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# Transcriptome analysis of peripheral blood mononuclear cells in human subjects following a 36 h fast provides evidence of effects on genes regulating inflammation, apoptosis and energy metabolism

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**Abstract** There is growing interest in the potential health benefits of diets that involve regular periods of fasting. While animal studies have provided compelling evidence that feeding patterns such as alternate-day fasting can increase longevity and reduce incidence of many chronic diseases, the evidence from human studies is much more limited and equivocal. Additionally, although several candidate processes have been proposed to contribute to the health benefits observed in animals, the precise molecular mechanisms responsible remain to be elucidated. The study described here examined the effects of an extended fast on gene transcript profiles in peripheral blood mononuclear cells from ten apparently healthy subjects, comparing transcript profiles after an overnight fast, sampled on four occasions at weekly intervals, with those

observed on a single occasion after a further 24 h of fasting. Analysis of the overnight fasted data revealed marked inter-individual differences, some of which were associated with parameters such as gender and subject body mass. For example, a striking positive association between body mass index and the expression of genes regulated by type 1 interferon was observed. Relatively subtle changes were observed following the extended fast. Nonetheless, the pattern of changes was consistent with stimulation of fatty acid oxidation, alterations in cell cycling and apoptosis and decreased expression of key pro-inflammatory genes. Stimulation of fatty acid oxidation is an expected response, most likely in all tissues, to fasting. The other processes highlighted provide indications of potential mechanisms that could contribute to the putative beneficial effects of intermittent fasting in humans.

**Electronic supplementary material** The online version of this article (doi:10.1007/s12263-014-0432-4) contains supplementary material, which is available to authorized users.

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## Introduction

There is growing interest in the potential health benefits of diets that involve regular periods of fasting (Robertson and Mitchell 2013; Trepanowski et al. 2011). It is postulated that this pattern of eating better reflects the periods of feast and famine that the human genome has evolved to cope with (Halberg et al. 2005). Studies in animals suggest that certain patterns of feeding such as alternate-day fasting may offer similar health benefits to long-term caloric restriction, in terms of increased longevity and reduced risks of developing chronic diseases such as cardiovascular disease (CVD), dementia and certain cancers (Trepanowski et al. 2011). Additionally, intermittent fasting might be considered more readily achievable by human subjects than long-term caloric restriction, although considerable personal commitment and self-control is required to sustain this regimen voluntarily over protracted periods (Heilbronn et al. 2005b).

A range of possible mechanisms underlying the apparent benefits of intermittent fasting has been proposed. These include increased efficiency of metabolic fuel usage, decreased systemic inflammation, reduced circulating IGF and increased cell survival via modulation of apoptosis and enhanced cytoprotection (Robertson and Mitchell 2013). However, the key molecular mechanisms are currently poorly defined. Moreover, the evidence to support health benefits of intermittent fasting in humans is currently rather limited. Studies of individuals choosing to undergo periods of fasting for religious reasons have often provided conflicting findings, perhaps due to limited experimental control in these types of study, or because of inadequately long periods of fasting (Trepanowski et al. 2011). Comparatively few studies of intermittent fasting have been performed with human subjects using well defined and controlled dietary interventions and, even in these cases, the findings are not always consistent (Heilbronn et al. 2005a, b; Johnson et al. 2007; Klempel et al. 2012; Kroeger et al. 2012; Soeters et al. 2009).

The study described here examined the acute effects of a single extended fast on gene transcript profiles in peripheral blood mononuclear cells (PBMC). PBMC have been used as an accessible source of cells for a wide range of human studies. A compromise is often made in selecting these cells, as they are frequently not the primary target for clinical or nutritional interventions. Nonetheless, the comparative ease with which PBMC can be obtained from blood

samples and the scope for serial sampling continue to make them a prime target for future studies and, in particular, for gene/protein expression-based biomarker development. Indeed, current evidence suggests that PBMC may prove useful in biomarker development, through the application of functional genomic techniques, for an increasingly wide range of clinical conditions (Mohr and Liew 2007). Some of these are conditions in which PBMC are directly involved in the disease process. In other cases, PBMC are not known to be directly involved in the pathology of the condition but nonetheless appear to exhibit characteristic responses as the disease develops and progresses. Such responses may reflect the role of PBMC in the body as sentinels (Mohr and Liew 2007). Alternatively, PBMC also exhibit some ectopic expression of tissue-specific genes that may follow a pattern of response indicative of that occurring in less accessible tissues (Liew et al. 2006).

With this in mind, it is important to understand the degree of inter- and intra-individual variation and to characterise both the patterns and magnitude of responses observed in PBMC compared with those in the less accessible target tissues. This information is required not only for assessing the validity of PBMC for biomarker development but also for developing designs of future studies employing functional genomic techniques to ensure appropriate statistical power. We and others have previously described variations in gene transcript profiles of PBMC from apparently healthy human subjects (Eady et al. 2005; Radich et al. 2004; Whitney et al. 2003). Such studies consistently demonstrate substantial inter-individual variation. On the other hand, there is typically much less day-to-day variation between samples from the same individual. In the study described here, the analysis has been extended to compare baseline inter- and intra-individual transcriptome variation with the scale of response to a simple nutritional challenge; in this case an extended (36 h) fast. This work was undertaken as part of the NuGO Proof of Principle Study in which metabolomic and proteomic techniques were also applied to components of blood, urine and saliva to obtain a comprehensive overview of normal phenotypic variation between and within individuals and the response to extended fasting (Baccini et al. 2008; Bouwman et al. 2011; Rubio-Aliaga et al. 2011).

## Materials and methods

The design of the study has been described in detail previously (Baccini et al. 2008). The study was performed in accordance with the principle of the Declaration of Helsinki. Ethical permission for the study was obtained from the North of Scotland Research Ethics Services prior to the

start of the study, and all volunteers gave informed consent. Ten healthy volunteers (3 males and 7 females, body mass index (BMI) range 18.5–39.7 kg/m<sup>2</sup> and age range 25–56 years) were enrolled at the Rowett Institute of Nutrition and Health, University of Aberdeen. The volunteers were asked to come to the Human Nutrition Unit once a week on different days each week during a 4-week period after an overnight fast to provide a blood, saliva and 24 h urine samples. After the fourth sampling day, volunteers were fasted for an additional 24 h (total of 36 h) followed by a final sample collection. Blood was collected into vacutainers containing potassium EDTA anticoagulant. PBMC were isolated using the Optiprep<sup>TM</sup> method as described previously (de Roos et al. 2008). A portion of the PBMC from each sample was transferred immediately to lysis buffer (Qiagen RNEasy Midi kit) and the cells ruptured by passing the lysate through a 21G needle. The lysates were snap frozen and stored at –80 °C. RNA was prepared from the lysates using RNEasy Midi kits according to the manufacturer's instructions and stored at –80 °C. RNA purity and yield were assessed using a Nanodrop 1000 spectrophotometer. Aliquots of the purified RNA samples were used to prepare biotin labelled cDNA using GeneChip Expression 3' Amplification OneCycle Target labelling kits (Affymetrix) and hybridised to Affymetrix human GeneChip<sup>®</sup> arrays custom made for NuGO ([www.nugo.org](http://www.nugo.org)) by ServiceXS (Leiden, Netherlands) using the manufacturer's standard protocols.

#### Array data analysis

Quality control of the array data was performed using a dedicated software pipeline (De Groot et al. 2008). The data were normalised using the GC-RMA method with “full model” option. Only genes with a normalised signal  $\geq 20$  on at least two arrays were considered to be expressed and included in the subsequent statistical analysis. The array data and sample information have been made available in MIAME-compliant format in the ArrayExpress database (accession number E-MTAB-2922).

Data for expressed genes for all 50 samples were analysed on a log<sub>2</sub>-scale within the R software suite using a linear model including effects for subject, BMI, fasting and the interactions of fasting with gender and BMI as well as the three-way interaction of fasting, gender and BMI. The main effects of gender and BMI were analysed separately using the expressed genes dataset for the 40 overnight fasted (baseline) samples arrays only. Probability values were adjusted for multiple testing using the Benjamini Hochberg method for false discovery rate control. Apparent functional relationships between genes identified through these analyses were investigated further using DAVID Bioinformatic Resources 6.7 (da Huang et al.

2009a, b), GO-Elite (Zambon et al. 2012) to test for enrichment of pathways included in Wikipathways ([www.wikipathways.org](http://www.wikipathways.org)) using Cytoscape ([www.cytoscape.org](http://www.cytoscape.org)) for visualisation and BiblioSphere literature mining software (Genomatix Software GmbH, Munich, Germany).

#### Real-time RT-qPCR

The expression profiles of a number of genes, selected on the basis of array data analysis, were checked by real-time RT-qPCR. The RT-qPCR was performed using an ABI Prism 7300 (Applied Biosystems) for each of four test genes (CDKN1A, IER3, CLU and IFI44L) plus the reference gene RNA polymerase II. Expression of the test genes was determined using pre-designed TaqMan<sup>®</sup> Gene Expression Assay kits specific for each gene (Life technologies products Hs00355782\_m1, Hs004187506\_g1, Hs00156548\_m1 and Hs00915292\_m1). The probe and primers used for determination of RNA polymerase II mRNA levels were as described previously (Hurst et al. 2008). A one-step RT-PCR was employed for all genes. Real-time RT-qPCRs were carried out in a 96-well plate using TaqMan<sup>®</sup> 1-step RT-PCR Master Mix Reagent Kits (Life Technologies) in a total volume of 25  $\mu$ l/well consisting of 250 nM probe, 900 nM forward and reverse primers. Test samples (30 ng of total RNA per reaction) were analysed by comparison with a standard curve, included on each plate, consisting of serial dilutions (120, 60, 30, 15 and 7.5 ng/well) of a pooled PBMC RNA reference sample ( $r^2$  for log linear fit of standard curves was  $>0.99$  in all cases). The real-time RT-qPCR conditions were as follows: 48 °C for 30 min, then 95 °C for 10 min, followed by 40 amplification cycles of 95 °C for 15 s and 60 °C for 1 min. Reactions were carried out in triplicate, and data were analysed by the ABI PRISM 7300 detection system software. Within plate intra-assay variation, based on the average coefficient of variations for the triplicate analyses of all test samples, ranged from 5 to 9 % for all genes analysed. The data generated for each of the test genes, using the relative standard curve method, were normalised against the mean value obtained in the same way for RNA polymerase II (Radonic et al. 2004). Pearson correlation analysis was used to compare the array and real-time RT-qPCR data for these genes and linear regression to analyse the relationship between IFI44L mRNA levels and BMI. Paired *t* tests were used to compare mRNA levels for each of the genes, based on the real-time RT-qPCR data, in overnight fasting versus extended fast samples.

#### Results and discussion

The quality control analysis (De Groot et al. 2008) suggested that high quality consistent data were obtained from

all arrays with one possible exception. Standard quality metrics for Affymetrix GeneChip arrays (scaling factors, ratio of signal for 3' and 5' GAPDH and  $\beta$ -actin probes, percentage of genes called "present" and background levels) were all within standard acceptable ranges, except for the one possible outlier (the array for the extended fast sample from volunteer 7) for which the ratio of signal for 3' and 5' GAPDH and  $\beta$ -actin probes were high and both the array–array intensity correlation and Ward cluster analyses performed after data normalisation highlighted this array as a marginal outlier. Based on this, subsequent statistical analyses were performed initially both with and without the data from this array. Comparison of the outputs suggested that exclusion of this array had little effect on the overall findings. Therefore, the full dataset was employed.

Of the 23,941 probesets represented on the array, 10,449 or 10,397 passed the criteria for representing expressed genes (i.e. normalised signals of  $\geq 20$  on at least two of the arrays) in the full set of 50 arrays or the subset of 40 baseline arrays, respectively.

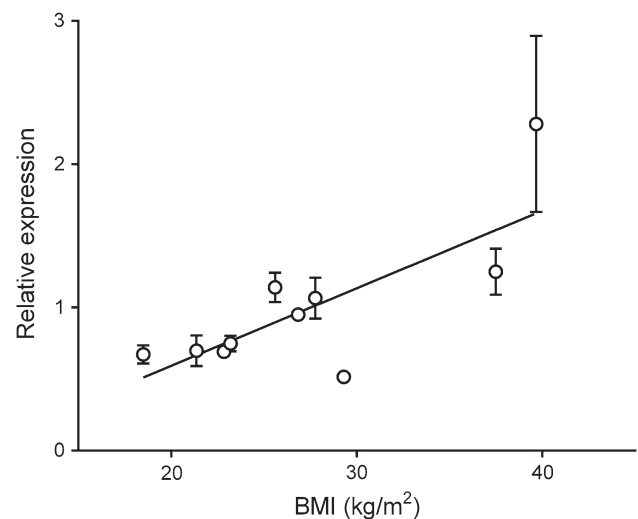
#### Baseline data: association of expression profiles with gender, subject and BMI

The linear model analysis of the 40 baseline array subset incorporating data from the 10,397 probesets for expressed genes suggested significant differences ( $FDR < 5\%$ ) between the genders in the expression of genes represented by 3,013 probesets (29 % of expressed genes) and between subjects in the expression of genes represented by 2,468 probesets (24 % of expressed genes) (online resource 1). As might be expected, many of the genes that exhibited the most marked differences between the genders were found to be located on the X or Y chromosomes (e.g. 16 of the 20 genes with the lowest  $p$  values) and there was notable overlap with genes identified previously as exhibiting highly gender-specific expression (e.g. X- and Y-linked ribosomal proteins S4, Jumonji, AT rich interactive domain 1D, Y-linked DEAD box polypeptide 3, chromosome Y open reading frame 15B, X-linked eukaryotic translation initiation factor 1A and X-linked zinc finger protein) (Eady et al. 2005).

The linear model analysis of the 40 baseline arrays also suggested that BMI was significantly associated with the expression of genes represented by 343 probesets ( $FDR < 5\%$ ; 3 % of expressed genes) (online resource 1). This contrasts with only three genes [CD151 antigen, transforming growth factor beta-induced 68 kDa protein and interferon-induced protein 44-like (IFI44L)] for which significant associations with BMI were observed in our previous study (Eady et al. 2005). Of the three BMI-associated genes identified previously, only IFI44L was represented in the list of genes corresponding to the 343

probesets from the current study. Based on this observation, we selected IFI44L as one of the genes for further analysis by real-time RT-qPCR. The real-time RT-qPCR data obtained closely matched the array data for this gene ( $r = 0.905$ ,  $p < 0.0001$  for the Pearson correlation analysis) and reconfirmed the observation of a positive association between IFI44L mRNA levels and BMI ( $r^2 = 0.405$ ,  $p < 0.0001$ ) (Fig. 1).

Relatively little is known about the function of IFI44L. However, it is one of a group of seven genes that have been put forward as potential biomarkers specific for type 1 IFN bioactivity (Malhotra et al. 2011). All of these genes have IFN-stimulated response element sequences in their promoters close to the sites of initiation of transcription and their expression is increased *in vivo* in PBMC following  $INF\beta$  treatment in multiple sclerosis patients. Transcript levels for all these genes also have been shown to exhibit dose dependent increases in primary PBMC treated *in vitro* with  $INF\beta$  but not with  $INF\gamma$  (Malhotra et al. 2011). Interestingly, of these seven genes, four were present in the list of genes exhibiting significant association with BMI in the current study [IFI44L, myxovirus resistance 1 (MX1), radical S-adenosyl methionine domain-containing 2 (RSAD2) and HECT domain and RCC1-like domain-containing protein 5 (HERC5)] all exhibiting a positive association between BMI and expression levels ( $p < 10^{-5}$ ). A fifth [interferon-induced protein with tetratricopeptide repeats 1 (IFIT1)] fell just outside the criteria set for statistical significance (adjusted  $p$  value = 0.076). The remaining 2 genes (interferon, alpha-inducible protein 27



**Fig. 1** Association of IFI44L mRNA levels in peripheral blood mononuclear cells with BMI of the donors. Real-time RT-qPCR analysis of IFI44L mRNA levels in PBMC samples normalised against expression of the reference gene RNA polymerase II. Error bars indicate mean  $\pm$  SEM for overnight fasted samples ( $n = 4$ ) from each donor. Linear regression analysis results:  $r^2 = 0.405$ , 95 % confidence interval for slope 0.03225–0.07605,  $p < 0.0001$



(IFI27) and ubiquitin-specific peptidase 18 (USP18)] from the set of seven had not been included in the statistical analysis as they failed to meet the criteria set for expressed genes. A number of other genes shown previously to be up-regulated by type 1 IFN in endothelial cells were also present in the list of genes significantly associated with BMI (Indraccolo et al. 2007). These were OASL, OAS1, OAS2, OAS3, RTP4/IFRG28, HERC6, ISG15, SP110 and PSMB9 and the expression of each of these also exhibited an apparent positive association with BMI.

Transcript levels of IFN-regulated genes have been highlighted as exhibiting significant inter-individual variation in PBMC in a number of studies (Eady et al. 2005; Radich et al. 2004; Whitney et al. 2003). To our knowledge, no direct association between increased type 1 IFN activity and obesity in humans has been reported to date. However, in mice, transcription of the IFN $\beta$  gene in white adipose tissue has been shown to be positively associated with body mass (Weisberg et al. 2003), and interferon regulatory factor 7, a master regulator of type 1 IFN response, is up-regulated in white adipose tissue, liver and gastrocnemius muscle in response to high fat diet-induced or genetic obesity (Wang et al. 2013b). IFN $\alpha$ -treated mice exhibit changes in fatty acid metabolism that appear to arise from impacts both on fatty acid synthesis in the liver and lipolysis in fat cells (Feingold et al. 1989, 1992; Margalit et al. 2006) and other members of the IFN regulatory factor family appear to regulate metabolic processes and may play functional roles in some of the pathological conditions associated with obesity (Wang et al. 2013a).

In humans, obese individuals undergoing type 1 IFN therapy for chronic viral hepatitis often exhibit reduced or no response to the treatment and this is associated with lower induction of genes such as MX1, MX2, RSAD2, USP18, IFI6, IFI27, OAS1 and OAS2 in PBMC following the therapy (Aggarwal et al. 2008). This appears to align with observations that PBMCs from individuals with elevated baseline expression of type 1 IFN-regulated genes exhibit reduced responsiveness to IFN $\alpha$  treatment *ex vivo*, as measured by induction of MX1 mRNA levels (Radich et al. 2004) and PBMC isolated from obese individuals exhibit an impaired type 1 IFN response to toll-like receptor ligands (Teran-Cabanillas et al. 2013), suggesting that obesity may lead to abnormal type 1 IFN signalling.

