-0,51	1,09E-11
ENSG00000064313	<i>TAF2</i>	-0,28	5,24E-03	-0,64	1,28E-11
ENSG00000074935	<i>TUBE1</i>	-0,91	3,91E-08	-1,11	1,29E-11
ENSG00000173281	<i>PPP1R3B</i>	-0,63	7,43E-07	-0,84	1,30E-11

ENSG00000120942	<i>UBIAD1</i>	-0,43	1,36E-03	-0,87	1,49E-11
ENSG00000140534	<i>C15ORF42</i>	-0,34	4,20E-03	-0,76	1,53E-11
ENSG00000143815	<i>LBR</i>	-0,22	5,28E-03	-0,51	1,58E-11
ENSG00000163083	<i>INHBB</i>	-2,19	7,48E-52	-0,93	1,63E-11
ENSG00000172340	<i>LOC283398</i>	-0,39	3,17E-05	-0,62	1,75E-11
ENSG00000131149	<i>KIAA0182</i>	-1,17	1,38E-41	-0,58	2,00E-11
ENSG00000163735	<i>CXCL5</i>	-3,69	1,16E-68	-1,39	2,17E-11
ENSG00000079432	<i>CIC</i>	-0,81	1,16E-15	-0,67	2,34E-11
ENSG00000065150	<i>IPO5</i>	-0,76	3,25E-24	-0,51	2,47E-11
ENSG00000103932	<i>RPAP1</i>	-0,35	3,09E-04	-0,63	2,65E-11
ENSG00000181163	<i>LOC100131044</i>	-0,40	3,53E-08	-0,49	2,80E-11
ENSG00000186185	<i>KIF18B</i>	-0,32	3,27E-03	-0,68	3,11E-11
ENSG00000170312	<i>CDK1</i>	-0,25	2,62E-03	-0,52	4,38E-11
ENSG00000145041	<i>VPRBP</i>	-0,49	6,99E-06	-0,71	4,87E-11
ENSG00000135966	<i>TGFBRAP1</i>	-0,92	2,24E-12	-0,85	6,40E-11
ENSG00000146457	<i>WTAP</i>	-0,34	6,52E-04	-0,62	8,24E-11
ENSG00000152291	<i>TGOLN2</i>	-1,09	3,83E-49	-0,49	8,29E-11
ENSG00000150938	<i>CRIM1</i>	-0,49	4,49E-10	-0,51	8,60E-11
ENSG00000077684	<i>PHF17</i>	-0,38	3,93E-05	-0,58	9,61E-11
ENSG00000070669	<i>ASNS</i>	-1,00	2,41E-23	-0,65	9,83E-11
ENSG00000101544	<i>ADNP2</i>	-0,52	1,94E-04	-0,87	1,05E-10
ENSG00000028528	<i>SNX1</i>	-0,46	1,01E-06	-0,60	1,12E-10
ENSG00000136908	<i>DPM2</i>	-0,71	7,14E-08	-0,85	1,12E-10
ENSG00000109084	<i>TMEM97</i>	-0,30	3,28E-04	-0,51	1,18E-10
ENSG00000120254	<i>MTHFD1L</i>	-1,05	1,06E-22	-0,69	1,47E-10
ENSG00000112029	<i>FBXO5</i>	-0,63	7,50E-09	-0,70	1,58E-10
ENSG00000130816	<i>DNMT1</i>	-0,30	2,67E-05	-0,44	1,86E-10
ENSG00000187605	<i>TET3</i>	-0,62	1,62E-07	-0,74	2,02E-10
ENSG00000139722	<i>VPS37B</i>	-0,74	6,14E-06	-1,03	2,10E-10
ENSG00000114850	<i>SSR3</i>	-0,61	1,72E-15	-0,50	2,11E-10
ENSG00000260032	<i>LINC00657</i>	-0,31	1,49E-04	-0,50	2,28E-10
ENSG00000147459	<i>DOCK5</i>	-0,60	1,20E-07	-0,71	2,46E-10

ENSG00000003137	<i>CYP26B1</i>	-0,61	5,11E-04	-1,08	2,56E-10
ENSG00000185000	<i>DGAT1</i>	-0,47	8,92E-03	-1,07	2,59E-10
ENSG00000168906	<i>MAT2A</i>	-0,25	1,14E-03	-0,45	3,34E-10
ENSG00000101224	<i>CDC25B</i>	-0,39	5,95E-04	-0,69	3,46E-10
ENSG00000165238	<i>WNK2</i>	-0,82	2,48E-10	-0,81	3,46E-10
ENSG00000164211	<i>STARD4</i>	-0,34	7,58E-03	-0,75	3,51E-10
ENSG00000141738	<i>GRB7</i>	-0,66	3,49E-05	-0,99	3,67E-10
ENSG00000104885	<i>DOT1L</i>	-0,55	1,08E-06	-0,70	4,01E-10
ENSG00000092847	<i>EIF2C1</i>	-0,30	8,28E-03	-0,68	4,32E-10
ENSG00000160113	<i>NR2F6</i>	-0,90	3,33E-12	-0,81	4,65E-10
ENSG00000134758	<i>RNF138</i>	-0,66	4,57E-05	-0,99	4,99E-10
ENSG0000007202	<i>KIAA0100</i>	-0,42	1,03E-05	-0,58	5,37E-10
ENSG00000058804	<i>TMEM48</i>	-0,77	1,11E-18	-0,54	5,52E-10
ENSG00000116962	<i>NID1</i>	-0,77	6,17E-24	-0,48	7,43E-10
ENSG00000077514	<i>POLD3</i>	-0,81	4,10E-08	-0,90	8,13E-10
ENSG00000213676	<i>ATF6B</i>	-0,57	4,50E-08	-0,64	8,43E-10
ENSG00000159840	<i>ZYX</i>	-0,43	2,77E-08	-0,47	9,36E-10
ENSG00000117707	<i>PROX1</i>	-0,41	7,12E-09	-0,44	9,70E-10
ENSG00000132155	<i>RAF1</i>	-0,66	6,73E-15	-0,52	9,84E-10
ENSG00000117505	<i>DR1</i>	-0,80	3,42E-16	-0,60	1,01E-09
ENSG00000107562	<i>CXCL12</i>	-0,42	1,64E-03	-0,77	1,04E-09
ENSG00000160949	<i>NFKBIL2</i>	-0,38	2,73E-03	-0,73	1,06E-09
ENSG00000120438	<i>TCP1</i>	-0,24	2,02E-03	-0,46	1,15E-09
ENSG00000142089	<i>IFITM3</i>	-0,43	1,88E-06	-0,54	1,21E-09
ENSG00000148840	<i>PPRC1</i>	-0,76	3,35E-12	-0,67	1,29E-09
ENSG00000244062	<i>RP11-404G16.2</i>	-1,48	3,52E-07	-1,76	1,33E-09
ENSG00000143569	<i>UBAP2L</i>	-0,38	4,74E-08	-0,42	1,34E-09
ENSG00000075618	<i>FSCN1</i>	-0,47	2,42E-04	-0,76	1,34E-09
ENSG00000113569	<i>NUP155</i>	-0,35	1,83E-05	-0,49	1,44E-09
ENSG00000128965	<i>CHAC1</i>	-0,81	1,80E-07	-0,94	1,47E-09
ENSG00000134897	<i>BIVM</i>	-0,80	2,38E-08	-0,86	1,65E-09
ENSG00000007047	<i>MARK4</i>	-1,31	2,36E-21	-0,82	2,00E-09

ENSG00000100139	<i>MICALL1</i>	-0,64	1,80E-08	-0,68	2,05E-09
ENSG00000128829	<i>EIF2AK4</i>	-1,08	9,31E-21	-0,69	2,07E-09
ENSG00000065809	<i>FAM107B</i>	-1,60	1,94E-75	-0,51	2,15E-09
ENSG00000196756	<i>LOC388796</i>	-0,54	2,43E-06	-0,67	2,23E-09
ENSG00000135069	<i>C8ORF62</i>	-1,04	5,83E-28	-0,58	2,31E-09
ENSG00000164638	<i>LOC100132308</i>	-0,46	1,19E-05	-0,61	2,32E-09
ENSG00000133884	<i>DPF2</i>	-0,31	8,37E-03	-0,65	2,35E-09
ENSG00000159352	<i>PSMD4</i>	-0,26	8,48E-04	-0,45	2,72E-09
ENSG00000155304	<i>HSPA13</i>	-1,06	8,22E-23	-0,65	2,93E-09
ENSG00000157985	<i>AGAP1</i>	-1,04	2,10E-13	-0,83	2,99E-09
ENSG00000126767	<i>ELK1</i>	-0,56	1,50E-03	-1,02	3,10E-09
ENSG00000137309	<i>HMG A1</i>	-1,40	9,82E-67	-0,49	3,29E-09
ENSG00000111845	<i>PAK1IP1</i>	-0,75	7,11E-13	-0,62	3,34E-09
ENSG00000225485	/	-1,33	1,98E-13	-1,06	3,90E-09
ENSG00000066583	<i>ISOC1</i>	-0,36	4,66E-03	-0,72	4,07E-09
ENSG00000072310	<i>SREBF1</i>	-1,25	1,93E-35	-0,59	4,08E-09
ENSG00000094804	<i>CDC6</i>	-0,48	7,39E-10	-0,46	4,31E-09
ENSG00000150768	<i>DLAT</i>	-0,75	4,05E-17	-0,53	4,32E-09
ENSG00000010404	<i>IDS</i>	-0,55	1,06E-03	-0,95	5,84E-09
ENSG00000066654	<i>THUMPD1</i>	-0,70	1,49E-10	-0,64	6,55E-09
ENSG00000112664	<i>NUDT3</i>	-0,45	8,18E-03	-0,93	6,55E-09
ENSG00000134686	<i>PHC2</i>	-0,92	7,71E-21	-0,57	7,47E-09
ENSG00000121481	<i>RNF2</i>	-0,48	5,44E-04	-0,77	8,15E-09
ENSG00000167088	<i>LOC100129492</i>	-0,55	2,81E-08	-0,56	8,86E-09
ENSG00000166887	<i>VPS39</i>	-0,93	3,45E-17	-0,63	8,86E-09
ENSG00000146232	<i>NFKBIE</i>	-0,76	1,10E-05	-0,99	8,89E-09
ENSG00000132142	<i>ACACA</i>	-1,53	3,11E-45	-0,63	9,48E-09
ENSG00000133636	<i>NTS</i>	-0,82	2,63E-28	-0,44	9,70E-09
ENSG00000101752	<i>MIB1</i>	-0,39	5,80E-06	-0,48	1,05E-08
ENSG00000143321	<i>HDGF</i>	-0,31	4,31E-06	-0,38	1,14E-08
ENSG00000101444	<i>AHCY</i>	-1,04	6,15E-41	-0,45	1,63E-08
ENSG00000119285	<i>HEATR1</i>	-0,63	1,53E-12	-0,51	1,67E-08

ENSG00000163435	<i>ELF3</i>	-0,48	4,25E-05	-0,65	1,70E-08
ENSG00000142541	<i>RPL13A</i>	-0,69	5,40E-26	-0,38	1,71E-08
ENSG00000119787	<i>ATL2</i>	-0,43	3,54E-05	-0,58	1,74E-08
ENSG00000070756	<i>PABPC1</i>	-0,78	4,68E-27	-0,42	1,76E-08
ENSG00000157827	<i>FMNL2</i>	-0,63	2,40E-12	-0,51	1,94E-08
ENSG00000091986	<i>CCDC80</i>	-1,98	1,45E-55	-0,68	2,08E-08
ENSG00000164825	<i>DEFB1</i>	-0,71	9,33E-03	-1,49	2,13E-08
ENSG00000211460	<i>TSN</i>	-1,19	5,65E-55	-0,44	2,22E-08
ENSG00000198858	<i>C19ORF22</i>	-0,48	4,25E-06	-0,58	2,42E-08
ENSG00000109685	<i>WHSC1</i>	-0,46	3,48E-09	-0,44	2,42E-08
ENSG00000159128	<i>IFNGR2</i>	-0,65	1,21E-06	-0,74	2,42E-08
ENSG00000146223	<i>RPL7L1</i>	-0,88	7,37E-30	-0,45	2,42E-08
ENSG00000102978	<i>POLR2C</i>	-0,40	7,11E-05	-0,55	2,46E-08
ENSG00000138095	<i>LRPPRC</i>	-0,59	2,37E-15	-0,43	2,53E-08
ENSG00000171456	<i>ASXL1</i>	-0,27	5,13E-04	-0,42	3,02E-08
ENSG00000088038	<i>CNOT3</i>	-0,52	5,18E-05	-0,70	3,40E-08
ENSG00000215021	<i>PHB2</i>	-0,89	3,13E-28	-0,45	3,79E-08
ENSG00000155506	<i>LARP1</i>	-0,35	1,94E-06	-0,40	3,85E-08
ENSG00000112414	<i>GPR126</i>	-1,50	7,75E-87	-0,43	4,08E-08
ENSG00000091127	<i>PUS7</i>	-0,38	6,20E-03	-0,71	4,21E-08
ENSG00000127863	<i>TNFRSF19</i>	-0,93	9,59E-16	-0,63	4,23E-08
ENSG00000128928	<i>IVD</i>	-0,41	6,18E-05	-0,55	4,58E-08
ENSG00000069275	<i>NUCKS1</i>	-0,66	8,83E-23	-0,38	4,59E-08
ENSG00000066651	<i>TRMT11</i>	-0,72	3,37E-07	-0,77	4,82E-08
ENSG00000169813	<i>HNRNPFI</i>	-0,65	4,35E-21	-0,39	4,96E-08
ENSG00000196313	<i>POM121</i>	-0,82	2,31E-16	-0,55	5,30E-08
ENSG00000138074	<i>SLC5A6</i>	-0,84	2,08E-14	-0,60	5,30E-08
ENSG00000112715	<i>VEGFA</i>	-0,27	2,71E-03	-0,47	5,32E-08
ENSG00000143514	<i>TP53BP2</i>	-0,23	5,95E-03	-0,42	7,24E-08
ENSG00000140350	<i>ANP32A</i>	-1,00	5,48E-39	-0,42	7,77E-08
ENSG00000028116	<i>VRK2</i>	-0,67	1,82E-06	-0,75	8,30E-08
ENSG00000144354	<i>CDCA7</i>	-0,87	3,64E-16	-0,57	8,34E-08

ENSG00000175061	<i>NCRNA00188</i>	-0,60	5,61E-14	-0,44	8,43E-08
ENSG00000183853	<i>KIRREL</i>	-1,27	1,12E-53	-0,45	9,16E-08
ENSG00000115902	<i>SLC1A4</i>	-0,56	7,63E-07	-0,61	9,16E-08
ENSG00000124789	<i>NUP153</i>	-0,47	8,25E-09	-0,44	9,37E-08
ENSG00000085415	<i>SEH1L</i>	-0,82	8,48E-15	-0,57	9,81E-08
ENSG00000111642	<i>CHD4</i>	-0,50	9,30E-14	-0,37	1,02E-07
ENSG00000174437	<i>ATP2A2</i>	-0,25	5,90E-04	-0,38	1,04E-07
ENSG00000156030	<i>C14ORF43</i>	-0,52	3,59E-06	-0,59	1,11E-07
ENSG00000131043	<i>C20ORF4</i>	-0,65	6,78E-09	-0,60	1,14E-07
ENSG00000102974	<i>CTCF</i>	-0,64	1,54E-10	-0,53	1,20E-07
ENSG00000163739	<i>CXCL1</i>	-1,43	1,40E-17	-0,88	1,24E-07
ENSG00000087916	<i>SLC6A14</i>	-1,64	4,69E-10	-1,39	1,25E-07
ENSG00000131236	<i>CAP1</i>	-0,26	1,37E-03	-0,41	1,29E-07
ENSG00000166860	<i>ZBTB39</i>	-0,71	5,26E-05	-0,92	1,31E-07
ENSG00000125686	<i>MED1</i>	-0,37	1,38E-05	-0,45	1,36E-07
ENSG00000130713	<i>EXOSC2</i>	-0,46	7,87E-05	-0,60	1,44E-07
ENSG00000204619	<i>PPP1R11</i>	-0,44	3,07E-06	-0,49	1,47E-07
ENSG00000118495	<i>PLAGL1</i>	-0,86	5,29E-13	-0,63	1,48E-07
ENSG00000181449	<i>SOX2</i>	-1,11	6,53E-05	-1,46	1,56E-07
ENSG00000063660	<i>GPC1</i>	-0,43	6,26E-04	-0,65	1,59E-07
ENSG00000181830	<i>SLC35C1</i>	-0,71	2,21E-09	-0,63	1,67E-07
ENSG00000144712	<i>CAND2</i>	-0,58	4,76E-03	-1,04	1,68E-07
ENSG00000118058	<i>MLL</i>	-0,96	9,36E-29	-0,46	1,73E-07
ENSG00000119772	<i>DNMT3A</i>	-0,38	1,68E-04	-0,52	1,88E-07
ENSG00000153989	<i>LOC729148</i>	-0,52	1,30E-07	-0,52	1,92E-07
ENSG00000131446	<i>MGAT1</i>	-0,81	2,47E-21	-0,46	2,01E-07
ENSG00000180287	<i>PLD5</i>	-1,63	5,05E-23	-0,84	2,06E-07
ENSG00000126461	<i>SCAF1</i>	-0,52	9,11E-05	-0,68	2,15E-07
ENSG00000196730	<i>DAPK1</i>	-0,83	4,51E-21	-0,47	2,55E-07
ENSG00000145907	<i>G3BP1</i>	-0,59	1,30E-16	-0,38	2,59E-07
ENSG00000170381	<i>SEMA3E</i>	-1,15	8,66E-10	-0,96	2,72E-07
ENSG00000153767	<i>GTF2E1</i>	-0,89	2,60E-11	-0,69	2,73E-07

ENSG00000184640	<i>SEPT9</i>	-0,46	3,98E-12	-0,35	2,77E-07
ENSG00000136888	<i>ATP6V1G1</i>	-1,93	1,67E-85	-0,50	2,79E-07
ENSG00000142534	<i>RPS11</i>	-0,57	4,61E-15	-0,38	2,85E-07
ENSG00000174547	<i>MRPL11</i>	-0,43	2,86E-05	-0,52	2,88E-07
ENSG00000007968	<i>E2F2</i>	-1,42	3,33E-15	-0,91	2,96E-07
ENSG00000006715	<i>VPS41</i>	-0,33	2,06E-03	-0,52	3,01E-07
ENSG00000149532	<i>CPSF7</i>	-0,49	6,26E-09	-0,43	3,16E-07
ENSG00000177410	<i>C20ORF199</i>	-0,95	3,94E-18	-0,57	3,33E-07
ENSG00000137656	<i>BUD13</i>	-0,47	8,81E-03	-0,88	3,49E-07
ENSG00000091317	<i>CMTM6</i>	-0,80	1,55E-15	-0,52	3,57E-07
ENSG00000198142	<i>ANKRD57</i>	-0,47	3,96E-05	-0,57	3,71E-07
ENSG00000151834	<i>GABRA2</i>	-1,06	1,04E-13	-0,73	3,81E-07
ENSG00000163785	<i>RYK</i>	-0,66	1,99E-11	-0,50	3,81E-07
ENSG00000096696	<i>DSP</i>	-0,58	3,30E-17	-0,36	3,91E-07
ENSG00000137331	<i>IER3</i>	-1,54	3,84E-48	-0,55	4,21E-07
ENSG00000077152	<i>UBE2T</i>	-1,09	1,25E-26	-0,52	4,24E-07
ENSG00000077157	<i>PPP1R12B</i>	-0,38	4,42E-04	-0,54	4,45E-07
ENSG00000167460	<i>TPM4</i>	-1,33	6,84E-90	-0,35	4,97E-07
ENSG00000140157	<i>NIPA2</i>	-0,80	9,56E-15	-0,52	5,10E-07
ENSG00000181222	<i>POLR2A</i>	-0,29	3,62E-05	-0,35	5,15E-07
ENSG00000106355	<i>LSM5</i>	-0,52	1,33E-08	-0,46	5,31E-07
ENSG00000099875	<i>MKNK2</i>	-0,70	6,43E-09	-0,61	5,34E-07
ENSG00000197136	<i>PCNXL3</i>	-0,74	3,69E-22	-0,39	5,64E-07
ENSG00000184992	<i>BRI3BP</i>	-0,46	4,64E-07	-0,45	5,67E-07
ENSG00000183291	<i>SEP15</i>	-0,38	4,92E-08	-0,35	5,74E-07
ENSG00000134824	<i>FADS2</i>	-0,81	5,04E-13	-0,57	6,06E-07
ENSG00000135018	<i>UBQLN1</i>	-0,43	2,47E-08	-0,39	6,18E-07
ENSG00000119777	<i>TMEM214</i>	-0,32	4,09E-03	-0,54	6,18E-07
ENSG00000179361	<i>ARID3B</i>	-1,53	2,87E-28	-0,69	6,42E-07
ENSG00000247626	<i>MARS2</i>	-0,56	1,13E-05	-0,63	6,48E-07
ENSG00000108753	<i>HNF1B</i>	-0,59	2,73E-05	-0,70	6,88E-07
ENSG00000228649	AC005682.5	-1,14	3,69E-06	-1,22	7,19E-07

ENSG00000163811	<i>WDR43</i>	-0,76	6,47E-16	-0,47	8,14E-07
ENSG00000012232	<i>EXTL3</i>	-0,45	1,06E-04	-0,56	8,45E-07
ENSG00000221867	<i>MAGEA6</i>	-0,46	4,09E-03	-0,76	9,13E-07
ENSG00000177425	<i>PAWR</i>	-0,65	4,82E-14	-0,43	9,24E-07
ENSG00000133935	<i>C14ORF1</i>	-0,36	1,47E-03	-0,53	9,91E-07
ENSG00000170889	<i>RPS9</i>	-0,63	7,72E-16	-0,39	1,03E-06
ENSG00000019144	<i>PHLDB1</i>	-0,53	6,85E-07	-0,52	1,12E-06
ENSG00000073111	<i>MCM2</i>	-0,30	4,15E-04	-0,40	1,13E-06
ENSG00000138032	<i>PPM1B</i>	-0,44	2,73E-05	-0,51	1,15E-06
ENSG00000082781	<i>ITGB5</i>	-0,43	3,29E-05	-0,50	1,17E-06
ENSG00000144711	<i>IQSEC1</i>	-0,42	5,61E-05	-0,51	1,19E-06
ENSG00000132970	<i>WASF3</i>	-0,85	1,61E-05	-0,95	1,24E-06
ENSG00000084652	<i>TXLNA</i>	-1,03	3,29E-27	-0,47	1,27E-06
ENSG00000136193	<i>SCRN1</i>	-0,37	1,56E-07	-0,35	1,28E-06
ENSG00000090924	<i>PLEKHG2</i>	-0,70	2,96E-10	-0,54	1,31E-06
ENSG00000142192	<i>APP</i>	-0,43	7,85E-13	-0,30	1,33E-06
ENSG00000068912	<i>ERLEC1</i>	-0,71	8,94E-13	-0,49	1,33E-06
ENSG00000169862	<i>CTNND2</i>	-0,36	1,14E-04	-0,44	1,35E-06
ENSG00000108829	<i>LRRC59</i>	-0,48	1,66E-10	-0,37	1,40E-06
ENSG00000132382	<i>MYBBP1A</i>	-1,28	4,15E-52	-0,41	1,44E-06
ENSG00000115568	<i>ZNF142</i>	-0,37	1,80E-03	-0,55	1,47E-06
ENSG00000132388	<i>UBE2G1</i>	-0,35	3,82E-05	-0,41	1,51E-06
ENSG00000169635	<i>HIC2</i>	-1,71	6,82E-61	-0,50	1,54E-06
ENSG00000103005	<i>C16ORF57</i>	-0,73	1,23E-12	-0,50	1,58E-06
ENSG00000128487	<i>CYTSB</i>	-0,74	8,11E-15	-0,46	1,63E-06
ENSG00000164692	<i>COL1A2</i>	-1,47	1,52E-08	-1,24	1,63E-06
ENSG00000124784	<i>RIOK1</i>	-0,54	7,87E-07	-0,52	1,64E-06
ENSG00000174136	<i>RGMB</i>	-0,99	1,20E-07	-0,90	1,77E-06
ENSG00000077782	<i>FGFR1</i>	-0,78	5,88E-07	-0,75	1,77E-06
ENSG00000163479	<i>SSR2</i>	-0,57	3,98E-17	-0,33	1,82E-06
ENSG00000130764	<i>LRRC47</i>	-0,60	2,78E-07	-0,56	1,87E-06
ENSG00000174780	<i>SRP72</i>	-1,40	3,90E-67	-0,40	1,90E-06

ENSG00000142207	<i>URB1</i>	-0,93	1,92E-19	-0,50	1,99E-06
ENSG00000163930	<i>BAP1</i>	-0,65	2,96E-12	-0,45	2,06E-06
ENSG00000156970	<i>BUB1B</i>	-0,49	2,76E-10	-0,38	2,11E-06
ENSG00000120800	<i>LOC653877</i>	-0,58	1,03E-09	-0,46	2,16E-06
ENSG00000108506	<i>INTS2</i>	-0,49	1,75E-04	-0,61	2,23E-06
ENSG00000234741	<i>GAS5</i>	-0,95	1,04E-33	-0,38	2,41E-06
ENSG00000162613	<i>FUBP1</i>	-0,50	3,34E-08	-0,43	2,44E-06
ENSG00000100632	<i>ERH</i>	-0,84	6,61E-12	-0,59	2,46E-06
ENSG00000187741	<i>FANCA</i>	-0,46	3,49E-03	-0,72	2,56E-06
ENSG00000108433	<i>GOSR2</i>	-0,58	2,20E-05	-0,63	2,66E-06
ENSG00000229314	<i>ORM1</i>	-1,55	2,06E-35	-0,60	2,66E-06
ENSG00000110104	<i>CCDC86</i>	-0,70	2,81E-08	-0,59	2,66E-06
ENSG00000144524	<i>COPS7B</i>	-0,39	3,22E-04	-0,50	2,85E-06
ENSG00000198952	<i>SMG5</i>	-1,34	2,46E-56	-0,41	2,88E-06
ENSG00000140262	<i>TCF12</i>	-0,52	8,34E-08	-0,46	2,91E-06
ENSG00000189362	<i>TMEM194B</i>	-1,04	6,08E-15	-0,63	3,00E-06
ENSG00000102606	<i>ARHGEF7</i>	-0,57	9,14E-09	-0,47	3,00E-06
ENSG00000136997	<i>MYC</i>	-0,41	3,21E-04	-0,52	3,02E-06
ENSG00000099995	<i>SF3A1</i>	-0,42	1,13E-06	-0,40	3,15E-06
ENSG00000197329	<i>PEL1</i>	-0,92	8,13E-22	-0,46	3,16E-06
ENSG00000141027	<i>NCOR1</i>	-0,31	1,12E-04	-0,37	3,21E-06
ENSG00000035499	<i>DEPDC1B</i>	-0,28	8,61E-03	-0,46	3,40E-06
ENSG00000146858	<i>ZC3HAV1L</i>	-1,03	2,53E-09	-0,81	3,46E-06
ENSG00000168175	<i>MAPK1IP1L</i>	-0,29	2,76E-03	-0,43	3,50E-06
ENSG00000129195	<i>FAM64A</i>	-0,41	5,24E-04	-0,54	3,55E-06
ENSG00000165891	<i>E2F7</i>	-0,60	1,14E-05	-0,63	3,62E-06
ENSG00000185201	<i>IFITM2</i>	-0,80	1,36E-03	-1,14	3,64E-06
ENSG00000107957	<i>SH3PXD2A</i>	-1,95	1,43E-61	-0,54	3,65E-06
ENSG00000064309	<i>CDON</i>	-0,73	4,40E-06	-0,73	3,75E-06
ENSG00000102225	<i>CDK16</i>	-0,67	8,39E-10	-0,51	3,82E-06
ENSG00000099194	<i>SCD</i>	-0,64	2,71E-04	-0,80	3,99E-06
ENSG00000147874	<i>HAUS6</i>	-0,50	9,67E-06	-0,52	4,11E-06