#### Effects of extended fast on PBMC transcription profiles

In contrast to the marked gender, subject and BMI-associated differences in PBMC gene transcript profiles, the effects of the extended fast (36 h), as examined using the full set of arrays, were much more difficult to detect. In fact, using the same criteria (FDR < 5 %) with a linear model also taking into account, gender, BMI and subject

effects, no genes would be considered to be significantly affected by the extended fast. However, using less conservative statistical criteria (unadjusted  $p < 0.05$  and >1.4-fold change in expression), as employed previously in similar human studies (Bouwens et al. 2007), genes represented by 48 probesets would be considered to be significantly affected by the extended fast (Table 1). Of these, 15 had been identified as being differentially expressed in the only previous study of gene expression in PBMCs *in vivo* following varying periods of fasting in human subjects (Bouwens et al. 2007). Expression of 13 of these 15 changed in the same direction as reported previously, including increases also confirmed previously by real-time RT-qPCR in certain PPAR $\alpha$ -regulated genes such as pyruvate dehydrogenase kinase isoform 4 (PDK4), carnitine palmitoyltransferase 1 (CPT1) and carnitine/acylcarnitine translocase (SLC25A20) (Bouwens et al. 2007). Increases in PDK4 and CPT1 are also observed in response to fasting in skeletal muscle where these changes correspond to metabolic shifts to accommodate the fasting state: the increase in PDK4 inhibiting pyruvate dehydrogenase thereby acting to conserve glucose and the increase in CPT1 indicating the up-regulation of fatty acid import into mitochondria for  $\beta$ -oxidation (Pilegaard et al. 2003).

Entrez gene identifiers were obtained for 44 of the 48 probesets identified as apparently being regulated following the extended fast. Of these, 42 mapped to unique identifiers. Gene annotation enrichment analysis, performed with this list of 42 genes using the DAVID Bioinformatic Resources 6.7 (da Huang et al. 2009a, b), identified statistically significant enrichment for a small number of functional annotation categories most of which related to cytokine/chemokine activity (Table 2). In a similar manner, we also used the GO-Elite package to perform over-representation analysis of pathways in WikiPathways (applying the following cutoff:  $z$ -score  $\geq 1.96$ , permuted  $p$  value  $\leq 0.05$  and a minimum of 3 changed genes). A network visualisation the pathways identified and the genes involved in them also emphasised the regulation of certain cytokines and inflammatory responses, or pathways with an important inflammatory component, in response to the extended fast. Additionally, this analysis highlighted over-representation of genes involved in adipogenesis and senescence and autophagy pathways (online resource 2).

Potential functional associations between these genes were investigated further using the BiblioSphere literature mining tool. Of the 42 unique Entrez genes identifiers, 38 genes passed the initial co-citation filter (i.e. 38 of the genes were co-cited in PubMed at the abstract level with at least one other gene in the list either directly or via a common transcription factor). The software was used to generate a network of the 24 genes that were directly co-

**Table 1** Genes affected by the extended fast according to the criteria uncorrected *p* value <0.05 and magnitude of fold change >1.4 as determined using a linear model analysis also taking into account, gender, BMI and subject effects

Probeset ID	GeneName	Fold change	Adjusted <i>p</i> value
207113_s_at	TNF	-1.74	0.00002
202887_s_at	DDIT4	1.64	0.00002
203633_at	CPT1A	1.64	0.00003
203821_at	HBEGF	2.57	0.00005
225207_at	PDK4	2.26	0.00019
207850_at	CXCL3	-1.47	0.00025
201631_s_at	IER3	-1.95	0.00058
202284_s_at	CDKN1A	1.70	0.00060
223217_s_at	NFKBIZ	-1.57	0.00071
203658_at	SLC25A20	1.42	0.00077
207156_at	HIST1H2AG	1.49	0.00126
205239_at	AREG	2.31	0.00173
206283_s_at	TAL1	1.66	0.00198
205114_s_at	CCL3	-2.11	0.00220
224856_at	FKBP5	-1.41	0.00353
201059_at	CTTN	1.50	0.00476
39402_at	IL1B	-2.04	0.00482
206167_s_at	ARHGAP6	1.41	0.00559
202729_s_at	LTBP1	1.49	0.00655
206655_s_at	GPIBB	1.76	0.00723
209774_x_at	CXCL2	-2.06	0.00777
1555938_x_at	VIM	-1.72	0.00783
223717_s_at	ACRBP	1.45	0.01097
207815_at	PF4V1	1.56	0.01284
226188_at	HSPC159	1.55	0.01452
206493_at	ITGA2B	1.47	0.01458
206110_at	HIST1H3H	1.63	0.01473
208791_at	CLU	1.55	0.01535
235739_at	n/a	1.45	0.01675
241036_at	n/a	1.47	0.01763
229943_at	TRIM13	-1.45	0.01846
203574_at	NFIL3	1.50	0.02137
230170_at	OSM	1.55	0.02277
201058_s_at	MYL9	1.52	0.02642
NuGO_eht0298527_at	CLEC1B	1.55	0.02726
NuGO_eht0299289_at	C6orf25	1.40	0.02753
205442_at	MFAP3L	1.55	0.02858
241824_at	n/a	1.46	0.03054
227180_at	ELOVL7	1.51	0.03600
204622_x_at	NR4A2	1.78	0.03866
203936_s_at	MMP9	1.72	0.03998
207826_s_at	ID3	-1.44	0.04005
230097_at	GART	-1.43	0.04148
224823_at	MYLK	1.51	0.04278
229778_at	C12orf39	1.41	0.04288
236610_at	n/a	1.47	0.04456
220496_at	CLEC1B	1.41	0.04753
235885_at	n/a	1.49	0.04801

cited at the abstract level (Fig. 2). This highlighted two main clusters of genes centred on (a) the cyclin-dependent kinase inhibitor CDKN1A and (b) tumour necrosis factor alpha (TNF).

In line with the known function of TNF, many of the genes in the cluster around it are associated with inflammation. In fact, the simultaneous down-regulation of TNF, interleukin 1 $\beta$  (IL1B), the chemokine CXCL2, the immediate early genes IER3 and NFKBIZ is suggestive of a moderate anti-inflammatory response to the extended fast. Both TNF and IL1B are known to stimulate the expression of CXCL2, NFKBIZ and IER3 at the level of the gene transcripts in a variety of cells (Shen et al. 2005; Sparna et al. 2010). As reported previously, multiplex immunoassay analysis of plasma samples from the same subjects showed a small but significant reduction in circulating IL1B protein concentrations that parallels the change in PMBC IL1B mRNA levels observed here (Bouwman et al. 2011). The data from the multiplex immunoassay also identified moderate but significant reductions in certain other inflammatory cytokines and chemokines such as interleukins 8 and 16 and monocyte chemotactic protein-1 (MCP-1/CCL2) (Bouwman et al. 2011). TNF levels also appeared to decrease, but this did not achieve statistical significance. However, virtually all of the analytes detected with this multiplex platform as being significantly increased in plasma following the extended fast were pro-inflammatory molecules (e.g. EN-RAGE, MIP-1 $\beta$ ) or well-established biomarkers of inflammation (e.g. C-reactive protein, ferritin, vascular cell adhesion molecule-1, TIMP-1 and complement 3), suggesting that the extended fast elicited a systemic pro-inflammatory response that may be quite distinct from the effects observed in the PBMC.

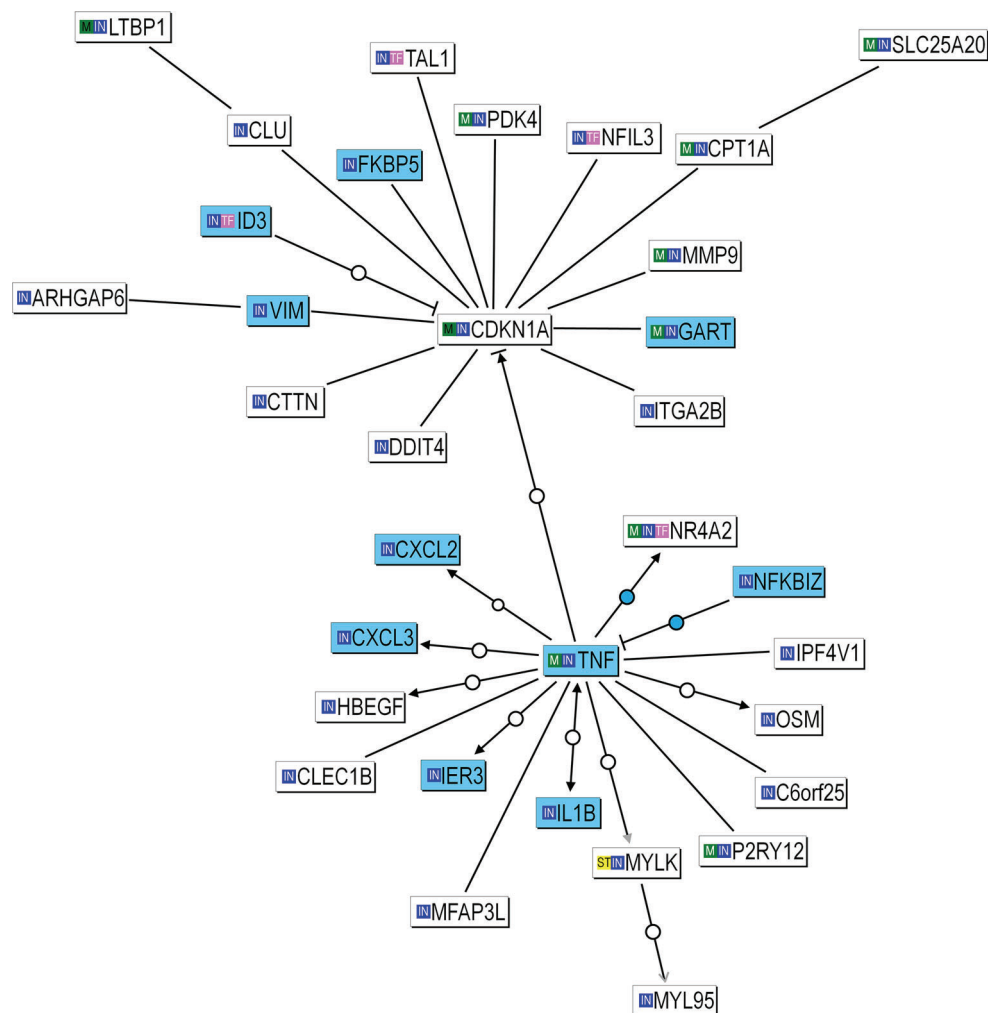
The second cluster of genes centred on CDKN1A. This is not one of the genes that were previously identified as being affected by fasting in PBMC from human volunteers (Bouwens et al. 2007). However, CDKN1A mRNA levels have been reported to increase in a range of tissues (muscle, liver, brain and kidney) in fasted mice (Ebert et al. 2010; Hakvoort et al. 2011; Mitchell et al. 2010; Swindell 2008; Zhang et al. 2011). The cluster of genes around CDKN1A in the network includes a number of genes that regulate cell cycling/proliferation and cellular senescence. This reflects the pivotal role CDKN1A plays in blocking cell cycling and regulating apoptosis following cellular stresses and DNA damage (Jung et al. 2010). Many of the genes in this cluster are known to regulate directly the transcription of CDKN1A, exhibit co-ordinated expression together with CDKN1A or be regulated at the level of transcription through the actions of CDKN1A. For example, ID3, for which the mRNA levels were down-regulated

**Table 2** Gene annotation enrichment analysis, performed using the DAVID Bioinformatic Resources 6.7, of genes identified as being regulated by the extended fast

Category	Term	Gene count	% of list	Raw <i>p</i> value	Adjusted <i>p</i> value <sup>a</sup>
GOTERM_MF_FAT	Cytokine activity (GO:0005125)	7	16.7	$6.96 \times 10^{-6}$	$9.88 \times 10^{-4}$
SP_PIR_KEYWORDS	Cytokine	6	14.3	$3.98 \times 10^{-5}$	$5.87 \times 10^{-3}$
GOTERM_CC_FAT	Extracellular region part (GO:0044421)	10	23.8	$4.23 \times 10^{-4}$	$2.55 \times 10^{-2}$
GOTERM_CC_FAT	Extracellular space (GO:0005615)	9	21.4	$2.18 \times 10^{-4}$	$2.62 \times 10^{-2}$
INTERPRO	Small chemokine, C-X-C, conserved site (IPR018048)	3	7.1	$7.10 \times 10^{-4}$	$3.19 \times 10^{-2}$
INTERPRO	Small chemokine, C-X-C/ Interleukin 8 (IPR002473)	3	7.1	$4.77 \times 10^{-4}$	$3.22 \times 10^{-2}$
GOTERM_BP_FAT	Response to wounding (GO:0009611)	9	21.4	$3.88 \times 10^{-5}$	$3.22 \times 10^{-2}$
PIR_SUPERFAMILY	CXC chemokine (PIRSF002522)	3	7.1	$1.22 \times 10^{-3}$	$3.84 \times 10^{-2}$

<sup>a</sup> Benjamini and Hochberg adjusted *p* value

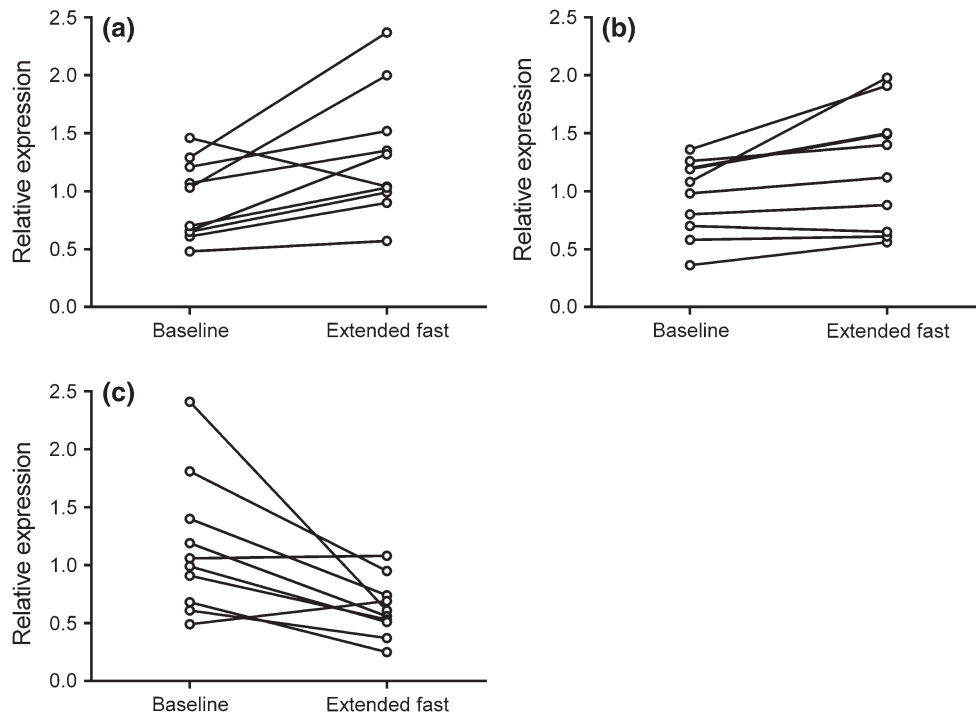
**Fig. 2** Shortest path co-citation network of genes for which transcript levels were significantly altered following extended fast generated using BiblioSphere software. *Open* and *shaded boxes* indicate significant up and down-regulation of transcript levels, respectively. *Lines* indicate genes co-cited within PubMed at the abstract level. *Open arrowheads* indicate evidence of regulation. *Closed arrowheads* indicate evidence of activation. *Blocked arrowheads* indicate evidence of inhibition. *Grey arrowheads* indicate enzymatic modification. *Open circles* indicate connection annotated by Molecular Connections experts. *Shaded circles* indicate connection annotated by Genomatix experts



following the extended fast, inhibits expression of CDKN1A while the transcription factor TAL1, for which the mRNA levels were up-regulated following the

extended fast, is known to bind to the CDKN1A promoter and induce its expression (Lacombe et al. 2010). Expression of DDIT4, for which mRNA levels were up-regulated





**Fig. 3** Effects of an extended fast on the levels of **a** CDKN1A, **b** clusterin and **c** IER3 mRNAs. Each line indicates the relative mRNA levels for a different individual after overnight (baseline) and

extended (36 h) fasts. Real-time RT-qPCR data for each gene were normalised first against levels of the reference gene RNA polymerase II and then against the mean normalised value for the baseline values

following the extended fast, is increased in parallel with increased CDKN1A in response to oxidative and other cellular stresses (Han et al. 2008) and in liver following treatment with glucocorticoids; hormones that help to regulate blood glucose during fasting (Wong et al. 2010).

Expression of clusterin at the level of mRNA is, at least in part, dependent on CDKN1A (Chen et al. 2004). Clusterin, for which the mRNA levels increased following the extended fast, is a regulator of apoptosis and its expression is used as a marker of cell senescence (Petropoulou et al. 2001; Trougakos et al. 2006). However, care must be taken in interpreting clusterin mRNA levels as the nuclear form of the protein is pro-apoptotic, whereas the secreted form is anti-apoptotic (Petropoulou et al. 2001; Shannan et al. 2006).

There is also complex interplay between TNF and CDKN1A in the regulation of lymphocyte proliferation, inflammation and apoptosis. Mitogen activation of human primary lymphocytes in vitro results in an increase in both TNF and CDKN1A mRNA levels, whereas treatment with the immunosuppressant cyclosporin, which inhibits T lymphocyte proliferation, reduces TNF mRNA levels but increases expression of CDKN1A both at the level of mRNA and protein (Khanna 2005). Treatment of human PBMC with TNF in vitro increases apoptosis and necrosis via a process that involves increases in levels of CDKN1A protein (Ryazantseva et al. 2010). TNF has also been

shown to stimulate CDKN1A expression, both at the level of mRNA and protein in murine alveolar cells and macrophages, while CDKN1A can suppress TGF- $\beta$  induced TNF expression (Yamasaki et al. 2008).

#### Real-time RT-qPCR analysis

To assess the validity of the findings from the array data, mRNA levels for three of the genes identified from the array analysis as being affected by the extended fast (CDKN1A, clusterin and IER3) were also analysed by real-time RT-qPCR. In all three cases, the real-time RT-qPCR data corresponded closely to the values obtained from the arrays ( $r > 0.9$ ,  $p < 0.001$  for Pearson correlation analysis of the real-time RT-qPCR and array data for each gene) and there were significant changes ( $p < 0.05$ ) in the mRNA levels measured by real-time RT-qPCR for all three genes, that matched the changes detected with the array data (Fig. 3).