ENSG00000177479	<i>ARIH2</i>	-0,35	4,34E-04	-0,44	4,14E-06
ENSG00000145386	<i>CCNA2</i>	-0,66	2,98E-16	-0,38	4,15E-06
ENSG00000171206	<i>TRIM8</i>	-0,51	2,12E-04	-0,62	4,26E-06
ENSG00000153879	<i>CEBPG</i>	-0,67	4,75E-14	-0,42	4,43E-06
ENSG00000175376	<i>EIF1AD</i>	-0,78	4,52E-12	-0,52	4,48E-06
ENSG00000123268	<i>ATF1</i>	-0,62	3,13E-06	-0,61	4,57E-06
ENSG00000196230	<i>LOC442308</i>	-0,74	7,17E-28	-0,33	4,64E-06
ENSG00000172534	<i>HCFC1</i>	-0,55	2,15E-12	-0,37	4,78E-06
ENSG00000038382	<i>TRIO</i>	-0,65	7,16E-17	-0,37	4,85E-06
ENSG00000160818	<i>GPATCH4</i>	-1,29	1,99E-36	-0,48	4,85E-06
ENSG00000134057	<i>CCNB1</i>	-0,55	4,25E-13	-0,35	4,93E-06
ENSG00000166181	<i>API5</i>	-0,51	1,64E-09	-0,39	5,08E-06
ENSG00000135316	<i>SYNCRIP</i>	-0,42	2,82E-07	-0,38	5,10E-06
ENSG00000111412	<i>C12ORF49</i>	-0,54	3,35E-05	-0,60	5,16E-06
ENSG00000196141	<i>SPATS2L</i>	-0,40	8,24E-07	-0,37	5,31E-06
ENSG00000121964	<i>GTDC1</i>	-0,73	4,61E-04	-0,94	5,43E-06
ENSG00000165424	<i>ZCCHC24</i>	-0,74	4,52E-04	-0,94	5,59E-06
ENSG00000164933	<i>SLC25A32</i>	-0,44	4,17E-04	-0,55	5,78E-06
ENSG00000143126	<i>CELSR2</i>	-0,50	2,03E-03	-0,72	6,02E-06
ENSG00000179051	<i>RCC2</i>	-0,53	6,09E-10	-0,39	6,10E-06
ENSG00000087074	<i>PPP1R15A</i>	-1,19	3,03E-26	-0,51	6,14E-06
ENSG00000102763	<i>KIAA0564</i>	-0,55	1,29E-05	-0,57	6,46E-06
ENSG00000174371	<i>EXO1</i>	-0,42	2,76E-04	-0,51	6,77E-06
ENSG00000134308	<i>YWHAQ</i>	-0,37	1,75E-07	-0,33	6,81E-06
ENSG00000175898	<i>S1PR2</i>	-0,97	1,13E-03	-1,32	7,32E-06
ENSG00000196367	<i>TRRAP</i>	-0,75	5,23E-17	-0,42	7,38E-06
ENSG00000144840	<i>RABL3</i>	-0,56	1,89E-03	-0,79	7,44E-06
ENSG00000166197	<i>NOLC1</i>	-1,85	2,91E-99	-0,40	7,55E-06
ENSG00000140988	<i>RPS2</i>	-0,67	1,94E-24	-0,31	7,83E-06
ENSG00000167635	<i>ZNF146</i>	-1,92	4,43E-90	-0,43	8,15E-06
ENSG00000144713	<i>RPL32</i>	-0,50	7,34E-12	-0,34	8,15E-06
ENSG00000132359	<i>RAP1GAP2</i>	-0,83	4,42E-05	-0,91	8,30E-06

ENSG00000135679	<i>MDM2</i>	-0,69	7,60E-09	-0,54	8,51E-06
ENSG00000082898	<i>XPO1</i>	-0,37	1,02E-06	-0,34	8,74E-06
ENSG00000121644	<i>PPPDE1</i>	-1,52	1,05E-49	-0,46	8,83E-06
ENSG00000164815	<i>ORC5L</i>	-0,49	2,46E-04	-0,58	8,90E-06
ENSG00000197498	<i>RPF2</i>	-0,36	4,65E-03	-0,55	9,30E-06
ENSG00000196954	<i>CASP4</i>	-1,00	1,14E-22	-0,46	9,91E-06
ENSG00000167695	<i>FAM57A</i>	-0,77	1,76E-09	-0,57	1,02E-05
ENSG00000150630	<i>VEGFC</i>	-0,78	1,50E-03	-1,07	1,05E-05
ENSG00000164329	<i>PAPD4</i>	-0,52	1,83E-05	-0,54	1,12E-05
ENSG00000106638	<i>TBL2</i>	-0,50	2,85E-05	-0,52	1,12E-05
ENSG00000148468	<i>FAM171A1</i>	-0,56	1,03E-05	-0,56	1,24E-05
ENSG00000164109	<i>MAD2L1</i>	-0,68	7,01E-15	-0,39	1,31E-05
ENSG00000021645	<i>NRXN3</i>	-0,79	5,84E-13	-0,49	1,31E-05
ENSG00000011304	<i>PTBP1</i>	-0,47	4,88E-08	-0,38	1,34E-05
ENSG00000184675	<i>FAM123B</i>	-1,11	1,83E-09	-0,80	1,34E-05
ENSG00000115718	<i>PROC</i>	-1,05	1,34E-07	-0,87	1,36E-05
ENSG00000143341	<i>HMCN1</i>	-1,44	1,63E-06	-1,31	1,37E-05
ENSG00000231074	<i>HCG18</i>	-1,25	7,24E-39	-0,42	1,39E-05
ENSG00000087269	<i>NOP14</i>	-0,85	1,73E-16	-0,45	1,47E-05
ENSG00000164171	<i>ITGA2</i>	-0,43	3,14E-03	-0,61	1,71E-05
ENSG00000168734	<i>PKIG</i>	-0,93	1,12E-03	-1,21	1,71E-05
ENSG00000181938	<i>GINS3</i>	-0,52	3,42E-03	-0,74	1,71E-05
ENSG00000099381	<i>SETD1A</i>	-0,30	6,11E-03	-0,45	1,73E-05
ENSG00000184226	<i>PCDH9</i>	-1,29	2,85E-19	-0,62	1,76E-05
ENSG00000164924	<i>YWHAZ</i>	-0,50	3,88E-18	-0,26	1,77E-05
ENSG00000063046	<i>EIF4B</i>	-0,55	3,69E-13	-0,34	1,83E-05
ENSG00000244462	<i>RBM12</i>	-0,26	6,09E-03	-0,39	1,83E-05
ENSG00000182272	<i>B4GALNT4</i>	-1,64	3,90E-14	-0,93	1,88E-05
ENSG00000135486	<i>HNRNPA1</i>	-0,64	5,10E-26	-0,27	1,98E-05
ENSG00000218226	<i>TATDN2P2</i>	-0,87	2,18E-04	-1,00	2,03E-05
ENSG00000004975	<i>DVL2</i>	-0,28	5,38E-03	-0,41	2,06E-05
ENSG00000130227	<i>XPO7</i>	-0,82	2,92E-18	-0,41	2,10E-05

ENSG00000085999	<i>RAD54L</i>	-0,70	6,47E-05	-0,74	2,14E-05
ENSG00000047457	<i>CP</i>	-1,77	7,74E-45	-0,54	2,16E-05
ENSG00000161021	<i>MAML1</i>	-0,93	4,72E-13	-0,56	2,23E-05
ENSG00000170779	<i>CDCA4</i>	-0,54	1,81E-04	-0,61	2,25E-05
ENSG00000169504	<i>CLIC4</i>	-0,48	3,67E-06	-0,44	2,27E-05
ENSG00000126226	<i>PCID2</i>	-0,31	6,77E-04	-0,38	2,44E-05
ENSG00000088826	<i>SMOX</i>	-0,98	1,28E-11	-0,62	2,49E-05
ENSG00000162063	<i>CCNF</i>	-0,95	1,35E-13	-0,55	2,60E-05
ENSG00000149187	<i>CELF1</i>	-0,89	9,89E-37	-0,31	2,71E-05
ENSG00000214262	<i>ANKRD36B</i>	-0,63	2,88E-05	-0,63	2,87E-05
ENSG00000093009	<i>CDC45</i>	-1,19	6,73E-19	-0,57	2,89E-05
ENSG00000145425	<i>LOC100130107</i>	-0,74	5,80E-28	-0,30	3,01E-05
ENSG00000166803	<i>KIAA0101</i>	-0,52	6,98E-06	-0,49	3,01E-05
ENSG00000085788	<i>DDHD2</i>	-0,58	5,66E-07	-0,48	3,01E-05
ENSG00000060688	<i>SNRNP40</i>	-0,56	1,02E-05	-0,53	3,04E-05
ENSG00000149573	<i>MPZL2</i>	-0,31	8,60E-03	-0,47	3,14E-05
ENSG00000140406	<i>MESDC1</i>	-0,96	3,08E-06	-0,86	3,25E-05
ENSG00000088930	<i>XRN2</i>	-0,62	1,15E-15	-0,33	3,31E-05
ENSG00000075218	<i>GTSE1</i>	-0,61	3,79E-09	-0,44	3,38E-05
ENSG00000095752	<i>IL11</i>	-1,11	3,45E-04	-1,27	3,39E-05
ENSG00000119559	<i>C19ORF25</i>	-0,85	2,08E-10	-0,56	3,58E-05
ENSG00000132780	<i>NASP</i>	-0,82	3,13E-32	-0,30	3,90E-05
ENSG00000196208	<i>GREB1</i>	-0,56	1,30E-04	-0,60	4,03E-05
ENSG00000178607	<i>ERN1</i>	-0,96	8,01E-07	-0,80	4,36E-05
ENSG00000141576	<i>RNF157</i>	-1,24	1,60E-26	-0,49	4,37E-05
ENSG00000163812	<i>ZDHHC3</i>	-0,79	7,80E-12	-0,48	4,50E-05
ENSG00000074181	<i>NOTCH3</i>	-0,80	3,67E-08	-0,59	4,56E-05
ENSG00000165030	<i>NFIL3</i>	-0,78	4,60E-11	-0,49	4,74E-05
ENSG00000144824	<i>PHLDB2</i>	-0,51	4,84E-06	-0,46	4,96E-05
ENSG00000151892	<i>GFRA1</i>	-2,99	3,68E-23	-1,15	5,07E-05
ENSG00000125648	<i>SLC25A23</i>	-0,80	4,18E-14	-0,44	5,19E-05
ENSG00000178202	<i>KDELC2</i>	-0,39	8,00E-05	-0,40	5,24E-05

ENSG00000141867	<i>BRD4</i>	-0,43	4,87E-07	-0,35	5,33E-05
ENSG00000112290	<i>WASF1</i>	-0,91	7,27E-14	-0,50	5,46E-05
ENSG00000156504	<i>FAM122B</i>	-0,82	7,73E-12	-0,49	5,46E-05
ENSG00000135801	<i>TAF5L</i>	-0,30	4,94E-03	-0,42	5,57E-05
ENSG00000132002	<i>DNAJB1</i>	-0,26	9,20E-03	-0,38	5,66E-05
ENSG00000143420	<i>ENSA</i>	-0,32	6,92E-05	-0,33	5,73E-05
ENSG00000139211	<i>AMIGO2</i>	-0,72	4,83E-05	-0,71	5,93E-05
ENSG00000156639	<i>ZFAND3</i>	-0,66	9,44E-15	-0,36	6,11E-05
ENSG00000138668	<i>HNRNPD</i>	-0,56	3,09E-11	-0,35	6,11E-05
ENSG00000101310	<i>SEC23B</i>	-0,48	1,04E-10	-0,31	6,50E-05
ENSG00000105618	<i>PRPF31</i>	-0,42	4,52E-03	-0,58	6,61E-05
ENSG00000113368	<i>LMNB1</i>	-0,89	1,18E-26	-0,35	6,67E-05
ENSG00000189343	<i>RPS2P46</i>	-0,77	9,99E-14	-0,43	6,86E-05
ENSG00000181873	<i>C1ORF69</i>	-0,52	2,58E-03	-0,67	6,94E-05
ENSG00000028310	<i>BRD9</i>	-0,39	1,49E-03	-0,48	6,96E-05
ENSG00000153107	<i>ANAPC1</i>	-0,63	1,37E-12	-0,37	7,65E-05
ENSG00000146802	<i>TMEM168</i>	-1,05	1,10E-12	-0,59	7,71E-05
ENSG00000151208	<i>DLG5</i>	-0,61	7,23E-10	-0,40	7,77E-05
ENSG00000100425	<i>BRD1</i>	-0,37	1,74E-03	-0,45	7,89E-05
ENSG00000136758	<i>YME1L1</i>	-1,22	1,46E-38	-0,39	7,97E-05
ENSG00000137312	<i>FLOT1</i>	-1,28	8,00E-60	-0,32	8,05E-05
ENSG00000168496	<i>FEN1</i>	-0,46	3,78E-08	-0,34	8,06E-05
ENSG00000136731	<i>UGGT1</i>	-0,41	6,15E-07	-0,33	8,08E-05
ENSG00000136478	<i>TEX2</i>	-0,64	5,83E-09	-0,44	8,14E-05
ENSG00000080608	<i>KIAA0020</i>	-0,98	4,15E-18	-0,46	8,42E-05
ENSG00000023445	<i>BIRC3</i>	-1,61	6,73E-21	-0,68	8,45E-05
ENSG00000198369	<i>SPRED2</i>	-0,54	8,94E-09	-0,38	8,46E-05
ENSG00000163605	<i>PPP4R2</i>	-1,10	7,76E-27	-0,42	8,50E-05
ENSG00000130726	<i>TRIM28</i>	-0,46	8,10E-12	-0,27	8,80E-05
ENSG00000112365	<i>ZBTB24</i>	-0,68	1,48E-05	-0,62	9,04E-05
ENSG00000160691	<i>SHC1</i>	-1,00	2,97E-42	-0,30	9,43E-05
ENSG00000163584	<i>RPL22L1</i>	-1,26	6,58E-20	-0,54	1,08E-04

ENSG00000188971	/	-0,45	5,94E-04	-0,50	1,09E-04
ENSG00000105568	<i>PPP2R1A</i>	-0,80	1,98E-21	-0,34	1,09E-04
ENSG00000104356	<i>POP1</i>	-0,90	4,90E-11	-0,53	1,13E-04
ENSG00000124783	<i>SSR1</i>	-1,45	7,96E-68	-0,34	1,13E-04
ENSG00000198924	<i>DCLRE1A</i>	-0,57	3,49E-05	-0,53	1,15E-04
ENSG00000172716	<i>SLFN11</i>	-0,95	1,45E-04	-0,96	1,20E-04
ENSG00000047644	<i>WWC3</i>	-0,99	7,71E-14	-0,52	1,22E-04
ENSG00000198700	<i>IPO9</i>	-0,28	1,13E-04	-0,28	1,25E-04
ENSG00000184220	<i>C3ORF26</i>	-0,81	1,78E-06	-0,66	1,29E-04
ENSG00000116251	<i>RPL22</i>	-0,57	6,54E-09	-0,38	1,41E-04
ENSG00000095139	<i>ARCN1</i>	-0,26	2,06E-03	-0,31	1,48E-04
ENSG00000155438	<i>MKI67IP</i>	-0,59	2,94E-09	-0,39	1,48E-04
ENSG00000115363	<i>FAM176A</i>	-0,65	1,27E-03	-0,75	1,59E-04
ENSG00000108312	<i>UBTF</i>	-0,48	1,36E-09	-0,31	1,62E-04
ENSG00000184009	<i>ACTG1</i>	-0,47	8,48E-14	-0,25	1,63E-04
ENSG00000165097	<i>KDM1B</i>	-1,73	1,05E-41	-0,48	1,63E-04
ENSG00000112306	<i>RPS12</i>	-0,84	1,71E-28	-0,31	1,64E-04
ENSG00000137285	<i>TUBB2B</i>	-0,63	4,24E-08	-0,44	1,66E-04
ENSG00000125944	<i>HNRNPR</i>	-0,74	8,33E-21	-0,31	1,69E-04
ENSG00000135473	<i>PAN2</i>	-0,47	3,21E-03	-0,59	1,71E-04
ENSG00000170903	<i>KIAA1826</i>	-1,24	1,58E-20	-0,51	1,73E-04
ENSG00000161547	<i>SFRS2</i>	-0,47	1,82E-07	-0,35	1,81E-04
ENSG00000159461	<i>AMFR</i>	-0,36	1,91E-03	-0,43	1,84E-04
ENSG00000135213	<i>LOC729316</i>	-0,77	5,11E-14	-0,40	1,84E-04
ENSG00000005100	<i>DHX33</i>	-0,82	3,05E-15	-0,40	1,92E-04
ENSG00000172197	<i>MBOAT1</i>	-0,95	6,56E-06	-0,79	2,10E-04
ENSG00000167378	<i>IRGQ</i>	-0,52	3,39E-04	-0,53	2,11E-04
ENSG00000137177	<i>KIF13A</i>	-0,69	6,08E-19	-0,30	2,17E-04
ENSG00000121774	<i>KHDRBS1</i>	-0,37	3,40E-07	-0,27	2,20E-04
ENSG00000131153	<i>GINS2</i>	-0,55	4,32E-04	-0,57	2,23E-04
ENSG00000119203	<i>CPSF3</i>	-0,39	2,52E-03	-0,46	2,25E-04
ENSG00000178996	<i>SNX18</i>	-1,01	1,49E-24	-0,38	2,31E-04

ENSG00000182606	<i>TRAK1</i>	-0,37	4,97E-03	-0,47	2,32E-04
ENSG00000157540	<i>DYRK1A</i>	-0,49	1,82E-06	-0,38	2,32E-04
ENSG00000263899	/	-1,16	7,77E-09	-0,74	2,40E-04
ENSG00000128641	<i>MYO1B</i>	-0,28	2,21E-03	-0,33	2,40E-04
ENSG00000136026	<i>CKAP4</i>	-1,61	8,97E-56	-0,39	2,40E-04
ENSG00000146263	<i>C6ORF167</i>	-0,50	5,32E-05	-0,46	2,48E-04
ENSG00000105229	<i>PIAS4</i>	-0,71	4,62E-06	-0,57	2,49E-04
ENSG00000077238	<i>IL4R</i>	-0,44	1,51E-04	-0,42	2,55E-04
ENSG00000100836	<i>PABPN1</i>	-0,62	1,12E-06	-0,47	2,55E-04
ENSG00000100281	<i>HMGXB4</i>	-0,87	3,25E-14	-0,43	2,58E-04
ENSG00000198218	<i>QRICH1</i>	-0,32	8,12E-04	-0,34	2,69E-04
ENSG00000100426	<i>ZBED4</i>	-0,98	2,11E-18	-0,42	2,73E-04
ENSG00000141905	<i>NFIC</i>	-0,51	1,26E-04	-0,49	2,84E-04
ENSG00000157456	<i>CCNB2</i>	-0,36	1,21E-04	-0,34	2,86E-04
ENSG00000119682	<i>KIAA0317</i>	-0,62	1,61E-08	-0,41	2,94E-04
ENSG00000166526	<i>ZNF3</i>	-1,17	7,67E-23	-0,44	3,09E-04
ENSG00000115963	<i>RND3</i>	-0,99	3,17E-28	-0,34	3,18E-04
ENSG00000198860	<i>TSEN15</i>	-0,46	1,73E-04	-0,44	3,18E-04
ENSG00000126773	<i>C14ORF135</i>	-0,33	6,22E-05	-0,30	3,20E-04
ENSG00000055163	<i>CYFIP2</i>	-1,14	3,97E-09	-0,70	3,27E-04
ENSG00000136982	<i>DSCC1</i>	-1,02	5,19E-12	-0,54	3,33E-04
ENSG00000066084	<i>DIP2B</i>	-0,68	3,60E-18	-0,30	3,36E-04
ENSG00000116128	<i>BCL9</i>	-0,45	5,83E-04	-0,47	3,40E-04
ENSG00000075275	<i>CELSR1</i>	-0,73	9,76E-19	-0,31	3,42E-04
ENSG00000171208	<i>NETO2</i>	-0,86	2,67E-09	-0,52	3,44E-04
ENSG00000188725	<i>C5ORF43</i>	-0,52	2,33E-06	-0,40	3,47E-04
ENSG00000151692	<i>RNF144A</i>	-0,49	9,14E-03	-0,66	3,48E-04
ENSG00000101040	<i>ZMYND8</i>	-0,76	3,72E-19	-0,32	3,49E-04
ENSG00000111981	<i>ULBP1</i>	-1,65	1,83E-12	-0,83	3,62E-04
ENSG00000145220	<i>LYAR</i>	-0,96	3,18E-13	-0,49	3,62E-04
ENSG00000090621	<i>PABPC4</i>	-0,91	8,53E-23	-0,35	3,72E-04
ENSG00000178921	<i>PFAS</i>	-0,66	1,22E-14	-0,32	3,77E-04

ENSG00000103187	<i>COTL1</i>	-1,04	1,54E-13	-0,51	3,85E-04
ENSG00000100297	<i>MCM5</i>	-0,43	5,44E-07	-0,31	3,85E-04
ENSG00000170471	<i>RALGAPB</i>	-0,28	1,22E-03	-0,31	3,85E-04
ENSG00000101361	<i>NOP56</i>	-0,51	2,00E-12	-0,27	3,87E-04
ENSG00000103342	<i>GSPT1</i>	-0,74	1,58E-23	-0,28	3,88E-04
ENSG00000129250	<i>KIF1C</i>	-1,31	6,37E-86	-0,25	4,01E-04
ENSG00000166562	<i>SEC11C</i>	-1,07	1,53E-08	-0,68	4,29E-04
ENSG00000186575	<i>NF2</i>	-1,49	9,05E-36	-0,43	4,45E-04
ENSG00000164741	<i>DLC1</i>	-0,52	2,84E-11	-0,28	4,46E-04
ENSG00000139350	<i>NEDD1</i>	-0,73	2,09E-06	-0,55	4,46E-04
ENSG00000162545	<i>CAMK2N1</i>	-0,85	3,77E-08	-0,55	4,47E-04
ENSG00000111605	<i>CPSF6</i>	-0,33	6,53E-05	-0,30	4,62E-04
ENSG00000007168	<i>PAFAH1B1</i>	-0,34	6,37E-06	-0,27	4,63E-04
ENSG00000165724	<i>ZMYND19</i>	-0,64	1,56E-04	-0,59	4,66E-04
ENSG00000235499	<i>AC073046.25</i>	-0,83	5,36E-03	-1,02	4,75E-04
ENSG00000104064	<i>GABPB1</i>	-0,55	5,26E-05	-0,48	4,83E-04
ENSG00000189221	<i>MAOA</i>	-0,47	2,46E-03	-0,53	4,92E-04
ENSG00000188021	<i>UBQLN2</i>	-1,07	9,28E-13	-0,53	4,92E-04
ENSG00000161638	<i>ITGA5</i>	-0,75	2,42E-12	-0,39	5,17E-04
ENSG00000124422	<i>USP22</i>	-0,90	3,81E-33	-0,28	5,20E-04
ENSG00000166147	<i>FBN1</i>	-0,58	1,51E-06	-0,42	5,24E-04
ENSG00000168993	<i>CPLX1</i>	-0,94	4,90E-03	-1,14	5,29E-04
ENSG00000101294	<i>HM13</i>	-0,25	1,17E-03	-0,27	5,51E-04
ENSG00000110367	<i>DDX6</i>	-0,37	1,09E-04	-0,33	5,52E-04
ENSG00000100906	<i>NFKBIA</i>	-0,49	7,42E-05	-0,43	5,57E-04
ENSG00000135372	<i>NAT10</i>	-1,11	6,34E-29	-0,36	5,60E-04
ENSG00000080819	<i>CPOX</i>	-0,67	1,75E-07	-0,45	5,60E-04
ENSG00000187735	<i>TCEA1</i>	-0,47	9,25E-08	-0,32	5,63E-04
ENSG00000113296	<i>THBS4</i>	-0,94	2,85E-05	-0,78	5,63E-04
ENSG00000101109	<i>STK4</i>	-0,58	8,27E-09	-0,36	5,65E-04
ENSG00000104635	<i>SLC39A14</i>	-0,95	9,84E-32	-0,30	5,76E-04
ENSG00000131653	<i>TRAF7</i>	-0,81	1,79E-14	-0,38	5,81E-04

ENSG00000118707	<i>TGIF2</i>	-1,16	1,70E-34	-0,34	5,81E-04
ENSG00000198885	<i>ITPR1PL1</i>	-0,90	3,95E-05	-0,76	5,83E-04
ENSG00000008988	<i>RPS20</i>	-0,55	1,36E-12	-0,28	6,01E-04
ENSG00000143761	<i>ARF1</i>	-0,38	3,68E-08	-0,25	6,04E-04
ENSG00000196182	<i>STK40</i>	-1,05	4,55E-22	-0,38	6,13E-04
ENSG00000166233	<i>ARIH1</i>	-0,66	1,12E-11	-0,35	6,19E-04
ENSG00000166454	<i>ATMIN</i>	-0,42	1,09E-03	-0,43	6,31E-04
ENSG00000124920	<i>C11ORF9</i>	-0,76	1,46E-20	-0,30	6,34E-04
ENSG00000183530	<i>C22ORF30</i>	-0,42	1,91E-06	-0,31	6,50E-04
ENSG00000198053	<i>SIRPA</i>	-1,26	2,44E-05	-1,03	6,63E-04
ENSG00000160710	<i>ADAR</i>	-0,25	9,02E-04	-0,26	6,65E-04
ENSG00000107566	<i>ERLIN1</i>	-0,95	4,50E-21	-0,36	6,74E-04
ENSG00000131899	<i>LLGL1</i>	-0,36	1,04E-03	-0,38	6,87E-04
ENSG00000168209	<i>DDIT4</i>	-1,29	1,89E-08	-0,79	7,10E-04
ENSG00000163362	<i>C10RF106</i>	-0,29	7,91E-03	-0,36	7,13E-04
ENSG00000138346	<i>DNA2</i>	-0,40	8,46E-03	-0,50	7,19E-04
ENSG00000255529	<i>POLR2M</i>	-0,42	3,02E-03	-0,47	7,38E-04
ENSG00000142945	<i>KIF2C</i>	-0,80	6,35E-20	-0,31	7,49E-04
ENSG00000174903	<i>RAB1B</i>	-0,66	9,47E-10	-0,38	7,54E-04
ENSG00000197472	<i>ZNF695</i>	-0,69	3,60E-04	-0,65	7,63E-04
ENSG00000152455	<i>SUV39H2</i>	-0,47	1,43E-03	-0,49	7,63E-04
ENSG00000160888	<i>IER2</i>	-0,68	5,84E-07	-0,47	7,77E-04
ENSG00000124207	<i>CSE1L</i>	-0,66	1,10E-14	-0,30	7,91E-04
ENSG00000160685	<i>ZBTB7B</i>	-0,74	7,85E-13	-0,36	8,16E-04
ENSG00000100029	<i>PES1</i>	-1,05	1,54E-33	-0,31	8,17E-04
ENSG00000047315	<i>POLR2B</i>	-0,59	6,88E-17	-0,25	8,38E-04
ENSG00000253729	<i>PRKDC</i>	-0,53	3,21E-12	-0,27	8,60E-04
ENSG00000196498	<i>NCOR2</i>	-1,43	8,09E-38	-0,38	8,62E-04
ENSG00000151718	<i>WWC2</i>	-0,30	5,82E-04	-0,29	8,69E-04
ENSG00000146674	<i>IGFBP3</i>	-1,21	3,36E-29	-0,37	8,77E-04
ENSG00000163755	<i>HPS3</i>	-0,54	2,90E-05	-0,44	8,97E-04
ENSG00000072501	<i>SMC1A</i>	-1,47	4,06E-49	-0,36	9,03E-04

ENSG00000133112	<i>LOC285741</i>	-0,51	1,46E-13	-0,24	9,67E-04
ENSG00000166986	<i>MARS</i>	-0,88	1,84E-26	-0,29	9,67E-04
ENSG00000137221	<i>TJAP1</i>	-0,45	8,15E-05	-0,39	9,70E-04
ENSG00000160124	<i>CCDC58</i>	-0,68	1,66E-06	-0,48	9,81E-04
ENSG00000228278	<i>ORM2</i>	-1,15	1,53E-11	-0,58	9,81E-04
ENSG00000129810	<i>SGOL1</i>	-0,56	2,60E-05	-0,45	9,89E-04
ENSG00000120705	<i>ETF1</i>	-0,57	6,53E-15	-0,26	9,99E-04
ENSG00000100603	<i>SNW1</i>	-0,32	5,13E-03	-0,36	1,02E-03
ENSG00000103275	<i>UBE2I</i>	-0,64	7,48E-07	-0,43	1,03E-03
ENSG00000153207	<i>AHCTF1</i>	-0,30	1,80E-03	-0,31	1,04E-03
ENSG00000138166	<i>DUSP5</i>	-2,04	2,50E-34	-0,54	1,05E-03
ENSG00000119231	<i>SENP5</i>	-0,30	4,93E-03	-0,35	1,06E-03
ENSG00000117133	<i>RPF1</i>	-0,48	4,15E-04	-0,45	1,06E-03
ENSG00000092758	<i>COL9A3</i>	-1,07	1,66E-07	-0,68	1,08E-03
ENSG00000163159	<i>VPS72</i>	-0,65	6,90E-10	-0,36	1,08E-03
ENSG00000136518	<i>ACTL6A</i>	-0,33	1,05E-04	-0,28	1,08E-03
ENSG00000116127	<i>ALMS1</i>	-1,57	6,23E-27	-0,49	1,09E-03
ENSG00000182319	<i>SGK223</i>	-0,68	7,17E-07	-0,46	1,10E-03
ENSG00000120526	<i>NUCD1</i>	-0,45	6,54E-05	-0,38	1,13E-03
ENSG00000132164	<i>SLC6A11</i>	-0,90	1,97E-09	-0,50	1,14E-03
ENSG00000021776	<i>AQR</i>	-0,45	1,32E-04	-0,39	1,16E-03
ENSG00000172432	<i>GTPBP2</i>	-0,48	2,80E-05	-0,38	1,18E-03
ENSG00000187231	<i>SESTD1</i>	-0,48	6,82E-09	-0,28	1,18E-03
ENSG00000262944	/	-0,60	8,71E-04	-0,59	1,19E-03
ENSG00000180535	<i>BHLHA15</i>	-0,94	7,16E-03	-1,11	1,21E-03
ENSG00000142186	<i>SCYL1</i>	-0,39	2,35E-04	-0,35	1,21E-03
ENSG00000196781	<i>LOC645381</i>	-0,22	8,31E-03	-0,27	1,22E-03
ENSG00000103194	<i>USP10</i>	-0,36	1,35E-04	-0,31	1,22E-03
ENSG00000167395	<i>ZNF646</i>	-0,31	9,32E-03	-0,38	1,25E-03
ENSG00000100941	<i>PNN</i>	-0,37	2,76E-05	-0,29	1,27E-03
ENSG00000150961	<i>SEC24D</i>	-0,82	1,23E-16	-0,34	1,27E-03
ENSG00000162039	<i>C16ORF73</i>	-0,76	3,65E-06	-0,54	1,32E-03

ENSG00000111266	<i>DUSP16</i>	-0,58	1,90E-07	-0,37	1,33E-03
ENSG00000133056	<i>PIK3C2B</i>	-0,54	5,36E-07	-0,36	1,34E-03
ENSG00000150093	<i>ITGB1</i>	-0,56	2,24E-14	-0,25	1,35E-03
ENSG00000177731	<i>FLII</i>	-0,30	1,54E-04	-0,26	1,35E-03
ENSG00000115163	<i>CENPA</i>	-0,61	2,65E-04	-0,54	1,35E-03
ENSG00000104331	<i>IMPAD1</i>	-0,45	2,16E-07	-0,29	1,35E-03
ENSG00000151247	<i>EIF4E</i>	-0,33	1,97E-03	-0,34	1,37E-03
ENSG00000133740	<i>E2F5</i>	-0,57	5,11E-03	-0,64	1,39E-03
ENSG00000137073	<i>UBAP2</i>	-0,38	4,73E-05	-0,31	1,39E-03
ENSG00000011426	<i>ANLN</i>	-0,39	2,52E-05	-0,30	1,40E-03
ENSG00000162980	<i>ARL5A</i>	-1,17	2,76E-28	-0,36	1,41E-03
ENSG00000101407	<i>KIAA0406</i>	-0,95	5,29E-24	-0,32	1,41E-03
ENSG00000089876	<i>DHX32</i>	-0,80	3,46E-07	-0,51	1,45E-03
ENSG00000115241	<i>PPM1G</i>	-0,41	2,79E-06	-0,29	1,47E-03
ENSG00000116478	<i>HDAC1</i>	-0,52	2,42E-10	-0,27	1,59E-03
ENSG00000143799	<i>PARP1</i>	-0,86	3,85E-28	-0,27	1,60E-03
ENSG00000183520	<i>UTP11L</i>	-0,64	1,47E-08	-0,37	1,62E-03
ENSG00000077942	<i>FBLN1</i>	-0,31	3,08E-05	-0,24	1,65E-03
ENSG00000213699	<i>C2ORF18</i>	-0,62	1,13E-07	-0,38	1,69E-03
ENSG00000100225	<i>FBXO7</i>	-0,27	2,85E-03	-0,28	1,71E-03
ENSG00000153574	<i>RPIA</i>	-0,53	1,38E-03	-0,51	1,76E-03
ENSG00000136295	<i>TTYH3</i>	-0,27	3,71E-03	-0,29	1,76E-03
ENSG00000122565	<i>CBX3</i>	-0,27	2,19E-04	-0,23	1,77E-03
ENSG00000129911	<i>KLF16</i>	-0,51	4,86E-03	-0,57	1,77E-03
ENSG00000165732	<i>DDX21</i>	-0,82	6,16E-26	-0,26	1,78E-03
ENSG00000103365	<i>GGA2</i>	-0,25	1,43E-03	-0,24	1,85E-03
ENSG00000185104	<i>FAF1</i>	-0,35	3,12E-03	-0,37	1,88E-03
ENSG00000116991	<i>SIPA1L2</i>	-1,77	1,80E-40	-0,41	1,88E-03
ENSG00000172216	<i>CEBPB</i>	-0,76	8,86E-04	-0,71	1,92E-03
ENSG00000125885	<i>MCM8</i>	-0,76	1,38E-12	-0,35	1,93E-03
ENSG00000153113	<i>CAST</i>	-0,30	2,15E-04	-0,26	1,99E-03
ENSG00000178999	<i>AURKB</i>	-0,37	3,86E-05	-0,29	1,99E-03

ENSG00000153310	<i>FAM49B</i>	-0,48	1,64E-08	-0,27	2,00E-03
ENSG00000167005	<i>NUDT21</i>	-0,30	1,42E-03	-0,30	2,02E-03
ENSG00000086598	<i>TMED2</i>	-0,29	1,86E-04	-0,25	2,04E-03
ENSG00000213064	<i>SFT2D2</i>	-0,70	2,20E-06	-0,46	2,06E-03
ENSG00000135097	<i>MSI1</i>	-1,91	2,10E-24	-0,57	2,11E-03
ENSG00000189410	<i>SH2D5</i>	-0,65	6,75E-03	-0,73	2,12E-03
ENSG00000113083	<i>LOX</i>	-1,48	3,08E-25	-0,45	2,16E-03
ENSG00000128050	<i>PAICS</i>	-0,80	4,04E-37	-0,21	2,17E-03
ENSG00000105173	<i>CCNE1</i>	-0,61	1,35E-03	-0,58	2,20E-03
ENSG00000147905	<i>ZCCHC7</i>	-0,98	1,12E-07	-0,58	2,22E-03
ENSG00000173890	<i>GPR160</i>	-0,41	8,64E-03	-0,46	2,24E-03
ENSG00000130723	<i>BAT2L1</i>	-0,35	1,53E-06	-0,24	2,25E-03
ENSG00000100749	<i>VRK1</i>	-0,55	5,15E-05	-0,42	2,27E-03
ENSG00000086589	<i>RBM22</i>	-0,37	3,38E-03	-0,38	2,30E-03
ENSG00000149591	<i>TAGLN</i>	-0,62	7,05E-04	-0,56	2,32E-03
ENSG00000128849	<i>CGNL1</i>	-1,45	1,25E-23	-0,45	2,35E-03
ENSG00000071994	<i>PDCD2</i>	-0,39	8,64E-04	-0,36	2,35E-03
ENSG00000118181	<i>RPS25</i>	-0,67	3,23E-13	-0,30	2,36E-03
ENSG00000105983	<i>LMBR1</i>	-0,68	1,94E-12	-0,31	2,36E-03
ENSG00000145781	<i>COMM10</i>	-0,67	2,34E-03	-0,66	2,38E-03
ENSG00000136450	<i>SFRS1</i>	-0,56	1,09E-14	-0,23	2,38E-03
ENSG00000145365	<i>TIFA</i>	-0,65	1,80E-03	-0,64	2,43E-03
ENSG00000100316	<i>LOC653881</i>	-0,80	1,12E-30	-0,23	2,46E-03
ENSG00000048828	<i>FAM120A</i>	-0,37	1,48E-05	-0,27	2,49E-03
ENSG00000101158	<i>TH1L</i>	-0,35	9,76E-05	-0,28	2,50E-03
ENSG00000196588	<i>MKL1</i>	-1,22	5,24E-26	-0,37	2,52E-03
ENSG00000146410	<i>FAM54A</i>	-0,53	2,01E-03	-0,52	2,53E-03
ENSG00000102317	<i>RBM3</i>	-0,75	1,31E-14	-0,31	2,54E-03
ENSG00000187109	<i>NAP1L1</i>	-1,37	1,61E-66	-0,26	2,59E-03
ENSG00000144724	<i>PTPRG</i>	-0,81	2,38E-15	-0,32	2,64E-03
ENSG00000163807	<i>KIAA1143</i>	-0,56	5,80E-06	-0,38	2,67E-03
ENSG00000022567	<i>SLC45A4</i>	-0,74	1,78E-13	-0,32	2,67E-03

ENSG00000176208	<i>ATAD5</i>	-0,59	1,39E-04	-0,47	2,69E-03
ENSG00000156374	<i>PCGF6</i>	-0,56	2,65E-03	-0,56	2,69E-03
ENSG00000171262	<i>FAM98B</i>	-0,64	1,97E-08	-0,36	2,69E-03
ENSG00000113758	<i>DBN1</i>	-0,40	1,61E-06	-0,26	2,71E-03
ENSG00000204356	<i>RDBP</i>	-0,39	2,36E-05	-0,28	2,73E-03
ENSG00000164818	<i>HEATR2</i>	-0,38	2,31E-04	-0,32	2,74E-03
ENSG00000101966	<i>XIAP</i>	-0,72	3,28E-09	-0,38	2,77E-03
ENSG00000122406	<i>RPL5</i>	-0,75	1,00E-30	-0,21	2,80E-03
ENSG00000198791	<i>CNOT7</i>	-0,40	4,31E-06	-0,27	2,80E-03
ENSG00000088247	<i>KHSRP</i>	-0,26	7,00E-04	-0,23	2,95E-03
ENSG00000170638	<i>TRABD</i>	-0,44	9,08E-03	-0,50	2,97E-03
ENSG00000101266	<i>CSNK2A1</i>	-0,91	2,02E-33	-0,24	3,00E-03
ENSG00000111596	<i>CNOT2</i>	-0,53	5,63E-08	-0,30	3,00E-03
ENSG00000177733	<i>HNRNPA0</i>	-0,58	6,90E-08	-0,33	3,00E-03
ENSG00000131873	<i>CHSY1</i>	-1,48	3,32E-07	-0,87	3,10E-03
ENSG00000146909	<i>NOM1</i>	-0,49	2,86E-05	-0,36	3,11E-03
ENSG00000142676	<i>RPL11</i>	-0,44	4,80E-09	-0,23	3,12E-03
ENSG00000149273	<i>RPS3</i>	-0,53	1,08E-09	-0,28	3,19E-03
ENSG00000146574	<i>C7ORF28A</i>	-0,35	8,40E-03	-0,38	3,19E-03
ENSG00000092969	<i>TGFB2</i>	-1,02	1,48E-22	-0,32	3,24E-03
ENSG00000112081	<i>SFRS3</i>	-0,44	8,23E-11	-0,21	3,28E-03
ENSG00000100030	<i>MAPK1</i>	-0,48	7,88E-09	-0,26	3,30E-03
ENSG00000108551	<i>RASD1</i>	-0,58	6,97E-03	-0,62	3,32E-03
ENSG0000005007	<i>UPF1</i>	-0,32	3,50E-04	-0,27	3,33E-03
ENSG00000130294	<i>KIF1A</i>	-0,85	4,65E-07	-0,51	3,35E-03
ENSG00000104320	<i>NBN</i>	-0,36	1,73E-03	-0,33	3,43E-03
ENSG00000203875	<i>SNHG5</i>	-0,51	7,77E-03	-0,55	3,43E-03
ENSG00000136940	<i>PDCL</i>	-0,74	9,48E-09	-0,39	3,47E-03
ENSG00000140474	<i>ULK3</i>	-0,40	4,20E-03	-0,41	3,49E-03
ENSG00000103429	<i>BFAR</i>	-0,29	4,16E-03	-0,30	3,56E-03
ENSG00000013810	<i>TACC3</i>	-0,48	2,98E-08	-0,26	3,59E-03
ENSG00000116786	<i>PLEKHM2</i>	-0,34	6,01E-03	-0,36	3,61E-03

ENSG00000159921	<i>GNE</i>	-0,38	8,13E-04	-0,33	3,68E-03
ENSG00000148426	<i>C100RF47</i>	-0,54	3,94E-03	-0,54	3,69E-03
ENSG00000089063	<i>C200RF30</i>	-0,25	3,46E-03	-0,25	3,71E-03
ENSG00000116539	<i>ASH1L</i>	-0,71	4,30E-17	-0,26	3,72E-03
ENSG00000152518	<i>ZFP36L2</i>	-0,46	3,10E-06	-0,30	3,73E-03
ENSG00000145362	<i>ANK2</i>	-0,59	3,88E-07	-0,35	3,74E-03
ENSG00000205937	<i>LOC643446</i>	-0,34	2,10E-03	-0,32	3,74E-03
ENSG00000171517	<i>LPAR3</i>	-1,18	1,47E-08	-0,62	3,77E-03
ENSG00000165802	<i>NELF</i>	-0,93	1,24E-19	-0,31	3,82E-03
ENSG00000137409	<i>MTCH1</i>	-0,36	5,66E-07	-0,22	3,93E-03
ENSG00000167118	<i>URM1</i>	-0,67	3,16E-08	-0,36	3,96E-03
ENSG00000177954	<i>RPS27</i>	-0,54	4,57E-13	-0,23	4,05E-03
ENSG00000105810	<i>CDK6</i>	-1,26	1,15E-54	-0,25	4,19E-03
ENSG00000156795	<i>WDYHV1</i>	-0,99	3,39E-07	-0,57	4,26E-03
ENSG00000188522	<i>FAM83G</i>	-0,42	2,66E-06	-0,27	4,33E-03
ENSG00000100479	<i>POLE2</i>	-0,59	2,45E-03	-0,56	4,36E-03
ENSG00000132640	<i>BTBD3</i>	-1,18	9,53E-26	-0,34	4,41E-03
ENSG00000104299	<i>INTS9</i>	-0,48	4,79E-03	-0,48	4,49E-03
ENSG00000137807	<i>KIF23</i>	-0,41	7,95E-05	-0,30	4,61E-03
ENSG00000116809	<i>ZBTB17</i>	-0,70	6,18E-07	-0,41	4,69E-03
ENSG00000169908	<i>TM4SF1</i>	-1,49	1,80E-05	-1,01	4,74E-03
ENSG00000115946	<i>PNO1</i>	-0,74	1,22E-11	-0,32	4,80E-03
ENSG00000143368	<i>SF3B4</i>	-0,48	3,82E-08	-0,26	4,80E-03
ENSG00000183955	<i>SETD8</i>	-0,62	5,67E-08	-0,34	4,99E-03
ENSG00000011275	<i>RNF216</i>	-0,59	1,80E-11	-0,26	5,05E-03
ENSG00000010165	<i>METTL13</i>	-0,47	7,06E-08	-0,26	5,11E-03
ENSG00000185686	<i>PRAME</i>	-0,95	3,01E-07	-0,53	5,12E-03
ENSG00000196227	<i>C200RF177</i>	-1,03	6,20E-13	-0,42	5,16E-03
ENSG00000001036	<i>FUCA2</i>	-0,62	3,47E-10	-0,29	5,35E-03
ENSG00000182158	<i>CREB3L2</i>	-0,44	7,88E-07	-0,26	5,52E-03
ENSG00000198890	<i>PRMT6</i>	-0,57	4,81E-06	-0,35	5,59E-03
ENSG00000101911	<i>PRPS2</i>	-0,71	7,10E-06	-0,45	5,69E-03

ENSG00000169756	<i>LIMS1</i>	-0,35	1,43E-05	-0,24	5,73E-03
ENSG00000182054	<i>IDH2</i>	-0,59	2,48E-09	-0,29	5,74E-03
ENSG00000159259	<i>CHAF1B</i>	-0,69	3,09E-05	-0,47	5,81E-03
ENSG00000166441	<i>RPL27A</i>	-0,72	3,74E-20	-0,24	5,89E-03
ENSG00000078269	<i>SYNJ2</i>	-0,59	6,45E-12	-0,25	5,89E-03
ENSG00000132510	<i>KDM6B</i>	-0,28	8,73E-03	-0,30	5,98E-03
ENSG00000188559	<i>RALGAPA2</i>	-1,41	4,80E-40	-0,31	6,05E-03
ENSG00000165392	<i>LOC652522</i>	-1,16	1,70E-19	-0,37	6,10E-03
ENSG00000102572	<i>STK24</i>	-0,28	2,14E-04	-0,22	6,11E-03
ENSG00000131626	<i>PPFIA1</i>	-0,46	3,91E-08	-0,24	6,14E-03
ENSG00000174469	<i>CNTNAP2</i>	-0,85	3,42E-03	-0,80	6,28E-03
ENSG00000125257	<i>ABCC4</i>	-0,41	3,70E-04	-0,32	6,32E-03
ENSG00000088205	<i>DDX18</i>	-0,57	7,24E-13	-0,23	6,52E-03
ENSG00000205542	<i>TMSB4X</i>	-0,50	3,06E-09	-0,25	6,53E-03
ENSG00000182307	<i>C8ORF33</i>	-0,85	5,95E-21	-0,26	6,58E-03
ENSG00000119318	<i>RAD23B</i>	-1,11	9,85E-69	-0,19	6,62E-03
ENSG00000091542	<i>ALKBH5</i>	-0,35	1,06E-04	-0,25	6,64E-03
ENSG00000113460	<i>BRIX1</i>	-0,69	1,63E-08	-0,35	6,69E-03
ENSG00000239306	<i>RBM14</i>	-0,28	9,91E-03	-0,29	6,77E-03
ENSG00000110700	<i>RPS13</i>	-0,61	8,12E-16	-0,22	6,87E-03
ENSG00000142937	<i>RPS8</i>	-0,57	1,79E-14	-0,22	6,90E-03
ENSG00000065615	<i>CYB5R4</i>	-0,64	5,72E-04	-0,51	6,91E-03
ENSG00000133226	<i>SRRM1</i>	-0,64	1,35E-13	-0,25	7,00E-03
ENSG00000114982	<i>KIAA1310</i>	-0,26	6,51E-03	-0,26	7,07E-03
ENSG00000155130	<i>MARCKS</i>	-0,91	1,45E-33	-0,22	7,08E-03
ENSG00000145860	<i>RNF145</i>	-1,73	4,76E-19	-0,53	7,10E-03
ENSG00000119771	<i>KLHL29</i>	-1,25	5,94E-16	-0,43	7,20E-03
ENSG00000136527	<i>TRA2B</i>	-0,37	3,62E-07	-0,21	7,28E-03
ENSG00000182979	<i>MTA1</i>	-0,50	4,17E-06	-0,30	7,33E-03
ENSG00000129187	<i>DCTD</i>	-0,70	3,15E-09	-0,33	7,37E-03
ENSG00000100162	<i>CENPM</i>	-0,59	6,62E-05	-0,41	7,51E-03
ENSG00000100065	<i>CARD10</i>	-0,34	1,20E-03	-0,28	7,71E-03

ENSG00000130695	<i>CCDC21</i>	-0,33	7,81E-03	-0,33	7,76E-03
ENSG00000187051	<i>RPS19BP1</i>	-0,68	1,43E-07	-0,36	7,87E-03
ENSG00000128512	<i>DOCK4</i>	-0,37	1,88E-04	-0,28	7,91E-03
ENSG00000138629	<i>UBL7</i>	-0,42	1,16E-04	-0,30	7,97E-03
ENSG00000108298	<i>RPL19</i>	-0,42	1,73E-11	-0,18	7,99E-03
ENSG00000224531	<i>SMIM13</i>	-0,37	6,82E-04	-0,30	8,07E-03
ENSG00000163155	<i>LYSMD1</i>	-1,48	1,22E-15	-0,50	8,17E-03
ENSG00000115875	<i>SFRS7</i>	-0,45	3,40E-08	-0,23	8,47E-03
ENSG00000156697	<i>UTP14A</i>	-0,75	3,16E-08	-0,38	8,49E-03
ENSG00000141668	<i>CBLN2</i>	-1,37	2,98E-07	-0,72	8,50E-03
ENSG00000186416	<i>NKRF</i>	-0,90	1,23E-08	-0,43	8,70E-03
ENSG00000166068	<i>SPRED1</i>	-0,55	2,25E-04	-0,40	8,70E-03
ENSG00000163507	<i>KIAA1524</i>	-0,35	2,52E-03	-0,30	8,76E-03
ENSG00000081154	<i>PCNP</i>	-1,47	4,06E-49	-0,28	8,83E-03
ENSG00000142528	<i>ZNF473</i>	-1,12	1,73E-14	-0,40	8,84E-03
ENSG00000132031	<i>MATN3</i>	-0,68	9,04E-07	-0,38	8,92E-03
ENSG00000173950	<i>C3ORF21</i>	-0,82	2,68E-08	-0,40	8,95E-03
ENSG00000164362	<i>TERT</i>	-0,94	8,08E-05	-0,64	9,10E-03
ENSG00000168758	<i>SEMA4C</i>	-0,54	1,70E-06	-0,31	9,26E-03
ENSG00000173598	<i>NUDT4</i>	-0,57	1,46E-10	-0,25	9,28E-03
ENSG00000129128	<i>SPCS3</i>	-1,31	4,11E-36	-0,30	9,30E-03
ENSG00000159140	<i>SON</i>	-0,53	9,31E-14	-0,20	9,36E-03
ENSG00000168615	<i>ADAM9</i>	-0,52	2,60E-11	-0,22	9,44E-03
ENSG0000013275	<i>LOC652826</i>	-0,36	1,57E-04	-0,26	9,46E-03
ENSG00000137876	<i>RSL24D1</i>	-0,91	1,88E-23	-0,25	9,71E-03
ENSG00000185269	<i>NOTUM</i>	-1,75	3,75E-10	-0,73	9,73E-03
ENSG00000138823	<i>MTTP</i>	2,10	5,03E-134	1,98	5,93E-120
ENSG00000165092	<i>ALDH1A1</i>	0,34	3,31E-09	1,19	9,32E-107
ENSG00000167244	<i>IGF2</i>	0,22	9,42E-04	1,18	2,48E-83
ENSG00000138449	<i>SLC40A1</i>	1,65	2,79E-125	1,25	6,35E-72
ENSG00000072210	<i>ALDH3A2</i>	1,00	5,68E-48	1,14	3,51E-62
ENSG00000115904	<i>SOS1</i>	0,58	1,57E-08	1,53	7,02E-58

ENSG00000081051	<i>AFP</i>	1,31	6,18E-56	1,31	6,28E-56
ENSG00000163536	<i>SERPINI1</i>	1,85	1,20E-60	1,77	7,09E-56
ENSG00000196937	<i>FAM3C</i>	1,47	1,76E-32	1,87	1,02E-53
ENSG00000134717	<i>BTF3L4</i>	1,38	1,93E-32	1,75	2,23E-53
ENSG00000023839	<i>ABCC2</i>	0,96	8,17E-30	1,22	1,76E-48
ENSG00000135318	<i>NT5E</i>	1,15	2,19E-15	1,99	1,80E-46
ENSG00000106853	<i>PTGR1</i>	2,80	1,79E-121	1,72	1,74E-44
ENSG00000178988	<i>MRFAP1L1</i>	0,59	8,24E-08	1,38	6,49E-42
ENSG00000142484	<i>TM4SF5</i>	0,96	9,83E-23	1,29	8,43E-41
ENSG00000162409	<i>PRKAA2</i>	0,87	4,37E-18	1,29	4,55E-40
ENSG00000117528	<i>ABCD3</i>	0,94	8,11E-24	1,21	2,13E-39
ENSG00000135046	<i>ANXA1</i>	1,02	1,06E-09	2,04	2,79E-38
ENSG00000104325	<i>DEC1</i>	0,82	3,35E-19	1,15	3,86E-38
ENSG00000067057	<i>PFKP</i>	0,81	7,04E-11	1,50	1,60E-37
ENSG00000162817	<i>C1ORF115</i>	1,27	8,72E-37	1,25	6,64E-36
ENSG00000070061	<i>IKBKAP</i>	0,33	1,97E-04	1,03	1,17E-35
ENSG00000121057	<i>AKAP1</i>	1,16	4,30E-51	0,96	9,29E-35
ENSG00000152601	<i>MBNL1</i>	0,90	2,25E-22	1,10	2,84E-33
ENSG00000148834	<i>GSTO1</i>	0,37	2,22E-06	0,89	3,19E-33
ENSG00000163492	<i>CCDC141</i>	0,40	9,68E-03	1,59	2,20E-32
ENSG00000123124	<i>WWP1</i>	0,85	9,09E-19	1,11	4,15E-32
ENSG00000181019	<i>NQO1</i>	0,91	1,02E-27	0,97	1,48E-31
ENSG00000116209	<i>TMEM59</i>	0,41	1,85E-06	0,92	3,17E-30
ENSG00000112078	<i>KCTD20</i>	0,66	9,06E-15	0,93	1,87E-29
ENSG00000151632	<i>AKR1C2</i>	1,61	4,41E-49	1,24	3,26E-29
ENSG00000100292	<i>HMOX1</i>	2,17	3,81E-96	1,18	9,06E-28
ENSG00000165526	<i>RPUSD4</i>	0,77	1,62E-07	1,50	2,13E-27
ENSG00000196975	<i>ANXA4</i>	0,61	7,27E-12	0,94	5,87E-27
ENSG00000168385	<i>SEPT2</i>	0,68	7,98E-27	0,68	9,82E-27
ENSG00000139112	<i>GABARAPL1</i>	0,95	1,50E-16	1,20	2,32E-26
ENSG00000107104	<i>KANK1</i>	0,84	1,47E-17	1,02	5,82E-26
ENSG00000151090	<i>THRβ</i>	1,10	2,92E-30	1,01	9,02E-26

ENSG00000186106	<i>ANKRD46</i>	0,97	2,62E-15	1,26	1,05E-25
ENSG00000197410	<i>DCHS2</i>	0,51	6,65E-03	1,70	2,21E-25
ENSG00000155760	<i>FZD7</i>	1,28	8,02E-15	1,66	3,46E-25
ENSG00000111269	<i>CREBL2</i>	0,86	1,51E-07	1,60	4,19E-25
ENSG00000130208	<i>APOC1</i>	0,81	9,51E-25	0,82	4,55E-25
ENSG00000111897	<i>SERINC1</i>	0,42	4,99E-09	0,71	1,39E-24
ENSG00000127324	<i>TSPAN8</i>	1,29	2,70E-21	1,38	1,61E-24
ENSG00000150593	<i>PDCD4</i>	0,42	4,39E-04	1,10	1,25E-23
ENSG00000244187	<i>TMEM141</i>	0,48	3,65E-06	0,98	1,51E-23
ENSG00000163586	<i>FABP1</i>	2,33	3,66E-96	1,14	7,29E-23
ENSG00000143164	<i>DCAF6</i>	0,37	6,02E-06	0,75	1,42E-22
ENSG00000197535	<i>MYO5A</i>	0,83	1,60E-08	1,35	5,23E-22
ENSG00000118137	<i>APOA1</i>	1,13	1,18E-42	0,80	7,72E-22
ENSG00000174358	<i>SLC6A19</i>	2,17	8,98E-34	1,74	1,96E-21
ENSG00000119471	<i>HSDL2</i>	0,35	1,97E-04	0,83	2,01E-21
ENSG00000171560	<i>FGA</i>	0,71	6,91E-14	0,89	2,99E-21
ENSG00000026950	<i>BTN3A1</i>	0,44	8,31E-04	1,12	3,02E-21
ENSG00000130779	<i>CLIP1</i>	0,53	7,40E-09	0,84	4,62E-21
ENSG00000111058	<i>ACSS3</i>	0,58	2,05E-08	0,93	1,21E-20
ENSG00000072364	<i>AFF4</i>	0,75	2,60E-23	0,71	1,56E-20
ENSG00000198420	<i>FAM115A</i>	0,40	2,87E-06	0,75	1,57E-20
ENSG00000140465	<i>CYP1A1</i>	1,39	1,49E-47	0,90	2,60E-20
ENSG00000131242	<i>RAB11FIP4</i>	0,72	8,94E-15	0,84	3,42E-20
ENSG00000149742	<i>SLC22A9</i>	0,96	7,65E-12	1,26	5,55E-20
ENSG00000134283	<i>PPHLN1</i>	0,75	1,14E-23	0,68	1,13E-19
ENSG00000118271	<i>TTR</i>	2,05	1,06E-113	0,86	1,42E-19
ENSG00000115652	<i>UXS1</i>	0,27	2,76E-04	0,63	1,51E-19
ENSG00000126218	<i>F10</i>	1,15	1,72E-33	0,87	1,85E-19
ENSG00000106052	<i>TAX1BP1</i>	0,39	2,18E-06	0,72	2,21E-19
ENSG00000099937	<i>SERPIND1</i>	0,67	5,58E-11	0,91	2,45E-19
ENSG00000174684	<i>B3GNT1</i>	0,64	9,50E-15	0,74	2,84E-19
ENSG00000113905	<i>HRG</i>	1,90	1,10E-20	1,83	3,11E-19