#### Conclusions

This study provides new insights into effects of prolonged fasting on gene transcript profiles in PBMC in vivo. In particular, in addition to confirming changes in the expression of genes involved in fatty acid oxidation and

glucose metabolism that have been described previously (Bouwens et al. 2007), we also observed changes in a number of key genes involved in inflammatory, cell cycle and apoptotic processes. These align well with some of the mechanisms proposed, but not yet conclusively demonstrated, to play a role in the increased longevity and reduced incidence of chronic disease associated with caloric restriction and intermittent fasting in animal models and with changes in biomarkers of these conditions in humans (Robertson and Mitchell 2013; Trepanowski et al. 2011). In human subjects, longer term intermittent fasting, undertaken for Ramadan or as part of a weight loss study, has been reported to attenuate circulating levels of certain pro-inflammatory cytokines such as IL1B, TNF and IL6 and inflammatory markers such as CRP (Aksungar et al. 2007; Faris et al. 2012; Kroeger et al. 2012). The transcriptomic analysis performed here, together with the targeted proteomic analysis described previously, suggest that moderate reductions in inflammatory cytokines can be detected following just one extended fast. However, plasma concentrations of certain other inflammatory markers, such as C-reactive protein, were noted to be elevated following the extended fast. This suggests a more complex mechanism than simply a broad spectrum attenuation of inflammatory signals.

The magnitudes of the changes in gene transcript levels brought about by the extended fast were generally rather small, particularly when considered in relation to the substantial inter-individual differences observed. Using relatively low stringency statistical criteria, only 48 genes were found to be significantly affected by the extended fast. This contrasts with one previous study of the effect of fasting on gene transcription profiles in PBMC from human subjects, which identified 1,200 and 1,386 genes that changed, according to the same criteria, after 24 and 48 h of fasting, respectively (Bouwens et al. 2007). This apparent discrepancy is likely to be due largely to two key differences in the study designs. Firstly, Bouwens and co-workers compared transcript profiles after 24 or 48 h of fasting with those obtained immediately after a meal (i.e. the fed state), whereas the comparison made here was between overnight fasted and 36 h fasted samples. Secondly, the group of subjects in the previous study was much more homogeneous (males subjects aged 19–22 years with BMI > 19 and <25 kg/m<sup>2</sup>) than that in the current study (both male and female subjects aged 25–56 years with BMI ranging from 18.5 to 39.7 kg/m<sup>2</sup>).

One of the key aims of the current study was to evaluate the scale of response to a simple nutritional intervention, detected using transcriptomic, proteomic and metabolomic methods, in relation to the normal biological background variation. With this in mind, we decided to examine what might be considered the worst case scenario, in which a

minimal number of inclusion/exclusion criteria were applied, thus creating the potential for a highly heterogeneous study group. Nonetheless, one of the conclusions from this work is that all three functional genomic approaches are capable of detecting responses to a simple nutritional challenge, even on a background of substantial inter-individual variation. Moreover, the array and real-time RT-qPCR data described here highlight that, in addition to the inter-individual differences at baseline, there also appear to be significant inter-individual differences in the response to the nutritional challenge. Use of more homogeneous study populations may well help to reduce such variability and could, therefore, be considered beneficial when employing functional genomic methods for detecting the often subtle effects of nutritional interventions although such studies would need to be followed up to determine whether or not equivalent effects are observed in other groups of subjects.

The counter side to this argument is that use of heterogeneous study populations can itself provide opportunities for new findings. For example, we observed a striking positive association between subject BMI and the expression of type 1 IFN-regulated genes that we would have been unlikely to see in a group with less variation in BMI. This is the second study in which we have observed a positive association between BMI and mRNA levels for IFI44L, a gene considered as a potential marker of type 1 IFN bioactivity (Malhotra et al. 2011), in human PBMCs (Eady et al. 2005). Direct measurement of IFN $\alpha$  activity is very difficult, which is why the transcript levels of genes regulated by IFN $\alpha$  are currently widely used as markers of bioactivity (Malhotra et al. 2011). The evidence obtained in this study strongly suggests a relationship between BMI and type 1 IFN activity that merits further investigation. However, any future studies would need to take into account the observation that the transcript levels of many IFN-regulated genes vary not only between individuals, but also between multiple samples from the same individual. Thus, repeated sampling from subjects, as performed here, may be required to overcome problems with intra-individual variability and enable the association to be tested rigorously.

In summary, PBMC gene transcriptome analysis of the baseline samples, collected after an overnight fast on four separate occasions, again highlighted the marked degree of inter-individual variation and provided new insights into potential associations between parameters such as BMI and gene transcript profiles. In particular, a positive association between BMI and the expression of genes regulated by type 1 IFN was observed. The scale of response to the extended fast (36 h) at the level of the transcriptome within PBMC appeared to be rather subtle and difficult to detect against the background of substantial inter-individual

variation. Nonetheless, the pattern of changes described here is consistent with stimulation of fatty acid oxidation, alterations in a number of genes involved in cell cycling and apoptosis, and a decrease in the expression of a number of key pro-inflammatory genes. This last observation contrasts with evidence of a systemic pro-inflammatory response to the extended fast reported previously (Bouwman et al. 2011) and may provide the first evidence for a more fundamental anti-inflammatory response to fasting that could contribute to the putative beneficial effects of intermittent fasting in humans.

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**Conflict of interest** Ruan Elliott, Baukje de Roos, Susan Duthie, Freek Bouwman, Isobel Rubio-Aliaga, Katie Crosley, Claus Mayer, Abigail Polley, Carolin Heim, Susan Coort, Chris Evelo, Francis Mulholland, Hannelore Daniel, Edwin Mariman and Ian Johnson declare that they have no conflict of interest.

**Ethical standard** All procedures followed were in accordance with the ethical standards of the responsible committee on human experimentation (institutional and national) and with the Helsinki Declaration of 1975, as revised in 2000. Informed consent was obtained from all volunteers included in the study.

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**Transcriptome analysis of peripheral blood mononuclear cells in human subjects following a 36 hour fast p  
evidence of effects on genes regulating inflammation and apoptosis as well as energy metabolism**

**Genes and Nutrition**

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Probe set	Gene name	Gender effect	BMI effect	Adjusted p value (gender effect)	Adjusted p value (BMI effect)
201909_at	RPS4Y1	9.989556016	0.200430765	4.82E-41	0.894370094
206700_s_at	JARID1D	5.864080525	-0.042600492	2.36E-40	0.666461834
205000_at	DDX3Y	8.477147081	0.146064918	2.29E-38	0.56342472
228492_at	NA	5.637284617	0.537166191	4.46E-30	0.70227923
214131_at	CYorf15B	6.201160175	0.259251119	1.64E-28	0.938098535
232618_at	CYorf15A	3.946163215	0.613007957	4.22E-25	0.606244459
204410_at	EIF1AY	4.263466055	-0.279864871	1.44E-18	0.789872625
203992_s_at	UTX	-1.012589127	-0.225785351	4.05E-14	0.791991258
224935_at	EIF2S3	-0.531248662	0.029498121	4.21E-14	0.881054294
212768_s_at	NA	2.629125728	-2.044516652	1.56E-13	1.84E-10
201017_at	EIF1AX	-1.927755816	0.755887093	2.47E-12	0.08593648
213347_x_at	RPS4X	-0.391812911	0.112794934	2.81E-12	0.727545201
201136_at	PLP2	0.425745931	-3.328753699	5.79E-12	3.82E-11
230760_at	ZFY	3.082552827	-0.1561619	5.79E-12	0.990311731
228425_at	LOC654433	1.420923875	-1.684498485	8.44E-11	2.23E-11
225627_s_at	CACHD1	-1.642020671	0.581610963	2.81E-10	0.016363055
201018_at	EIF1AX	-1.295469061	0.284616674	4.44E-10	0.873296474
NuGO_eht0262848_at	PRKX	-1.010606454	0.270669053	4.57E-10	0.95301822
229022_at	ZFX	-1.402940497	0.00382795	5.58E-10	0.901888008
209486_at	UTP3	-1.579820306	1.095179771	8.88E-10	0.003201903
221830_at	RAP2A	0.307921673	0.157448547	2.20E-09	0.981983402
208174_x_at	ZRSR2	-0.703211886	-0.205610657	2.57E-09	0.857210002
207269_at	DEFA4	4.649098473	-2.025534504	2.77E-09	1.52E-07



200907_s_at	PALLD	1.669307338	0.64093602	3.23E-09	0.096504417
204137_at	GPR137B	1.298854027	-0.114921146	3.23E-09	0.420976163
212791_at	C1orf216	0.780413976	-0.138587784	4.51E-09	0.498820897
NuGO_eht0329206_at	ZNF683	-0.332493523	1.163320215	4.68E-09	0.055201671
212196_at	IL6ST	-1.224123721	0.088865072	6.50E-09	0.033087953
229215_at	ASCL2	2.628381056	-0.305764435	1.63E-08	0.495176995
231817_at	USP53	-1.062676257	0.369813905	1.92E-08	8.38E-05
225941_at	EIF4E3	1.362583487	-0.087199547	1.94E-08	0.065537084
211657_at	CEACAM6	2.278093977	-0.659352925	2.22E-08	6.95E-06
244741_s_at	MGC9913	-1.294958659	-0.292444454	2.71E-08	0.43028504
220785_at	UTS2	0.035388944	-0.258886655	4.22E-08	1.78E-09
203940_s_at	VASH1	1.701670451	-0.615556727	4.22E-08	0.120330661
205898_at	CX3CR1	0.722074549	0.069984958	7.83E-08	0.004108381
206851_at	RNASE3	1.310411168	-0.634617014	8.59E-08	2.48E-06
208944_at	NA	-0.180685789	-0.085930321	8.62E-08	0.186909177
203037_s_at	MTSS1	0.698054608	-0.035581779	9.85E-08	0.988465965
206632_s_at	APOBEC3B	-0.090723666	2.148765159	1.09E-07	2.17E-06
230083_at	USP53	-1.48077166	0.686860465	1.37E-07	0.01515255
208836_at	ATP1B3	0.261350818	0.126474706	1.37E-07	0.051407175
1554447_at	LOC554203	-1.681066816	0.059477335	1.37E-07	0.974691737
239207_at	JARID1C	-1.111423161	0.088912644	1.42E-07	0.492264438
228834_at	TOB1	-1.346261086	0.228534865	2.03E-07	0.184494401
220112_at	ANKRD55	-2.185474667	0.165747447	2.34E-07	3.10E-05
210244_at	CAMP	1.618586897	-0.30206688	2.34E-07	0.001374736
231769_at	FBXO6	1.342569524	0.07439116	2.34E-07	0.01373661
212421_at	C22orf9	1.886548729	-0.587859379	2.34E-07	0.295157667
203240_at	FCGBP	-1.91725583	0.069437701	2.38E-07	0.856456276
225252_at	NA	1.192149972	-0.839694498	3.36E-07	0.51416557
238900_at	NA	5.524599501	-0.443126905	3.63E-07	6.13E-08
227819_at	LGR6	0.736208473	0.673924229	3.78E-07	0.568396806
226279_at	PRSS23	1.130648844	0.722055758	4.01E-07	0.062689879
219865_at	NA	1.640707662	-0.284081211	4.47E-07	0.306285061
205033_s_at	DEFA1	2.892788033	-0.760716907	5.02E-07	0.000172793
212195_at	IL6ST	-1.272332057	0.351213287	5.02E-07	0.128020182
228245_s_at	OVOS2	-2.359377317	0.589901899	5.57E-07	0.263100057
202609_at	EPS8	1.893266256	-0.845425036	5.57E-07	0.661931359
223434_at	GBP3	-2.325032453	1.871813708	5.66E-07	2.50E-09
235993_at	PSMF1	0.701852576	-0.2357043	5.66E-07	0.90338479
205419_at	EBI2	-0.717853273	-0.324301291	6.54E-07	0.298669254
201210_at	DDX3X	-0.238689003	-0.006087564	6.98E-07	0.491835759
202594_at	LEPROTL1	-0.722919541	0.17431881	6.98E-07	0.843576829
209841_s_at	LRRN3	-1.620689022	0.717211672	8.53E-07	0.891240061
204203_at	CEBPG	0.908079865	-0.225542197	8.68E-07	0.438377731
NuGO_eht0360039_at	GAL3ST4	-1.301973008	0.399527335	9.24E-07	0.89798823
211748_x_at	PTGDS	1.600638595	-0.248071223	1.06E-06	0.855144512
201589_at	SMC1A	-0.489832599	0.112033108	1.16E-06	0.459990131
207802_at	CRISP3	0.993077166	0.378748374	1.17E-06	0.00140772
205798_at	IL7R	-1.039252903	0.106286902	1.17E-06	0.578548532
202746_at	NA	-1.387795355	0.344224736	1.17E-06	0.894946586
217753_s_at	RPS26	1.736563251	-1.236094654	1.23E-06	0.006320258
218346_s_at	SESN1	-0.968455389	-0.433229268	1.23E-06	0.149910971
220370_s_at	USP36	-2.440006002	0.749644632	1.63E-06	0.169944378
1557954_at	CXorf15	-1.508420917	0.435876167	1.97E-06	0.860904496
228361_at	E2F2	2.504072309	-1.601406309	2.25E-06	0.103091844
211474_s_at	NA	0.177999935	0.145059908	2.33E-06	0.983533905
218321_x_at	STYXL1	0.526435666	0.298879087	2.92E-06	0.007979699
235735_at	TNFSF8	-0.674048503	-0.529062209	3.24E-06	0.009800733
241871_at	CAMK4	-1.265241556	0.01042666	3.24E-06	0.079958753
202018_s_at	LTF	1.987540845	0.272688986	3.36E-06	0.009988825

212531_at	LCN2	1.319112154	0.114118953	3.36E-06	0.0137781
207111_at	EMR1	0.947743688	-0.454174952	3.37E-06	0.147966318
210321_at	GZMH	0.074526731	1.102851682	3.37E-06	0.781611456
206337_at	CCR7	-1.31822426	0.621685283	3.37E-06	0.976041024
203408_s_at	SATB1	-0.837899211	0.374967497	3.48E-06	0.728860368
212599_at	AUTS2	-0.130709109	-0.582029438	3.52E-06	0.021924704
240172_at	NA	-0.724621937	-0.142938968	3.61E-06	0.152791119
242140_at	NA	-0.648865735	0.287408483	3.64E-06	4.85E-06
235085_at	PRAGMIN	-0.933765495	0.269540132	3.64E-06	0.613382443
205557_at	BPI	1.652680044	-0.959906363	3.75E-06	0.000802245
209933_s_at	CD300A	1.227895228	-0.480027961	3.83E-06	0.188151933
203927_at	NFKBIE	0.794666283	-0.147054297	3.83E-06	0.753228225
231688_at	NA	1.215744449	0.574079233	3.92E-06	0.464440656
228297_at	CNN3	-1.64635774	-0.159172062	3.92E-06	0.945768042
226847_at	FST	-0.098758568	0.105745516	4.04E-06	3.85E-08
219288_at	C3orf14	0.418266831	0.540231855	4.13E-06	0.105699583
221774_x_at	FAM48A	-0.149402548	-0.582733653	4.18E-06	0.193753258
221760_at	MAN1A1	0.744294121	0.278241808	5.14E-06	0.192772846
213534_s_at	PASK	-0.715640629	-0.453731186	5.36E-06	0.016636601
NuGO_eht0327097_at	NA	2.910701706	-1.096916364	5.36E-06	0.725747341
206082_at	HCP5	-1.642269341	1.235248227	5.84E-06	0.051143676
201540_at	FHL1	-0.806661149	0.186028127	5.91E-06	0.07149264
201626_at	INSIG1	0.324395748	0.04532379	6.01E-06	0.042988443
224832_at	DUSP16	-1.472943194	0.240849783	6.40E-06	0.720411412
218400_at	OAS3	0.39942346	0.268004883	7.09E-06	2.17E-06
209670_at	NA	-0.983854801	0.590891506	7.12E-06	0.509287261
200962_at	RPL31	-0.391893981	-2.591106409	7.38E-06	1.36E-08
213348_at	CDKN1C	1.520402366	0.121329568	7.72E-06	0.192961025
218486_at	KLF11	1.124370581	-0.360850686	8.89E-06	0.484044363
241093_at	NA	-0.836481107	-0.167489051	8.91E-06	0.899085303
203236_s_at	LGALS9	0.791695234	0.121502688	9.03E-06	0.035187607
201302_at	ANXA4	1.192853187	-0.334276772	9.78E-06	0.228011106
NuGO_eht0321935_at	FCRL6	1.007049767	0.321155908	1.02E-05	0.985049625
227462_at	NA	-3.551895084	2.780234436	1.04E-05	0.074429546
225285_at	BCAT1	2.3575996	-1.343558441	1.16E-05	0.603973583
209616_s_at	CES1	1.266253177	0.241065196	1.21E-05	0.026967312
210354_at	NA	0.406545046	0.783997046	1.21E-05	0.654367249
217987_at	ASNSD1	-0.600042302	0.017198206	1.23E-05	0.484403374
205933_at	SETBP1	0.82308722	0.066835463	1.28E-05	0.697666487
213666_at	SEPT6	-1.62765282	0.718722408	1.29E-05	0.722127488
220577_at	NA	-0.732295369	0.12768328	1.39E-05	0.652668321
201105_at	LGALS1	1.127701828	-0.199914537	1.39E-05	0.741569684
205004_at	NKRF	-0.693806258	0.139210855	1.39E-05	0.967955935
209610_s_at	SLC1A4	1.217094908	0.03107537	1.39E-05	0.997039172
203315_at	NCK2	-0.754649336	0.339853677	1.50E-05	0.805029049
212774_at	NA	-0.252789817	0.006287068	1.50E-05	0.405591691
NuGO_eht0288911_x_at	NA	-1.184077572	0.625036807	1.50E-05	0.737524616
231798_at	NA	-1.734902001	1.078668098	1.50E-05	0.782267554
223401_at	C17orf48	-1.19535936	0.238578435	1.50E-05	0.816905726
217933_s_at	LAP3	0.168697677	0.417658108	1.62E-05	0.36336886
201061_s_at	STOM	0.468141746	-0.156430937	1.67E-05	0.703322519
212239_at	NA	-0.675550811	0.144203176	1.71E-05	0.960284824
227725_at	ST6GALNAC1	-2.151445646	0.394105702	1.74E-05	0.103383368
223044_at	SLC40A1	-0.587025566	-0.186751159	1.82E-05	0.30930947
226901_at	C17orf58	1.29526137	-0.212259746	2.02E-05	0.444756763
NuGO_eht0359228_at	LYPD2	1.120129522	-0.503256371	2.05E-05	0.568396806
212761_at	TCF7L2	1.343441435	-0.273713511	2.12E-05	0.43389187
NuGO_eht0339577_at	NA	2.075456651	-1.401891499	2.19E-05	0.080487761
214945_at	NA	-1.059704677	-0.03550069	2.19E-05	0.144226393

223836_at	FGFBP2	0.670698148	0.335493821	2.21E-05	0.042988443
212706_at	RASA4	-1.373373123	0.729264808	2.21E-05	0.985049625
206857_s_at	FKBP1B	1.73747822	-0.705714113	2.22E-05	0.688434518
221757_at	PIK3IP1	-0.868878192	0.092010991	2.22E-05	0.783443464
229704_at	NA	-0.423650085	0.893445396	2.22E-05	0.000404808
209501_at	CDR2	-1.199428646	0.576763139	2.27E-05	0.708810344
228410_at	GAB3	0.681939554	-0.095804836	2.27E-05	0.802404351
238026_at	RPL35A	-1.079883221	0.29270217	2.30E-05	0.546017857
222557_at	NA	-0.87681645	-0.045639269	2.32E-05	0.15242667
201934_at	NA	-0.558986675	0.193784475	2.32E-05	0.620078503
225798_at	JAZF1	1.028236744	-0.299270629	2.39E-05	0.60724608
201162_at	IGFBP7	1.407791144	-0.219310292	2.40E-05	8.38E-05
209197_at	SYT11	0.306225105	0.373248527	2.44E-05	0.053697478
226459_at	PIK3AP1	1.466734834	-0.382897706	2.44E-05	0.270300145
222071_s_at	SLCO4C1	0.938414525	-0.018815412	2.53E-05	0.195221257
227449_at	EPHA4	-1.127808449	-0.116652967	2.53E-05	0.53402786
219734_at	SIDT1	-0.490541426	0.245138249	2.53E-05	0.661302832
228099_at	ZNF550	-0.997741324	0.324595262	2.53E-05	0.994424302
204951_at	RHOH	-1.291813862	0.694074534	2.54E-05	0.525713605
221558_s_at	LEF1	-1.169921235	0.776873125	2.54E-05	0.810019128
208640_at	RAC1	0.349140067	-0.144324283	2.56E-05	0.583621567
240070_at	VSTM3	-0.320789987	-0.154513421	2.62E-05	0.110129374
217995_at	SQRDL	0.393544321	0.042192619	2.80E-05	0.105970361
210910_s_at	POMZP3	-0.196838027	1.078094569	2.82E-05	7.38E-06
219711_at	ZNF586	-0.718146719	0.133894936	2.86E-05	0.650410083
207072_at	IL18RAP	0.740072319	-0.966242481	2.87E-05	0.005618397
209892_at	FUT4	0.792291405	-0.251076024	2.89E-05	0.607253912
204995_at	CDK5R1	-0.187137921	-0.076041696	2.91E-05	0.122413167
NuGO_eht0336068_s_at	NA	-0.681260044	0.167250033	2.97E-05	0.563923357
218230_at	ARFIP1	0.791186589	-0.18634278	2.97E-05	0.569499583
211339_s_at	ITK	-0.93575056	0.344087606	2.97E-05	0.734532333
207651_at	GPR171	-1.668447497	0.279192069	2.97E-05	0.740016568
39248_at	AQP3	-0.828430957	0.385616699	2.97E-05	0.981768635
206050_s_at	RNH1	1.055774491	-0.172496703	3.06E-05	0.852990109
222881_at	HPSE	1.252269382	-0.409745227	3.15E-05	0.193753258
221234_s_at	BACH2	-1.246214981	0.660441886	3.15E-05	0.275075472
224833_at	NA	-0.508507203	0.2425654	3.22E-05	0.786151791
202431_s_at	MYC	-1.117584377	0.18211822	3.23E-05	0.939853347
226214_at	GDE1	0.555451748	-0.233205588	3.28E-05	0.552121299
213096_at	TMCC2	1.509169261	-1.222707925	3.30E-05	0.168834413
209255_at	KIAA0265	0.760541548	0.338551732	3.32E-05	0.373054993
209301_at	CA2	1.554707927	-0.571236979	3.44E-05	0.039750516
205241_at	SCO2	0.891208304	0.34612828	3.44E-05	0.160647448
203579_s_at	SLC7A6	-0.579832506	-0.012369545	3.44E-05	0.232917941
200886_s_at	PGAM1	0.354142138	0.057765978	3.44E-05	0.296451282
226022_at	SASH1	2.315998235	-1.701280397	3.44E-05	0.383979454
200827_at	PLOD1	2.135605557	-0.376885815	3.44E-05	0.645808888
211038_s_at	CROCCL1	-1.736092705	0.185739129	3.44E-05	0.665667078
203528_at	SEMA4D	-0.778808169	0.280489409	3.44E-05	0.760380413
NuGO_eht0263437_at	NLRP2	0.190589755	-0.134833903	3.44E-05	0.784147225
206371_at	FOLR3	2.688047124	-1.522211573	3.44E-05	0.811489699
206761_at	CD96	-0.77975727	0.362574065	3.44E-05	0.949579772
215967_s_at	LY9	-0.956934885	0.416820536	3.46E-05	0.861028196
35254_at	TRAFD1	0.341949716	-0.034839917	3.49E-05	0.23455188
225440_at	AGPAT3	0.639720608	-0.087277997	3.49E-05	0.84233886
220418_at	UBASH3A	-1.997022674	1.281531777	3.49E-05	0.903934771
222976_s_at	TPM3	0.23261565	-0.050112063	3.55E-05	0.950607672
213852_at	NA	-0.420975758	0.075118712	3.75E-05	0.13987084
239147_at	ARSK	-0.558079402	-0.029936394	3.77E-05	0.856456276

1555120_at	CD96	-1.397583867	0.906799476	3.78E-05	0.196105795
229723_at	NA	-0.347129807	-0.227212494	3.85E-05	0.786020575
225498_at	CHMP4B	0.363934977	0.042563868	4.17E-05	0.419639099
209682_at	CBLB	-0.719371434	-0.108116252	4.17E-05	0.81895014
205819_at	MARCO	1.878134605	-0.969342339	4.17E-05	0.958205626
217147_s_at	TRAT1	-1.32145504	0.403338292	4.25E-05	0.60257526
228273_at	NA	1.556384536	-0.083105017	4.49E-05	0.176351165
201334_s_at	ARHGEF12	0.849591333	-0.549859736	4.56E-05	0.876523412
209836_x_at	BOLA2	0.103935134	0.297708899	4.63E-05	0.777376044
203336_s_at	ITGB1BP1	0.191983776	0.440167206	4.84E-05	0.165237287
218611_at	IER5	0.546558921	-0.098125432	4.86E-05	0.477842397
201890_at	NA	0.885444201	0.75715661	4.90E-05	0.120455913
NuGO_eht0286687_at	C8orf38	-0.155658851	-0.05536622	4.92E-05	0.44618165
218951_s_at	PLCXD1	-0.74197708	-0.068844977	4.99E-05	0.60257526
200663_at	CD63	1.050833054	-0.37114207	5.02E-05	0.555601864
222760_at	ZNF703	1.820590624	-0.329493869	5.04E-05	0.566208779
203562_at	FEZ1	1.961624637	-0.276502837	5.04E-05	0.646134597
225583_at	UXS1	-0.554735817	0.211337057	5.07E-05	0.872237173
1556471_at	SCML4	-1.190918327	0.232807478	5.08E-05	0.08583675
212350_at	TBC1D1	1.127286619	-0.31865965	5.40E-05	0.490016512
227769_at	NA	3.575691322	-0.864418088	5.56E-05	0.562305701
203740_at	MPHOSPH6	-0.525514501	-0.247086423	5.64E-05	0.496752298
227160_s_at	C20orf7	0.519551895	0.319406986	5.69E-05	0.756629537
206366_x_at	XCL1	0.283365813	-0.656447597	5.79E-05	0.744028928
227135_at	ASAH1	0.421426535	-0.177630024	5.82E-05	0.145615714
211275_s_at	GYG1	0.551905494	-0.004790659	6.09E-05	0.044377504
1554455_at	LINS1	-1.014831869	0.012167451	6.22E-05	0.476919954
222838_at	NA	0.613378057	0.263443023	6.31E-05	0.179765831
213457_at	MFHAS1	-1.559367765	0.501697073	6.37E-05	0.985049625
203723_at	ITPKB	-0.766453128	0.301170506	6.37E-05	0.991981004
214629_x_at	RTN4	0.28758037	-0.098971459	6.42E-05	0.825874395
201818_at	LPCAT1	0.946950259	-0.123721801	6.75E-05	0.65638516
225351_at	NA	0.815811554	-0.533993193	6.79E-05	0.639161695
225429_at	NA	-0.675133886	0.0726612	6.86E-05	0.977653938
228030_at	RBM6	-1.79328651	0.823907363	6.92E-05	0.904564026
209906_at	C3AR1	1.179790983	0.109591025	7.09E-05	0.168834413
36554_at	NA	0.506243973	-0.045287417	7.09E-05	0.943843445
219002_at	FASTKD1	-0.351614074	-0.168535081	7.31E-05	0.981189702
231638_at	MGC52282	0.892692155	-0.772942412	7.33E-05	0.086411815
208470_s_at	HPR	0.590579825	0.118934997	7.40E-05	0.523748292
220485_s_at	SIRPG	-1.348998967	0.743237465	7.57E-05	0.268425854
239122_at	NA	-0.961871937	0.448320978	7.62E-05	0.809911457
204793_at	GPRASP1	-1.211495271	0.487897425	7.62E-05	0.569864496
204608_at	ASL	0.399324595	0.20426243	7.62E-05	0.571382779
203043_at	ZBED1	0.339238333	0.042278059	7.62E-05	0.630719237
226264_at	SUSD1	1.137589595	-0.322717654	7.64E-05	0.300737527
210644_s_at	LAIR1	0.811852963	-0.203159754	7.74E-05	0.458278285
210425_x_at	NA	-1.078987095	0.692027066	7.79E-05	0.30930947
232231_at	RUNX2	-0.354192383	-0.195719956	8.15E-05	0.000138262
209124_at	MYD88	0.560590671	-0.16306818	8.16E-05	0.391959431
226158_at	KLHL24	-0.624880886	0.063999409	8.22E-05	0.644571675
228167_at	NA	-0.962057536	0.303543609	8.37E-05	0.802404351
213757_at	NA	-2.097540919	2.157829777	8.45E-05	0.000180885
57163_at	ELOVL1	0.521561983	-0.139231685	8.45E-05	0.237424967
205756_s_at	F8	0.310740687	0.028739241	8.45E-05	0.29444311
218272_at	FLJ20699	1.299595477	0.233906304	8.45E-05	0.516379267
225283_at	ARRDC4	2.500989659	-0.949506261	8.66E-05	0.89430365
212764_at	NA	-0.819206572	0.103288824	8.74E-05	0.509035617
222700_at	NA	-0.556816016	0.107954163	8.91E-05	0.305122428

1552807_a_at	SIGLEC10	1.717061679	-0.319511	9.03E-05	0.717911499
NuGO_eht0243440_at	BATF3	0.967940084	-0.379179864	9.16E-05	0.350036373
227347_x_at	HES4	0.189827596	0.704975916	9.46E-05	0.102187119
204224_s_at	GCH1	0.453657728	0.221454166	9.46E-05	0.426799665
209481_at	NA	-0.270854117	0.066413924	9.46E-05	0.673801877
212647_at	RRAS	0.588244869	0.076546601	9.48E-05	0.081445136
213057_at	ATPAF2	0.5233876	-0.168156129	9.82E-05	0.474208748
229725_at	NA	-0.827704533	0.325288848	9.86E-05	0.67636709
238937_at	ZNF420	-0.466085831	-0.226553598	0.000101028	0.847308208
219594_at	NINJ2	1.395847698	-0.544128482	0.000106266	0.957445174
223615_at	ABI3	0.924828779	-0.152164059	0.000106906	0.238518212
227686_at	OXNAD1	-1.161435187	0.633560956	0.000106906	0.833518327
212614_at	ARID5B	-0.986674352	0.26320861	0.000110583	0.281908444
221012_s_at	TRIM8	0.668167409	-0.19925788	0.000110583	0.883233683
1555728_a_at	MS4A4A	1.029421486	-0.389524294	0.00011067	0.042599188
210427_x_at	ANXA2	0.988505159	-0.364454308	0.000112176	0.56353366
215313_x_at	HLA-A	0.073637019	-0.023377295	0.000112859	0.76763465
224447_s_at	C17orf37	0.268765436	0.17031583	0.000112918	0.719765615
220048_at	EDAR	-1.482686466	0.386479287	0.000112924	0.446890853
212504_at	DIP2C	-0.938091781	-0.099793687	0.000115285	0.110129374
224742_at	ABHD12	0.035642878	0.291107909	0.000115285	0.419757414
228109_at	RASGRF2	-1.718587979	0.643868697	0.000115285	0.775384513
224763_at	RPL37	-0.98486912	0.440920033	0.000115285	0.856305772
225096_at	C17orf79	0.81585232	-0.075390709	0.000116861	0.899085303
219806_s_at	C11orf75	1.654089991	-0.352718213	0.000118052	0.646328822
202393_s_at	KLF10	1.360348364	-0.113918042	0.000118052	0.898153007
227046_at	SLC39A11	0.747756603	0.04432748	0.000118474	0.995880366
211729_x_at	BLVRA	0.659413429	-0.182431393	0.00012049	0.717911499
201656_at	ITGA6	-1.00301874	0.481390519	0.000121617	0.455065914
NuGO_eht0359343_s_at	NA	-0.500813014	0.08753156	0.000121617	0.563851235
209883_at	GLT25D2	0.697225312	0.800180797	0.000121718	0.127141583
218872_at	TESC	1.365162215	-0.273473103	0.000121718	0.646374023
203719_at	ERCC1	0.998419898	-0.349800642	0.000121718	0.770483697
225142_at	JHDM1D	1.509377379	-0.856695961	0.000122709	0.275075472
222696_at	AXIN2	-1.610451537	0.4232233	0.000123598	0.294297026
209606_at	PSCDBP	-0.260327473	-0.062344199	0.000124911	0.635945232
227609_at	EPST11	0.907727817	0.532705105	0.000124961	0.001845342
207509_s_at	LAIR2	1.643480542	-2.059570078	0.000128336	0.946994346
225550_at	C1orf71	-0.819508345	-0.109782806	0.000128565	0.702728464
204142_at	ENOSF1	-1.609579848	0.69847349	0.000128565	0.998643252
201761_at	MTHFD2	0.687950728	-0.160383777	0.000130271	0.339313902
224710_at	RAB34	0.887623688	-0.293191427	0.000130271	0.466930624
228469_at	PPID	0.886559563	-0.283137767	0.000130271	0.566009089
221601_s_at	IL24	-0.786198099	0.552805305	0.000130271	0.735523851
226771_at	ATP8B2	-0.68502826	0.15578066	0.000132368	0.993530409
235306_at	NA	-1.039894073	0.555493289	0.000133059	0.490563394
244038_at	WDR89	-0.982001585	0.201988694	0.000133672	0.783443464
213264_at	PCBP2	-0.17057175	0.1655668	0.000134179	0.034628892
202589_at	TYMS	0.472748581	1.359247925	0.00013633	0.141233872
202657_s_at	SERTAD2	-0.344460054	0.112936806	0.00013633	0.438100197
230489_at	CD5	-1.179340113	0.981067681	0.00013633	0.718433144
226486_at	MTERFD2	-0.879749524	0.117664358	0.000136852	0.188855738
229618_at	SNX16	-0.662235572	-0.311461994	0.000138173	0.203909257
217950_at	NOSIP	-1.098093411	0.625877738	0.000138173	0.522434808
226525_at	NA	-0.290164569	0.162976607	0.000138732	0.985049625
209798_at	NPAT	-0.755087904	0.412212601	0.000140806	0.830602464
239106_at	NA	-0.272311607	-0.306761602	0.000141046	0.059194509
203313_s_at	TGIF1	0.094282064	-0.69923357	0.000143941	0.136261324
200974_at	ACTA2	1.166494746	-0.613550376	0.000143941	0.645465151



219629_at	FAM118A	0.014824008	-0.127144606	0.0001443	0.008483542
207892_at	CD40LG	-0.938466232	0.247700818	0.000146571	0.294445177
218520_at	TBK1	0.372728272	0.091313007	0.000146619	0.202949643
34689_at	TREX1	0.50929049	-0.066516404	0.000147455	0.894742512
213385_at	CHN2	0.909598389	-0.32379627	0.000147804	0.783162668
206181_at	SLAMF1	-1.518227922	0.196669076	0.000152456	0.649331956
200885_at	PPM1J	1.27842573	-0.179295467	0.00015591	0.53213361
212698_s_at	SEPT10	2.369131005	-0.983298192	0.00015591	0.942543204
204495_s_at	C15orf39	1.122958397	-0.036329469	0.000157322	0.324963576
209216_at	WDR45	0.233570376	0.149770839	0.000158181	0.620656958
226817_at	DSC2	3.058499624	-1.844707323	0.000158993	0.895588512
225307_at	ZNF511	0.183106468	0.129681177	0.000158993	0.904564026
225579_at	PQLC3	0.472194379	0.085499673	0.000161046	0.661740035
227972_at	TOR2A	0.448183107	-0.138744405	0.000162024	0.902318919
203021_at	SLPI	1.902391291	-1.488213886	0.000165307	0.055755821
204249_s_at	LMO2	1.461721586	-0.342987819	0.000166532	0.515539082
221485_at	NA	0.80275062	-0.069054261	0.000170218	0.875281129
218373_at	AKTIP	-0.79683073	0.33650114	0.000172092	0.422443267
202610_s_at	MED14	-0.064386112	-0.148494706	0.000173316	0.532234485
215087_at	C15orf39	1.46525385	-0.588360613	0.000173316	0.964333294
NuGO_eht0341848_at	NA	-0.82792582	0.508269303	0.000176213	0.476919954
221648_s_at	NA	-1.407563407	0.914154198	0.000177187	0.45497228
205474_at	CRLF3	-0.283111501	0.127743502	0.000188038	0.952696464
203471_s_at	PLEK	1.164384761	-0.122369882	0.000188743	0.819982536
200629_at	WARS	0.877026996	0.146361444	0.000191308	0.444756763
213193_x_at	IL23A	-0.800002218	0.499523359	0.000194947	0.740016568
226584_s_at	NA	0.683626202	0.156583806	0.00020318	0.562305701
218669_at	RAP2C	0.32005727	-0.029829044	0.000206304	0.710270979
59644_at	BMP2K	1.507744917	-0.832658068	0.000206552	0.507193933
206361_at	GPR44	0.36930422	-0.285554887	0.000206989	0.420406365
208771_s_at	LTA4H	0.593650261	-0.089444637	0.000207284	0.814311495
224428_s_at	CDCA7	-0.135315101	0.518883775	0.000207509	0.904900122
217752_s_at	CNDP2	0.272406556	0.050589141	0.000207509	0.988628991
204759_at	RCBTB2	0.709920526	-0.366357937	0.000211299	0.246681877
227586_at	TMEM170	-0.443559523	0.148389343	0.000211299	0.810973357
238465_at	C5orf35	0.05638151	0.03537896	0.000213874	0.646134597
220307_at	CD244	1.107931542	-0.219429772	0.000215124	0.768151271
226577_at	NA	0.673527679	-0.181926754	0.000216684	0.814628771
215030_at	GRSF1	-1.796329495	1.435064386	0.000217124	0.00186974
208886_at	H1F0	0.921022628	-0.43224353	0.000218706	5.28E-05
201099_at	USP9X	-0.328596816	-0.099947584	0.000218706	0.106940593
218638_s_at	SPON2	0.991838632	0.222410651	0.000219668	0.001332011
AFFX-HUMGAPDH/M3319	NA	0.3501229	-0.005419693	0.000221269	0.446890853
221036_s_at	APH1B	0.694019893	-0.094269523	0.000223625	0.940171644
212070_at	GPR56	0.223044989	0.552902993	0.000228123	0.085730265
202426_s_at	RXRA	1.691242803	-0.729822692	0.000229088	0.910508761
204484_at	PIK3C2B	-0.720901731	0.375732995	0.000229088	0.942543204
244447_at	NA	1.899084134	-0.60671287	0.000232069	0.837960074
NuGO_eht0304745_s_at	FCRL3	-0.516240446	0.656610649	0.000235459	2.16E-07
1552501_a_at	GPBAR1	1.240993563	-0.476901644	0.000237601	0.992294764
202741_at	PRKACB	-0.567728706	0.316237288	0.000238945	0.697610928
226808_at	NA	-0.930665373	0.074125505	0.000245775	0.30935483
227983_at	RILPL2	0.83885022	-0.274653441	0.000246237	0.963992979
201863_at	FAM32A	0.228280063	0.100665741	0.000248893	0.074201404
210260_s_at	TNFAIP8	-0.354092383	0.079018364	0.000248893	0.937955673
204062_s_at	ULK2	0.594711363	-0.074317773	0.000248893	0.982516002
227421_at	YBEY	-1.828244022	0.723508402	0.000251006	0.007723908
222654_at	IMPAD1	0.735346262	0.115866062	0.000252986	0.043090019
228176_at	EDG3	1.529526541	-0.646428555	0.000253615	0.43028504