ENSG00000188488	SERPINA5	0,84	1,96E-08	1,31	3,33E-19
ENSG00000087502	ERGIC2	0,87	6,18E-13	1,06	3,84E-19
ENSG00000071127	WDR1	0,35	4,33E-07	0,60	5,69E-19
ENSG00000132824	SERINC3	0,21	7,93E-03	0,64	6,12E-19
ENSG00000163631	ALB	0,97	2,04E-34	0,71	6,87E-19
ENSG00000139344	AMDHD1	0,76	8,47E-07	1,29	8,50E-19
ENSG00000166311	SMPD1	1,03	2,64E-21	0,96	1,50E-18
ENSG00000108828	VAT1	0,79	3,14E-26	0,66	2,51E-18
ENSG00000133131	MORC4	0,58	6,87E-08	0,91	3,89E-18
ENSG00000163624	CDS1	2,26	1,34E-36	1,60	4,39E-18
ENSG00000119125	GDA	1,18	4,34E-15	1,29	4,78E-18
ENSG00000164124	TMEM144	1,25	1,72E-18	1,22	8,99E-18
ENSG00000106927	AMBP	0,88	1,43E-53	0,50	1,02E-17
ENSG00000004897	CDC27	0,53	1,90E-10	0,70	1,18E-17
ENSG00000165801	FLJ10357	0,69	5,93E-08	1,04	2,33E-17
ENSG00000106351	AGFG2	0,64	9,34E-10	0,86	4,03E-17
ENSG00000121578	B4GALT4	0,43	7,40E-04	0,98	6,56E-17
ENSG00000243147	MRPL33	0,66	1,71E-05	1,21	7,04E-17
ENSG00000150991	UBC	0,34	8,88E-06	0,62	7,49E-17
ENSG00000088386	SLC15A1	1,17	2,88E-14	1,27	7,59E-17
ENSG00000125629	INSIG2	1,06	2,42E-23	0,90	9,61E-17
ENSG00000204439	C6ORF47	0,60	1,06E-03	1,39	1,18E-16
ENSG00000013583	HEBP1	1,58	1,18E-26	1,24	1,42E-16
ENSG00000111452	GPR133	1,75	3,81E-29	1,31	1,99E-16
ENSG00000143622	RIT1	0,68	8,08E-08	1,00	1,99E-16
ENSG00000004961	HCCS	0,66	3,31E-06	1,11	2,29E-16
ENSG00000039068	CDH1	1,29	6,53E-36	0,87	3,60E-16
ENSG00000112893	MAN2A1	1,11	1,35E-35	0,74	5,14E-16
ENSG00000234127	TRIM26	0,53	1,76E-09	0,69	6,47E-16
ENSG00000142166	IFNAR1	0,61	2,84E-12	0,70	7,99E-16
ENSG00000106789	CORO2A	0,98	2,27E-19	0,88	9,79E-16
ENSG00000165943	MOAP1	0,51	2,41E-04	1,04	1,04E-15

ENSG00000143819	<i>EPHX1</i>	1,28	1,38E-40	0,79	1,24E-15
ENSG00000166035	<i>LIPC</i>	0,83	2,82E-12	0,94	1,86E-15
ENSG00000116977	<i>LGALS8</i>	0,58	2,77E-08	0,81	2,09E-15
ENSG00000149212	<i>SESN3</i>	1,06	3,90E-20	0,91	3,39E-15
ENSG00000196502	<i>SULT1A1</i>	0,80	1,47E-08	1,08	3,40E-15
ENSG00000120697	<i>ALG5</i>	0,92	4,30E-09	1,19	3,47E-15
ENSG00000130005	<i>GAMT</i>	1,01	8,48E-22	0,84	3,66E-15
ENSG00000128335	<i>APOL2</i>	1,22	1,44E-22	0,99	3,88E-15
ENSG00000153066	<i>TXND11</i>	0,99	2,54E-21	0,83	4,28E-15
ENSG00000182919	<i>C11ORF54</i>	0,53	3,87E-05	0,95	4,63E-15
ENSG00000074527	<i>NTN4</i>	0,65	2,69E-04	1,30	4,73E-15
ENSG00000120948	<i>TARDBP</i>	0,21	9,33E-03	0,57	5,29E-15
ENSG00000155640	<i>C100RF12</i>	0,83	2,80E-06	1,32	6,03E-15
ENSG00000146233	<i>CYP39A1</i>	1,00	1,07E-05	1,68	6,21E-15
ENSG00000174238	<i>PITPNA</i>	0,61	3,73E-09	0,79	6,31E-15
ENSG00000204525	<i>HLA-B</i>	0,92	3,65E-22	0,75	1,05E-14
ENSG00000006576	<i>PHTF2</i>	0,65	1,98E-13	0,69	1,18E-14
ENSG00000145217	<i>SLC26A1</i>	1,14	2,19E-15	1,11	1,21E-14
ENSG00000170522	<i>ELOVL6</i>	0,60	5,04E-07	0,89	1,42E-14
ENSG00000132437	<i>DDC</i>	1,83	4,35E-28	1,32	1,45E-14
ENSG00000072778	<i>ACADVL</i>	0,42	1,07E-06	0,65	1,45E-14
ENSG00000153214	<i>TMEM87B</i>	0,57	5,21E-07	0,85	1,63E-14
ENSG00000135378	<i>PRRG4</i>	2,09	2,02E-29	1,46	2,11E-14
ENSG00000111052	<i>LIN7A</i>	0,75	7,53E-16	0,71	3,33E-14
ENSG00000128311	<i>TST</i>	0,82	1,05E-11	0,90	4,32E-14
ENSG00000172239	<i>LOC645139</i>	0,71	1,27E-13	0,72	4,91E-14
ENSG00000173193	<i>PARP14</i>	0,98	6,67E-20	0,81	6,40E-14
ENSG00000100612	<i>DHRS7</i>	1,10	1,64E-27	0,77	1,01E-13
ENSG00000234745	<i>HLA-B</i>	0,62	2,98E-08	0,82	1,02E-13
ENSG00000124120	<i>TTPAL</i>	0,42	2,99E-04	0,82	1,03E-13
ENSG00000180198	<i>RCC1</i>	0,40	1,69E-05	0,67	1,58E-13
ENSG00000006611	<i>USH1C</i>	1,41	4,57E-11	1,56	1,82E-13

ENSG00000121380	<i>BCL2L14</i>	0,69	8,93E-03	1,72	1,94E-13
ENSG00000204128	<i>C2ORF72</i>	0,85	1,55E-20	0,68	1,98E-13
ENSG00000106780	<i>MEGF9</i>	0,60	6,53E-10	0,70	2,10E-13
ENSG00000088340	<i>FER1L4</i>	1,77	4,20E-10	2,04	2,45E-13
ENSG00000106538	<i>RARRES2</i>	1,02	6,84E-16	0,94	2,45E-13
ENSG00000029364	<i>SLC39A9</i>	0,61	2,06E-13	0,61	2,73E-13
ENSG00000166483	<i>WEE1</i>	0,46	5,35E-07	0,64	3,09E-13
ENSG00000110169	<i>HPX</i>	1,87	1,92E-88	0,72	3,49E-13
ENSG00000005469	<i>CROT</i>	1,49	4,87E-38	0,87	4,47E-13
ENSG00000121741	<i>ZMYM2</i>	0,27	2,81E-03	0,60	7,05E-13
ENSG00000206503	<i>HLA-A</i>	0,87	3,53E-24	0,63	7,15E-13
ENSG00000111358	<i>GTF2H3</i>	0,35	2,95E-03	0,77	7,70E-13
ENSG00000133135	<i>RNF128</i>	0,96	5,87E-15	0,88	8,03E-13
ENSG00000214530	<i>STARD10</i>	0,95	4,81E-16	0,85	9,29E-13
ENSG00000135744	<i>AGT</i>	0,51	7,22E-09	0,63	1,05E-12
ENSG00000064687	<i>ABCA7</i>	1,30	1,83E-19	1,04	1,19E-12
ENSG00000104371	<i>DKK4</i>	1,94	4,90E-08	2,48	1,32E-12
ENSG00000256162	<i>SMLR1</i>	0,81	5,06E-06	1,21	1,44E-12
ENSG00000164506	<i>STXBP5</i>	0,61	9,83E-06	0,93	1,78E-12
ENSG00000197324	<i>LRP10</i>	0,71	1,50E-17	0,59	2,10E-12
ENSG00000145476	<i>CYP4V2</i>	1,28	1,71E-20	0,99	2,14E-12
ENSG00000169439	<i>SDC2</i>	0,52	1,51E-13	0,49	2,55E-12
ENSG00000196083	<i>IL1RAP</i>	1,28	1,33E-50	0,62	3,14E-12
ENSG00000160145	<i>KALRN</i>	0,61	8,19E-03	1,44	3,38E-12
ENSG00000170445	<i>HARS</i>	0,40	4,09E-04	0,75	3,42E-12
ENSG00000152556	<i>PFKM</i>	0,65	1,20E-04	1,11	3,99E-12
ENSG00000143278	<i>F13B</i>	1,17	7,61E-07	1,58	5,52E-12
ENSG00000109193	<i>SULT1E1</i>	0,85	6,93E-04	1,60	7,03E-12
ENSG00000113924	<i>HGD</i>	0,71	2,46E-14	0,63	1,06E-11
ENSG00000182327	<i>GLTPD2</i>	0,40	7,95E-03	0,94	1,06E-11
ENSG00000019582	<i>CD74</i>	0,97	2,00E-11	0,99	1,09E-11
ENSG00000135617	<i>C2ORF7</i>	0,99	2,75E-13	0,92	1,15E-11

ENSG00000158109	<i>TPRG1L</i>	0,78	7,23E-13	0,74	1,18E-11
ENSG00000198964	<i>SGMS1</i>	1,33	1,17E-32	0,79	1,22E-11
ENSG00000153130	<i>SCOC</i>	0,80	5,87E-14	0,73	1,42E-11
ENSG00000122870	<i>BICC1</i>	0,78	1,04E-20	0,57	1,78E-11
ENSG00000177628	<i>GBA</i>	0,67	2,27E-12	0,64	2,08E-11
ENSG00000116906	<i>GNPAT</i>	0,31	5,46E-04	0,56	2,73E-11
ENSG00000068308	<i>OTUD5</i>	0,55	5,78E-06	0,78	2,84E-11
ENSG00000140612	<i>SEC11A</i>	0,80	2,37E-20	0,59	2,86E-11
ENSG00000140391	<i>TSPAN3</i>	0,27	5,06E-04	0,49	3,47E-11
ENSG00000182718	<i>ANXA2</i>	0,25	3,38E-04	0,45	4,21E-11
ENSG00000108950	<i>FAM20A</i>	1,62	2,52E-11	1,60	4,25E-11
ENSG00000141034	<i>C17ORF39</i>	1,14	3,17E-10	1,19	4,41E-11
ENSG00000164342	<i>TLR3</i>	0,96	1,35E-04	1,57	4,98E-11
ENSG00000091129	<i>NRCAM</i>	0,63	2,17E-06	0,85	5,00E-11
ENSG00000092841	<i>MYL6</i>	0,46	3,82E-08	0,54	6,00E-11
ENSG00000144118	<i>RALB</i>	0,68	1,11E-09	0,73	6,36E-11
ENSG00000177697	<i>CD151</i>	0,78	1,47E-15	0,64	7,42E-11
ENSG00000163516	<i>ANKZF1</i>	0,43	3,90E-03	0,90	7,71E-11
ENSG00000130988	<i>RGN</i>	1,69	8,60E-23	1,16	8,86E-11
ENSG00000105135	<i>ILVBL</i>	0,50	6,62E-07	0,64	9,61E-11
ENSG00000197885	<i>NKIRAS1</i>	0,98	8,67E-08	1,16	1,12E-10
ENSG00000113583	<i>C5ORF15</i>	0,76	1,35E-10	0,76	1,45E-10
ENSG00000112304	<i>ACOT13</i>	0,47	2,38E-06	0,62	1,58E-10
ENSG00000187134	<i>AKR1C1</i>	1,02	3,57E-24	0,66	1,75E-10
ENSG00000113494	<i>PRLR</i>	0,90	1,21E-08	1,00	1,79E-10
ENSG00000183020	<i>AP2A2</i>	0,33	6,96E-04	0,59	1,84E-10
ENSG00000125148	<i>MT2A</i>	1,17	5,66E-19	0,86	2,00E-10
ENSG00000116678	<i>LEPR</i>	0,71	3,32E-07	0,86	2,05E-10
ENSG00000197956	<i>S100A6</i>	1,40	7,19E-36	0,74	2,06E-10
ENSG00000110171	<i>TRIM3</i>	1,75	5,77E-29	1,04	2,10E-10
ENSG00000103034	<i>NDRG4</i>	1,68	1,07E-24	1,08	2,23E-10
ENSG00000162341	<i>TPCN2</i>	0,33	9,15E-03	0,74	2,35E-10

ENSG00000178537	<i>SLC25A20</i>	1,17	2,61E-21	0,81	2,48E-10
ENSG00000197780	<i>TAF13</i>	0,58	3,89E-06	0,77	2,67E-10
ENSG00000145703	<i>IQGAP2</i>	0,56	1,55E-07	0,66	3,46E-10
ENSG00000118515	<i>SGK1</i>	1,03	2,90E-16	0,81	3,74E-10
ENSG00000100234	<i>TIMP3</i>	0,42	2,80E-03	0,82	4,32E-10
ENSG00000130958	<i>SLC35D2</i>	0,25	6,00E-03	0,52	4,32E-10
ENSG00000165775	<i>FUNDC2</i>	0,98	4,30E-22	0,65	4,57E-10
ENSG00000065833	<i>ME1</i>	0,86	7,06E-24	0,55	5,97E-10
ENSG00000012822	<i>CALCOCO1</i>	1,04	3,53E-10	1,03	6,35E-10
ENSG00000076321	<i>KLHL20</i>	0,85	8,15E-11	0,81	6,65E-10
ENSG00000148218	<i>ALAD</i>	1,10	1,40E-25	0,67	8,93E-10
ENSG00000118418	<i>HMGN3</i>	0,28	1,95E-03	0,52	1,24E-09
ENSG00000108846	<i>ABCC3</i>	0,43	5,28E-04	0,72	1,52E-09
ENSG00000095383	<i>TBC1D2</i>	1,39	2,53E-10	1,33	1,54E-09
ENSG00000075945	<i>KIFAP3</i>	0,89	2,13E-14	0,71	1,66E-09
ENSG00000050165	<i>DKK3</i>	1,02	9,74E-14	0,84	1,66E-09
ENSG00000104044	<i>OCA2</i>	1,26	2,97E-10	1,21	1,73E-09
ENSG00000170873	<i>MTSS1</i>	0,80	3,97E-08	0,87	1,99E-09
ENSG00000142156	<i>COL6A1</i>	1,06	4,21E-13	0,89	2,05E-09
ENSG00000055211	<i>C6ORF72</i>	0,87	5,35E-09	0,89	2,15E-09
ENSG00000111110	<i>PPM1H</i>	0,66	1,00E-07	0,73	2,15E-09
ENSG0000006327	<i>TNFRSF12A</i>	0,48	3,84E-07	0,56	2,55E-09
ENSG00000198074	<i>AKR1B10</i>	1,03	1,66E-06	1,25	3,40E-09
ENSG00000151690	<i>MFSD6</i>	0,77	1,03E-10	0,70	3,64E-09
ENSG00000129566	<i>TEP1</i>	0,40	1,58E-03	0,70	4,02E-09
ENSG00000111801	<i>BTN3A3</i>	0,55	2,02E-03	0,98	4,15E-09
ENSG00000148702	<i>HABP2</i>	1,80	5,46E-25	1,07	4,16E-09
ENSG00000130598	<i>TNNI2</i>	1,55	6,76E-07	1,78	6,73E-09
ENSG00000204634	<i>TBC1D8</i>	0,40	1,60E-04	0,59	6,79E-09
ENSG00000128591	<i>FLNC</i>	1,19	3,66E-53	0,47	6,89E-09
ENSG00000142227	<i>EMP3</i>	1,03	1,91E-06	1,23	6,96E-09
ENSG00000063854	<i>HAGH</i>	0,63	1,06E-04	0,90	7,48E-09

ENSG00000139641	<i>ESYT1</i>	0,33	1,31E-04	0,49	7,63E-09
ENSG00000178074	<i>C2ORF69</i>	0,76	8,08E-08	0,81	7,84E-09
ENSG00000136935	<i>GOLGA1</i>	0,63	1,46E-07	0,68	7,87E-09
ENSG00000204308	<i>RNF5</i>	0,36	1,56E-04	0,52	8,36E-09
ENSG00000197448	<i>GSTK1</i>	0,88	2,49E-15	0,66	9,32E-09
ENSG00000106823	<i>ECM2</i>	1,89	2,70E-08	1,94	1,07E-08
ENSG00000175854	<i>C9ORF119</i>	0,74	1,57E-07	0,80	1,20E-08
ENSG00000163072	<i>NOSTRIN</i>	0,68	3,46E-06	0,82	1,25E-08
ENSG00000102024	<i>PLS3</i>	0,68	5,04E-17	0,47	1,31E-08
ENSG00000198246	<i>SLC29A3</i>	0,39	2,65E-03	0,70	1,33E-08
ENSG00000132329	<i>RAMP1</i>	2,76	1,48E-30	1,46	1,36E-08
ENSG00000119638	<i>NEK9</i>	0,48	4,72E-08	0,50	1,51E-08
ENSG00000163644	<i>PPM1K</i>	0,66	3,31E-03	1,18	1,58E-08
ENSG00000131941	<i>RHPN2</i>	0,58	7,30E-06	0,72	1,64E-08
ENSG00000137171	<i>KLC4</i>	1,14	1,28E-13	0,89	1,66E-08
ENSG00000136068	<i>FLNB</i>	0,44	4,09E-10	0,40	1,75E-08
ENSG00000152056	<i>AP1S3</i>	0,84	2,15E-10	0,75	1,81E-08
ENSG00000110628	<i>SLC22A18</i>	2,00	7,51E-33	1,00	1,90E-08
ENSG00000018236	<i>CNTN1</i>	0,85	3,11E-03	1,50	1,90E-08
ENSG00000154229	<i>PRKCA</i>	0,52	8,28E-08	0,54	2,01E-08
ENSG00000101076	<i>HNF4A</i>	0,30	2,71E-04	0,44	2,01E-08
ENSG00000138207	<i>RBP4</i>	0,70	1,05E-19	0,44	2,02E-08
ENSG00000112818	<i>MEP1A</i>	2,52	3,71E-84	0,79	2,25E-08
ENSG00000186470	<i>BTN3A2</i>	0,62	9,08E-07	0,69	2,42E-08
ENSG00000181274	<i>FRAT2</i>	1,33	4,24E-23	0,78	2,60E-08
ENSG00000172070	<i>SRXN1</i>	1,75	3,04E-21	1,08	2,73E-08
ENSG00000196116	<i>TDRD7</i>	0,53	4,92E-05	0,70	2,73E-08
ENSG00000160870	<i>CYP3A7</i>	1,81	1,76E-11	1,52	2,74E-08
ENSG00000213759	<i>UGT2B11</i>	3,80	1,81E-101	1,10	3,17E-08
ENSG00000134962	<i>KLB</i>	0,45	6,21E-09	0,44	3,35E-08
ENSG00000116675	<i>DNAJC6</i>	1,61	4,04E-09	1,52	3,42E-08
ENSG00000167123	<i>CERCAM</i>	0,92	3,85E-08	0,92	4,47E-08

ENSG00000109854	<i>HTATIP2</i>	0,66	9,89E-13	0,52	4,84E-08
ENSG00000163050	<i>CABC1</i>	0,48	1,32E-05	0,58	5,79E-08
ENSG00000135404	<i>CD63</i>	0,41	1,20E-08	0,40	6,09E-08
ENSG00000136810	<i>TXN</i>	0,29	1,90E-03	0,48	6,57E-08
ENSG00000135916	<i>ITM2C</i>	0,46	2,16E-06	0,53	6,72E-08
ENSG00000161011	<i>SQSTM1</i>	1,09	1,49E-63	0,37	7,04E-08
ENSG00000167601	<i>AXL</i>	1,49	7,22E-07	1,61	7,53E-08
ENSG00000142494	<i>SLC47A1</i>	0,51	1,47E-04	0,70	7,58E-08
ENSG00000151135	<i>C12ORF23</i>	0,33	6,79E-04	0,51	9,03E-08
ENSG00000077254	<i>USP33</i>	0,60	1,38E-06	0,66	9,05E-08
ENSG00000159348	<i>CYB5R1</i>	0,85	1,19E-16	0,57	9,55E-08
ENSG00000213465	<i>ARL2</i>	0,77	6,26E-11	0,64	1,02E-07
ENSG00000196372	<i>ASB13</i>	0,67	1,33E-05	0,80	1,02E-07
ENSG00000250722	<i>SEPP1</i>	0,60	2,48E-11	0,49	1,05E-07
ENSG00000163975	<i>MFI2</i>	1,48	2,17E-28	0,75	1,05E-07
ENSG00000187546	<i>TMEM195</i>	0,58	2,23E-07	0,60	1,10E-07
ENSG00000160551	<i>TAOK1</i>	0,44	7,09E-08	0,44	1,11E-07
ENSG00000106868	<i>SUSD1</i>	0,38	6,52E-03	0,69	1,17E-07
ENSG00000032444	<i>PNPLA6</i>	0,46	1,03E-04	0,60	1,32E-07
ENSG00000185813	<i>PCYT2</i>	0,24	9,68E-03	0,45	1,56E-07
ENSG00000120860	<i>CCDC53</i>	0,99	1,09E-06	1,06	1,57E-07
ENSG00000171714	<i>ANO5</i>	0,56	2,78E-04	0,77	1,62E-07
ENSG00000113597	<i>C50RF44</i>	0,51	9,54E-04	0,77	1,62E-07
ENSG00000104812	<i>GYS1</i>	0,38	1,50E-03	0,60	1,71E-07
ENSG00000143434	<i>SEMA6C</i>	1,01	8,34E-07	1,07	1,73E-07
ENSG00000174749	<i>C40RF32</i>	0,83	2,10E-05	1,00	1,78E-07
ENSG00000042445	<i>RETSAT</i>	1,00	2,55E-18	0,62	1,81E-07
ENSG00000157613	<i>CREB3L1</i>	1,00	3,30E-06	1,10	1,98E-07
ENSG00000132581	<i>SDF2</i>	0,34	1,35E-03	0,53	2,12E-07
ENSG00000185787	<i>MORF4</i>	0,35	1,17E-07	0,35	2,14E-07
ENSG00000112308	<i>C60RF62</i>	0,29	3,52E-04	0,41	2,37E-07
ENSG00000105852	<i>PON3</i>	0,50	1,84E-03	0,78	2,51E-07

ENSG00000189171	<i>S100A13</i>	0,72	5,89E-10	0,61	2,91E-07
ENSG00000002586	<i>CD99</i>	0,68	9,53E-08	0,66	3,19E-07
ENSG00000139324	<i>TMTc3</i>	0,89	1,57E-16	0,57	3,37E-07
ENSG00000140961	<i>OSGIN1</i>	1,62	1,15E-28	0,80	3,37E-07
ENSG00000172296	<i>SPTLC3</i>	1,08	3,88E-05	1,31	3,64E-07
ENSG00000104765	<i>BNIP3L</i>	0,43	7,76E-04	0,62	3,87E-07
ENSG00000146904	<i>EPHA1</i>	1,77	1,88E-19	1,05	3,93E-07
ENSG00000107854	<i>TNKS2</i>	0,57	4,31E-10	0,47	4,01E-07
ENSG00000170456	<i>DENN5B</i>	0,40	1,59E-03	0,62	4,01E-07
ENSG00000084754	<i>HADHA</i>	0,23	3,12E-03	0,38	4,38E-07
ENSG00000095321	<i>CRAT</i>	0,69	3,56E-08	0,64	4,46E-07
ENSG00000143158	<i>BRP44</i>	0,50	6,26E-11	0,39	4,73E-07
ENSG00000143198	<i>MGST3</i>	0,89	4,50E-16	0,57	4,88E-07
ENSG00000177565	<i>TBL1XR1</i>	1,27	1,96E-64	0,40	5,97E-07
ENSG00000117984	<i>CTSD</i>	0,84	8,01E-20	0,48	6,10E-07
ENSG00000147257	<i>GPC3</i>	0,69	5,05E-23	0,37	6,46E-07
ENSG00000122786	<i>CALD1</i>	0,45	3,10E-07	0,44	6,56E-07
ENSG00000205213	<i>LGR4</i>	0,46	1,05E-09	0,38	6,64E-07
ENSG00000189180	<i>ZNF33A</i>	0,65	2,19E-06	0,68	6,93E-07
ENSG00000120885	<i>CLU</i>	1,16	3,69E-58	0,38	7,82E-07
ENSG00000133943	<i>C14ORF159</i>	1,39	9,30E-11	1,09	8,03E-07
ENSG00000151893	<i>C100RF46</i>	0,58	2,94E-07	0,56	8,13E-07
ENSG00000076555	<i>ACACB</i>	1,07	2,14E-09	0,90	8,14E-07
ENSG00000166387	<i>PPFIBP2</i>	0,43	5,11E-03	0,71	8,14E-07
ENSG00000113790	<i>EHHADH</i>	1,04	1,22E-17	0,62	8,77E-07
ENSG00000175470	<i>PPP2R2D</i>	0,64	8,87E-05	0,78	8,93E-07
ENSG00000112378	<i>PERP</i>	0,45	9,65E-10	0,37	9,16E-07
ENSG00000125967	<i>NECAB3</i>	0,71	6,78E-08	0,65	9,29E-07
ENSG00000158516	<i>CPA2</i>	2,44	1,13E-28	1,16	9,73E-07
ENSG00000099139	<i>PCSK5</i>	0,93	1,57E-16	0,57	9,81E-07
ENSG00000114812	<i>VIPR1</i>	1,30	3,97E-04	1,75	1,00E-06
ENSG00000171105	<i>INSR</i>	0,49	1,12E-08	0,43	1,00E-06

ENSG00000196693	ZNF33B	0,82	1,66E-06	0,83	1,10E-06
ENSG00000155366	RHOC	0,63	3,43E-08	0,57	1,13E-06
ENSG00000170899	GSTA4	1,01	1,53E-12	0,72	1,17E-06
ENSG00000167972	ABCA3	0,53	7,42E-05	0,64	1,22E-06
ENSG00000115425	PECR	0,58	4,13E-06	0,61	1,23E-06
ENSG00000160584	SIK3	0,43	5,07E-05	0,51	1,28E-06
ENSG00000150687	PRSS23	0,38	1,60E-05	0,42	1,29E-06
ENSG00000185339	TCN2	0,60	1,53E-03	0,88	1,32E-06
ENSG00000165813	C10ORF118	0,83	3,30E-08	0,73	1,33E-06
ENSG00000123146	CD97	0,69	9,63E-08	0,63	1,44E-06
ENSG00000101290	CDS2	1,14	2,78E-28	0,53	1,74E-06
ENSG00000116729	WLS	0,45	3,21E-04	0,58	1,83E-06
ENSG00000203697	CAPN8	2,29	4,62E-11	1,72	1,83E-06
ENSG00000184117	NIPSNAP1	0,37	1,72E-05	0,40	1,91E-06
ENSG00000197165	SULT1A2	0,94	2,15E-07	0,88	1,95E-06
ENSG00000102931	ARL2BP	1,74	3,67E-22	0,92	1,97E-06
ENSG00000204899	C13ORF37	1,13	1,11E-09	0,91	2,23E-06
ENSG00000115297	TLX2	1,13	5,25E-04	1,50	2,25E-06
ENSG00000183134	GPR44	1,24	3,50E-05	1,41	2,27E-06
ENSG00000099834	CDHR5	2,74	1,88E-64	0,84	2,29E-06
ENSG00000180667	YOD1	0,71	1,09E-14	0,45	2,56E-06
ENSG00000042286	AIFM2	0,64	3,31E-10	0,49	2,66E-06
ENSG00000185432	METTL7A	1,31	1,15E-26	0,61	2,76E-06
ENSG00000156521	TYSND1	0,54	2,78E-03	0,80	3,00E-06
ENSG00000058866	DGKG	1,23	2,26E-04	1,52	3,02E-06
ENSG00000204592	HLA-E	0,51	2,32E-08	0,44	3,04E-06
ENSG00000115839	RAB3GAP1	0,41	4,64E-07	0,39	3,05E-06
ENSG00000170412	GPRC5C	0,30	3,91E-03	0,46	3,07E-06
ENSG00000095209	TMEM38B	0,73	1,54E-08	0,61	3,26E-06
ENSG00000100934	SEC23A	0,26	2,78E-03	0,39	3,31E-06
ENSG00000164237	CMBL	1,29	1,69E-12	0,88	3,49E-06
ENSG00000130066	SAT1	0,53	1,13E-06	0,51	3,52E-06