205640_at	ALDH3B1	1.736061689	-0.575742526	0.000253615	0.933085889
33778_at	TBC1D22A	0.422279064	-0.052556712	0.000253615	0.946994346
228113_at	RAB37	0.448999112	0.021952833	0.000255998	0.832012197
203939_at	NT5E	-2.585695683	1.688121294	0.000256679	0.001442634
217824_at	UBE2J1	0.446585226	0.034920774	0.000259252	0.8318346
200061_s_at	RPS24	-0.184484697	0.078873881	0.000264792	0.055755821
208051_s_at	PAIP1	-0.636380557	0.469537141	0.000265215	0.749404142
227867_at	LOC129293	-1.7418872	1.028827118	0.00026566	0.999889314
208881_x_at	IDI1	0.319727375	-0.238392481	0.0002678	0.227225081
236487_at	SCLT1	1.421923025	-0.673408924	0.000268317	0.645808888
218258_at	POLR1D	-0.30088478	0.104199744	0.000269263	0.096504417
203912_s_at	DNASE1L1	0.535148529	-0.133856393	0.000270461	0.613677244
201341_at	ENC1	0.503747479	-0.057351178	0.000270461	0.878436671
205888_s_at	JAKMIP2	1.251775249	-0.481264177	0.000272748	0.832577987
201762_s_at	PSME2	0.144145456	0.232373288	0.000273741	0.07878918
217911_s_at	BAG3	-1.111099867	0.31287817	0.000273741	0.698917115
227603_at	NA	-0.816602129	0.307930676	0.000273741	0.812761435
224048_at	USP44	-1.335799799	0.467915868	0.00027525	0.757915487
201336_at	VAMP3	0.735867889	-0.322793895	0.00027525	0.8435971
209829_at	C6orf32	-0.323468508	-0.011403233	0.00027598	0.338097125
209723_at	SERPINB9	-0.386550624	-1.354836497	0.000279422	0.14041063
204246_s_at	DCTN3	0.2181083	0.109615465	0.000279422	0.89798823
227284_at	ZNF766	-0.614971369	0.091125584	0.000281706	0.536812643
1569401_at	CLEC12A	3.193995006	-1.675169622	0.000284703	0.656690079
216950_s_at	FCGR1A	2.324563451	-1.265115912	0.00029226	0.196105795
228722_at	PRMT2	-0.930753167	0.338456319	0.000293766	0.68606623
227934_at	NA	-0.961011785	0.249402667	0.000293824	0.393134916
203974_at	HDHD1A	-0.573450862	0.09118605	0.000307494	0.175129882
227917_at	NA	-0.962318521	0.648017743	0.000307552	0.07694264
224478_s_at	C7orf50	0.306762228	-0.03960876	0.000307564	0.614373201
204175_at	ZNF593	0.408390112	0.704002003	0.000308018	0.873047698
64064_at	NA	-1.115949376	0.34773705	0.000311327	0.850908368
224872_at	DIP2B	-0.48855451	0.144510278	0.000311768	0.853488589
226707_at	NAPRT1	0.575618515	-0.768805311	0.000313611	0.194875712
212946_at	KIAA0564	-0.479612807	-0.06013067	0.000313611	0.957580578
218918_at	MAN1C1	-1.161748884	0.714251342	0.000315138	0.681139062
57082_at	LDLRAP1	-1.565122179	0.715873868	0.000316031	0.486560148
204352_at	TRAF5	-1.13618803	0.571735166	0.000317863	0.91074604
225803_at	FBXO32	-1.537932983	0.311779437	0.000321098	0.406349112
218559_s_at	MAFB	1.626741155	-0.492751149	0.000321246	0.489604247
206177_s_at	ARG1	1.062198975	-0.838553776	0.000321935	0.006422082
203585_at	ZNF185	1.176135515	-0.178658832	0.000321935	0.175129882
240336_at	HBM	3.478957267	-1.413013259	0.000321935	0.523833772
210629_x_at	LST1	1.998060716	-0.597985225	0.000330558	0.702989736
218024_at	BRP44L	0.377627342	-0.121018856	0.000332409	0.53720779
206150_at	CD27	-1.193910097	0.747454476	0.000332409	0.543325135
206756_at	CHST7	1.019824269	-0.286783761	0.000333007	0.968656068
225069_at	PCYT1A	0.177171721	0.380407557	0.000333438	0.106940593
216379_x_at	NA	0.312704506	0.404352476	0.000334769	0.904267433
213223_at	RPL28	-0.60065581	0.323871282	0.00033684	0.228011106
214909_s_at	DDAH2	0.360281634	-0.094742919	0.00033684	0.638944393
202803_s_at	ITGB2	0.476044973	-0.020459393	0.00034233	0.027191465
53912_at	SNX11	0.496152473	-0.319824391	0.000343919	0.74590362
216044_x_at	FAM69A	-0.883350266	0.289689056	0.000344471	0.841308701
219231_at	TGS1	-0.246568839	-0.033246484	0.000345078	0.881092518
224856_at	FKBP5	-0.651583501	-0.098536393	0.000351546	0.653693243
215806_x_at	TRGC2	-1.657044522	1.25776523	0.000352356	0.013076554
204858_s_at	TYMP	1.990606798	-0.299826737	0.000352356	0.699217604
205173_x_at	CD58	0.764552896	-0.212308023	0.000352356	0.864373647

212638_s_at	WWP1	-0.595487028	0.267261211	0.000352356	0.983533905
213521_at	PTPN18	0.456652288	-0.072621996	0.000353927	0.898537706
226258_at	AMN1	-0.914543481	0.258358514	0.000354879	0.646134597
226204_at	GNB1L	-0.209138967	-0.34383021	0.000363635	0.000558078
218532_s_at	FAM134B	-1.228243323	0.818256264	0.000364831	0.568396806
217550_at	ATF6	-0.271535234	0.139370368	0.000366892	0.027815062
209546_s_at	APOL1	0.370051104	0.256209141	0.000368403	0.1211553
227067_x_at	NBPF1	0.631101962	-0.223448497	0.000376443	0.443427677
205376_at	INPP4B	-1.286131327	0.296224162	0.000379847	0.87506218
227060_at	RELT	0.944262984	-0.358141847	0.000382514	0.522434808
NuGO_eht0293745_at	KRT72	-2.982806307	1.921934873	0.000385599	0.004334611
225602_at	C9orf19	0.651030964	-0.304438684	0.000390876	0.741317175
203126_at	IMPA2	2.829826333	-1.265004401	0.000391965	0.990498575
NuGO_eht0256367_at	TTC9	-0.635350819	0.31969914	0.000392219	0.620656958
208816_x_at	ANXA2P2	0.939575454	-0.310782421	0.000392219	0.655083247
223454_at	CXCL16	2.214734974	-0.87449171	0.000392219	0.924636049
231940_at	ZNF529	-0.944777391	0.058696478	0.00039261	0.155261057
NuGO_eht0291725_s_at	SLC2A6	0.877899291	0.177411772	0.00039261	0.44618165
224518_s_at	ZNF559	-0.884739064	0.351330786	0.000393303	0.976041024
224580_at	SLC38A1	-1.165552919	0.617489177	0.000393705	0.992294764
221666_s_at	PYCARD	0.970537402	-0.264319875	0.000394599	0.408958409
201161_s_at	CSDA	1.526584406	-0.569639903	0.000416506	0.382276475
214511_x_at	FCGR1B	2.427528385	-1.010037876	0.000425261	0.236446042
200633_at	UBB	0.381078279	-0.204410533	0.000429687	0.988628991
227474_at	LOC654433	1.683634826	-3.573248115	0.000430047	1.95E-20
209369_at	ANXA3	2.016807977	-1.347576399	0.000440662	0.03034118
228992_at	MED28	0.449399767	-0.249365926	0.000440662	0.066153482
223591_at	RNF135	1.18452567	-0.235801174	0.000440662	0.613677244
225417_at	EPC1	-0.407496298	0.017889456	0.000440662	0.738489127
219351_at	TRAPPC2	-0.455834795	0.17947181	0.000440662	0.881092518
228005_at	ZXDB	-0.92382835	0.532137875	0.000440662	0.911037837
1562289_at	NA	1.531798834	-0.834456626	0.000440662	0.943843445
203508_at	TNFRSF1B	1.051607025	-0.275912885	0.000445358	0.870745519
236128_at	NA	-0.812879969	0.062224714	0.000445358	0.999517788
219396_s_at	NEIL1	0.470561215	-0.323724509	0.000447536	0.118466512
222912_at	ARRB1	1.575482288	-0.489549024	0.000448565	0.697954701
217761_at	ADI1	0.787075289	-0.403149172	0.000456586	0.405591691
228181_at	SLC30A1	1.170614426	-0.347956828	0.000462645	0.740016568
209417_s_at	IFI35	1.068032132	0.189580871	0.000463182	0.059354739
227708_at	EEF1A1	-0.610770002	0.192129274	0.000466254	0.360377524
204642_at	EDG1	-0.855307914	0.131128677	0.000470995	0.991981004
207270_x_at	CD300C	1.501191602	-0.613974525	0.000472478	0.768563482
211715_s_at	BDH1	-1.125722893	0.328400381	0.000472478	0.985049625
223245_at	STRBP	-1.271291106	0.745368181	0.000478643	0.096504417
203554_x_at	PTTG1	-0.114438593	0.775753097	0.000478643	0.596163872
202524_s_at	SPOCK2	-0.998764101	0.55705049	0.000478643	0.937331124
214582_at	NA	-0.823900515	0.352875083	0.000482769	0.724468512
205904_at	MICA	-1.757654218	1.374475222	0.000488011	0.33116049
228652_at	NA	-0.389537972	-0.072876856	0.000488011	0.937264809
212704_at	ZCCHC11	-0.742049409	0.295395831	0.000491784	0.591374689
228170_at	OLIG1	2.114326064	-1.465630564	0.000494939	0.932570215
235803_at	NA	-0.606376845	-0.171403834	0.000497643	0.191458619
202007_at	NID1	3.005170297	-0.789926649	0.000497872	0.977223421
239250_at	ZNF542	-0.591775865	-0.142507981	0.00050891	0.894742512
205126_at	VRK2	0.279980277	0.284291662	0.0005098	0.007723908
244352_at	CD84	-0.40439605	0.178371288	0.000514072	0.014203321
227877_at	C5orf39	-0.842061675	0.067930404	0.000514072	0.870369872
208949_s_at	LGALS3	1.078755726	-0.387714843	0.000516608	0.835733386
226587_at	NA	-1.903148481	0.567270856	0.00052307	0.830602464

211005_at	LAT	-1.009173067	0.45547507	0.000526043	0.478901047
203454_s_at	ATOX1	0.895355134	-0.208051932	0.000526043	0.516675513
218312_s_at	ZSCAN18	-0.61578743	0.053814306	0.000526043	0.569864496
223204_at	C4orf18	2.092922718	-0.243237433	0.000526043	0.669735386
219528_s_at	BCL11B	-1.201551915	0.597274324	0.000526194	0.979982513
202284_s_at	CDKN1A	1.170442136	-0.401029177	0.000532015	0.434648053
230729_at	NA	-0.746087327	0.018077774	0.000532015	0.867329364
223343_at	MS4A7	1.048420661	-0.145582289	0.000533106	0.138257832
219099_at	C12orf5	1.150310154	-0.316974463	0.000538375	0.324963576
205592_at	NA	1.397487185	-1.178871577	0.000541672	0.794856138
212655_at	ZCCHC14	-0.830385799	0.163639954	0.000544609	0.956878581
201410_at	PLEKHB2	0.301133118	-0.110902218	0.000545855	0.801774935
201814_at	TBC1D5	0.320375581	-0.124247117	0.000545855	0.84837166
225435_at	NA	-1.262857487	0.77822048	0.000546078	0.057000258
203359_s_at	MYCBP	0.279604955	-0.038191761	0.000548023	0.91501804
238935_at	NA	0.135864253	-0.165448941	0.000555211	0.515190617
228370_at	SNRPN	-1.003041788	0.376987349	0.000555211	0.871532377
227904_at	AZI2	0.64019183	-0.024164065	0.000555671	0.871532377
235033_at	NA	0.147053155	0.579375266	0.000558798	0.809268568
227599_at	LOC541471	1.251008982	-0.537836479	0.000559334	0.13987084
227361_at	HS3ST3B1	-0.73497935	-0.126631327	0.000559485	0.193753258
202847_at	PCK2	0.186601101	0.29506736	0.000559485	0.294008681
213694_at	RSBN1	-0.852921773	0.117576268	0.000559485	0.804343238
224939_at	NUFIP2	-0.22979605	-0.080912118	0.000559485	0.810058697
221564_at	PRMT2	-0.721019743	0.207727702	0.000572371	0.880255051
211990_at	HLA-DPA1	0.753908779	-0.136485047	0.000580318	0.452118844
227799_at	MYO1G	0.37858818	0.07310771	0.000580318	0.501590307
213447_at	SNRPN	-0.783905338	0.321611541	0.000584647	0.585852174
204418_x_at	GSTM2	0.947182971	-0.966679946	0.000589078	0.066817163
203088_at	FBLN5	-0.779222572	-1.023738812	0.000589078	0.204002875
223816_at	SLC46A2	1.482551548	-0.972557236	0.000589078	0.831623601
224818_at	SORT1	1.609073344	-0.760679975	0.000589078	0.870745519
219358_s_at	CENTA2	2.110034141	-0.783387848	0.000590362	0.780604556
213051_at	ZC3HAV1	-0.67400608	0.063516172	0.000593155	0.372539611
229028_s_at	NBR2	-0.726217476	-0.038306917	0.000593155	0.932443263
1559034_at	SIRPB2	1.83159712	-0.588952858	0.000600009	0.673801877
226683_at	SNX18	0.658386278	-0.082980817	0.000600832	0.423209874
201636_at	FXR1	-0.278300649	-0.137855716	0.000602861	0.583733136
219378_at	NARG1L	-0.802842928	0.363812466	0.000608995	0.756717394
57715_at	FAM26B	0.973851871	-0.311051433	0.00060984	0.684861783
205758_at	CD8A	-0.422230344	1.019443385	0.00061412	0.175129882
209696_at	FBP1	1.340117196	-0.435293774	0.000614154	0.894370094
224967_at	UGCG	-0.324552303	-0.068381879	0.00061473	0.382276475
37384_at	NA	0.849888956	-0.330934712	0.00061473	0.851279863
208641_s_at	RAC1	0.874649646	-0.328087636	0.00061473	0.89798823
222217_s_at	SLC27A3	1.47438582	-0.467909241	0.000615316	0.860776815
206666_at	GZMK	-0.365316542	-0.442465105	0.000626336	0.539413733
201998_at	ST6GAL1	-0.599623585	0.343976996	0.000627393	0.532184651
236562_at	ZNF439	-0.924901425	0.166194163	0.000627394	0.922078025
217627_at	ZNF573	-1.02631704	0.29923841	0.000629627	0.341573252
1553718_at	ZNF548	-0.402536975	-0.022138854	0.000635318	0.472954969
204385_at	KYNU	1.547837527	-0.323962559	0.000636349	0.599374831
232974_at	NA	-1.425662154	0.138294185	0.000643054	0.522313204
235346_at	FUNDC1	-0.624252132	0.127163291	0.000643054	0.837768598
225939_at	EIF4E3	1.212921891	-0.010967387	0.000648839	0.784874752
205259_at	NR3C2	-1.370181718	0.581147065	0.000659023	0.797828289
201129_at	NA	-1.202894684	0.319222711	0.000659023	0.905385033
225666_at	NA	0.343963183	0.268219173	0.000660185	0.513628228
210439_at	ICOS	-1.619511339	0.843727583	0.000679342	0.889532921

201015_s_at	JUP	1.837095712	-2.094680313	0.000681368	0.481340601
209003_at	SLC25A11	0.93384619	-0.173478539	0.000694151	0.903430658
201489_at	PPIF	1.440446386	-0.607165772	0.000700004	0.983271165
203320_at	SH2B3	0.799754353	-0.323917759	0.000701488	0.700517753
228775_at	NA	0.981009772	-0.530955635	0.000701488	0.924636049
201938_at	CDK2AP1	0.992437753	-0.318064427	0.000701979	0.498283187
217805_at	ILF3	-0.697143367	0.313724108	0.00070261	0.915550073
204981_at	SLC22A18	0.904666687	-0.429169699	0.000708667	0.477634712
206545_at	CD28	-1.151468658	0.375316153	0.000713876	0.65638516
221208_s_at	C11orf61	-0.884606142	0.26416064	0.000715533	0.744388153
208697_s_at	EIF3E	-0.607141511	0.264219221	0.000717945	0.875281129
204864_s_at	IL6ST	-0.842432496	-0.007502798	0.000727163	0.661740035
243016_at	NA	-1.082927673	0.151456424	0.000733629	0.292111165
219864_s_at	RCAN3	-1.015255372	0.087857406	0.000738108	0.502587631
235615_at	PGGT1B	0.575898771	-0.186629605	0.00075214	0.924879898
230733_at	NA	-0.787056731	-0.000459421	0.00075986	0.28459424
223087_at	ECHDC1	-0.916473489	0.750934311	0.000760982	0.02714024
210740_s_at	ITPK1	0.945866326	-0.375292493	0.000760982	0.83636801
219505_at	CECR1	0.999831958	-0.250579898	0.000768202	0.775384513
218929_at	CDKN2AIP	-0.688476586	0.277205969	0.000769693	0.91501804
205633_s_at	ALAS1	0.188777807	0.108366428	0.00077644	0.330120964
218364_at	LRRFIP2	0.658744548	-0.194820453	0.00077644	0.918233731
203852_s_at	SMN1	-0.541027544	0.326832423	0.000785246	0.532184651
212242_at	TUBA4A	-0.336669748	-0.081055541	0.000788681	0.144830692
202201_at	BLVRB	2.017128285	-1.004215551	0.000790614	0.76049294
229590_at	RPL13	-0.581129125	0.033273061	0.000794911	0.720886795
212681_at	NA	2.610947926	-0.850232329	0.000808142	0.983271165
221523_s_at	NA	1.352006725	-0.611598488	0.00080997	0.725747341
NuGO_eht0334591_at	NA	-0.421064862	0.013381912	0.00080997	0.904564026
221535_at	LSG1	-0.198874314	0.706491768	0.000810393	0.352811693
217733_s_at	TMSB10	0.058096213	0.068214012	0.000811145	0.30930947
212641_at	NA	-1.121963306	0.346230097	0.000811842	0.864707596
235457_at	MAML2	-0.733603347	0.314464125	0.000822558	0.80572441
206656_s_at	NA	0.911864371	-0.08849781	0.000833957	0.580453004
201368_at	NA	-0.048566485	-0.16268828	0.000834362	0.01126594
212731_at	ANKRD46	-1.141776403	-0.074834714	0.00084782	0.89798823
218648_at	CRTC3	-0.667212433	0.52338904	0.00084947	0.845074987
222138_s_at	WDR13	0.325278209	-0.071278642	0.000855144	0.91992186
200034_s_at	RPL6	-0.317669712	0.122687711	0.000858171	0.856456276
230748_at	NA	1.050245013	-0.481861414	0.000872778	0.774260478
212510_at	GPD1L	-0.271455191	-0.308719505	0.000874036	0.002573917
218274_s_at	ANKZF1	-1.004698816	0.327888055	0.000874036	0.196105795
208727_s_at	CDC42	2.649727113	-1.804054101	0.000874036	0.832017035
227607_at	STAMBPL1	-0.951599669	0.475059288	0.000885559	0.155261057
209790_s_at	CASP6	-1.017433365	0.548336439	0.000888904	0.956878581
200063_s_at	NPM1	-0.537753898	0.305310291	0.000898424	0.583294306
218137_s_at	SMAP1	0.506363545	-0.137172015	0.00089858	0.443427677
213095_x_at	AIF1	1.633345609	-0.555817952	0.000901846	0.865617787
208072_s_at	DGKD	-0.355323413	0.227978715	0.000906714	0.464701192
218672_at	SCNM1	0.464774911	-0.229300989	0.000912477	0.719334998
243154_at	NA	-0.727580968	0.207343631	0.000913093	0.44618165
205639_at	AOAH	1.333627035	-0.680691327	0.000913093	0.50169469
223741_s_at	TTYH2	0.543041906	-0.218871575	0.000913093	0.795840072
225246_at	NA	-0.75618765	0.464409222	0.000918664	0.936448479
218065_s_at	TMEM9B	0.19456818	0.035569546	0.000924745	0.725747341
226315_at	ZNF830	-0.261605442	-0.08375177	0.000927323	0.583309292
218482_at	ENY2	0.319708483	0.043026023	0.000928481	0.491630857
226811_at	FAM46C	1.220430079	-1.085561185	0.000928481	0.790857114
202812_at	GAA	1.088875548	-0.11714688	0.000946954	0.783162668



219259_at	SEMA4A	1.726906655	-0.766237787	0.000946954	0.827758717
201885_s_at	CYB5R3	0.281162277	-0.082802616	0.000946954	0.851279863
241742_at	PRAM1	2.24707794	-0.510362837	0.000946954	0.921323601
226106_at	RNF141	0.385665739	-0.11064989	0.000947792	0.830602464
226436_at	RASSF4	1.625830484	-0.291351109	0.000954343	0.463237993
225677_at	BCAP29	0.36779641	-0.062210501	0.00095995	0.376504736
201847_at	LIPA	0.924153898	-0.752863163	0.000963776	0.477634712
214733_s_at	NA	0.435325841	-0.106017287	0.000965995	0.948005034
90265_at	CENTA1	1.223972969	-0.419817926	0.000972495	0.857008435
200618_at	LASP1	0.304827011	-0.026435675	0.000978955	0.352827665
201218_at	CTBP2	1.634730092	-0.654446196	0.000978955	0.66111249
225685_at	NA	0.468945183	-0.291114791	0.000978955	0.995880366
202788_at	MAPKAPK3	1.002434256	-0.275683717	0.000980787	0.864241758
200782_at	ANXA5	1.138561326	-0.469472002	0.000985574	0.619785498
225037_at	SLC35C2	-0.770382167	0.40110078	0.000987066	0.876523412
213280_at	GARNL4	0.509068503	-0.141906281	0.000987066	0.962793415
210660_at	LILRA1	1.936637757	-0.454768095	0.000987994	0.54083253
212006_at	UBXD2	-0.238834448	0.086427111	0.000996171	0.665667078
200021_at	CFL1	0.394610093	-0.054509643	0.000997938	0.999517788
226206_at	CD180	0.414115258	-0.038373527	0.001001575	0.042599188
229943_at	TRIM13	-0.395126913	-0.285303236	0.001003777	0.940171644
243764_at	VSIG1	-0.891084464	0.352487025	0.001016112	0.940171644
224864_at	SRA1	0.825811274	-0.306743105	0.001018842	0.583621567
204342_at	SLC25A24	0.444545811	-0.09376358	0.001025073	0.316493201
202030_at	BCKDK	0.687284699	-0.23809445	0.001028879	0.497287291
218012_at	TSPYL2	-0.657994098	0.414287166	0.001029379	0.34563726
205681_at	BCL2A1	0.919451333	-0.136846263	0.001029925	0.318082312
201944_at	HEXB	0.704663227	-0.25499079	0.001045611	0.803328429
200762_at	DPYSL2	0.866153698	-0.320695127	0.001057357	0.612530293
225897_at	MARCKS	2.389522342	-0.818133676	0.001057357	0.8318346
224598_at	MGAT4B	0.193653677	-0.181490725	0.001060527	0.536812643
205660_at	OASL	-0.604026281	1.160344701	0.001063751	3.49E-05
209970_x_at	CASP1	0.712413658	-0.268762324	0.001064369	0.288350836
211345_x_at	NA	-0.205111936	0.081901416	0.001064369	0.995633912
214433_s_at	SELENBP1	2.563460315	-1.540776593	0.00106723	0.903934771
217963_s_at	NGFRAP1	-1.223320547	0.47569852	0.001068366	0.120958248
200650_s_at	LDHA	0.252926382	0.060763935	0.001071056	0.588133009
201470_at	GSTO1	0.311199639	-0.036275327	0.001090529	0.10868886
219069_at	ANKRD49	-0.474335969	0.031251937	0.001093928	0.43389187
203965_at	USP20	-1.08894718	0.499680564	0.001093928	0.89798823
201594_s_at	PPP4R1	1.10154637	-0.572707304	0.001096457	0.985246036
202345_s_at	FABP5	0.377048863	0.247235323	0.001097542	0.294008681
218090_s_at	BRWD2	0.625438618	-0.179312607	0.001097542	0.979534949
239294_at	NA	0.354495939	-0.014731561	0.00110019	0.799537746
224578_at	RCC2	-0.086507563	0.32406573	0.001121537	0.037131268
236295_s_at	NLRC3	-0.600298848	-0.041991022	0.001121537	0.044377504
235031_at	NA	-0.809008105	0.307707917	0.001121537	0.263100057
203665_at	HMOX1	2.500291563	-0.5648775	0.001133837	0.373126229
230435_at	FLJ30851	0.479801511	-0.240433389	0.001140188	0.13987084
225480_at	C1orf122	-0.087157643	0.282250782	0.001140188	0.168296669
208659_at	CLIC1	0.437370606	-0.088845216	0.001140188	0.281918872
222483_at	EFHD2	1.203413609	-0.163462089	0.001142888	0.236446042
228535_at	NA	-0.361076248	0.028389793	0.001142888	0.30930947
1553979_at	NA	-0.754227635	0.214333911	0.001142888	0.937331124
202087_s_at	CTSL1	1.080544027	-0.08598845	0.001146821	0.702728464
218676_s_at	PCTP	1.585716819	-0.340986431	0.001156633	0.741317175
209093_s_at	GBA	0.557941377	-0.121249838	0.001159262	0.441082694
223402_at	DUSP23	0.602838122	-0.2103776	0.001165671	0.976041024
205513_at	TCN1	1.176822572	-0.438009533	0.001170229	8.38E-05

238455_at	NA	2.193159988	-0.91047689	0.001170905	0.833794412
217848_s_at	PPA1	-0.495891702	0.11732995	0.00118883	0.15222217
226142_at	NA	1.092857262	-0.67462088	0.0011939	0.656313279
202464_s_at	PFKFB3	1.059175057	-0.19675884	0.0011939	0.661931359
212540_at	CDC34	1.169644297	-0.35101217	0.0011939	0.771748375
1559101_at	FYN	-0.868380524	0.298654732	0.001196094	0.434270224
244534_at	NA	-0.392972248	0.047386925	0.001203801	0.814628771
204440_at	CD83	1.480475215	0.590850051	0.001206384	0.649108461
213902_at	NA	1.005444601	-0.374332581	0.001209412	0.896518284
215175_at	PCNX	1.292517551	-1.040381237	0.001212063	0.055929852
220146_at	TLR7	1.816101614	-0.896592629	0.001220053	0.672959644
208638_at	PDIA6	0.104451472	0.141407961	0.001220053	0.82311223
228320_x_at	CCDC64	-0.999221851	0.238512409	0.001220853	0.994191349
200871_s_at	PSAP	0.932153889	-0.220818212	0.001221954	0.441082694
1555363_s_at	MGC39821	-0.785268735	-0.244959891	0.001227358	0.208174844
231853_at	TUBD1	-0.892071893	0.282296384	0.001227358	0.668848292
214866_at	PLAUR	0.993688873	-0.178499833	0.001227358	0.744028928
202924_s_at	PLAGL2	0.619427375	0.084341392	0.001227358	0.774297724
223339_at	NA	-0.671311832	0.240530454	0.001228117	0.441871819
226850_at	SUMF1	0.34645877	0.114859758	0.001229302	0.605290034
NuGO_eht0008938_at	PGLYRP1	0.496297431	-0.201946851	0.001246785	0.289695768
208438_s_at	FGR	1.334180638	-0.368118673	0.001248701	0.842951935
227614_at	HKDC1	-1.439447119	0.08640638	0.00125115	0.830545422
216396_s_at	EI24	0.411675827	0.532930262	0.001257642	0.999517788
227895_at	FAM120B	-0.493594034	0.093688714	0.001259034	0.850908368
224846_at	SHKBP1	0.749823432	-0.047591315	0.001261051	0.968868882
210044_s_at	LYL1	0.835016392	-0.32974406	0.001274763	0.471620007
202625_at	LYN	1.475671582	-0.403663587	0.001274763	0.515539082
203556_at	ZHX2	-0.649233434	0.357126536	0.001297407	0.848873166
1552716_at	SPEF2	-0.429171171	0.065835511	0.001297407	0.894742512
208890_s_at	PLXNB2	1.833143578	-0.453595567	0.001303382	0.738923038
218189_s_at	NANS	0.831215496	-0.17513808	0.001303382	0.764498033
227236_at	TSPAN2	1.008102136	-0.858211875	0.001305128	0.875281129
224706_at	KIAA2013	0.528514145	-0.001135538	0.001305342	0.950371775
227068_at	PGK1	0.468712973	-0.061363199	0.001309729	0.957509443
1563357_at	NA	-0.900436253	-0.903912083	0.001320368	0.2714244
203344_s_at	RBBP8	0.968778705	0.11276099	0.001329438	0.068041876
224647_at	CCNY	0.344036686	-0.162125327	0.001329597	0.51416557
205321_at	EIF2S3	1.62640712	-2.323936468	0.001331536	0.783162668
225592_at	NRM	0.864626019	-0.477882299	0.001334463	0.645808888
226068_at	SYK	1.318347471	-0.484654767	0.001340505	0.887833899
204512_at	HIVEP1	-0.444713226	-0.207177905	0.001340617	0.414413758
223207_x_at	PHPT1	0.236869935	0.054044485	0.001340617	0.661928812
228891_at	C9orf164	-0.470081175	-0.1874165	0.001341522	0.550865355
225838_at	EPC2	-0.178761808	-0.184321069	0.00134641	0.66185498
223065_s_at	STARD3NL	0.591689156	-0.015432772	0.001361647	0.302361675
202314_at	CYP51A1	0.451748687	0.05456699	0.001378643	0.642591955
212256_at	GALNT10	0.297201985	-0.076864231	0.001388829	0.79266311
200077_s_at	OAZ1	0.350966581	-0.148686818	0.001390654	0.98772197
212856_at	GRAMD4	0.632077691	-0.114765043	0.00139279	0.842170692
200965_s_at	ABLIM1	-0.936198148	0.616322851	0.001398548	0.834340715
202228_s_at	NPTN	0.48668484	-0.183423789	0.001401772	0.881092518
225318_at	NA	-0.733687801	0.193377832	0.001411506	0.768151271
202887_s_at	DDIT4	-0.256077888	-0.389062642	0.001412365	0.076110922
209118_s_at	TUBA1A	0.544816327	-0.171570481	0.001424012	0.757803114
207826_s_at	ID3	-1.79664397	0.038680768	0.001424012	0.832577987
212851_at	DCUN1D4	-0.65825079	0.123284974	0.001426118	0.724996993
235659_at	NA	0.445305647	-0.169564267	0.001442745	0.647544986
209695_at	PTP4A3	0.388204641	0.21735806	0.001446531	0.999517788

202331_at	BCKDHA	0.539275799	-0.167277412	0.001449157	0.894742512
202950_at	CRYZ	-1.14861196	0.320319304	0.001451992	0.174368562
226352_at	JMY	-0.729650384	0.120802421	0.001451992	0.786151239
202724_s_at	FOXO1	-0.891709062	0.460141432	0.001451992	0.98641219
209068_at	HNRPD_L	-0.702042575	0.229297041	0.001461564	0.992294764
227641_at	FBXL16	-0.463102513	-0.097436383	0.00147611	0.01126594
224739_at	PIM3	0.32561803	0.132439911	0.001478864	0.691335569
38487_at	STAB1	1.577172589	-0.75378312	0.001478864	0.954829705
201501_s_at	GRSF1	-1.314220407	1.130054292	0.001488227	0.044588454
213716_s_at	SECTM1	1.603285038	-0.622473304	0.001488227	0.515539082
212594_at	PDCD4	-0.53924665	0.520828878	0.001492795	0.76791736
210101_x_at	SH3GLB1	0.708989182	-0.352639043	0.001506553	0.24149423
207761_s_at	METTL7A	0.672629736	-0.167783214	0.001506728	0.484044363
203012_x_at	RPL23A	-0.152942801	0.082802902	0.001506728	0.913702953
201010_s_at	TXNIP	-0.035808741	-0.236997295	0.00152576	0.002201751
212400_at	FAM102A	-1.294910245	0.683943896	0.00152576	0.897515337
218079_s_at	GGNBP2	-0.459900231	0.066915836	0.00152925	0.629318145
235670_at	NA	1.614810595	-0.413976083	0.00152925	0.781197958
204436_at	PLEKHO2	1.030310834	-0.604824876	0.00152925	0.833799688
218358_at	CRELD2	0.074070454	0.218001379	0.00152925	0.998816553
203502_at	BPGM	1.436834173	-1.167189339	0.00152925	0.999810113
200847_s_at	TMEM66	-0.469851898	0.217744394	0.001534698	0.423780646
202100_at	RALB	1.09378189	-0.553784732	0.001565425	0.809268568
223538_at	SERF1A	-0.768209477	0.480163158	0.001594676	0.385358806
213083_at	SLC35D2	0.037200235	0.218161125	0.001601194	0.294445177
224612_s_at	DNAJC5	0.269894196	0.013174473	0.001610801	0.334568939
238694_at	NA	-1.182760986	0.74478863	0.001615649	0.626746356
224985_at	NA	0.327171576	0.049622814	0.001615649	0.771748375
224374_s_at	EMILIN2	2.478601828	-0.873266704	0.001620539	0.764165581
227017_at	ERICH1	0.665090666	-0.256677076	0.001620539	0.820523826
1007_s_at	DDR1	-0.40451351	0.236661077	0.001638802	0.019996352
1564776_at	LENG10	-0.863318833	-0.205827262	0.001647736	0.187001861
209734_at	NCKAP1L	0.927924949	-0.233243835	0.001655246	0.552121299
214473_x_at	PMS2L3	-0.602434571	0.178976866	0.001655246	0.771748375
203379_at	RPS6KA1	0.481219459	-0.041227387	0.001661866	0.431191803
202944_at	NAGA	1.766248426	-0.335729882	0.001661866	0.51416557
NuGO_eht0292586_s_at	LOC51149	-0.879884132	0.426808655	0.001661866	0.858889108
212334_at	NA	0.805685428	-0.112838431	0.001679796	0.669735386
204658_at	TRA2A	0.004559164	0.000679521	0.001679796	0.727545201
241916_at	NA	1.630014731	-0.647476482	0.001679796	0.89798823
223168_at	NA	1.030311579	-0.447926856	0.001687732	0.909374802
226353_at	SPPL2A	0.498494878	-0.063554219	0.001691705	0.509941044
202180_s_at	MVP	0.261697247	0.012721171	0.001693166	0.922195224
225036_at	FBXO10	-0.496286743	0.360897465	0.001694634	0.585852174
222108_at	NA	-0.763105434	0.298792088	0.001712986	0.89653798
225415_at	DTX3L	0.211739844	0.119271212	0.0017165	0.038725978
213005_s_at	KANK1	-1.59853386	2.255704568	0.001742623	0.010172606
226277_at	NA	0.50515814	-0.396544853	0.001754172	0.944590018
205863_at	S100A12	1.725401998	-0.319011097	0.001757279	0.516194331
224162_s_at	FBXO31	-1.309549417	1.028913971	0.001761241	0.639177275
210288_at	KLRG1	-1.512409148	0.303643574	0.001762517	0.272170266
236280_at	NA	-0.635057681	0.193417409	0.001762517	0.771140167
209251_x_at	TUBA1C	0.40309311	-0.116462101	0.001762517	0.833799688
225077_at	CHD2	-0.557578528	0.17181545	0.001765443	0.250919244
235745_at	ERN1	0.389790107	0.047943924	0.001765443	0.444756763
200920_s_at	BTG1	-0.407485643	0.227176505	0.001765443	0.78541585
212191_x_at	LOC388344	-0.2854763	0.098311868	0.001765615	0.897609426
224759_s_at	C12orf23	-0.907379662	0.66908927	0.001766435	0.57325113
226909_at	ZNF518B	-0.395037127	0.162706167	0.001766435	0.876375907