ENSG00000079112	<i>CDH17</i>	2,24	1,01E-17	1,29	3,57E-06
ENSG00000110717	<i>NDUFS8</i>	0,31	9,73E-04	0,42	3,72E-06
ENSG00000106976	<i>DNM1</i>	1,51	5,91E-14	0,97	3,91E-06
ENSG00000081026	<i>MAGI3</i>	0,84	7,22E-13	0,56	4,03E-06
ENSG00000143545	<i>LOC100131294</i>	0,38	1,12E-03	0,52	4,08E-06
ENSG00000121848	<i>RNF115</i>	0,36	2,61E-05	0,40	4,13E-06
ENSG00000117280	<i>RAB7L1</i>	0,70	5,73E-12	0,49	4,28E-06
ENSG00000144566	<i>RAB5A</i>	0,42	4,28E-05	0,46	4,35E-06
ENSG00000131981	<i>LGALS3</i>	0,92	6,06E-09	0,74	4,66E-06
ENSG00000121858	<i>TNFSF10</i>	1,60	3,53E-09	1,27	4,94E-06
ENSG00000188186	<i>C7ORF59</i>	0,69	1,16E-06	0,65	5,07E-06
ENSG00000255468	<i>RP11-867G23.8</i>	1,11	6,39E-10	0,85	5,14E-06
ENSG00000177239	<i>MAN1B1</i>	0,66	7,39E-14	0,42	5,28E-06
ENSG00000088387	<i>DOCK9</i>	0,39	1,93E-03	0,55	5,29E-06
ENSG00000070404	<i>FSTL3</i>	1,23	1,71E-36	0,48	5,38E-06
ENSG00000138688	<i>KIAA1109</i>	0,78	1,62E-15	0,47	5,54E-06
ENSG00000139329	<i>LUM</i>	0,69	2,41E-12	0,46	6,02E-06
ENSG00000130751	<i>NPAS1</i>	1,33	3,96E-09	1,04	7,02E-06
ENSG00000154556	<i>SORBS2</i>	1,50	2,59E-21	0,76	7,10E-06
ENSG00000242612	<i>DECR2</i>	0,58	2,47E-05	0,62	7,46E-06
ENSG00000157502	<i>MUM1L1</i>	0,92	6,02E-08	0,78	7,95E-06
ENSG00000079689	<i>SCGN</i>	1,18	1,93E-06	1,11	7,97E-06
ENSG00000154518	<i>ATP5G3</i>	0,22	8,85E-03	0,35	8,31E-06
ENSG00000104419	<i>NDRG1</i>	2,21	4,08E-87	0,54	9,58E-06
ENSG00000154265	<i>ABCA5</i>	1,11	2,58E-19	0,58	9,68E-06
ENSG00000140297	<i>GCNT3</i>	2,49	1,16E-32	1,02	9,82E-06
ENSG00000094631	<i>HDAC6</i>	0,71	7,94E-09	0,56	9,93E-06
ENSG00000221963	<i>APOL6</i>	0,67	2,47E-03	0,93	1,03E-05
ENSG00000108788	<i>MLX</i>	0,41	3,20E-05	0,44	1,06E-05
ENSG00000138794	<i>CASP6</i>	0,69	3,30E-06	0,66	1,08E-05
ENSG00000099994	<i>SUSD2</i>	1,23	3,18E-08	1,00	1,09E-05
ENSG00000166450	<i>PRTG</i>	0,95	4,08E-06	0,91	1,09E-05

ENSG00000107537	<i>PHYH</i>	0,63	2,23E-07	0,54	1,12E-05
ENSG00000179222	<i>MAGED1</i>	0,38	1,84E-05	0,39	1,12E-05
ENSG00000172594	<i>SMPDL3A</i>	0,98	5,77E-11	0,68	1,34E-05
ENSG00000141574	<i>SECTM1</i>	1,55	8,73E-31	0,64	1,34E-05
ENSG00000110013	<i>SIAE</i>	0,99	2,06E-07	0,84	1,35E-05
ENSG0000014641	<i>MDH1</i>	0,26	1,19E-03	0,34	1,35E-05
ENSG00000174282	<i>ZBTB4</i>	1,05	7,07E-26	0,47	1,36E-05
ENSG00000198689	<i>SLC9A6</i>	1,00	1,36E-10	0,70	1,37E-05
ENSG00000143669	<i>LYST</i>	1,14	1,62E-18	0,60	1,38E-05
ENSG00000158769	<i>F11R</i>	0,60	1,18E-14	0,35	1,45E-05
ENSG00000111816	<i>FRK</i>	1,31	2,82E-20	0,66	1,46E-05
ENSG00000167113	<i>COQ4</i>	0,66	1,82E-04	0,75	1,72E-05
ENSG00000163293	<i>NIPAL1</i>	1,22	1,03E-12	0,77	1,72E-05
ENSG00000159322	<i>ADPGK</i>	0,31	5,10E-03	0,46	1,74E-05
ENSG00000198610	<i>AKR1C4</i>	0,88	2,72E-03	1,21	1,76E-05
ENSG00000151715	<i>TMEM45B</i>	0,73	3,44E-03	1,03	1,97E-05
ENSG00000137831	<i>UACA</i>	1,42	6,73E-41	0,49	2,06E-05
ENSG00000183856	<i>IQGAP3</i>	0,39	7,42E-05	0,42	2,10E-05
ENSG00000104889	<i>RNASEH2A</i>	0,57	9,57E-07	0,50	2,22E-05
ENSG00000119431	<i>HDHD3</i>	0,78	3,74E-08	0,62	2,30E-05
ENSG00000184076	<i>UQCR10</i>	0,36	1,69E-03	0,47	2,32E-05
ENSG00000134452	<i>FBXO18</i>	0,47	1,04E-04	0,50	2,39E-05
ENSG00000169372	<i>CRADD</i>	0,60	2,75E-03	0,81	2,42E-05
ENSG00000110066	<i>SUV420H1</i>	0,28	1,44E-03	0,37	2,43E-05
ENSG00000155324	<i>GRAMD3</i>	0,76	3,18E-04	0,88	2,47E-05
ENSG00000198270	<i>TMEM116</i>	0,96	6,09E-08	0,77	2,64E-05
ENSG00000103415	<i>HMOX2</i>	0,46	1,88E-03	0,60	2,71E-05
ENSG00000134049	<i>IER3IP1</i>	0,77	4,17E-03	1,07	2,71E-05
ENSG00000102753	<i>KPNA3</i>	0,62	1,70E-08	0,47	2,72E-05
ENSG00000166801	<i>FAM111A</i>	0,60	8,77E-07	0,52	2,75E-05
ENSG00000123636	<i>BAZ2B</i>	0,62	1,65E-06	0,55	2,81E-05
ENSG00000117226	<i>GBP3</i>	1,36	9,21E-05	1,46	2,81E-05

ENSG00000090013	<i>BLVRB</i>	0,47	1,63E-03	0,60	2,82E-05
ENSG0000006025	<i>OSBPL7</i>	1,67	1,82E-09	1,21	2,90E-05
ENSG00000139263	<i>LRIG3</i>	0,31	3,85E-03	0,42	2,91E-05
ENSG00000176720	<i>BOK</i>	0,36	6,92E-03	0,53	2,93E-05
ENSG00000187097	<i>ENTPD5</i>	0,86	5,88E-22	0,40	3,02E-05
ENSG00000131171	<i>SH3BGRL</i>	0,56	6,43E-05	0,58	3,16E-05
ENSG00000113966	<i>ARL6</i>	1,24	6,11E-05	1,29	3,20E-05
ENSG00000172869	<i>DMXL1</i>	0,79	2,73E-12	0,49	3,34E-05
ENSG00000165434	<i>PGM2L1</i>	1,43	1,53E-18	0,72	3,54E-05
ENSG00000073910	<i>FRY</i>	0,44	1,37E-03	0,55	3,57E-05
ENSG00000143653	<i>SCCPDH</i>	0,79	4,54E-17	0,41	3,68E-05
ENSG00000164938	<i>TP53INP1</i>	0,50	1,24E-07	0,40	3,78E-05
ENSG00000006831	<i>ADIPOR2</i>	0,55	8,30E-15	0,31	3,95E-05
ENSG00000166710	<i>B2M</i>	0,20	4,28E-03	0,27	4,17E-05
ENSG00000134590	<i>FAM127A</i>	0,50	5,55E-04	0,59	4,29E-05
ENSG00000115216	<i>NRBP1</i>	0,42	8,96E-06	0,39	4,32E-05
ENSG00000123595	<i>RAB9A</i>	0,77	2,63E-05	0,75	4,34E-05
ENSG00000182326	<i>C1S</i>	0,90	5,10E-16	0,48	4,40E-05
ENSG00000172955	<i>ADH6</i>	0,78	2,03E-04	0,85	4,48E-05
ENSG00000154065	<i>ANKRD29</i>	1,21	1,84E-10	0,81	4,51E-05
ENSG00000185664	<i>SILV</i>	0,82	4,14E-03	1,11	4,57E-05
ENSG00000117450	<i>PRDX1</i>	0,29	6,74E-05	0,30	4,57E-05
ENSG00000116661	<i>FBXO2</i>	0,79	4,33E-05	0,79	4,59E-05
ENSG00000113595	<i>TRIM23</i>	0,95	1,19E-10	0,63	4,62E-05
ENSG00000104093	<i>DMXL2</i>	0,93	3,45E-18	0,47	4,64E-05
ENSG00000168528	<i>SERINC2</i>	0,90	8,38E-19	0,44	4,96E-05
ENSG00000137764	<i>MAP2K5</i>	0,72	7,56E-04	0,84	4,96E-05
ENSG00000100342	<i>APOL1</i>	1,62	4,99E-07	1,34	5,00E-05
ENSG00000145246	<i>ATP10D</i>	0,42	2,56E-04	0,46	5,07E-05
ENSG00000159403	<i>C1R</i>	0,86	3,94E-06	0,77	5,14E-05
ENSG00000133466	<i>C1QTNF6</i>	0,95	2,73E-07	0,77	5,24E-05
ENSG00000124788	<i>ATXN1</i>	0,68	8,68E-05	0,70	5,26E-05

ENSG00000113369	<i>ARRDC3</i>	1,20	4,40E-14	0,68	5,56E-05
ENSG00000140939	<i>NOL3</i>	0,95	2,23E-04	1,03	5,82E-05
ENSG00000132561	<i>MATN2</i>	2,03	7,47E-52	0,60	6,39E-05
ENSG00000111331	<i>OAS3</i>	0,68	1,60E-05	0,64	6,47E-05
ENSG00000102781	<i>KATNAL1</i>	0,77	3,59E-08	0,58	6,58E-05
ENSG00000063322	<i>MED29</i>	0,62	1,44E-07	0,49	6,60E-05
ENSG00000153291	<i>SLC25A27</i>	1,09	3,97E-04	1,22	6,92E-05
ENSG00000162852	<i>CNST</i>	1,08	2,16E-33	0,39	7,01E-05
ENSG00000215375	<i>MYL5</i>	1,19	3,83E-05	1,16	7,03E-05
ENSG00000119979	<i>FAM45A</i>	0,62	1,48E-05	0,57	7,92E-05
ENSG00000161249	<i>DMKN</i>	0,59	9,81E-05	0,60	8,20E-05
ENSG00000135454	<i>B4GALNT1</i>	0,51	7,90E-03	0,73	8,41E-05
ENSG00000146416	<i>AIG1</i>	1,01	3,56E-18	0,49	8,48E-05
ENSG00000172007	<i>RAB33B</i>	0,74	3,50E-06	0,64	8,94E-05
ENSG00000114745	<i>GORASP1</i>	0,42	3,48E-03	0,55	8,98E-05
ENSG00000108479	<i>GALK1</i>	1,29	6,23E-27	0,51	8,98E-05
ENSG00000125637	<i>PSD4</i>	0,70	1,42E-04	0,72	9,55E-05
ENSG00000151413	<i>NUBPL</i>	1,11	7,73E-10	0,74	9,81E-05
ENSG00000169814	<i>BTD</i>	0,78	3,30E-09	0,54	1,08E-04
ENSG00000148935	<i>GAS2</i>	0,60	1,82E-05	0,55	1,09E-04
ENSG00000013288	<i>MAN2B2</i>	0,55	1,28E-06	0,45	1,10E-04
ENSG00000124357	<i>NAGK</i>	0,94	1,67E-18	0,45	1,10E-04
ENSG00000135387	<i>CAPRIN1</i>	0,24	7,62E-04	0,27	1,12E-04
ENSG00000131781	<i>FMO5</i>	0,58	1,95E-03	0,71	1,14E-04
ENSG00000149792	<i>MRPL49</i>	0,47	1,30E-06	0,38	1,19E-04
ENSG00000171345	<i>KRT19</i>	0,36	3,54E-04	0,39	1,21E-04
ENSG00000114353	<i>GNAI2</i>	0,71	2,69E-14	0,38	1,23E-04
ENSG00000114999	<i>TTL</i>	0,52	1,56E-08	0,37	1,29E-04
ENSG00000139410	<i>SDSL</i>	0,66	2,87E-03	0,82	1,32E-04
ENSG00000134265	<i>NAPG</i>	0,40	2,57E-03	0,49	1,35E-04
ENSG00000103496	<i>STX4</i>	0,90	2,88E-10	0,57	1,36E-04
ENSG00000165169	<i>DYNLT3</i>	0,46	6,38E-04	0,51	1,36E-04

ENSG00000130714	<i>POMT1</i>	0,84	9,81E-13	0,47	1,40E-04
ENSG00000205423	<i>LOC100130176</i>	0,80	5,47E-05	0,77	1,41E-04
ENSG00000153666	<i>GOLGA9P</i>	1,52	1,16E-17	0,73	1,47E-04
ENSG00000161653	<i>NAGS</i>	1,45	3,40E-08	1,04	1,47E-04
ENSG00000161267	<i>BDH1</i>	2,71	6,38E-33	0,97	1,48E-04
ENSG00000110723	<i>EXPH5</i>	0,96	9,28E-05	0,93	1,50E-04
ENSG00000128016	<i>ZFP36</i>	0,61	6,28E-04	0,67	1,52E-04
ENSG00000116774	<i>OLFML3</i>	0,51	6,29E-08	0,37	1,52E-04
ENSG00000100258	<i>LMF2</i>	0,53	7,51E-09	0,36	1,54E-04
ENSG00000122884	<i>P4HA1</i>	0,50	9,83E-06	0,44	1,54E-04
ENSG00000131370	<i>SH3BP5</i>	1,40	3,75E-05	1,30	1,55E-04
ENSG00000197635	<i>DPP4</i>	0,60	1,79E-15	0,30	1,56E-04
ENSG00000183978	<i>CCDC56</i>	0,43	1,76E-05	0,38	1,58E-04
ENSG0000012174	<i>MBTPS2</i>	1,05	5,75E-22	0,45	1,59E-04
ENSG00000198189	<i>HSD17B11</i>	1,30	7,01E-65	0,32	1,64E-04
ENSG00000182902	<i>SLC25A18</i>	1,09	1,17E-03	1,24	1,83E-04
ENSG00000179163	<i>FUCA1</i>	0,89	1,63E-09	0,58	1,84E-04
ENSG00000233056	<i>ERVH48-1</i>	0,44	1,70E-04	0,44	1,84E-04
ENSG00000196268	<i>ZNF493</i>	1,01	6,19E-05	0,95	1,85E-04
ENSG00000092421	<i>SEMA6A</i>	0,59	1,28E-03	0,67	1,89E-04
ENSG00000149932	<i>TMEM219</i>	0,60	7,20E-07	0,47	1,96E-04
ENSG00000118564	<i>FBXL5</i>	0,61	1,16E-08	0,41	1,98E-04
ENSG00000136040	<i>PLXNC1</i>	0,48	2,88E-08	0,34	2,01E-04
ENSG00000128607	<i>KLHDC10</i>	0,75	1,25E-10	0,46	2,03E-04
ENSG00000119242	<i>CCDC92</i>	0,57	1,90E-03	0,67	2,04E-04
ENSG00000001561	<i>ENPP4</i>	0,54	7,76E-04	0,59	2,06E-04
ENSG00000118762	<i>PKD2</i>	0,58	7,88E-04	0,63	2,14E-04
ENSG00000136883	<i>KIF12</i>	1,03	3,29E-09	0,68	2,14E-04
ENSG00000160282	<i>FTCD</i>	0,55	3,89E-03	0,69	2,15E-04
ENSG00000106617	<i>PRKAG2</i>	0,66	5,52E-03	0,85	2,25E-04
ENSG00000099797	<i>TECR</i>	0,39	2,10E-03	0,46	2,29E-04
ENSG00000161203	<i>AP2M1</i>	0,27	5,53E-04	0,29	2,30E-04

ENSG00000120256	<i>LRP11</i>	0,98	5,36E-15	0,49	2,44E-04
ENSG00000139266	<i>MARCH9</i>	0,62	9,66E-03	0,85	2,49E-04
ENSG00000106078	<i>COBL</i>	0,33	3,20E-03	0,41	2,51E-04
ENSG00000066739	<i>ATG2B</i>	0,65	7,31E-09	0,43	2,52E-04
ENSG00000161533	<i>ACOX1</i>	0,84	6,40E-29	0,30	2,53E-04
ENSG00000166974	<i>MAPRE2</i>	0,48	4,13E-03	0,60	2,54E-04
ENSG00000119888	<i>EPCAM</i>	0,51	1,15E-12	0,28	2,58E-04
ENSG00000122861	<i>PLAU</i>	1,21	1,35E-04	1,17	2,71E-04
ENSG00000106333	<i>PCOLCE</i>	0,89	6,12E-05	0,82	2,76E-04
ENSG00000169762	<i>TAPT1</i>	0,64	2,46E-11	0,36	2,94E-04
ENSG00000001084	<i>GCLC</i>	0,73	6,00E-14	0,38	2,98E-04
ENSG00000004799	<i>PDK4</i>	1,79	5,37E-09	1,17	3,11E-04
ENSG00000117305	<i>HMGCL</i>	0,96	9,34E-18	0,44	3,13E-04
ENSG00000073605	<i>GSDMB</i>	0,60	4,06E-03	0,73	3,18E-04
ENSG00000152137	<i>HSPB8</i>	1,19	1,98E-24	0,46	3,27E-04
ENSG00000197444	<i>OGDHL</i>	0,85	7,46E-05	0,78	3,29E-04
ENSG00000185361	<i>TNFAIP8L1</i>	0,31	6,51E-03	0,39	3,30E-04
ENSG00000033327	<i>GAB2</i>	0,76	9,46E-07	0,58	3,30E-04
ENSG00000165410	<i>CFL2</i>	0,61	9,31E-11	0,35	3,35E-04
ENSG00000175984	<i>DENND2C</i>	1,36	1,00E-14	0,68	3,46E-04
ENSG00000137491	<i>SLCO2B1</i>	1,86	9,82E-43	0,55	3,51E-04
ENSG00000186654	<i>ARHGAP8</i>	1,65	2,02E-15	0,80	3,66E-04
ENSG00000178761	<i>C15ORF17</i>	0,41	2,98E-03	0,48	3,69E-04
ENSG00000097033	<i>SH3GLB1</i>	0,69	1,10E-16	0,32	3,76E-04
ENSG00000175265	<i>GOLGA8A</i>	0,88	2,10E-10	0,52	3,80E-04
ENSG00000179889	<i>PDXDC1</i>	0,23	2,48E-03	0,26	3,83E-04
ENSG00000115020	<i>PIKFYVE</i>	0,77	7,30E-14	0,39	4,17E-04
ENSG00000116005	<i>PCYOX1</i>	0,44	2,11E-08	0,29	4,18E-04
ENSG00000160789	<i>LMNA</i>	0,46	6,26E-09	0,29	4,42E-04
ENSG00000163328	<i>GPR155</i>	1,48	1,08E-11	0,82	4,47E-04
ENSG00000171307	<i>ZDHHC16</i>	0,55	1,41E-05	0,46	4,53E-04
ENSG00000179454	<i>KLHL28</i>	0,83	7,66E-06	0,67	4,65E-04

ENSG00000125144	<i>MT1G</i>	1,59	5,79E-08	1,08	4,67E-04
ENSG00000182165	<i>TP53TG1</i>	0,67	4,88E-03	0,81	5,17E-04
ENSG00000127870	<i>RNF6</i>	0,35	7,76E-03	0,45	5,22E-04
ENSG00000178685	<i>PARP10</i>	1,02	2,53E-05	0,86	5,26E-04
ENSG00000128573	<i>FOXP2</i>	0,76	1,22E-04	0,69	5,49E-04
ENSG00000127995	<i>CASD1</i>	0,47	1,88E-04	0,44	5,57E-04
ENSG00000135637	<i>CCDC142</i>	0,65	2,01E-05	0,54	5,58E-04
ENSG00000171365	<i>CLCN5</i>	0,77	3,83E-15	0,36	5,65E-04
ENSG00000178104	<i>LOC100134230</i>	0,98	2,74E-25	0,35	5,71E-04
ENSG00000177732	<i>SOX12</i>	0,36	3,75E-03	0,41	5,90E-04
ENSG00000122912	<i>SLC25A16</i>	0,66	2,59E-04	0,63	5,92E-04
ENSG00000111666	<i>CHPT1</i>	0,60	9,21E-09	0,37	6,03E-04
ENSG00000186141	<i>POLR3C</i>	0,47	1,01E-06	0,34	6,16E-04
ENSG00000119950	<i>MXI1</i>	0,61	3,56E-03	0,70	6,16E-04
ENSG00000096092	<i>TMEM14A</i>	0,80	3,06E-11	0,44	6,40E-04
ENSG00000178038	<i>ALS2CL</i>	0,90	2,06E-04	0,84	6,46E-04
ENSG00000112874	<i>NUDT12</i>	0,52	4,45E-04	0,50	6,70E-04
ENSG00000118640	<i>VAMP8</i>	0,55	4,43E-07	0,39	6,71E-04
ENSG00000108443	<i>RPS6KB1</i>	0,41	3,04E-04	0,39	6,88E-04
ENSG00000166341	<i>DCHS1</i>	0,79	3,47E-05	0,66	6,95E-04
ENSG00000182179	<i>UBA7</i>	0,88	1,21E-03	0,92	7,21E-04
ENSG00000154153	<i>FAM134B</i>	1,05	1,11E-03	1,08	7,41E-04
ENSG00000157796	<i>WDR19</i>	0,43	1,41E-03	0,45	7,58E-04
ENSG00000083799	<i>CYLD</i>	0,55	8,15E-05	0,48	7,61E-04
ENSG00000156298	<i>TSPAN7</i>	1,01	1,17E-04	0,90	7,63E-04
ENSG00000137269	<i>LRRK1</i>	0,79	2,45E-12	0,41	7,69E-04
ENSG00000198954	<i>KIAA1279</i>	0,40	5,84E-03	0,47	8,14E-04
ENSG00000165915	<i>SLC39A13</i>	0,80	6,34E-09	0,48	8,19E-04
ENSG00000135407	<i>AVIL</i>	1,48	2,84E-06	1,10	8,41E-04
ENSG00000130829	<i>DUSP9</i>	1,19	7,98E-50	0,30	8,61E-04
ENSG00000163702	<i>IL17RC</i>	0,57	3,21E-05	0,47	8,82E-04
ENSG00000143322	<i>ABL2</i>	0,60	1,10E-07	0,39	8,90E-04

ENSG00000087086	<i>FTL</i>	0,68	4,37E-25	0,24	8,93E-04
ENSG00000164542	<i>KIAA0895</i>	0,41	8,93E-04	0,41	9,14E-04
ENSG00000231025	<i>RP11-175O19.4</i>	0,74	2,63E-03	0,81	9,27E-04
ENSG00000204389	<i>HSPA1A</i>	0,85	1,01E-14	0,39	9,50E-04
ENSG00000173221	<i>GLRX</i>	0,86	1,35E-04	0,76	9,67E-04
ENSG00000198408	<i>MGEA5</i>	0,29	7,88E-03	0,35	9,73E-04
ENSG00000124333	<i>VAMP7</i>	0,40	1,02E-03	0,40	9,73E-04
ENSG00000131018	<i>SYNE1</i>	0,98	1,40E-16	0,43	9,84E-04
ENSG00000161010	<i>C5ORF45</i>	0,83	4,12E-10	0,47	9,90E-04
ENSG00000067836	<i>ROGDI</i>	0,84	1,00E-04	0,73	9,90E-04
ENSG00000106070	<i>GRB10</i>	0,70	1,54E-11	0,37	1,00E-03
ENSG00000078018	<i>MAP2</i>	0,53	8,76E-03	0,65	1,04E-03
ENSG00000164684	<i>ZNF704</i>	0,71	9,30E-06	0,54	1,05E-03
ENSG00000134317	<i>GRHL1</i>	1,04	2,77E-09	0,61	1,05E-03
ENSG00000123843	<i>C4BPB</i>	1,32	2,93E-19	0,53	1,06E-03
ENSG00000140750	<i>ARHGAP17</i>	0,34	8,23E-03	0,41	1,07E-03
ENSG00000127824	<i>TUBA4A</i>	0,51	4,17E-04	0,48	1,09E-03
ENSG00000080815	<i>PSEN1</i>	0,50	1,44E-07	0,32	1,10E-03
ENSG00000010310	<i>GIPR</i>	1,55	4,23E-06	1,14	1,16E-03
ENSG00000145817	<i>YIPF5</i>	0,28	7,38E-03	0,33	1,16E-03
ENSG00000184674	<i>GSTT1</i>	0,58	3,07E-06	0,42	1,19E-03
ENSG00000168300	<i>PCMTD1</i>	0,65	1,42E-04	0,56	1,21E-03
ENSG00000169435	<i>RASSF6</i>	0,94	3,46E-03	1,03	1,21E-03
ENSG00000179532	<i>DNHD1</i>	0,73	4,99E-04	0,68	1,22E-03
ENSG0000006625	<i>GGCT</i>	0,42	3,49E-05	0,33	1,23E-03
ENSG00000163344	<i>PMVK</i>	1,05	1,32E-18	0,42	1,24E-03
ENSG00000023909	<i>GCLM</i>	0,62	1,04E-07	0,40	1,25E-03
ENSG00000123933	<i>MXD4</i>	0,80	4,88E-16	0,35	1,27E-03
ENSG00000215039	<i>CD27-AS1</i>	0,70	8,27E-03	0,83	1,28E-03
ENSG0000008869	<i>HEATR5B</i>	0,37	2,10E-03	0,39	1,30E-03
ENSG00000169629	<i>RGPD3</i>	1,03	7,91E-04	1,00	1,31E-03
ENSG00000132669	<i>RIN2</i>	1,29	1,64E-06	0,91	1,31E-03

ENSG00000166821	<i>PEX11A</i>	0,95	4,73E-05	0,77	1,31E-03
ENSG00000129625	<i>REEP5</i>	0,61	6,50E-12	0,30	1,59E-03
ENSG00000122644	<i>ARL4A</i>	0,42	2,22E-04	0,36	1,62E-03
ENSG00000256223	<i>ZNF10</i>	0,69	5,01E-05	0,55	1,67E-03
ENSG00000137575	<i>SDCBP</i>	0,34	1,09E-03	0,33	1,68E-03
ENSG00000106211	<i>HSPB1</i>	0,52	8,23E-07	0,35	1,79E-03
ENSG00000185245	<i>GP1BA</i>	1,69	1,80E-06	1,17	1,79E-03
ENSG00000134333	<i>LDHA</i>	0,22	3,73E-03	0,23	1,80E-03
ENSG00000074416	<i>MGLL</i>	0,82	2,93E-09	0,46	1,80E-03
ENSG00000198324	<i>FAM109A</i>	1,13	1,86E-13	0,52	1,90E-03
ENSG00000089723	<i>OTUB2</i>	0,61	9,97E-03	0,71	1,92E-03
ENSG00000137449	<i>CPEB2</i>	2,34	6,44E-30	0,73	1,99E-03
ENSG00000006282	<i>SPATA20</i>	0,48	5,41E-07	0,31	2,07E-03
ENSG00000162616	<i>DNAJB4</i>	0,56	3,07E-05	0,43	2,07E-03
ENSG00000213366	<i>GSTM2</i>	1,54	1,76E-09	0,84	2,27E-03
ENSG00000187790	<i>FANCM</i>	0,70	6,00E-07	0,45	2,28E-03
ENSG00000111674	<i>ENO2</i>	1,20	9,59E-09	0,68	2,35E-03
ENSG00000139865	<i>TTC6</i>	0,95	9,58E-06	0,68	2,39E-03
ENSG00000124593	<i>PRICKLE4</i>	0,87	3,51E-03	0,90	2,46E-03
ENSG00000105339	<i>DENND3</i>	0,72	7,91E-05	0,57	2,54E-03
ENSG00000124508	<i>BTN2A2</i>	0,44	3,35E-04	0,38	2,60E-03
ENSG00000048392	<i>RRM2B</i>	0,59	6,45E-06	0,41	2,66E-03
ENSG00000176974	<i>SHMT1</i>	0,51	6,48E-06	0,35	2,69E-03
ENSG00000178078	<i>STAP2</i>	0,77	1,30E-08	0,44	2,71E-03
ENSG00000069712	<i>KIAA1107</i>	0,76	7,47E-03	0,84	2,75E-03
ENSG00000141562	<i>NARF</i>	0,72	4,28E-11	0,35	2,77E-03
ENSG00000181458	<i>TMEM45A</i>	1,17	1,74E-14	0,50	2,80E-03
ENSG00000139192	<i>TAPBPL</i>	0,94	1,32E-04	0,76	2,84E-03
ENSG00000167702	<i>KIFC2</i>	1,21	5,27E-09	0,67	2,87E-03
ENSG00000166225	<i>FRS2</i>	0,90	2,77E-13	0,40	3,12E-03
ENSG00000119946	<i>CNNM1</i>	0,44	2,20E-03	0,43	3,16E-03
ENSG00000137561	<i>TTPA</i>	2,38	7,28E-18	0,91	3,21E-03

ENSG00000158987	<i>RAPGEF6</i>	0,71	6,85E-05	0,55	3,21E-03
ENSG00000160446	<i>ZDHHC12</i>	0,92	2,82E-11	0,44	3,22E-03
ENSG00000186104	<i>CYP2R1</i>	0,76	1,71E-06	0,49	3,25E-03
ENSG00000147251	<i>DOCK11</i>	1,11	8,07E-08	0,65	3,30E-03
ENSG00000145725	<i>PPIP5K2</i>	0,82	4,14E-16	0,32	3,31E-03
ENSG00000187244	<i>BCAM</i>	0,83	4,11E-14	0,35	3,44E-03
ENSG00000164209	<i>SLC25A46</i>	0,57	1,16E-06	0,36	3,45E-03
ENSG00000197857	<i>ZNF44</i>	0,82	2,03E-05	0,59	3,51E-03
ENSG00000112773	<i>FAM46A</i>	1,04	4,63E-16	0,41	3,60E-03
ENSG00000114378	<i>HYAL1</i>	0,87	2,07E-13	0,37	3,63E-03
ENSG00000148341	<i>SH3GLB2</i>	0,58	9,50E-05	0,44	3,70E-03
ENSG00000090539	<i>CHRD</i>	0,53	2,47E-03	0,51	3,71E-03
ENSG00000140398	<i>NEIL1</i>	0,71	9,81E-03	0,79	3,72E-03
ENSG00000129562	<i>DAD1</i>	0,55	4,22E-10	0,27	3,75E-03
ENSG00000119185	<i>ITGB1BP1</i>	0,61	7,03E-05	0,46	3,83E-03
ENSG00000177169	<i>ULK1</i>	0,33	8,61E-03	0,36	3,84E-03
ENSG00000115129	<i>TP53I3</i>	0,88	1,27E-08	0,48	3,99E-03
ENSG00000163898	<i>LIPH</i>	0,90	7,79E-11	0,43	4,10E-03
ENSG00000037042	<i>TUBG2</i>	0,82	1,66E-07	0,48	4,12E-03
ENSG00000173715	<i>C11ORF80</i>	0,81	8,46E-11	0,39	4,22E-03
ENSG00000105856	<i>HBP1</i>	0,75	4,09E-08	0,42	4,25E-03
ENSG00000127952	<i>STYXL1</i>	0,50	1,87E-04	0,39	4,34E-03
ENSG00000122507	<i>BBS9</i>	1,13	4,01E-08	0,63	4,43E-03
ENSG0000008323	<i>PLEKHG6</i>	1,14	3,57E-08	0,63	4,49E-03
ENSG00000127663	<i>KDM4B</i>	0,53	6,08E-05	0,39	4,49E-03
ENSG00000030582	<i>GRN</i>	0,82	7,18E-24	0,26	4,66E-03
ENSG00000238206	/	0,34	7,70E-03	0,36	4,67E-03
ENSG00000180229	<i>HERC2P2</i>	0,83	2,46E-11	0,38	4,78E-03
ENSG00000164733	<i>CTSB</i>	0,49	1,44E-09	0,24	4,80E-03
ENSG00000260855	<i>RP11-439E19.10</i>	1,62	3,89E-08	0,90	4,82E-03
ENSG00000196922	<i>ZNF252</i>	0,70	1,21E-08	0,37	4,83E-03
ENSG00000147475	<i>ERLIN2</i>	0,24	7,35E-03	0,26	4,95E-03

ENSG00000132793	<i>LPIN3</i>	0,59	1,65E-03	0,53	4,98E-03
ENSG0000013374	<i>NUB1</i>	0,45	7,78E-05	0,33	4,98E-03
ENSG00000130529	<i>TRPM4</i>	0,68	5,87E-03	0,69	5,05E-03
ENSG00000133460	<i>SLC2A11</i>	0,73	2,65E-03	0,69	5,12E-03
ENSG00000197343	<i>ZNF655</i>	0,36	9,16E-04	0,31	5,17E-03
ENSG00000240065	<i>PSMB9</i>	1,51	3,57E-06	0,97	5,20E-03
ENSG00000138642	<i>HERC6</i>	1,05	1,30E-03	0,93	5,23E-03
ENSG00000185963	<i>BICD2</i>	0,34	2,37E-03	0,31	5,26E-03
ENSG00000160014	<i>CALM1</i>	0,40	2,48E-06	0,25	5,28E-03
ENSG00000090989	<i>EXOC1</i>	0,44	1,46E-04	0,34	5,35E-03
ENSG00000033627	<i>ATP6V0A1</i>	0,45	5,80E-05	0,32	5,35E-03
ENSG00000205060	<i>SLC35B4</i>	0,37	3,10E-04	0,29	5,35E-03
ENSG00000119801	<i>YPEL5</i>	0,62	2,49E-06	0,39	5,38E-03
ENSG00000088926	<i>F11</i>	0,64	3,27E-03	0,61	5,47E-03
ENSG00000164344	<i>KLKB1</i>	1,03	2,33E-03	0,95	5,59E-03
ENSG00000177706	<i>FAM20C</i>	0,73	2,21E-06	0,45	5,88E-03
ENSG00000151458	<i>ANKRD50</i>	0,42	3,75E-04	0,34	5,93E-03
ENSG00000168016	<i>TRANK1</i>	1,25	9,24E-06	0,83	6,01E-03
ENSG00000167657	<i>DAPK3</i>	0,65	7,33E-08	0,35	6,02E-03
ENSG00000230551	<i>CTB-89H12.4</i>	0,55	7,00E-03	0,55	6,06E-03
ENSG00000128524	<i>ATP6V1F</i>	0,69	9,92E-08	0,38	6,08E-03
ENSG00000174977	<i>AC026271.5</i>	0,82	2,58E-03	0,76	6,19E-03
ENSG00000196172	<i>ZNF681</i>	1,13	4,69E-10	0,54	6,49E-03
ENSG00000188243	<i>COMM6</i>	0,60	1,26E-03	0,52	6,60E-03
ENSG00000187954	<i>CYHR1</i>	0,43	1,42E-03	0,38	6,63E-03
ENSG00000185100	<i>ADSSL1</i>	0,99	2,50E-03	0,90	6,63E-03
ENSG00000100417	<i>PMM1</i>	0,60	2,06E-03	0,54	6,65E-03
ENSG00000143036	<i>SLC44A3</i>	0,66	4,28E-08	0,35	6,66E-03
ENSG00000120868	<i>APAF1</i>	0,34	2,49E-03	0,31	6,66E-03
ENSG00000135241	<i>PNPLA8</i>	0,42	7,81E-04	0,34	6,67E-03
ENSG00000156587	<i>UBE2L6</i>	0,70	2,53E-06	0,43	6,71E-03
ENSG00000174917	<i>C19ORF70</i>	0,67	1,33E-05	0,44	6,84E-03

ENSG00000170502	<i>NUDT9</i>	0,32	6,89E-03	0,32	6,85E-03
ENSG00000106479	<i>ZNF862</i>	1,07	3,29E-05	0,74	6,95E-03
ENSG00000119922	<i>IFIT2</i>	1,18	5,90E-04	0,95	6,96E-03
ENSG00000117791	<i>MOSC2</i>	0,77	1,96E-07	0,43	7,10E-03
ENSG00000127419	<i>TMEM175</i>	0,84	2,67E-06	0,52	7,16E-03
ENSG00000067715	<i>SYT1</i>	1,36	7,16E-11	0,62	7,23E-03
ENSG00000157823	<i>AP3S2</i>	0,89	3,68E-06	0,55	7,33E-03
ENSG00000130150	<i>MOSPD2</i>	0,98	8,90E-08	0,53	7,48E-03
ENSG00000135164	<i>DMTF1</i>	0,32	6,03E-03	0,31	7,52E-03
ENSG00000105784	<i>RUNDC3B</i>	1,12	3,65E-04	0,87	7,59E-03
ENSG00000154917	<i>RAB6B</i>	0,83	7,04E-07	0,48	7,76E-03
ENSG00000114796	<i>KLHL24</i>	0,80	3,33E-08	0,42	8,01E-03
ENSG00000224051	<i>CPTP</i>	0,87	1,67E-07	0,47	8,13E-03
ENSG00000179750	<i>APOBEC3B</i>	0,75	4,54E-03	0,70	8,27E-03
ENSG00000168591	<i>TMUB2</i>	0,47	5,65E-06	0,29	8,32E-03
ENSG00000123159	<i>GIPC1</i>	0,37	1,68E-03	0,32	8,32E-03
ENSG00000172671	<i>ANUBL1</i>	1,41	3,75E-08	0,74	8,33E-03
ENSG00000043143	<i>PHF15</i>	0,74	4,73E-05	0,50	8,52E-03
ENSG00000137267	<i>TUBB2A</i>	0,70	7,58E-10	0,33	8,60E-03
ENSG00000152270	<i>PDE3B</i>	0,61	3,69E-05	0,41	8,62E-03
ENSG00000139194	<i>RBP5</i>	0,89	9,85E-05	0,63	8,78E-03
ENSG00000163032	<i>VSNL1</i>	0,68	1,66E-05	0,44	8,80E-03
ENSG00000196139	<i>AKR1C3</i>	1,10	1,84E-06	0,65	8,82E-03
ENSG00000109819	<i>PPARGC1A</i>	1,05	4,55E-15	0,39	8,86E-03
ENSG00000143303	<i>C10orf66</i>	0,61	3,98E-05	0,41	9,13E-03
ENSG00000214719	<i>LRRC37B2</i>	1,87	7,62E-23	0,57	9,23E-03
ENSG00000118596	<i>SLC16A7</i>	0,75	7,80E-11	0,33	9,39E-03
ENSG00000118308	<i>LRMP</i>	1,48	2,50E-07	0,81	9,41E-03
ENSG00000100106	<i>TRIOBP</i>	0,73	8,21E-04	0,58	9,42E-03
ENSG00000178301	<i>AQP11</i>	1,69	1,32E-10	0,76	9,48E-03
ENSG00000079974	<i>RABL2B</i>	0,56	8,55E-03	0,55	9,53E-03
ENSG00000237945	<i>LINC00649</i>	0,87	6,60E-07	0,49	9,67E-03

ENSG00000171298	GAA	0,67	1,98E-14	0,25	9,72E-03
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S8. Upregulated genes (n=201) after lnc18q22.2 knockdown in HepG2 and Hep3B. FDR<0.01.

Ensembl Gene ID	Official gene name	HepG2				Hep3B			
		KD1 vs Mock		KD2 vs Mock		KD1 vs Mock		KD2 vs Mock	
		log2FoldChange	FDR	log2FoldChange	FDR	log2FoldChange	FDR	log2FoldChange	FDR
ENSG00000196975	ANXA4	1,28	2,59E-78	1,88	1,18E-170	0,61	7,27E-12	0,94	5,87E-27
ENSG00000165092	ALDH1A1	2,16	1,31E-228	1,64	1,06E-130	0,34	3,31E-09	1,19	9,32E-107
ENSG00000162817	C10orf115	2,06	3,43E-162	1,62	5,47E-98	1,27	8,72E-37	1,25	6,64E-36
ENSG00000172296	SPTLC3	1,00	1,08E-41	1,31	2,08E-71	1,08	3,88E-05	1,31	3,64E-07
ENSG00000168385	SEPT2	0,89	2,91E-51	0,88	3,17E-49	0,68	7,98E-27	0,68	9,82E-27
ENSG00000172239	LOC645139	1,18	3,96E-37	1,20	2,77E-38	0,71	1,27E-13	0,72	4,91E-14
ENSG00000113790	EHHADH	0,77	5,77E-14	1,26	5,60E-37	1,04	1,22E-17	0,62	8,77E-07
ENSG00000102931	ARL2BP	1,93	1,38E-51	1,64	4,87E-36	1,74	3,67E-22	0,92	1,97E-06
ENSG00000178988	MRFAP1L1	1,21	5,90E-34	1,25	5,24E-36	0,59	8,24E-08	1,38	6,49E-42
ENSG00000117528	ABCD3	0,94	2,81E-40	0,88	1,99E-34	0,94	8,11E-24	1,21	2,13E-39
ENSG00000256162	SMLR1	0,69	2,10E-24	0,83	4,00E-34	0,81	5,06E-06	1,21	1,44E-12
ENSG00000131242	RAB11FIP4	0,88	1,87E-33	0,90	4,86E-34	0,72	8,94E-15	0,84	3,42E-20
ENSG00000166450	PRTG	0,46	1,69E-06	1,08	2,04E-33	0,95	4,08E-06	0,91	1,09E-05
ENSG00000113583	C5ORF15	0,75	8,20E-16	1,09	4,39E-33	0,76	1,35E-10	0,76	1,45E-10
ENSG00000111897	SERINC1	0,60	4,97E-12	1,01	5,17E-33	0,42	4,99E-09	0,71	1,39E-24
ENSG00000134962	KLB	0,52	1,24E-11	0,84	1,23E-29	0,45	6,21E-09	0,44	3,35E-08
ENSG00000104371	DKK4	2,09	2,71E-14	3,02	1,23E-29	1,94	4,90E-08	2,48	1,32E-12
ENSG00000196502	SULT1A1	0,79	1,91E-24	0,87	2,21E-29	0,80	1,47E-08	1,08	3,40E-15
ENSG00000144118	RALB	1,26	4,73E-29	1,27	3,73E-29	0,68	1,11E-09	0,73	6,36E-11
ENSG00000182326	C1S	1,84	2,36E-56	1,27	4,29E-26	0,90	5,10E-16	0,48	4,40E-05
ENSG00000165410	CFL2	0,62	8,11E-20	0,71	5,99E-25	0,61	9,31E-11	0,35	3,35E-04

ENSG00000081051	<i>AFP</i>	0,62	1,74E-18	0,73	2,01E-24	1,31	6,18E-56	1,31	6,28E-56
ENSG00000112078	<i>KCTD20</i>	0,65	1,61E-17	0,77	3,52E-24	0,66	9,06E-15	0,93	1,87E-29
ENSG00000120697	<i>ALG5</i>	1,07	1,62E-13	1,44	4,73E-24	0,92	4,30E-09	1,19	3,47E-15
ENSG00000096092	<i>TMEM14A</i>	1,76	2,39E-53	1,20	5,89E-24	0,80	3,06E-11	0,44	6,40E-04
ENSG00000134049	<i>IER3IP1</i>	1,00	2,11E-15	1,26	7,37E-24	0,77	4,17E-03	1,07	2,71E-05
ENSG00000072210	<i>ALDH3A2</i>	0,65	2,60E-19	0,72	2,25E-23	1,00	5,68E-48	1,14	3,51E-62
ENSG00000151632	<i>AKR1C2</i>	1,89	5,68E-140	0,77	2,30E-23	1,61	4,41E-49	1,24	3,26E-29
ENSG00000134717	<i>BTF3L4</i>	0,45	1,04E-04	1,08	2,33E-23	1,38	1,93E-32	1,75	2,23E-53
ENSG00000186106	<i>ANKRD46</i>	0,53	7,69E-05	1,24	2,52E-23	0,97	2,62E-15	1,26	1,05E-25
ENSG00000165526	<i>RPUSD4</i>	0,58	2,07E-07	1,03	3,80E-22	0,77	1,62E-07	1,50	2,13E-27
ENSG00000130779	<i>CLIP1</i>	0,38	3,28E-05	0,83	6,21E-22	0,53	7,40E-09	0,84	4,62E-21
ENSG00000163624	<i>CDS1</i>	0,56	5,71E-04	1,41	1,40E-21	2,26	1,34E-36	1,60	4,39E-18
ENSG00000152601	<i>MBNL1</i>	1,01	2,85E-30	0,86	1,62E-21	0,90	2,25E-22	1,10	2,84E-33
ENSG00000146416	<i>AIG1</i>	0,67	3,12E-14	0,82	2,01E-20	1,01	3,56E-18	0,49	8,48E-05
ENSG00000102753	<i>KPNA3</i>	0,55	1,69E-11	0,74	3,78E-20	0,62	1,70E-08	0,47	2,72E-05
ENSG00000115425	<i>PECR</i>	0,63	4,43E-14	0,76	7,48E-20	0,58	4,13E-06	0,61	1,23E-06
ENSG00000196937	<i>FAM3C</i>	0,44	2,44E-03	1,19	1,64E-19	1,47	1,76E-32	1,87	1,02E-53
ENSG00000121578	<i>B4GALT4</i>	0,41	1,36E-03	1,04	2,09E-19	0,43	7,40E-04	0,98	6,56E-17
ENSG00000138823	<i>MTTP</i>	1,07	1,68E-31	0,83	7,26E-19	2,10	5,03E-134	1,98	5,93E-120
ENSG00000139324	<i>TMT3C</i>	1,15	5,63E-22	1,07	8,14E-19	0,89	1,57E-16	0,57	3,37E-07
ENSG00000153130	<i>SCOC</i>	0,41	5,01E-05	0,85	1,13E-18	0,80	5,87E-14	0,73	1,42E-11
ENSG00000121858	<i>TNFSF10</i>	0,79	1,81E-14	0,90	2,46E-18	1,60	3,53E-09	1,27	4,94E-06
ENSG00000153066	<i>TXNDC11</i>	0,52	4,01E-10	0,70	1,49E-17	0,99	2,54E-21	0,83	4,28E-15
ENSG00000111052	<i>LIN7A</i>	0,49	1,34E-06	0,82	2,34E-17	0,75	7,53E-16	0,71	3,33E-14
ENSG00000166035	<i>LIPC</i>	0,64	2,30E-08	0,94	4,65E-17	0,83	2,82E-12	0,94	1,86E-15
ENSG00000110169	<i>HPX</i>	1,70	8,79E-22	1,51	5,94E-17	1,87	1,92E-88	0,72	3,49E-13
ENSG00000151090	<i>THR8</i>	1,27	3,34E-32	0,91	2,88E-16	1,10	2,92E-30	1,01	9,02E-26
ENSG00000204899	<i>C13ORF37</i>	0,81	9,49E-09	1,12	3,25E-16	1,13	1,11E-09	0,91	2,23E-06
ENSG00000137831	<i>UACA</i>	0,58	1,10E-06	0,93	7,52E-16	1,42	6,73E-41	0,49	2,06E-05
ENSG00000204128	<i>C20RF72</i>	0,66	3,06E-22	0,56	8,10E-16	0,85	1,55E-20	0,68	1,98E-13
ENSG00000170456	<i>DENND5B</i>	0,42	1,63E-05	0,73	2,18E-15	0,40	1,59E-03	0,62	4,01E-07
ENSG00000184117	<i>NIPSNAP1</i>	0,30	2,21E-04	0,61	2,82E-15	0,37	1,72E-05	0,40	1,91E-06

ENSG00000170899	<i>GSTA4</i>	1,03	3,34E-20	0,89	5,98E-15	1,01	1,53E-12	0,72	1,17E-06
ENSG00000175854	<i>C9ORF119</i>	0,86	1,83E-08	1,17	9,36E-15	0,74	1,57E-07	0,80	1,20E-08
ENSG00000104325	<i>DECR1</i>	0,94	1,04E-18	0,84	9,69E-15	0,82	3,35E-19	1,15	3,86E-38
ENSG00000131981	<i>LGALS3</i>	0,36	1,04E-03	0,78	3,02E-14	0,92	6,06E-09	0,74	4,66E-06
ENSG00000077254	<i>USP33</i>	0,72	3,69E-11	0,82	3,15E-14	0,60	1,38E-06	0,66	9,05E-08
ENSG00000143322	<i>ABL2</i>	0,60	1,42E-08	0,78	8,17E-14	0,60	1,10E-07	0,39	8,90E-04
ENSG00000023909	<i>GCLM</i>	0,84	3,34E-16	0,76	5,38E-13	0,62	1,04E-07	0,40	1,25E-03
ENSG00000072364	<i>AFF4</i>	0,51	1,94E-10	0,57	1,87E-12	0,75	2,60E-23	0,71	1,56E-20
ENSG00000181019	<i>NQO1</i>	1,33	1,28E-70	0,55	2,36E-12	0,91	1,02E-27	0,97	1,48E-31
ENSG00000196083	<i>IL1RAP</i>	0,57	4,78E-09	0,67	5,87E-12	1,28	1,33E-50	0,62	3,14E-12
ENSG00000128311	<i>TST</i>	0,55	2,78E-06	0,79	6,59E-12	0,82	1,05E-11	0,90	4,32E-14
ENSG00000116774	<i>OLFML3</i>	2,58	2,21E-30	1,63	9,13E-12	0,51	6,29E-08	0,37	1,52E-04
ENSG00000106853	<i>PTGR1</i>	2,74	2,92E-65	1,17	1,50E-11	2,80	1,79E-121	1,72	1,74E-44
ENSG00000117280	<i>RAB7L1</i>	0,77	1,98E-07	0,98	1,50E-11	0,70	5,73E-12	0,49	4,28E-06
ENSG00000166483	<i>WEE1</i>	0,39	5,10E-04	0,72	1,85E-11	0,46	5,35E-07	0,64	3,09E-13
ENSG00000125144	<i>MT1G</i>	1,80	3,38E-13	1,68	2,00E-11	1,59	5,79E-08	1,08	4,67E-04
ENSG00000092841	<i>MYL6</i>	0,24	5,84E-03	0,55	2,33E-11	0,46	3,82E-08	0,54	6,00E-11
ENSG00000197535	<i>MYO5A</i>	0,81	2,94E-09	0,90	3,74E-11	0,83	1,60E-08	1,35	5,23E-22
ENSG00000159322	<i>ADPGK</i>	0,36	8,65E-04	0,66	1,11E-10	0,31	5,10E-03	0,46	1,74E-05
ENSG00000132437	<i>DDC</i>	0,98	6,70E-22	0,68	1,61E-10	1,83	4,35E-28	1,32	1,45E-14
ENSG00000108479	<i>GALK1</i>	0,91	3,25E-17	0,71	1,84E-10	1,29	6,23E-27	0,51	8,98E-05
ENSG00000170873	<i>MTSS1</i>	0,69	2,03E-14	0,58	5,67E-10	0,80	3,97E-08	0,87	1,99E-09
ENSG00000145703	<i>IQGAP2</i>	0,57	4,14E-16	0,45	6,88E-10	0,56	1,55E-07	0,66	3,46E-10
ENSG00000198074	<i>AKR1B10</i>	2,76	4,56E-120	0,79	1,05E-09	1,03	1,66E-06	1,25	3,40E-09
ENSG00000151413	<i>NUBPL</i>	0,92	7,12E-19	0,66	1,19E-09	1,11	7,73E-10	0,74	9,81E-05
ENSG00000029364	<i>SLC39A9</i>	0,73	2,17E-17	0,54	1,39E-09	0,61	2,06E-13	0,61	2,73E-13
ENSG00000234127	<i>TRIM26</i>	1,10	4,55E-30	0,62	1,54E-09	0,53	1,76E-09	0,69	6,47E-16
ENSG00000120860	<i>CCDC53</i>	0,70	2,79E-05	0,97	1,71E-09	0,99	1,09E-06	1,06	1,57E-07
ENSG00000105852	<i>PON3</i>	1,22	2,49E-18	0,88	2,07E-09	0,50	1,84E-03	0,78	2,51E-07
ENSG00000177565	<i>TBL1XR1</i>	0,83	4,06E-17	0,62	2,28E-09	1,27	1,96E-64	0,40	5,97E-07
ENSG00000143819	<i>EPHX1</i>	1,53	1,10E-69	0,56	2,33E-09	1,28	1,38E-40	0,79	1,24E-15
ENSG00000095209	<i>TMEM38B</i>	0,47	3,93E-04	0,76	2,67E-09	0,73	1,54E-08	0,61	3,26E-06

ENSG00000013583	<i>HEBP1</i>	0,96	6,95E-11	0,89	3,69E-09	1,58	1,18E-26	1,24	1,42E-16
ENSG00000039068	<i>CDH1</i>	0,81	3,11E-08	0,85	7,83E-09	1,29	6,53E-36	0,87	3,60E-16
ENSG00000113494	<i>PRLR</i>	0,34	5,72E-03	0,67	7,83E-09	0,90	1,21E-08	1,00	1,79E-10
ENSG00000042286	<i>AIFM2</i>	0,80	1,22E-16	0,58	9,09E-09	0,64	3,31E-10	0,49	2,66E-06
ENSG00000147475	<i>ERLIN2</i>	0,29	9,14E-04	0,48	1,03E-08	0,24	7,35E-03	0,26	4,95E-03
ENSG00000145476	<i>CYP4V2</i>	0,60	9,23E-05	0,85	1,21E-08	1,28	1,71E-20	0,99	2,14E-12
ENSG00000070061	<i>IKBKAP</i>	0,56	2,20E-16	0,40	1,26E-08	0,33	1,97E-04	1,03	1,17E-35
ENSG00000014641	<i>MDH1</i>	0,26	1,53E-03	0,45	1,30E-08	0,26	1,19E-03	0,34	1,35E-05
ENSG00000161533	<i>ACOX1</i>	0,43	3,93E-09	0,42	1,43E-08	0,84	6,40E-29	0,30	2,53E-04
ENSG00000183978	<i>CCDC56</i>	0,65	1,21E-11	0,56	1,81E-08	0,43	1,76E-05	0,38	1,58E-04
ENSG00000197165	<i>SULT1A2</i>	1,07	1,26E-17	0,74	2,22E-08	0,94	2,15E-07	0,88	1,95E-06
ENSG00000131018	<i>SYNE1</i>	1,43	1,93E-44	0,61	3,03E-08	0,98	1,40E-16	0,43	9,84E-04
ENSG00000143158	<i>BRP44</i>	0,89	1,80E-14	0,67	3,45E-08	0,50	6,26E-11	0,39	4,73E-07
ENSG00000166974	<i>MAPRE2</i>	0,27	9,23E-03	0,53	5,41E-08	0,48	4,13E-03	0,60	2,54E-04
ENSG00000142166	<i>IFNAR1</i>	0,49	3,28E-07	0,52	6,71E-08	0,61	2,84E-12	0,70	7,99E-16
ENSG00000117305	<i>HMGCL</i>	0,49	1,60E-04	0,68	8,00E-08	0,96	9,34E-18	0,44	3,13E-04
ENSG00000141034	<i>C17ORF39</i>	0,58	1,36E-03	0,93	9,47E-08	1,14	3,17E-10	1,19	4,41E-11
ENSG00000180667	<i>YOD1</i>	0,45	1,02E-03	0,69	9,49E-08	0,71	1,09E-14	0,45	2,56E-06
ENSG00000006282	<i>SPATA20</i>	0,92	3,69E-21	0,55	9,51E-08	0,48	5,41E-07	0,31	2,07E-03
ENSG00000139410	<i>SDSL</i>	0,92	1,20E-03	1,45	9,93E-08	0,66	2,87E-03	0,82	1,32E-04
ENSG00000166311	<i>SMPD1</i>	0,85	4,83E-07	0,90	1,08E-07	1,03	2,64E-21	0,96	1,50E-18
ENSG00000176974	<i>SHMT1</i>	0,82	1,94E-14	0,60	1,32E-07	0,51	6,48E-06	0,35	2,69E-03
ENSG00000004897	<i>CDC27</i>	0,22	5,14E-03	0,40	1,42E-07	0,53	1,90E-10	0,70	1,18E-17
ENSG00000120948	<i>TARDBP</i>	0,41	6,75E-08	0,40	1,45E-07	0,21	9,33E-03	0,57	5,29E-15
ENSG00000205423	<i>LOC100130176</i>	0,69	1,12E-06	0,75	1,53E-07	0,80	5,47E-05	0,77	1,41E-04
ENSG00000124120	<i>TPAL</i>	0,76	2,19E-13	0,56	1,97E-07	0,42	2,99E-04	0,82	1,03E-13
ENSG00000155640	<i>C100RF12</i>	0,70	8,48E-05	0,91	2,48E-07	0,83	2,80E-06	1,32	6,03E-15
ENSG00000094631	<i>HDAC6</i>	0,63	1,97E-12	0,48	2,62E-07	0,71	7,94E-09	0,56	9,93E-06
ENSG00000135617	<i>C20RF7</i>	1,23	3,31E-14	0,88	2,65E-07	0,99	2,75E-13	0,92	1,15E-11
ENSG00000139865	<i>TTC6</i>	0,98	1,88E-09	0,86	2,86E-07	0,95	9,58E-06	0,68	2,39E-03
ENSG00000106789	<i>CORO2A</i>	0,50	3,91E-07	0,51	3,02E-07	0,98	2,27E-19	0,88	9,79E-16
ENSG00000172955	<i>ADH6</i>	0,82	1,20E-30	0,39	3,15E-07	0,78	2,03E-04	0,85	4,48E-05