227803_at	ENPP5	0.974939541	-0.112725328	0.001767005	0.556565195
201170_s_at	BHLHB2	0.577730166	0.036877514	0.001767005	0.61117153
214735_at	PIP3-E	-0.592136908	0.021928052	0.001770896	0.638419833
208971_at	UROD	0.771316619	-0.259046339	0.001775455	0.764165581
214450_at	CTSW	-0.188740707	-1.311827321	0.001789232	2.25E-09
241435_at	NA	-1.398425744	0.167989115	0.001806399	0.145834681
227407_at	TAPT1	-0.587816406	0.468740034	0.00182371	0.764498033
209567_at	RRS1	-0.603098904	0.138145814	0.00182371	0.827758717
202605_at	GUSB	0.310857498	-0.094250019	0.00182371	0.878022798
235310_at	GCET2	-0.941250956	0.248019126	0.00182371	0.960837807
200018_at	RPS13	-0.211860926	0.083137366	0.001841393	0.975023268
208370_s_at	RCAN1	0.603499225	-0.068172891	0.001842541	0.64810048
204392_at	CAMK1	1.244432121	-0.644509603	0.001856854	0.590372548
200964_at	UBA1	-0.24006985	0.146158792	0.001865813	0.995880366
NuGO_eht0312908_s_at	ZNF585A	-0.326627974	-0.209533451	0.001874111	0.520111442
204918_s_at	MLLT3	-1.343216478	0.805757412	0.001875532	0.047981438
224866_at	MLSTD2	0.854374456	-0.387332474	0.001890091	0.780725905
201463_s_at	TALDO1	0.85474531	-0.435781331	0.001898935	0.612143605
201290_at	SEC11A	0.378856473	-0.168342618	0.001910544	0.97238406
219765_at	ZNF329	-0.887816973	0.008673892	0.001923586	0.650418361
208923_at	CYFIP1	1.887308811	-0.783148865	0.00192635	0.799537746
207727_s_at	MUTYH	-0.822314777	0.323968402	0.00192917	0.634756742
223110_at	KIAA1429	-0.396608326	0.123131761	0.00192917	0.802404351
213831_at	HLA-DQA1	6.7255078	-0.212576826	0.001932617	0.00880702
223220_s_at	PARP9	0.509843437	0.202288017	0.001932617	0.024782867
217730_at	TMBIM1	0.239191797	-0.116386407	0.001932617	0.145834681
1552370_at	C4orf33	0.274760983	0.463062146	0.001932617	0.352827665
219308_s_at	AK5	-0.827959629	0.273164155	0.001933818	0.423065538
212675_s_at	CEP68	-0.692415125	0.122437048	0.001938088	0.30815895
200099_s_at	NA	-0.171837091	0.039692062	0.001938088	0.645808888
210774_s_at	NCOA4	0.751411477	-0.619884628	0.001938814	0.997950785
206157_at	PTX3	1.451255088	0.412429689	0.001947384	0.743838997
217028_at	NA	-0.287105362	0.050728423	0.001953463	0.385358806
203104_at	CSF1R	1.732622386	-0.244230981	0.001953828	0.81895014
1552541_at	TAGAP	0.171977571	-0.792833503	0.001953911	0.51416557
NuGO_eht0328630_at	CD300E	2.449047176	-0.713998904	0.001954867	0.56643651
203117_s_at	PAN2	-1.315880817	0.792755093	0.001954867	0.837183373
1553551_s_at	NA	-0.11624021	-0.033881204	0.001954867	0.999185612
209389_x_at	DBI	0.263375353	0.139211834	0.00195524	0.464440656
203802_x_at	NSUN5	-0.719205249	0.332459115	0.001970113	0.569722264
226133_s_at	TBC1D10A	-0.342656558	0.277936346	0.001970113	0.740016568
208018_s_at	HCK	1.885983436	-0.65067187	0.001981367	0.768151271
200697_at	HK1	0.164876678	0.008477787	0.001986491	0.562203858
205624_at	CPA3	0.768577049	0.230641374	0.001993904	0.194790678
219571_s_at	ZNF12	-0.641824387	0.145848733	0.001993999	0.36979173
219551_at	EAF2	0.478166414	0.22926688	0.001995608	0.057787514
244777_at	NA	0.213928802	0.19627827	0.001995608	0.197106884
207753_at	ZNF304	-0.529731424	-0.257461646	0.001995608	0.905385033
203385_at	DGKA	-1.095695266	0.61096512	0.001998094	0.876375907
218659_at	ASXL2	-0.222209981	-0.049968201	0.002004639	0.24149423
78495_at	ZNF783	-0.613019954	0.159372717	0.002004639	0.695131975
200069_at	SART3	-0.702915964	0.126463914	0.002004901	0.922078025
200995_at	NA	-0.444051789	0.174193654	0.002008733	0.699792324
212709_at	NUP160	-0.715317902	0.321448268	0.002013928	0.90338479
229530_at	GUCY1A3	0.554971982	-0.24373128	0.002017217	0.00036554
203288_at	KIAA0355	-0.883175112	0.093825882	0.002017217	0.263724231
204254_s_at	VDR	1.246562747	-0.548071071	0.002026931	0.174368562
219915_s_at	SLC16A10	-1.196302228	0.411693865	0.002030833	0.431191803
221841_s_at	KLF4	0.979399393	0.006762433	0.002030965	0.746877884

205878_at	POU6F1	-0.553479729	-0.001690669	0.002032599	0.175129882
31826_at	FKBP15	0.676461131	-0.239764145	0.002039063	0.586448746
220486_x_at	NA	0.907277401	-0.540627656	0.002041069	0.84936988
226446_at	HES6	0.058812484	0.234001757	0.002041577	0.719474666
217741_s_at	ZFAND5	0.856183083	-0.357769208	0.002044829	0.780745613
218878_s_at	SIRT1	-0.467469173	0.066481653	0.002047573	0.988771153
238880_at	GTF3A	-1.197977493	0.261200079	0.002054322	0.139218813
203179_at	GALT	-0.705438617	0.172550658	0.002062191	0.661931359
225164_s_at	EIF2AK4	0.296044615	-0.039373523	0.00207524	0.262326456
226331_at	NA	-0.430676489	-0.060539389	0.002089274	0.968656068
225295_at	SLC39A10	-0.507010004	-0.209423642	0.00208999	0.444675894
205685_at	CD86	1.47623543	-0.459001584	0.00208999	0.585852174
225646_at	CTSC	0.323877078	0.159097488	0.002100274	0.021529075
224583_at	COTL1	0.789730811	-0.19051774	0.002102119	0.674431595
205692_s_at	CD38	0.099438505	1.654108722	0.002108689	4.46E-05
320_at	PEX6	-0.402095877	0.203301918	0.002111562	0.992281421
1553992_s_at	NBR2	0.518998196	0.144755567	0.002113953	0.217994344
205936_s_at	HK3	1.362228927	-0.128149143	0.002113953	0.636896546
225108_at	NA	0.542151525	-0.226073363	0.002122221	0.783162668
225805_at	HNRNPU	-0.345620469	0.061421844	0.00213205	0.922195224
205197_s_at	ATP7A	0.297958938	-0.267059607	0.002138352	0.978372806
217922_at	NA	-0.488837189	0.202698414	0.002144348	0.884195934
219299_at	TRMT12	-0.25317558	0.131957955	0.002151524	0.930473427
204001_at	NA	0.631615046	-0.012058434	0.002169589	0.83622417
202531_at	IRF1	0.719847227	-0.06566806	0.002169589	0.988420915
235523_at	NA	-0.642132514	0.204034625	0.002169589	0.997950785
216199_s_at	NA	-0.958410647	0.486050887	0.002193036	0.832017035
201448_at	TIA1	-0.463529651	0.174454121	0.002193036	0.906198278
226749_at	MRPS9	-0.642489556	0.176153484	0.002193036	0.943332256
234970_at	TC2N	-0.662890094	0.230562567	0.002199745	0.233323389
204306_s_at	CD151	0.434117932	-0.564407888	0.002214487	0.2714244
214683_s_at	CLK1	-0.5099315	0.210932484	0.002214487	0.568396806
224579_at	SLC38A1	-0.849222037	0.463830944	0.002214487	0.946360951
214054_at	DOK2	0.621811596	-0.15330807	0.002216578	0.865617787
218802_at	CCDC109B	-0.72699328	0.408967975	0.00221746	0.897515337
91703_at	EHBP1L1	1.090246338	-0.179046682	0.00221746	0.89798823
224800_at	WDFY1	0.636865364	-0.017373881	0.00222119	0.890259381
218304_s_at	OSBPL11	0.971310877	-0.503860012	0.002223486	0.955409406
209605_at	TST	1.690747273	-1.092302788	0.002241468	0.811836594
219870_at	ATF7IP2	-1.218624387	0.36469492	0.002248161	0.956930689
203518_at	LYST	0.993485209	-0.459491973	0.002248707	0.962793415
203656_at	FIG4	0.507648088	-0.085339887	0.002258425	0.388360777
225570_at	SLC41A1	-0.336214137	0.20892286	0.002258425	0.859546583
224512_s_at	LSMD1	0.467168532	0.05521945	0.002276897	0.131940597
224910_at	CARHSP1	-0.419480991	0.117591624	0.002279522	0.661302832
207163_s_at	AKT1	1.240587825	-0.149105912	0.002279522	0.983533905
201484_at	SUPT4H1	0.360917717	-0.055999924	0.002290908	0.637510767
225982_at	UBTF	-0.767916493	0.525961849	0.002292493	0.799021169
225658_at	SPOPL	0.843740196	-0.329558873	0.002292493	0.843725215
200017_at	RPS27A	-0.252397814	0.138346939	0.002292493	0.943843445
225936_at	EID2	-0.66120394	0.331854333	0.002293557	0.872613674
NuGO_eht0262807_s_at	NA	1.474391118	-0.374224082	0.002305271	0.297634509
219672_at	ERAF	2.365898205	-1.686080297	0.002314019	0.820836966
117_at	NA	2.831830046	-1.452202713	0.002314019	0.958846282
232884_s_at	DKFZp434J1015	-0.564912855	0.157938031	0.002325475	0.373126229
225401_at	C1orf85	0.351624039	-0.42142622	0.002326196	0.505627756
210038_at	NA	-0.79200693	0.300111077	0.002326196	0.767267581
217976_s_at	DYNC1LI1	0.208242426	0.010644419	0.002326196	0.995880366
200807_s_at	HSPD1	-0.559451334	0.316517264	0.00232797	0.547568301



206111_at	RNASE2	1.377130056	-0.637404992	0.00233158	0.955960731
227930_at	EIF2C4	0.949742712	-0.531829306	0.00233488	0.18069407
202165_at	PPP1R2	-0.744745853	0.313474857	0.002337354	0.1976133
208898_at	ATP6V1D	0.40318559	-0.091735364	0.002337354	0.236524037
235171_at	NA	0.547078561	0.203804402	0.002337354	0.43311743
219788_at	PILRA	2.272682446	-0.914341848	0.002337354	0.81358548
218573_at	MAGEH1	-0.575612328	0.201434681	0.002349358	0.954458762
243999_at	SLFN5	-0.391752508	-0.466061915	0.002360833	0.987507281
201234_at	ILK	0.547746987	-0.21001821	0.002367084	0.425890819
NuGO_eht0328980_x_at	NA	3.632035281	-1.47744872	0.002382837	0.958203979
203823_at	RGS3	0.47836315	0.131368336	0.002387896	0.044377504
202896_s_at	NA	1.86110583	-1.053311244	0.002394069	0.904564026
226354_at	LACTB	1.040949972	-0.451836549	0.002413522	0.504856874
217870_s_at	CMPK1	-0.631279959	0.349612408	0.002413522	0.904610663
202652_at	APBB1	-0.7778684	0.457889699	0.002426048	0.79076862
1569597_at	NA	-0.50358841	-0.090640823	0.002431063	0.277560915
215239_x_at	ZNF273	-0.332391673	0.180909252	0.002433832	0.618364805
218723_s_at	C13orf15	-0.852415177	0.234666523	0.002435356	0.393079423
1556283_s_at	FGFR1OP2	1.78190121	-1.321570836	0.002440738	0.999189708
218870_at	ARHGAP15	-0.48208665	0.43096631	0.002442749	0.088819077
201765_s_at	HEXA	0.249624647	0.160475537	0.002463433	0.802885933
201760_s_at	WSB2	0.286730036	-0.031500158	0.002469774	0.416483254
202853_s_at	RYK	-0.415309878	0.19377234	0.002473503	0.308761637
224983_at	SCARB2	0.812287444	-0.29067416	0.002473503	0.960023572
204811_s_at	CACNA2D2	0.264650449	0.461409002	0.002482034	0.656385492
43544_at	MED16	-1.227632326	0.667384486	0.002482313	0.08919068
209269_s_at	NA	1.403027327	-0.380354195	0.002485536	0.877157693
227505_at	NA	-0.11030125	-0.284159686	0.002519165	0.150185202
219126_at	PHF10	-0.758527594	0.319863854	0.002519165	0.646374023
203005_at	LTBR	1.9290271	-0.758126246	0.002529978	0.587128418
236149_at	NA	-1.103502921	-0.026960667	0.002533375	0.477842397
236832_at	LOC221442	-1.315197874	0.253347631	0.002542638	0.46436825
210746_s_at	EPB42	2.685280748	-2.196166816	0.002550022	0.827648533
226371_at	JARID1A	-0.135578677	-0.326138361	0.002550022	0.99159953
213241_at	PLXNC1	0.985739619	-0.476738735	0.002559379	0.904564026
218208_at	PQLC1	0.32578076	0.009004605	0.002563908	0.812761435
218862_at	ASB13	0.822712198	-0.611748722	0.002581643	0.501165477
215838_at	LILRA5	3.084506805	-2.021184126	0.002588808	0.851044646
213283_s_at	SALL2	-0.953003561	0.3887262	0.002600872	0.857210002
209020_at	C20orf111	0.49358007	-0.153455187	0.002603008	0.937955673
224744_at	IMPAD1	0.577375388	-0.185747609	0.002625523	0.527623906
229232_at	LRRC57	0.342392854	-0.156861104	0.002634867	0.738560382
210279_at	GPR18	-0.569511059	0.004230931	0.002634867	0.782685529
204099_at	SMARCD3	1.403789949	-0.588619164	0.002640136	0.946511836
204647_at	HOMER3	1.588411891	-0.737958753	0.002640136	0.983271165
206120_at	CD33	2.159199245	-1.156919395	0.002640136	0.994424302
223047_at	CMTM6	0.573951188	-0.223429409	0.002656827	0.764498033
213733_at	MYO1F	0.889118392	-0.370311929	0.002664969	0.898820166
212262_at	QKI	1.217670051	-0.494755993	0.002677287	0.949579772
223015_at	EIF2A	-0.255372107	0.10404727	0.002681956	0.873296474
226085_at	NA	-0.540374611	-0.718243653	0.002682426	0.035124951
235013_at	SLC31A1	0.769171992	0.002261119	0.002693337	0.352827665
NuGO_eht0357125_at	NA	2.189475694	-0.624013713	0.002693337	0.640254992
218544_s_at	RCL1	-0.426047349	0.046307499	0.002696874	0.466521625
227261_at	KLF12	-0.485033389	0.089719396	0.002723956	0.904610663
221970_s_at	NA	-0.839274624	0.321798457	0.002723956	0.985049625
235593_at	ZEB2	1.67131314	-0.142218199	0.002781788	0.804685373
235054_at	NUDT16	1.092673827	-0.670045685	0.002781788	0.987507281
223433_at	C7orf36	-1.457616294	0.637971234	0.002783675	0.801732165