ENSG00000181274	<i>FRAT2</i>	0,86	1,94E-08	0,80	3,33E-07	1,33	4,24E-23	0,78	2,60E-08
ENSG00000139194	<i>RBP5</i>	1,03	2,90E-08	0,96	4,54E-07	0,89	9,85E-05	0,63	8,78E-03
ENSG00000136935	<i>GOLGA1</i>	0,73	3,56E-13	0,53	4,69E-07	0,63	1,46E-07	0,68	7,87E-09
ENSG00000163644	<i>PPM1K</i>	0,76	5,45E-04	1,07	5,66E-07	0,66	3,31E-03	1,18	1,58E-08
ENSG00000197780	<i>TAF13</i>	0,64	1,71E-05	0,73	6,58E-07	0,58	3,89E-06	0,77	2,67E-10
ENSG00000137561	<i>TTPA</i>	2,11	7,06E-19	1,27	8,09E-07	2,38	7,28E-18	0,91	3,21E-03
ENSG00000075945	<i>KIFAP3</i>	0,87	7,36E-08	0,82	8,63E-07	0,89	2,13E-14	0,71	1,66E-09
ENSG00000152056	<i>AP1S3</i>	0,56	1,03E-03	0,81	1,11E-06	0,84	2,15E-10	0,75	1,81E-08
ENSG00000170445	<i>HARS</i>	0,32	2,76E-03	0,50	1,24E-06	0,40	4,09E-04	0,75	3,42E-12
ENSG00000124508	<i>BTN2A2</i>	0,72	4,45E-05	0,83	2,41E-06	0,44	3,35E-04	0,38	2,60E-03
ENSG00000116906	<i>GNPAT</i>	0,60	3,54E-15	0,38	2,53E-06	0,31	5,46E-04	0,56	2,73E-11
ENSG00000185787	<i>MORF4</i>	0,29	2,40E-05	0,32	2,79E-06	0,35	1,17E-07	0,35	2,14E-07
ENSG00000006576	<i>PHTF2</i>	0,44	3,85E-03	0,67	3,06E-06	0,65	1,98E-13	0,69	1,18E-14
ENSG00000127952	<i>STYXL1</i>	0,55	1,34E-03	0,77	3,49E-06	0,50	1,87E-04	0,39	4,34E-03
ENSG00000135387	<i>CAPRIN1</i>	0,63	2,39E-25	0,30	3,57E-06	0,24	7,62E-04	0,27	1,12E-04
ENSG00000106780	<i>MEGF9</i>	0,42	8,28E-05	0,49	4,87E-06	0,60	6,53E-10	0,70	2,10E-13
ENSG00000118564	<i>FBXL5</i>	0,52	1,55E-05	0,55	5,42E-06	0,61	1,16E-08	0,41	1,98E-04
ENSG00000178537	<i>SLC25A20</i>	1,36	1,26E-27	0,62	6,28E-06	1,17	2,61E-21	0,81	2,48E-10
ENSG00000103496	<i>STX4</i>	0,69	6,43E-08	0,60	6,46E-06	0,90	2,88E-10	0,57	1,36E-04
ENSG00000145217	<i>SLC26A1</i>	0,92	1,48E-10	0,68	6,91E-06	1,14	2,19E-15	1,11	1,21E-14
ENSG00000083799	<i>CYLD</i>	0,46	1,27E-04	0,54	7,56E-06	0,55	8,15E-05	0,48	7,61E-04
ENSG00000130988	<i>RGN</i>	0,75	4,43E-12	0,51	8,36E-06	1,69	8,60E-23	1,16	8,86E-11
ENSG00000164124	<i>TMEM144</i>	0,50	2,51E-03	0,70	1,14E-05	1,25	1,72E-18	1,22	8,99E-18
ENSG00000159403	<i>C1R</i>	1,26	1,70E-06	1,17	1,47E-05	0,86	3,94E-06	0,77	5,14E-05
ENSG00000079974	<i>RABL2B</i>	0,86	8,44E-06	0,84	2,01E-05	0,56	8,55E-03	0,55	9,53E-03
ENSG00000173193	<i>PARP14</i>	1,55	1,51E-45	0,51	3,20E-05	0,98	6,67E-20	0,81	6,40E-14
ENSG00000172007	<i>RAB33B</i>	0,68	5,36E-05	0,71	3,34E-05	0,74	3,50E-06	0,64	8,94E-05
ENSG00000142156	<i>COL6A1</i>	0,87	1,39E-10	0,60	3,36E-05	1,06	4,21E-13	0,89	2,05E-09
ENSG0000005469	<i>CROT</i>	0,78	1,04E-08	0,59	3,77E-05	1,49	4,87E-38	0,87	4,47E-13
ENSG00000198689	<i>SLC9A6</i>	0,81	1,98E-06	0,72	4,42E-05	1,00	1,36E-10	0,70	1,37E-05
ENSG00000180198	<i>RCC1</i>	0,40	6,85E-06	0,38	4,48E-05	0,40	1,69E-05	0,67	1,58E-13
ENSG00000012174	<i>MBTPS2</i>	0,64	1,69E-10	0,43	5,41E-05	1,05	5,75E-22	0,45	1,59E-04

ENSG00000204439	<i>C6ORF47</i>	0,94	6,61E-05	0,96	6,18E-05	0,60	1,06E-03	1,39	1,18E-16
ENSG00000104889	<i>RNASEH2A</i>	0,64	2,17E-05	0,61	8,23E-05	0,57	9,57E-07	0,50	2,22E-05
ENSG00000115216	<i>NRBP1</i>	0,25	7,36E-04	0,29	8,26E-05	0,42	8,96E-06	0,39	4,32E-05
ENSG00000198964	<i>SGMS1</i>	0,78	2,58E-09	0,55	8,75E-05	1,33	1,17E-32	0,79	1,22E-11
ENSG00000004961	<i>HCCS</i>	0,43	4,45E-03	0,57	1,09E-04	0,66	3,31E-06	1,11	2,29E-16
ENSG00000187134	<i>AKR1C1</i>	1,68	5,78E-140	0,28	1,37E-04	1,02	3,57E-24	0,66	1,75E-10
ENSG00000119638	<i>NEK9</i>	0,66	2,75E-11	0,40	1,48E-04	0,48	4,72E-08	0,50	1,51E-08
ENSG00000196922	<i>ZNF252</i>	0,83	5,00E-11	0,50	2,26E-04	0,70	1,21E-08	0,37	4,83E-03
ENSG00000187546	<i>TMEM195</i>	1,14	7,29E-04	1,24	2,42E-04	0,58	2,23E-07	0,60	1,10E-07
ENSG00000172070	<i>SRXN1</i>	1,20	1,46E-16	0,59	2,74E-04	1,75	3,04E-21	1,08	2,73E-08
ENSG00000185813	<i>PCYT2</i>	0,44	8,40E-09	0,30	2,86E-04	0,24	9,68E-03	0,45	1,56E-07
ENSG00000143653	<i>SCCPDH</i>	0,35	4,75E-04	0,36	4,53E-04	0,79	4,54E-17	0,41	3,68E-05
ENSG00000159348	<i>CYB5R1</i>	0,67	9,39E-05	0,62	4,59E-04	0,85	1,19E-16	0,57	9,55E-08
ENSG00000156587	<i>UBE2L6</i>	0,91	2,70E-11	0,51	6,08E-04	0,70	2,53E-06	0,43	6,71E-03
ENSG00000129562	<i>DAD1</i>	0,25	3,65E-03	0,29	6,73E-04	0,55	4,22E-10	0,27	3,75E-03
ENSG00000095321	<i>CRAT</i>	0,44	6,39E-05	0,38	7,31E-04	0,69	3,56E-08	0,64	4,46E-07
ENSG00000182165	<i>TP53TG1</i>	0,58	2,50E-03	0,65	7,51E-04	0,67	4,88E-03	0,81	5,17E-04
ENSG00000008869	<i>HEATR5B</i>	0,53	1,49E-06	0,39	7,99E-04	0,37	2,10E-03	0,39	1,30E-03
ENSG00000117450	<i>PRDX1</i>	0,55	8,01E-22	0,21	8,01E-04	0,29	6,74E-05	0,30	4,57E-05
ENSG00000171307	<i>ZDHHC16</i>	0,39	8,30E-04	0,40	8,51E-04	0,55	1,41E-05	0,46	4,53E-04
ENSG00000182179	<i>UBA7</i>	0,91	4,96E-08	0,60	8,60E-04	0,88	1,21E-03	0,92	7,21E-04
ENSG00000119946	<i>CNNM1</i>	0,46	8,04E-03	0,56	8,92E-04	0,44	2,20E-03	0,43	3,16E-03
ENSG00000130005	<i>GAMT</i>	0,83	4,14E-21	0,33	9,22E-04	1,01	8,48E-22	0,84	3,66E-15
ENSG00000215039	<i>CD27-AS1</i>	0,81	3,60E-03	0,92	9,38E-04	0,70	8,27E-03	0,83	1,28E-03
ENSG00000138794	<i>CASP6</i>	0,76	7,91E-06	0,59	1,11E-03	0,69	3,30E-06	0,66	1,08E-05
ENSG00000124357	<i>NAGK</i>	0,75	2,67E-08	0,47	1,23E-03	0,94	1,67E-18	0,45	1,10E-04
ENSG00000143036	<i>SLC44A3</i>	0,86	1,89E-04	0,77	1,30E-03	0,66	4,28E-08	0,35	6,66E-03
ENSG00000137575	<i>SDCBP</i>	0,35	2,85E-04	0,32	1,31E-03	0,34	1,09E-03	0,33	1,68E-03
ENSG00000154265	<i>ABCA5</i>	1,47	5,68E-27	0,50	1,31E-03	1,11	2,58E-19	0,58	9,68E-06
ENSG00000145246	<i>ATP10D</i>	1,31	5,36E-09	0,78	1,49E-03	0,42	2,56E-04	0,46	5,07E-05
ENSG00000135637	<i>CCDC142</i>	1,26	9,01E-20	0,50	1,67E-03	0,65	2,01E-05	0,54	5,58E-04
ENSG00000185339	<i>TCN2</i>	2,12	1,04E-11	1,05	2,25E-03	0,60	1,53E-03	0,88	1,32E-06

ENSG00000143545	<i>LOC100131294</i>	0,44	3,44E-03	0,46	2,30E-03	0,38	1,12E-03	0,52	4,08E-06
ENSG00000037042	<i>TUBG2</i>	0,54	1,98E-04	0,46	2,41E-03	0,82	1,66E-07	0,48	4,12E-03
ENSG00000110013	<i>SIAE</i>	0,56	1,83E-05	0,42	2,49E-03	0,99	2,06E-07	0,84	1,35E-05
ENSG00000213366	<i>GSTM2</i>	1,16	9,05E-07	0,77	2,58E-03	1,54	1,76E-09	0,84	2,27E-03
ENSG00000108846	<i>ABCC3</i>	1,08	9,66E-28	0,34	2,63E-03	0,43	5,28E-04	0,72	1,52E-09
ENSG00000166801	<i>FAM11A</i>	1,05	1,59E-10	0,54	3,15E-03	0,60	8,77E-07	0,52	2,75E-05
ENSG00000100612	<i>DHRS7</i>	0,46	7,81E-04	0,41	3,36E-03	1,10	1,64E-27	0,77	1,01E-13
ENSG00000146904	<i>EPHA1</i>	1,81	6,10E-25	0,60	3,40E-03	1,77	1,88E-19	1,05	3,93E-07
ENSG00000121057	<i>AKAP1</i>	0,74	1,49E-20	0,26	3,75E-03	1,16	4,30E-51	0,96	9,29E-35
ENSG00000118418	<i>HMGN3</i>	0,60	2,30E-09	0,32	3,89E-03	0,28	1,95E-03	0,52	1,24E-09
ENSG00000140465	<i>CYP1A1</i>	0,76	5,65E-04	0,66	3,95E-03	1,39	1,49E-47	0,90	2,60E-20
ENSG00000113369	<i>ARRDC3</i>	0,39	2,73E-03	0,39	4,14E-03	1,20	4,40E-14	0,68	5,56E-05
ENSG00000136810	<i>TXN</i>	0,32	8,02E-05	0,25	4,31E-03	0,29	1,90E-03	0,48	6,57E-08
ENSG00000119185	<i>ITGB1BP1</i>	0,50	2,66E-06	0,33	5,03E-03	0,61	7,03E-05	0,46	3,83E-03
ENSG00000076555	<i>ACACB</i>	0,94	1,34E-12	0,41	6,14E-03	1,07	2,14E-09	0,90	8,14E-07
ENSG00000179163	<i>FUCA1</i>	0,60	7,33E-08	0,33	6,45E-03	0,89	1,63E-09	0,58	1,84E-04
ENSG00000214530	<i>STARD10</i>	0,78	6,28E-25	0,24	6,51E-03	0,95	4,81E-16	0,85	9,29E-13
ENSG00000063322	<i>MED29</i>	0,66	5,78E-10	0,32	7,06E-03	0,62	1,44E-07	0,49	6,60E-05
ENSG00000114999	<i>TTL</i>	0,27	2,87E-03	0,24	8,52E-03	0,52	1,56E-08	0,37	1,29E-04
ENSG00000137449	<i>CPEB2</i>	1,17	8,46E-09	0,60	8,65E-03	2,34	6,44E-30	0,73	1,99E-03

S9. Downregulated genes (n=278) after Inc18q22.2 knockdown in HepG2 and Hep3B. FDR<0.01.

Ensembl Gene ID	Official gene name	HepG2				Hep3B			
		KD1 vs Mock		KD2 vs Mock		KD1 vs Mock		KD2 vs Mock	
		log2FoldChange	FDR	log2FoldChange	FDR	log2FoldChange	FDR	log2FoldChange	FDR
ENSG00000132031	<i>MATN3</i>	-3,73	0,00E+00	-2,77	1,01E-252	-0,68	9,04E-07	-0,38	8,92E-03
ENSG00000116016	<i>EPAS1</i>	-0,90	1,70E-51	-1,31	2,10E-106	-0,90	7,37E-30	-0,83	1,13E-25
ENSG00000137801	<i>THBS1</i>	-1,17	1,03E-45	-1,73	2,38E-93	-1,62	3,66E-96	-1,94	1,51E-136

ENSG00000167658	<i>EEF2</i>	-0,42	3,76E-16	-0,94	2,37E-77	-0,33	3,82E-08	-0,83	1,50E-46
ENSG00000147403	<i>RPL10</i>	-0,51	4,27E-19	-1,04	1,83E-75	-0,31	5,49E-05	-1,35	1,86E-75
ENSG00000118523	<i>CTGF</i>	-1,95	8,34E-49	-2,17	6,74E-60	-1,46	3,05E-94	-2,13	3,43E-194
ENSG00000139514	<i>SLC7A1</i>	-1,03	6,47E-47	-1,10	4,54E-52	-1,27	2,52E-39	-1,06	2,57E-28
ENSG00000144677	<i>CTDSPL</i>	-1,77	1,27E-79	-1,37	1,36E-48	-1,47	3,38E-28	-1,39	3,95E-26
ENSG00000142178	<i>SIK1</i>	-1,69	1,51E-61	-1,48	3,27E-47	-1,15	1,73E-30	-1,25	2,21E-36
ENSG00000103257	<i>SLC7A5</i>	-0,31	2,84E-05	-1,01	1,12E-46	-1,03	7,06E-43	-2,14	2,47E-174
ENSG00000142541	<i>RPL13A</i>	-0,78	1,99E-43	-0,76	1,49E-40	-0,69	5,40E-26	-0,38	1,71E-08
ENSG00000198561	<i>CTNND1</i>	-0,56	1,71E-17	-0,86	3,42E-40	-0,79	6,66E-31	-0,71	2,96E-25
ENSG00000185269	<i>NOTUM</i>	-2,01	6,04E-91	-1,31	1,09E-39	-1,75	3,75E-10	-0,73	9,73E-03
ENSG00000087916	<i>SLC6A14</i>	-3,15	1,12E-65	-2,26	3,19E-39	-1,64	4,69E-10	-1,39	1,25E-07
ENSG00000171552	<i>BCL2L1</i>	-0,50	5,19E-18	-0,73	1,69E-36	-0,41	9,72E-09	-1,12	6,42E-59
ENSG00000142534	<i>RPS11</i>	-0,76	3,65E-41	-0,71	4,87E-36	-0,57	4,61E-15	-0,38	2,85E-07
ENSG00000112414	<i>GPR126</i>	-1,32	1,86E-78	-0,87	4,08E-34	-1,50	7,75E-87	-0,43	4,08E-08
ENSG00000101346	<i>POFUT1</i>	-0,55	1,58E-11	-0,98	1,35E-33	-0,86	1,08E-20	-1,53	6,90E-62
ENSG00000106804	<i>C5</i>	-1,44	4,65E-97	-0,84	5,17E-33	-0,30	1,34E-03	-0,66	4,08E-14
ENSG00000166900	<i>STX3</i>	-0,72	4,42E-10	-1,40	1,55E-32	-0,73	3,16E-18	-1,41	1,12E-63
ENSG00000175061	<i>NCRNA00188</i>	-0,65	1,37E-16	-0,93	5,19E-32	-0,60	5,61E-14	-0,44	8,43E-08
ENSG00000132688	<i>NES</i>	-1,89	2,37E-62	-1,30	1,90E-31	-1,12	4,44E-49	-0,76	1,05E-23
ENSG00000173706	<i>HEG1</i>	-0,95	3,24E-29	-1,00	2,59E-31	-0,68	9,05E-15	-1,10	8,30E-37
ENSG00000152291	<i>TGOLN2</i>	-0,44	9,26E-13	-0,71	1,05E-30	-1,09	3,83E-49	-0,49	8,29E-11
ENSG00000141458	<i>NPC1</i>	-0,99	9,75E-38	-0,89	2,02E-30	-0,28	7,14E-03	-0,92	2,15E-21
ENSG00000124766	<i>SOX4</i>	-1,03	1,28E-14	-1,56	3,46E-30	-0,70	3,82E-23	-1,22	6,24E-68
ENSG00000167470	<i>MIDN</i>	-0,99	1,98E-28	-1,02	1,23E-29	-1,45	8,64E-36	-1,70	1,27E-48
ENSG00000175215	<i>CTDSP2</i>	-0,28	4,77E-04	-0,85	1,35E-29	-0,42	9,57E-07	-1,27	2,25E-52
ENSG00000130741	<i>EIF2S3</i>	-0,75	5,41E-25	-0,81	3,92E-28	-1,36	2,11E-58	-0,85	2,32E-24
ENSG00000082781	<i>ITGB5</i>	-1,07	1,27E-51	-0,78	4,81E-28	-0,43	3,29E-05	-0,50	1,17E-06
ENSG00000147526	<i>TACC1</i>	-1,34	4,34E-39	-1,10	1,14E-26	-0,85	3,66E-21	-1,35	1,42E-50
ENSG00000057019	<i>DCBLD2</i>	-0,87	4,20E-31	-0,81	2,60E-26	-0,89	2,06E-22	-0,69	3,11E-14
ENSG00000169242	<i>EFNA1</i>	-1,18	2,91E-46	-0,88	7,64E-26	-0,83	7,16E-12	-0,85	2,01E-12
ENSG00000063046	<i>EIF4B</i>	-0,39	5,20E-10	-0,65	8,41E-26	-0,55	3,69E-13	-0,34	1,83E-05
ENSG00000176619	<i>LMNB2</i>	-0,38	1,32E-04	-0,98	8,98E-26	-0,38	7,59E-05	-1,74	4,41E-83
ENSG00000115363	<i>FAM176A</i>	-0,66	1,69E-09	-1,15	4,69E-25	-0,65	1,27E-03	-0,75	1,59E-04

ENSG00000111371	<i>SLC38A1</i>	-1,10	1,11E-63	-0,69	5,46E-25	-0,63	1,09E-16	-0,58	2,65E-14
ENSG00000143515	<i>ATP8B2</i>	-0,56	1,62E-10	-0,90	3,18E-24	-0,26	2,31E-03	-0,91	1,25E-29
ENSG00000188846	<i>RPL14</i>	-0,57	1,48E-21	-0,60	1,73E-23	-0,82	2,35E-26	-0,56	7,69E-13
ENSG00000113739	<i>STC2</i>	-1,67	5,88E-69	-0,95	2,63E-23	-0,94	1,37E-13	-1,21	9,58E-22
ENSG00000003989	<i>SLC7A2</i>	-1,78	1,99E-88	-0,90	2,88E-23	-1,03	6,32E-24	-1,36	5,10E-41
ENSG00000142949	<i>PTPRF</i>	-0,59	2,39E-16	-0,71	3,11E-23	-0,74	7,71E-27	-0,61	1,72E-18
ENSG00000170889	<i>RPS9</i>	-0,66	1,45E-28	-0,59	4,13E-23	-0,63	7,72E-16	-0,39	1,03E-06
ENSG00000070756	<i>PABPC1</i>	-0,64	4,84E-24	-0,63	5,71E-23	-0,78	4,68E-27	-0,42	1,76E-08
ENSG00000171314	<i>PGAM1</i>	-1,20	6,56E-48	-0,81	2,93E-22	-1,22	1,59E-26	-1,96	9,40E-64
ENSG00000148411	<i>NACC2</i>	-0,32	8,63E-03	-1,09	4,48E-22	-0,35	5,36E-04	-1,54	3,84E-54
ENSG00000096696	<i>DSP</i>	-1,07	1,91E-54	-0,67	2,31E-21	-0,58	3,30E-17	-0,36	3,91E-07
ENSG00000112306	<i>RPS12</i>	-0,85	2,44E-42	-0,60	3,86E-21	-0,84	1,71E-28	-0,31	1,64E-04
ENSG00000088930	<i>XRN2</i>	-0,27	1,42E-04	-0,63	1,42E-20	-0,62	1,15E-15	-0,33	3,31E-05
ENSG00000196576	<i>PLXNB2</i>	-0,31	1,41E-04	-0,72	1,90E-20	-0,79	3,03E-29	-0,56	3,78E-15
ENSG00000078269	<i>SYNJ2</i>	-1,19	6,03E-61	-0,68	2,05E-20	-0,59	6,45E-12	-0,25	5,89E-03
ENSG00000128272	<i>ATF4</i>	-0,44	2,25E-13	-0,56	2,43E-20	-0,46	3,24E-13	-0,64	1,76E-25
ENSG00000149273	<i>RPS3</i>	-0,52	4,27E-20	-0,53	3,11E-20	-0,53	1,08E-09	-0,28	3,19E-03
ENSG00000127863	<i>TNFRSF19</i>	-1,20	2,20E-43	-0,80	4,15E-20	-0,93	9,59E-16	-0,63	4,23E-08
ENSG00000133657	<i>ATP13A3</i>	-0,81	3,77E-26	-0,70	1,01E-19	-0,22	8,96E-03	-0,66	1,80E-17
ENSG00000198034	<i>RPS4X</i>	-0,53	5,98E-15	-0,61	1,21E-19	-0,83	3,15E-29	-0,54	4,61E-13
ENSG00000070614	<i>NDST1</i>	-0,33	7,34E-05	-0,73	1,22E-19	-0,47	2,05E-11	-1,10	2,71E-58
ENSG00000136237	<i>RAPGEF5</i>	-0,84	1,11E-18	-0,87	2,19E-19	-0,48	2,09E-06	-0,98	1,67E-23
ENSG00000055163	<i>CYFIP2</i>	-0,61	5,68E-12	-0,80	5,16E-19	-1,14	3,97E-09	-0,70	3,27E-04
ENSG00000120254	<i>MTHFD1L</i>	-0,96	1,86E-26	-0,80	1,21E-18	-1,05	1,06E-22	-0,69	1,47E-10
ENSG00000100364	<i>C22ORF9</i>	-0,49	6,84E-07	-0,85	1,26E-18	-0,36	1,27E-03	-1,27	5,85E-32
ENSG00000101444	<i>AHCY</i>	-1,02	2,56E-50	-0,62	1,48E-18	-1,04	6,15E-41	-0,45	1,63E-08
ENSG00000131236	<i>CAP1</i>	-0,21	3,52E-03	-0,58	1,75E-18	-0,26	1,37E-03	-0,41	1,29E-07
ENSG00000147677	<i>EIF3H</i>	-0,25	2,53E-03	-0,68	1,75E-18	-0,35	5,01E-06	-0,86	7,40E-31
ENSG00000138074	<i>SLC5A6</i>	-0,82	3,89E-24	-0,71	3,41E-18	-0,84	2,08E-14	-0,60	5,30E-08
ENSG00000092758	<i>COL9A3</i>	-1,39	9,09E-30	-1,07	7,97E-18	-1,07	1,66E-07	-0,68	1,08E-03
ENSG00000215021	<i>PHB2</i>	-0,44	3,33E-10	-0,61	9,11E-18	-0,89	3,13E-28	-0,45	3,79E-08
ENSG00000122406	<i>RPL5</i>	-0,71	2,24E-32	-0,52	1,92E-17	-0,75	1,00E-30	-0,21	2,80E-03

ENSG00000147324	<i>MFHAS1</i>	-0,40	2,48E-04	-0,89	2,00E-17	-1,07	4,03E-20	-1,61	1,39E-42
ENSG00000141568	<i>FOXK2</i>	-0,38	3,70E-06	-0,67	4,39E-17	-0,74	4,12E-14	-0,91	1,27E-20
ENSG00000142676	<i>RPL11</i>	-0,53	3,69E-17	-0,53	4,43E-17	-0,44	4,80E-09	-0,23	3,12E-03
ENSG00000133275	<i>CSNK1G2</i>	-0,63	1,24E-08	-0,92	8,73E-17	-0,56	1,09E-06	-0,84	9,94E-14
ENSG00000197081	<i>IGF2R</i>	-0,65	2,27E-28	-0,50	1,32E-16	-0,99	1,84E-48	-0,64	3,40E-21
ENSG00000100316	<i>LOC653881</i>	-0,61	4,52E-24	-0,51	1,80E-16	-0,80	1,12E-30	-0,23	2,46E-03
ENSG00000164171	<i>ITGA2</i>	-1,94	2,57E-111	-0,71	1,89E-16	-0,43	3,14E-03	-0,61	1,71E-05
ENSG00000165238	<i>WNK2</i>	-0,75	8,59E-12	-0,91	1,89E-16	-0,82	2,48E-10	-0,81	3,46E-10
ENSG00000125398	<i>SOX9</i>	-0,72	1,28E-16	-0,72	2,13E-16	-1,71	4,92E-91	-0,63	1,58E-14
ENSG00000182272	<i>B4GALNT4</i>	-2,08	3,53E-46	-1,13	1,09E-15	-1,64	3,90E-14	-0,93	1,88E-05
ENSG00000167635	<i>ZNF146</i>	-0,73	1,37E-15	-0,74	1,26E-15	-1,92	4,43E-90	-0,43	8,15E-06
ENSG00000171490	<i>RSL1D1</i>	-0,22	6,51E-04	-0,50	1,74E-15	-0,72	3,24E-21	-0,55	1,12E-12
ENSG00000110700	<i>RPS13</i>	-0,60	1,06E-22	-0,50	1,98E-15	-0,61	8,12E-16	-0,22	6,87E-03
ENSG00000144713	<i>RPL32</i>	-0,73	3,05E-28	-0,53	3,28E-15	-0,50	7,34E-12	-0,34	8,15E-06
ENSG00000077782	<i>FGFR1</i>	-0,68	3,97E-10	-0,83	1,63E-14	-0,78	5,88E-07	-0,75	1,77E-06
ENSG00000158985	<i>CDC42SE2</i>	-0,48	1,69E-06	-0,77	1,68E-14	-0,53	2,37E-05	-1,07	2,18E-18
ENSG00000070669	<i>ASNS</i>	-1,73	1,15E-67	-0,77	2,42E-14	-1,00	2,41E-23	-0,65	9,83E-11
ENSG00000133195	<i>SLC39A11</i>	-0,76	9,20E-07	-1,18	2,65E-14	-0,77	3,52E-07	-1,12	4,45E-14
ENSG00000187109	<i>NAP1L1</i>	-1,17	6,70E-65	-0,53	4,83E-14	-1,37	1,61E-66	-0,26	2,59E-03
ENSG00000140443	<i>IGF1R</i>	-0,63	2,50E-18	-0,55	5,15E-14	-0,74	1,12E-13	-0,73	1,38E-13
ENSG00000166441	<i>RPL27A</i>	-0,74	9,45E-24	-0,57	5,52E-14	-0,72	3,74E-20	-0,24	5,89E-03
ENSG00000162889	<i>MAPKAPK2</i>	-0,59	7,39E-09	-0,77	1,03E-13	-1,19	2,63E-33	-1,42	1,30E-46
ENSG00000166986	<i>MARS</i>	-0,87	1,11E-33	-0,55	1,33E-13	-0,88	1,84E-26	-0,29	9,67E-04
ENSG00000079432	<i>CIC</i>	-0,81	8,45E-16	-0,76	1,56E-13	-0,81	1,16E-15	-0,67	2,34E-11
ENSG00000133112	<i>LOC285741</i>	-0,69	1,73E-25	-0,50	1,63E-13	-0,51	1,46E-13	-0,24	9,67E-04
ENSG00000144711	<i>IQSEC1</i>	-0,29	9,10E-04	-0,61	2,26E-13	-0,42	5,61E-05	-0,51	1,19E-06
ENSG00000108298	<i>RPL19</i>	-0,47	1,76E-14	-0,46	2,29E-13	-0,42	1,73E-11	-0,18	7,99E-03
ENSG00000140988	<i>RPS2</i>	-0,47	5,62E-13	-0,47	3,58E-13	-0,67	1,94E-24	-0,31	7,83E-06
ENSG00000035928	<i>RFC1</i>	-0,38	3,83E-07	-0,53	3,93E-13	-0,60	8,25E-15	-0,93	5,81E-34
ENSG00000142937	<i>RPS8</i>	-0,63	1,68E-17	-0,55	4,66E-13	-0,57	1,79E-14	-0,22	6,90E-03
ENSG00000116584	<i>ARHGEF2</i>	-0,83	1,12E-08	-1,05	1,12E-12	-1,39	6,24E-44	-1,68	3,26E-63
ENSG00000157827	<i>FMNL2</i>	-1,36	5,00E-77	-0,53	1,74E-12	-0,63	2,40E-12	-0,51	1,94E-08

ENSG00000138095	<i>LRPPRC</i>	-0,64	4,53E-26	-0,44	2,24E-12	-0,59	2,37E-15	-0,43	2,53E-08
ENSG00000103429	<i>BFAR</i>	-0,26	9,83E-04	-0,52	2,58E-12	-0,29	4,16E-03	-0,30	3,56E-03
ENSG00000205730	<i>ITPRIPL2</i>	-0,78	4,07E-13	-0,76	3,79E-12	-1,29	7,08E-13	-1,77	3,13E-22
ENSG00000146729	<i>GBAS</i>	-0,53	1,84E-05	-0,84	4,59E-12	-0,75	5,64E-10	-1,13	5,22E-21
ENSG00000169908	<i>TM4SF1</i>	-1,73	3,75E-101	-0,58	7,12E-12	-1,49	1,80E-05	-1,01	4,74E-03
ENSG00000087266	<i>SH3BP2</i>	-0,77	1,57E-09	-0,88	1,09E-11	-0,57	1,19E-04	-1,34	4,59E-20
ENSG00000137818	<i>RPLP1</i>	-0,64	5,76E-17	-0,53	1,50E-11	-0,89	7,63E-26	-0,61	1,50E-12
ENSG00000103187	<i>COTL1</i>	-1,89	1,18E-48	-0,84	1,81E-11	-1,04	1,54E-13	-0,51	3,85E-04
ENSG00000137309	<i>HMGA1</i>	-1,06	3,54E-38	-0,57	2,50E-11	-1,40	9,82E-67	-0,49	3,29E-09
ENSG00000168758	<i>SEMA4C</i>	-1,24	3,10E-31	-0,72	2,76E-11	-0,54	1,70E-06	-0,31	9,26E-03
ENSG00000128829	<i>EIF2AK4</i>	-0,81	1,17E-27	-0,51	2,84E-11	-1,08	9,31E-21	-0,69	2,07E-09
ENSG00000198858	<i>C19ORF22</i>	-0,53	5,36E-07	-0,70	3,50E-11	-0,48	4,25E-06	-0,58	2,42E-08
ENSG00000137166	<i>FOXP4</i>	-0,41	3,68E-05	-0,64	3,71E-11	-0,94	1,54E-22	-0,67	2,14E-12
ENSG00000168488	<i>ATXN2L</i>	-0,34	5,66E-06	-0,48	6,36E-11	-0,27	1,13E-03	-0,59	4,62E-14
ENSG00000146433	<i>TMEM181</i>	-0,91	1,10E-34	-0,50	7,15E-11	-0,28	2,18E-03	-0,80	1,63E-21
ENSG00000128342	<i>LIF</i>	-0,71	2,08E-04	-1,24	7,23E-11	-2,25	5,80E-30	-1,40	8,51E-14
ENSG00000260032	<i>LINC00657</i>	-0,33	1,10E-06	-0,43	8,35E-11	-0,31	1,49E-04	-0,50	2,28E-10
ENSG00000101384	<i>JAG1</i>	-0,55	1,68E-13	-0,49	9,12E-11	-1,41	1,52E-95	-0,53	2,00E-14
ENSG00000116962	<i>NID1</i>	-0,83	1,63E-36	-0,44	1,01E-10	-0,77	6,17E-24	-0,48	7,43E-10
ENSG00000145425	<i>LOC100130107</i>	-0,71	1,94E-18	-0,53	1,08E-10	-0,74	5,80E-28	-0,30	3,01E-05
ENSG00000182606	<i>TRAK1</i>	-0,75	3,34E-20	-0,54	1,77E-10	-0,37	4,97E-03	-0,47	2,32E-04
ENSG00000189221	<i>MAOA</i>	-0,38	2,05E-04	-0,64	1,89E-10	-0,47	2,46E-03	-0,53	4,92E-04
ENSG00000185624	<i>P4HB</i>	-0,52	2,77E-17	-0,40	2,01E-10	-0,79	5,28E-29	-0,93	2,07E-39
ENSG00000141905	<i>NFIC</i>	-0,87	9,54E-10	-0,92	2,47E-10	-0,51	1,26E-04	-0,49	2,84E-04
ENSG00000142089	<i>IFITM3</i>	-1,02	1,07E-18	-0,74	2,54E-10	-0,43	1,88E-06	-0,54	1,21E-09
ENSG00000132970	<i>WASF3</i>	-0,87	8,19E-12	-0,81	3,00E-10	-0,85	1,61E-05	-0,95	1,24E-06
ENSG00000184640	<i>SEPT9</i>	-0,20	4,52E-03	-0,42	3,00E-10	-0,46	3,98E-12	-0,35	2,77E-07
ENSG00000007047	<i>MARK4</i>	-0,76	5,81E-08	-0,88	4,47E-10	-1,31	2,36E-21	-0,82	2,00E-09
ENSG00000175727	<i>MLXIP</i>	-0,28	9,27E-03	-0,64	6,01E-10	-0,41	2,91E-04	-1,29	1,72E-31
ENSG00000182319	<i>SGK223</i>	-1,04	1,79E-21	-0,69	6,75E-10	-0,68	7,17E-07	-0,46	1,10E-03
ENSG00000116017	<i>ARID3A</i>	-0,31	2,48E-04	-0,51	7,01E-10	-0,86	8,41E-27	-0,65	8,90E-16
ENSG00000142192	<i>APP</i>	-1,03	2,56E-46	-0,46	7,17E-10	-0,43	7,85E-13	-0,30	1,33E-06

ENSG00000168615	<i>ADAM9</i>	-0,95	3,53E-42	-0,44	9,03E-10	-0,52	2,60E-11	-0,22	9,44E-03
ENSG00000047457	<i>CP</i>	-2,40	1,92E-44	-1,10	1,09E-09	-1,77	7,74E-45	-0,54	2,16E-05
ENSG00000175826	<i>DULLARD</i>	-0,78	1,06E-08	-0,85	1,09E-09	-1,69	1,31E-29	-1,90	5,08E-37
ENSG00000167491	<i>GATAD2A</i>	-0,48	3,13E-06	-0,62	1,17E-09	-1,10	7,10E-27	-0,88	3,84E-18
ENSG00000084652	<i>TXLNA</i>	-0,41	5,35E-07	-0,49	1,38E-09	-1,03	3,29E-27	-0,47	1,27E-06
ENSG00000100065	<i>CARD10</i>	-0,76	5,01E-19	-0,53	1,59E-09	-0,34	1,20E-03	-0,28	7,71E-03
ENSG00000100422	<i>CERK</i>	-0,46	1,91E-06	-0,58	1,98E-09	-1,31	4,40E-35	-0,99	5,68E-21
ENSG00000159128	<i>IFNGR2</i>	-0,78	1,19E-10	-0,73	3,14E-09	-0,65	1,21E-06	-0,74	2,42E-08
ENSG00000065060	<i>UHRF1BP1</i>	-0,31	9,76E-05	-0,46	3,37E-09	-0,42	4,28E-05	-1,57	2,77E-57
ENSG00000134686	<i>PHC2</i>	-0,78	1,62E-21	-0,50	3,52E-09	-0,92	7,71E-21	-0,57	7,47E-09
ENSG00000163435	<i>ELF3</i>	-1,34	1,05E-10	-1,23	5,14E-09	-0,48	4,25E-05	-0,65	1,70E-08
ENSG00000124226	<i>RNF114</i>	-0,25	4,15E-03	-0,47	6,67E-09	-0,90	1,72E-22	-0,99	4,12E-27
ENSG00000008282	<i>SYPL1</i>	-0,49	3,47E-07	-0,57	7,20E-09	-0,95	3,23E-23	-0,74	6,02E-15
ENSG00000163584	<i>RPL22L1</i>	-1,09	6,32E-14	-0,85	9,01E-09	-1,26	6,58E-20	-0,54	1,08E-04
ENSG00000113387	<i>SUB1</i>	-0,26	2,07E-03	-0,46	1,22E-08	-0,33	3,23E-06	-0,65	1,55E-21
ENSG00000088826	<i>SMOX</i>	-0,42	1,62E-03	-0,75	1,24E-08	-0,98	1,28E-11	-0,62	2,49E-05
ENSG00000103005	<i>C16ORF57</i>	-0,27	6,12E-03	-0,53	1,24E-08	-0,73	1,23E-12	-0,50	1,58E-06
ENSG00000129473	<i>BCL2L2</i>	-0,52	4,91E-09	-0,51	1,53E-08	-0,65	7,61E-08	-0,92	1,06E-14
ENSG00000130723	<i>BAT2L1</i>	-0,25	9,31E-04	-0,41	2,22E-08	-0,35	1,53E-06	-0,24	2,25E-03
ENSG00000188559	<i>RALGAPA2</i>	-1,02	1,21E-32	-0,50	2,22E-08	-1,41	4,80E-40	-0,31	6,05E-03
ENSG00000143384	<i>MCL1</i>	-1,25	3,09E-67	-0,42	2,23E-08	-1,50	1,35E-98	-0,89	3,62E-36
ENSG00000101040	<i>ZMYND8</i>	-0,65	1,76E-20	-0,41	2,42E-08	-0,76	3,72E-19	-0,32	3,49E-04
ENSG00000181789	<i>COPG</i>	-0,21	8,90E-03	-0,42	2,78E-08	-0,47	4,50E-09	-1,43	3,74E-73
ENSG00000136295	<i>TTYH3</i>	-0,85	1,94E-31	-0,42	2,82E-08	-0,27	3,71E-03	-0,29	1,76E-03
ENSG00000100889	<i>PCK2</i>	-0,58	3,11E-16	-0,40	3,09E-08	-0,80	2,34E-10	-1,43	5,65E-30
ENSG00000008988	<i>RPS20</i>	-0,51	1,70E-15	-0,37	3,25E-08	-0,55	1,36E-12	-0,28	6,01E-04
ENSG00000145907	<i>G3BP1</i>	-0,30	1,91E-05	-0,39	3,66E-08	-0,59	1,30E-16	-0,38	2,59E-07
ENSG00000135486	<i>HNRNPA1</i>	-0,24	1,03E-03	-0,37	6,67E-08	-0,64	5,10E-26	-0,27	1,98E-05
ENSG00000116539	<i>ASH1L</i>	-0,55	3,99E-07	-0,59	9,45E-08	-0,71	4,30E-17	-0,26	3,72E-03
ENSG00000090621	<i>PABPC4</i>	-0,62	4,31E-13	-0,47	9,83E-08	-0,91	8,53E-23	-0,35	3,72E-04
ENSG00000142453	<i>CARM1</i>	-0,95	6,35E-20	-0,57	1,00E-07	-1,11	3,68E-22	-1,19	1,58E-25
ENSG00000077232	<i>DNAJC10</i>	-0,34	1,07E-06	-0,37	1,21E-07	-0,32	4,23E-04	-1,13	4,65E-41

ENSG00000101255	<i>TRIB3</i>	-0,38	2,96E-07	-0,40	1,35E-07	-0,27	8,91E-03	-1,97	6,28E-91
ENSG00000169813	<i>HNRNPF</i>	-0,21	2,99E-03	-0,36	1,75E-07	-0,65	4,35E-21	-0,39	4,96E-08
ENSG00000171206	<i>TRIM8</i>	-0,50	1,34E-04	-0,68	1,80E-07	-0,51	2,12E-04	-0,62	4,26E-06
ENSG00000118579	<i>MED28</i>	-0,44	1,83E-06	-0,48	1,83E-07	-0,62	3,20E-09	-1,02	3,70E-23
ENSG00000135966	<i>TGFBRAP1</i>	-0,57	2,11E-09	-0,51	1,94E-07	-0,92	2,24E-12	-0,85	6,40E-11
ENSG0000010818	<i>HIVEP2</i>	-1,47	1,11E-24	-0,73	4,94E-07	-1,26	3,10E-19	-1,28	4,14E-20
ENSG00000166197	<i>NOLC1</i>	-0,72	2,58E-20	-0,41	5,86E-07	-1,85	2,91E-99	-0,40	7,55E-06
ENSG0000011009	<i>LYPLA2</i>	-0,40	2,03E-04	-0,53	5,91E-07	-1,44	1,06E-36	-1,89	1,16E-60
ENSG00000147459	<i>DOCK5</i>	-0,40	1,50E-04	-0,52	6,52E-07	-0,60	1,20E-07	-0,71	2,46E-10
ENSG00000132640	<i>BTBD3</i>	-1,01	1,03E-22	-0,53	6,53E-07	-1,18	9,53E-26	-0,34	4,41E-03
ENSG00000142207	<i>URB1</i>	-0,40	2,98E-05	-0,48	7,87E-07	-0,93	1,92E-19	-0,50	1,99E-06
ENSG00000198369	<i>SPRED2</i>	-0,49	4,42E-10	-0,39	8,77E-07	-0,54	8,94E-09	-0,38	8,46E-05
ENSG00000099942	<i>CRKL</i>	-0,45	1,20E-07	-0,42	9,36E-07	-0,78	6,59E-22	-1,05	1,30E-38
ENSG00000234741	<i>GAS5</i>	-0,56	1,69E-07	-0,53	1,01E-06	-0,95	1,04E-33	-0,38	2,41E-06
ENSG00000197724	<i>PHF2</i>	-0,51	5,12E-05	-0,62	1,12E-06	-0,65	5,00E-09	-0,81	1,58E-13
ENSG00000129250	<i>KIF1C</i>	-0,34	4,95E-05	-0,41	1,19E-06	-1,31	6,37E-86	-0,25	4,01E-04
ENSG00000119383	<i>PPP2R4</i>	-0,35	2,88E-05	-0,41	1,20E-06	-0,94	8,94E-26	-1,12	5,21E-36
ENSG00000137331	<i>IER3</i>	-2,46	9,01E-119	-0,51	1,25E-06	-1,54	3,84E-48	-0,55	4,21E-07
ENSG00000128849	<i>CGNL1</i>	-0,53	2,18E-07	-0,50	1,43E-06	-1,45	1,25E-23	-0,45	2,35E-03
ENSG00000107957	<i>SH3PXD2A</i>	-0,52	8,79E-10	-0,42	1,68E-06	-1,95	1,43E-61	-0,54	3,65E-06
ENSG00000149187	<i>CELF1</i>	-0,48	4,84E-10	-0,37	2,18E-06	-0,89	9,89E-37	-0,31	2,71E-05
ENSG00000102763	<i>KIAA0564</i>	-0,65	2,84E-09	-0,53	2,18E-06	-0,55	1,29E-05	-0,57	6,46E-06
ENSG00000138166	<i>DUSP5</i>	-2,01	2,05E-14	-1,25	2,76E-06	-2,04	2,50E-34	-0,54	1,05E-03
ENSG00000153879	<i>CEBPG</i>	-0,53	1,11E-09	-0,42	3,54E-06	-0,67	4,75E-14	-0,42	4,43E-06
ENSG00000120942	<i>UBIAD1</i>	-0,33	4,50E-03	-0,52	3,80E-06	-0,43	1,36E-03	-0,87	1,49E-11
ENSG00000119559	<i>C19ORF25</i>	-0,60	1,21E-06	-0,58	3,81E-06	-0,85	2,08E-10	-0,56	3,58E-05
ENSG00000197136	<i>PCNXL3</i>	-0,27	8,78E-03	-0,45	4,26E-06	-0,74	3,69E-22	-0,39	5,64E-07
ENSG00000134970	<i>TICAM2</i>	-0,56	2,63E-11	-0,40	5,16E-06	-0,72	2,91E-14	-0,87	3,24E-20
ENSG00000132382	<i>MYBBP1A</i>	-0,38	2,66E-04	-0,47	5,41E-06	-1,28	4,15E-52	-0,41	1,44E-06
ENSG00000150093	<i>ITGB1</i>	-0,74	3,98E-30	-0,32	5,49E-06	-0,56	2,24E-14	-0,25	1,35E-03
ENSG00000206053	<i>HN1L</i>	-0,28	1,48E-03	-0,39	6,16E-06	-1,09	1,29E-48	-1,14	1,42E-53
ENSG00000259974	<i>LINC00261</i>	-0,67	5,21E-20	-0,35	7,02E-06	-0,45	2,55E-08	-0,63	2,32E-15

ENSG00000135069	<i>C8ORF62</i>	-0,32	7,34E-05	-0,36	9,27E-06	-1,04	5,83E-28	-0,58	2,31E-09
ENSG00000177954	<i>RPS27</i>	-0,57	1,88E-11	-0,39	1,08E-05	-0,54	4,57E-13	-0,23	4,05E-03
ENSG00000104885	<i>DOT1L</i>	-0,73	1,86E-16	-0,41	1,09E-05	-0,55	1,08E-06	-0,70	4,01E-10
ENSG00000165802	<i>NELF</i>	-0,96	1,21E-34	-0,37	1,11E-05	-0,93	1,24E-19	-0,31	3,82E-03
ENSG00000025772	<i>TOMM34</i>	-0,65	1,80E-10	-0,47	1,28E-05	-1,66	2,20E-38	-1,41	1,07E-29
ENSG00000139722	<i>VPS37B</i>	-0,65	1,04E-03	-0,87	1,35E-05	-0,74	6,14E-06	-1,03	2,10E-10
ENSG00000112242	<i>E2F3</i>	-0,64	1,53E-06	-0,59	1,86E-05	-0,74	1,16E-18	-0,63	4,43E-14
ENSG00000197498	<i>RPF2</i>	-0,50	7,63E-04	-0,63	2,12E-05	-0,36	4,65E-03	-0,55	9,30E-06
ENSG00000087074	<i>PPP1R15A</i>	-0,90	2,08E-08	-0,70	2,80E-05	-1,19	3,03E-26	-0,51	6,14E-06
ENSG00000148468	<i>FAM171A1</i>	-0,98	3,27E-26	-0,41	3,50E-05	-0,56	1,03E-05	-0,56	1,24E-05
ENSG00000010404	<i>IDS</i>	-1,00	5,06E-11	-0,65	3,61E-05	-0,55	1,06E-03	-0,95	5,84E-09
ENSG00000170027	<i>YWHAG</i>	-0,44	2,69E-10	-0,30	4,00E-05	-0,33	7,60E-06	-0,69	7,86E-23
ENSG00000119231	<i>SENP5</i>	-0,45	1,52E-05	-0,44	4,06E-05	-0,30	4,93E-03	-0,35	1,06E-03
ENSG00000175224	<i>KIAA0652</i>	-0,49	2,13E-09	-0,35	4,53E-05	-1,03	4,57E-25	-0,84	4,32E-17
ENSG00000125944	<i>HNRNPR</i>	-0,27	1,83E-04	-0,29	5,12E-05	-0,74	8,33E-21	-0,31	1,69E-04
ENSG00000132510	<i>KDM6B</i>	-0,68	8,63E-07	-0,56	8,25E-05	-0,28	8,73E-03	-0,30	5,98E-03
ENSG00000189343	<i>RPS2P46</i>	-0,41	1,45E-05	-0,38	8,95E-05	-0,77	9,99E-14	-0,43	6,86E-05
ENSG00000165030	<i>NFIL3</i>	-0,89	5,68E-18	-0,42	1,21E-04	-0,78	4,60E-11	-0,49	4,74E-05
ENSG00000085415	<i>SEH1L</i>	-0,49	4,25E-07	-0,38	1,40E-04	-0,82	8,48E-15	-0,57	9,81E-08
ENSG00000166887	<i>VPS39</i>	-0,33	4,20E-03	-0,43	1,59E-04	-0,93	3,45E-17	-0,63	8,86E-09
ENSG00000128595	<i>CALU</i>	-0,56	3,76E-17	-0,27	1,78E-04	-0,42	1,00E-09	-0,51	6,49E-14
ENSG00000136888	<i>ATP6V1G1</i>	-1,03	4,02E-24	-0,41	1,96E-04	-1,93	1,67E-85	-0,50	2,79E-07
ENSG00000198952	<i>SMG5</i>	-0,66	5,95E-15	-0,34	2,01E-04	-1,34	2,46E-56	-0,41	2,88E-06
ENSG00000101109	<i>STK4</i>	-0,22	6,78E-03	-0,29	2,44E-04	-0,58	8,27E-09	-0,36	5,65E-04
ENSG00000157985	<i>AGAP1</i>	-0,52	9,45E-08	-0,38	2,51E-04	-1,04	2,10E-13	-0,83	2,99E-09
ENSG00000185201	<i>IFITM2</i>	-1,91	2,52E-17	-0,84	2,65E-04	-0,80	1,36E-03	-1,14	3,64E-06
ENSG00000173020	<i>ADRBK1</i>	-0,40	5,43E-06	-0,33	2,67E-04	-0,36	1,80E-04	-0,64	4,48E-12
ENSG00000166526	<i>ZNF3</i>	-0,48	1,42E-05	-0,42	2,70E-04	-1,17	7,67E-23	-0,44	3,09E-04
ENSG00000173065	<i>C17ORF63</i>	-0,75	3,99E-08	-0,52	2,81E-04	-1,25	7,71E-31	-1,05	1,22E-22
ENSG00000179195	<i>ZNF664</i>	-0,32	1,41E-04	-0,32	2,81E-04	-0,71	7,51E-17	-0,65	1,29E-14
ENSG00000131873	<i>CHSY1</i>	-1,21	4,65E-26	-0,44	2,84E-04	-1,48	3,32E-07	-0,87	3,10E-03
ENSG00000102317	<i>RBM3</i>	-0,62	2,83E-10	-0,38	3,12E-04	-0,75	1,31E-14	-0,31	2,54E-03

ENSG00000103342	<i>GSPT1</i>	-0,27	1,77E-04	-0,26	3,39E-04	-0,74	1,58E-23	-0,28	3,88E-04
ENSG0000011275	<i>RNF216</i>	-0,39	5,92E-05	-0,35	3,61E-04	-0,59	1,80E-11	-0,26	5,05E-03
ENSG00000130702	<i>LAMA5</i>	-0,88	1,92E-21	-0,35	4,24E-04	-0,42	8,81E-07	-0,59	1,58E-12
ENSG00000177410	<i>C20ORF199</i>	-0,53	1,40E-05	-0,44	4,91E-04	-0,95	3,94E-18	-0,57	3,33E-07
ENSG00000160691	<i>SHC1</i>	-0,40	1,58E-06	-0,30	5,54E-04	-1,00	2,97E-42	-0,30	9,43E-05
ENSG00000134086	<i>VHL</i>	-0,25	6,92E-03	-0,31	5,78E-04	-0,56	6,76E-10	-0,79	1,66E-18
ENSG00000218226	<i>TATDN2P2</i>	-1,34	3,38E-12	-0,68	6,99E-04	-0,87	2,18E-04	-1,00	2,03E-05
ENSG00000164543	<i>STK17A</i>	-0,36	4,56E-03	-0,43	7,03E-04	-0,99	9,71E-39	-0,74	1,55E-22
ENSG00000143126	<i>CELSR2</i>	-0,73	5,00E-10	-0,42	7,19E-04	-0,50	2,03E-03	-0,72	6,02E-06
ENSG00000167460	<i>TPM4</i>	-1,05	1,99E-54	-0,25	8,37E-04	-1,33	6,84E-90	-0,35	4,97E-07
ENSG00000132182	<i>NUP210</i>	-0,44	9,19E-08	-0,29	8,65E-04	-0,75	7,44E-21	-0,62	1,86E-14
ENSG00000105568	<i>PPP2R1A</i>	-0,28	2,50E-03	-0,31	8,75E-04	-0,80	1,98E-21	-0,34	1,09E-04
ENSG00000166562	<i>SEC11C</i>	-0,66	1,38E-11	-0,35	9,34E-04	-1,07	1,53E-08	-0,68	4,29E-04
ENSG00000196588	<i>MKL1</i>	-0,65	2,59E-05	-0,53	9,36E-04	-1,22	5,24E-26	-0,37	2,52E-03
ENSG00000101752	<i>MIB1</i>	-0,35	5,90E-05	-0,30	1,14E-03	-0,39	5,80E-06	-0,48	1,05E-08
ENSG00000148426	<i>C10ORF47</i>	-0,90	4,06E-07	-0,60	1,21E-03	-0,54	3,94E-03	-0,54	3,69E-03
ENSG00000085788	<i>DDHD2</i>	-0,58	1,87E-08	-0,36	1,23E-03	-0,58	5,66E-07	-0,48	3,01E-05
ENSG00000108557	<i>RAI1</i>	-0,41	1,62E-03	-0,42	1,30E-03	-0,60	1,09E-07	-0,98	9,49E-19
ENSG00000171456	<i>ASXL1</i>	-0,41	2,96E-07	-0,27	1,30E-03	-0,27	5,13E-04	-0,42	3,02E-08
ENSG00000064309	<i>CDON</i>	-0,58	1,95E-04	-0,52	1,41E-03	-0,73	4,40E-06	-0,73	3,75E-06
ENSG00000188021	<i>UBQLN2</i>	-0,60	1,02E-04	-0,51	1,51E-03	-1,07	9,28E-13	-0,53	4,92E-04
ENSG00000047315	<i>POLR2B</i>	-0,22	4,49E-03	-0,25	1,61E-03	-0,59	6,88E-17	-0,25	8,38E-04
ENSG00000163479	<i>SSR2</i>	-0,46	1,53E-09	-0,26	1,68E-03	-0,57	3,98E-17	-0,33	1,82E-06
ENSG00000142186	<i>SCYL1</i>	-0,64	1,27E-12	-0,30	2,16E-03	-0,39	2,35E-04	-0,35	1,21E-03
ENSG00000100029	<i>PES1</i>	-0,50	4,53E-06	-0,35	2,18E-03	-1,05	1,54E-33	-0,31	8,17E-04
ENSG00000198860	<i>TSEN15</i>	-0,56	1,68E-05	-0,42	2,23E-03	-0,46	1,73E-04	-0,44	3,18E-04
ENSG00000115718	<i>PROC</i>	-0,40	1,43E-06	-0,27	2,47E-03	-1,05	1,34E-07	-0,87	1,36E-05
ENSG00000023445	<i>BIRC3</i>	-0,58	9,99E-03	-0,68	2,51E-03	-1,61	6,73E-21	-0,68	8,45E-05
ENSG00000101294	<i>HM13</i>	-0,29	5,87E-04	-0,26	2,55E-03	-0,25	1,17E-03	-0,27	5,51E-04
ENSG00000146858	<i>ZC3HAV1L</i>	-0,55	7,19E-03	-0,62	2,59E-03	-1,03	2,53E-09	-0,81	3,46E-06
ENSG00000196781	<i>LOC645381</i>	-0,30	1,86E-03	-0,29	2,94E-03	-0,22	8,31E-03	-0,27	1,22E-03
ENSG00000064999	<i>ANKS1A</i>	-0,35	1,13E-03	-0,33	2,95E-03	-0,84	2,74E-17	-0,68	4,24E-12

ENSG00000129187	<i>DCTD</i>	-0,41	7,27E-06	-0,29	3,08E-03	-0,70	3,15E-09	-0,33	7,37E-03
ENSG00000049449	<i>RCN1</i>	-0,96	9,77E-16	-0,38	3,29E-03	-0,84	7,61E-22	-1,29	4,85E-49
ENSG00000183723	<i>CMTM4</i>	-0,49	1,73E-08	-0,28	3,32E-03	-0,52	9,77E-07	-0,84	8,03E-16
ENSG00000117505	<i>DR1</i>	-0,37	5,42E-04	-0,32	3,33E-03	-0,80	3,42E-16	-0,60	1,01E-09
ENSG00000182979	<i>MTA1</i>	-0,56	1,66E-06	-0,36	3,40E-03	-0,50	4,17E-06	-0,30	7,33E-03
ENSG00000155130	<i>MARCKS</i>	-0,48	3,00E-07	-0,29	3,40E-03	-0,91	1,45E-33	-0,22	7,08E-03
ENSG00000131446	<i>MGAT1</i>	-0,54	2,35E-10	-0,27	3,49E-03	-0,81	2,47E-21	-0,46	2,01E-07
ENSG00000132463	<i>GRSF1</i>	-0,30	5,42E-04	-0,26	4,29E-03	-0,72	1,14E-20	-0,83	2,68E-27
ENSG00000198142	<i>ANKRD57</i>	-0,49	8,44E-08	-0,28	4,64E-03	-0,47	3,96E-05	-0,57	3,71E-07
ENSG00000116251	<i>RPL22</i>	-0,53	8,27E-09	-0,28	5,00E-03	-0,57	6,54E-09	-0,38	1,41E-04
ENSG00000160888	<i>IER2</i>	-0,58	2,38E-04	-0,45	6,50E-03	-0,68	5,84E-07	-0,47	7,77E-04
ENSG00000167118	<i>URM1</i>	-0,33	6,29E-03	-0,33	6,94E-03	-0,67	3,16E-08	-0,36	3,96E-03
ENSG00000116478	<i>HDAC1</i>	-0,31	2,96E-04	-0,24	6,95E-03	-0,52	2,42E-10	-0,27	1,59E-03
ENSG00000163930	<i>BAP1</i>	-0,26	4,31E-03	-0,25	7,39E-03	-0,65	2,96E-12	-0,45	2,06E-06
ENSG00000168209	<i>DDIT4</i>	-1,59	3,06E-25	-0,43	7,79E-03	-1,29	1,89E-08	-0,79	7,10E-04
ENSG00000112715	<i>VEGFA</i>	-0,95	1,63E-21	-0,29	8,50E-03	-0,27	2,71E-03	-0,47	5,32E-08
ENSG00000178607	<i>ERN1</i>	-0,95	3,88E-08	-0,49	8,65E-03	-0,96	8,01E-07	-0,80	4,36E-05
ENSG00000166068	<i>SPRED1</i>	-0,51	2,52E-04	-0,39	8,90E-03	-0,55	2,25E-04	-0,40	8,70E-03