32837_at	AGPAT2	0.632125291	-0.226746034	0.002783675	0.84835902
235484_at	NA	-0.381075177	-0.303373221	0.002783675	0.871532377
NuGO_eht0199708_at	NA	1.497312416	-0.867766681	0.00279624	0.738923038
219007_at	NA	-0.7270157	0.321343285	0.00279624	0.942543204
212238_at	ASXL1	-0.199606072	0.06185958	0.002805467	0.91985611
201967_at	RBM6	-0.744721861	0.568356487	0.002805941	0.693709936
65588_at	LOC388796	-0.13478164	0.252543297	0.002821444	0.083278196
218217_at	SCPEP1	1.511938225	-0.264184785	0.002821444	0.76112203
225337_at	ABHD2	0.905952877	-0.295654586	0.002821444	0.786151239
201809_s_at	ENG	0.482683337	-0.032786623	0.002821444	0.855385696
213587_s_at	ATP6V0E2	-0.836294723	0.679793586	0.002821444	0.858427331
218614_at	C12orf35	-0.357432488	0.08819632	0.002822457	0.492264438
218032_at	SNN	0.529244796	-0.192256421	0.002831918	0.30815895
219079_at	CYB5R4	0.934537871	-0.405113516	0.002831918	0.612372046
219513_s_at	SH2D3A	-0.96449299	0.132675899	0.002832684	0.832017035
244487_at	NA	-0.597320515	0.313088731	0.002836057	0.894370094
1553043_a_at	CD300LF	2.059326284	-0.440206431	0.00285228	0.816291744
219938_s_at	PSTPIP2	0.418228471	0.234391216	0.002854014	0.910260055
204072_s_at	FRY	1.047398894	-0.645452235	0.002871464	0.43311743
230788_at	GCNT2	0.465894504	-0.17518225	0.00287891	0.318708232
226230_at	NA	-0.49281136	0.225067399	0.00287891	0.837284584
206698_at	XK	1.518553547	-1.520611297	0.002885072	0.698245884
201422_at	IFI30	1.574738659	-0.37442924	0.002885378	0.411397604
209473_at	NA	2.193615479	-1.293652362	0.002885518	0.919643125
222839_s_at	PAPOLG	-0.245398222	-0.125693759	0.002892126	0.464341331
202025_x_at	ACAA1	0.2897522	-0.133273271	0.002892126	0.72171136
210254_at	MS4A3	0.76654387	-0.324670118	0.002895173	0.00459504
235189_at	NARG2	-0.395893604	-0.170158012	0.002904075	0.493171615
236297_at	NA	1.837672015	-0.800026287	0.002920363	0.559586125
226495_at	NA	0.002202808	-0.07118303	0.002920363	0.70439151
213019_at	RANBP6	-0.337454024	0.062493865	0.002920479	0.896372743
221731_x_at	VCAN	1.526493316	-0.418713764	0.002948354	0.639833788
209311_at	BCL2L2	0.920715949	-0.456910251	0.002959321	0.740016568
212975_at	DENND3	1.6891293	-0.730670175	0.002964039	0.997738568
236841_at	WASH3P	-0.32135449	0.055485379	0.002976873	0.06312125
212337_at	TUG1	-0.36420511	-0.160425694	0.002976873	0.185490454
244461_at	SPECC1	1.9644854	-1.198896652	0.002976873	0.639677687
226763_at	SESTD1	1.123541949	0.093281812	0.002976873	0.79440471
200089_s_at	RP14	-0.435598153	0.213860405	0.002979588	0.833799688
225032_at	FNDC3B	0.809174666	-0.546453859	0.002981974	0.832214764
NuGO_eht0299756_at	NA	1.860179669	-1.339764157	0.003000986	0.086411815
210105_s_at	FYN	-0.283051717	0.149416978	0.003000986	0.509941044
224810_s_at	ANKRD13A	0.077055543	0.045558652	0.003000986	0.898153007
222231_s_at	LRRC59	0.377555255	-0.094025812	0.003000986	0.922078025
206648_at	ZNF571	-1.300146297	0.126608898	0.003000986	0.943843445
227813_at	THAP6	-0.561353246	0.149091966	0.003007875	0.58610706
227450_at	ERP27	-1.154731466	0.243605477	0.003011731	9.92E-05
206284_x_at	CLTB	0.600301108	-0.091681785	0.003011731	0.799021169
224838_at	FOXP1	-0.584825263	0.266765421	0.003011731	0.843255722
218882_s_at	WDR3	-0.517230696	0.037932558	0.003011731	0.932570215
212693_at	NA	-0.802218834	0.363657867	0.003012921	0.751101514
221631_at	CACNA11	-1.059614855	-0.102632849	0.003014282	0.49376536
226662_at	STX17	-0.343760765	-0.107647491	0.003046584	0.279734735
204527_at	MYO5A	0.699960525	-0.401684579	0.003062407	0.922195224
228174_at	NA	-1.538609833	0.51823475	0.003062516	0.476919954
218021_at	DHRS4	0.641957921	-0.278202102	0.003068909	0.707888244
219315_s_at	TMEM204	-1.526502022	1.199251379	0.003071145	0.558007005
219952_s_at	MCOLN1	0.939552944	-0.310253887	0.003071145	0.98157635
223032_x_at	PRELID1	0.733449401	-0.233974751	0.003076291	0.797828289

202969_at	NA	-0.69313034	0.300932698	0.003087434	0.555601864
202203_s_at	AMFR	1.037919331	-2.543118952	0.00309449	1.70E-05
225574_at	RWDD4A	0.033888776	0.43734009	0.003102355	0.940171644
204336_s_at	RGS19	0.426914105	-0.091680095	0.003110926	0.837469551
37152_at	PPARD	-0.505500912	0.143972911	0.003126083	0.175129882
236155_at	NA	0.879272933	-0.447627296	0.003126583	0.859546583
200832_s_at	SCD	-0.083487223	0.623545312	0.003126583	0.935905966
201666_at	TIMP1	0.628871458	-0.104369211	0.003132985	0.091935879
226140_s_at	OTUD1	0.410068254	0.083643012	0.003132985	0.481916363
208130_s_at	TBXAS1	1.811297622	-0.511650443	0.003132985	0.702509216
203485_at	RTN1	3.371684098	-0.889981979	0.003132985	0.825387062
202641_at	ARL3	0.390777681	-0.087544642	0.003132985	0.830602464
209134_s_at	RPS6	-0.267819431	0.130533547	0.003132985	0.881062877
219123_at	ZNF232	-0.566609222	0.397024459	0.003132985	0.992294764
212190_at	SERPINE2	-0.196245079	0.435271833	0.003138587	0.012273944
200882_s_at	PSMD4	-0.023358164	0.082024851	0.003141092	0.771748375
211336_x_at	LILRB1	1.816252928	-0.419467901	0.003155115	0.759359489
228171_s_at	PLEKHG4	-0.959419977	0.386798884	0.003161481	0.505952194
205896_at	SLC22A4	2.064645769	-1.217867447	0.003162063	0.756369582
201257_x_at	RPS3A	-0.047417503	-0.022078115	0.003176282	0.484659195
212455_at	YTHDC1	-0.248041426	0.108205252	0.003182031	0.611326034
201536_at	NA	0.985368195	-0.51343911	0.003182031	0.705885817
200931_s_at	VCL	0.645846288	-0.465308424	0.003186708	0.92562062
200725_x_at	RPL10	-0.139020022	0.061947027	0.003203552	0.898820166
225470_at	NUP35	-0.623564441	0.00142406	0.003203552	0.904900122
225251_at	RAB24	1.042963385	-0.453917811	0.003207051	0.833799688
206743_s_at	ASGR1	1.685479314	-0.829235156	0.003208543	0.985246036
201798_s_at	FER1L3	1.086324267	-0.285404697	0.003212872	0.749675937
NuGO_eht0348956_at	NA	0.18338378	0.196791391	0.003212919	0.294445177
223076_s_at	NSUN2	-0.456732385	0.306057686	0.003222471	0.861011055
200091_s_at	RPS25	-0.383928661	0.189509397	0.003249786	0.85489448
221478_at	BNIP3L	0.894471184	-0.675133695	0.003278265	0.646374023
212447_at	KBTBD2	-0.306143413	-0.329245748	0.003301303	0.238518212
209604_s_at	GATA3	-1.045429103	0.366708115	0.00330474	0.686805315
201576_s_at	GLB1	0.923701856	-0.388644716	0.003305635	0.84233886
230536_at	PBX4	-1.196188034	0.502865245	0.003310686	0.492264438
238493_at	NA	-0.82366686	0.079882431	0.003310686	0.632895589
202251_at	PRPF3	-0.60971052	0.170182882	0.00331077	0.246681877
208763_s_at	TSC22D3	-0.023965177	-0.351287668	0.003310938	0.04023339
221726_at	NA	-0.64748945	0.271119474	0.00331716	0.968656068
201441_at	COX6B1	0.064027092	0.051262355	0.003327313	0.832398541
205486_at	TESK2	0.193767047	-0.00427326	0.003327313	0.922195224
213619_at	HNRPH1	-0.778971678	0.521732906	0.003337177	0.884404402
218846_at	MED23	-0.634237326	0.192063161	0.003353587	0.839096685
215047_at	NA	1.125389639	-0.971390348	0.003374377	0.51918451
204066_s_at	CENTG2	0.262346286	-0.060906812	0.003374377	0.763839459
202450_s_at	CTSK	1.283961084	-0.385086826	0.003374377	0.871102958
203526_s_at	APC	0.117257107	-0.548636228	0.003374377	0.954458762
204232_at	FCER1G	1.217132889	-0.301515568	0.003378753	0.252930179
38671_at	PLXND1	1.319398731	-0.358745552	0.003378753	0.862021264
224807_at	GRAMD1A	-0.58652563	0.322460616	0.003378753	0.93014938
207618_s_at	BCS1L	-0.769366082	0.158678176	0.003382241	0.661740035
219648_at	MREG	-0.659706565	0.398496669	0.003382241	0.718433144
207765_s_at	KIAA1539	1.563753057	-0.837316886	0.003382241	0.943116114
1559502_s_at	LRRC25	2.484668375	-1.052880242	0.003399277	0.645808888
202009_at	TWF2	0.117965357	0.124852776	0.003407954	0.075187628
218351_at	COMMD8	0.336647725	-0.067650825	0.003423939	0.845074987
35974_at	LRMP	0.480377533	-0.220266469	0.003426023	0.873296474
209684_at	RIN2	2.257555546	-0.632491978	0.003426621	0.937955673

227811_at	FGD3	-0.405076045	0.183501549	0.003426805	0.851279863
201191_at	PITPNA	0.529750133	-0.229702512	0.003448698	0.830468699
218709_s_at	IFT52	0.254712684	0.067529099	0.003450253	0.816224614
202651_at	LPGAT1	0.360616608	-0.179371946	0.003453467	0.652668321
204497_at	ADCY9	0.570621773	-0.616323863	0.003458215	0.239461368
224904_at	NA	0.340518189	0.178426335	0.003459796	0.155261057
204205_at	APOBEC3G	0.597784724	-0.127592889	0.003459796	0.614630761
222478_at	VPS36	-0.231481171	0.055180111	0.003471946	0.775384513
1557411_s_at	SLC25A43	1.220333323	-0.283117553	0.003487447	0.612145332
209166_s_at	MAN2B1	0.581833616	-0.196013365	0.003494855	0.997883388
224648_at	GPBP1	-0.603118774	0.230316185	0.003523	0.30815895
221492_s_at	ATG3	0.455049137	-0.142390163	0.003523	0.767030298
226059_at	TOMM40L	0.646458831	-0.115965912	0.003523	0.891848288
47530_at	C9orf156	-0.475312016	-0.156365613	0.003532981	0.943843445
213573_at	KPNB1	-0.835592535	0.442466024	0.003547536	0.40823509
225404_at	C1orf212	0.127678433	0.103409797	0.00355693	0.250919244
204417_at	GALC	0.463842764	-0.085887999	0.003560398	0.904564026
200032_s_at	RPL9	-0.292745413	0.108712768	0.003574215	0.798978035
204767_s_at	FEN1	0.084493948	0.379653563	0.003576474	0.064765971
1553133_at	C9orf72	1.694597201	-0.436287262	0.003590604	0.613677244
203603_s_at	ZEB2	1.388371342	-0.270834553	0.003590604	0.719491721
225485_at	TSGA14	-1.311631063	0.618982468	0.003590604	0.999517788
233651_s_at	NA	0.627233664	-0.139456076	0.003611605	0.661571222
218794_s_at	TXNL4B	-0.498182359	0.112101321	0.003619936	0.919643125
227791_at	SLC9A9	0.411939675	-0.099280252	0.003621214	0.128020182
204256_at	ELOVL6	0.507892135	0.449769536	0.003621214	0.913702953
218997_at	POLR1E	-0.175137843	0.210220744	0.003621214	0.980809934
213376_at	ZBTB1	-0.175262026	0.181050273	0.003621846	0.925267146
236379_at	NA	-1.533993652	0.717284668	0.003624525	0.887833899
232194_at	METTL4	-0.634720692	0.296700339	0.003626995	0.368733103
202700_s_at	TMEM63A	-0.611948688	0.115362032	0.003640768	0.744028928
210690_at	KLRC4	0.216445453	0.264787508	0.003648125	0.003965178
223013_at	TBL1XR1	-0.304869367	0.058055519	0.003649918	0.998808014
222580_at	ZNF644	-0.464984587	-0.010259181	0.003658982	0.914248051
221657_s_at	ASB6	0.157515896	0.147391164	0.003659093	0.626746356
210164_at	GZMB	0.572576041	0.347757011	0.003666749	0.272997863
207314_x_at	KIR3DL2	0.391661476	-0.364913798	0.003666749	0.717940433
232617_at	CTSS	1.387236396	-0.470296551	0.003666749	0.943843445
227618_at	NA	1.287095749	-0.936735872	0.003683505	0.894930211
225048_at	PHF10	-0.950477894	0.57490942	0.003742271	0.646374023
211058_x_at	TUBA1B	0.237003677	-0.011399098	0.003747091	0.612143605
213564_x_at	NA	-0.607408833	0.326306783	0.003774325	0.894152075
228937_at	C13orf31	1.104664748	-0.131991399	0.003777376	0.764498033
223852_s_at	STK40	0.621947325	-0.260212561	0.003799227	0.833799688
205739_x_at	ZNF107	-0.811799139	0.342111172	0.003800605	0.748393417
208146_s_at	CPVL	1.845158071	-0.767308533	0.003818326	0.924665246
235959_at	ARID4B	-1.444320809	0.868272586	0.003835011	0.026967312
225615_at	LOC126917	-0.436352825	0.074034314	0.003845569	0.265205698
227172_at	TMEM116	-0.358108866	-0.207348999	0.003847984	0.825387062
204040_at	RNF144A	-0.990548121	0.65136809	0.003854957	0.423065538
204453_at	ZNF84	-1.059552484	0.467151725	0.003858623	0.843725215
236160_at	NA	-0.549413081	-0.135380377	0.003868181	0.521710821
202029_x_at	RPL38	-0.210361474	0.089260395	0.003868181	0.764165581
212657_s_at	NA	2.731227814	-0.824677362	0.003871101	0.497001869
50221_at	TFEB	1.029049942	-0.393034405	0.003899702	0.579303019
211596_s_at	LRIG1	-1.167389574	0.261672962	0.003899702	0.695704666
212820_at	DMXL2	1.786078899	-0.448522438	0.003907052	0.983533905
207113_s_at	TNF	0.935167448	0.584871484	0.003920467	0.406349112
218361_at	GOLPH3L	-0.753892525	0.273087198	0.003923011	0.611326034

220239_at	KLHL7	0.380170763	-0.028718126	0.003923011	0.645465151
206572_x_at	ZNF85	-0.462866364	-0.054136809	0.003924115	0.764498033
NuGO_eht0357264_s_at	EIF4A2	-0.247810146	-0.178575475	0.003927394	0.994106282
225416_at	NA	-0.318795913	-0.150599211	0.003946919	0.989031876
228561_at	CDC37L1	-0.991984053	0.010624603	0.00395844	0.724468512
200909_s_at	RPLP2	-0.304680158	0.181655143	0.003966407	0.876375907
204700_x_at	C1orf107	-1.22901321	-0.062231845	0.003966407	0.904802305
229854_at	OBSCN	-1.092627909	0.519548199	0.003966407	0.942805452
222518_at	ARFGEF2	-0.475079839	0.139841498	0.003981775	0.88996466
227156_at	TNRC8	-0.848031619	0.195995825	0.004006835	0.37975166
213701_at	C12orf29	-0.752474502	0.381783852	0.004031093	0.924636049
202478_at	TRIB2	-0.544090011	-0.013701579	0.00405042	0.850908368
201200_at	CREG1	1.164010672	-0.323119656	0.004069557	0.774297724
210592_s_at	SAT1	0.822134704	-0.268745282	0.004124866	0.944590018
1553508_at	NA	-0.771597914	0.283914897	0.004138625	0.55292709
1553994_at	NT5E	-2.121475457	0.917885686	0.004149477	0.11141249
205841_at	JAK2	1.508392663	-0.665926428	0.004152467	0.872613674
209815_at	PTCH1	-0.196138497	-0.043024783	0.004175865	0.904610663
220054_at	IL23A	-0.770570522	0.053002126	0.004185255	0.76112203
211404_s_at	APLP2	1.207458338	-0.379168833	0.004198203	0.330120964
200814_at	PSME1	0.073391079	0.148289896	0.00420424	0.519273076
202645_s_at	MEN1	-0.945988399	0.544286543	0.00420424	0.983098839
217614_at	NA	-0.365608166	0.037656171	0.004212024	0.832214764
223411_at	MIF4GD	0.109096944	0.132804254	0.004228919	0.34563726
225923_at	NA	-0.816185332	0.426122702	0.00424157	0.275075472
205801_s_at	NA	-0.905972665	0.669555372	0.004245394	0.055201671
226867_at	DENND4C	-0.184444291	0.003519849	0.004249076	0.587183497
219361_s_at	ISG20L1	-0.67222737	0.105366755	0.004250511	0.832577987
228760_at	NA	-0.303645949	0.142291324	0.004255574	0.632898697
217835_x_at	C20orf24	0.621380128	-0.148535374	0.004261321	0.853488589
213674_x_at	IGHG1	0.502106069	0.445706406	0.004268115	0.035478897
212893_at	ZZZ3	-0.67997657	0.304511949	0.004291504	0.795103711
208632_at	RNF10	0.470833531	-0.113785917	0.004292686	0.707258276
227026_at	MPHOSPH8	-0.757437999	0.308913944	0.004293901	0.649674431
203501_at	NA	0.631974536	-0.210749133	0.004330121	0.634965088
222764_at	ASRGL1	0.954010095	-0.490524254	0.004330121	0.983098839
210176_at	TLR1	1.54077581	-1.074729589	0.004344486	0.638419833
208424_s_at	CIAPIN1	-0.873363231	0.523149424	0.00435734	0.773103752
230566_at	C22orf27	-0.930395547	0.406392692	0.004363841	0.885217618
228238_at	CENPL	-0.645392712	0.139331282	0.004370627	0.196105795
203468_at	NA	-1.089012892	0.677752308	0.004370627	0.912524213
217908_s_at	IQWD1	0.279059271	-0.029838555	0.004375912	0.889532921
220147_s_at	FAM60A	-0.539359751	0.200195639	0.004402785	0.87453593
212945_s_at	MGA	-0.291304222	0.063723065	0.004402785	0.904610663
212914_at	CBX7	-0.572604193	0.128898148	0.004419051	0.436197462
224698_at	FAM62B	-0.301237753	0.266589793	0.004419051	0.589457665
231990_at	USP15	1.671888701	-0.841896437	0.004419051	0.827357224
201675_at	AKAP1	-0.665976335	0.344039097	0.004428987	0.749094966
210116_at	SH2D1A	-0.382393235	0.193604812	0.004428987	0.94348855
205690_s_at	BUD31	0.046422558	0.10897917	0.004442968	0.105699583
226098_at	IFT80	-0.723433195	0.339049917	0.00448577	0.752296897
200094_s_at	EEF2	-0.289717377	0.178295242	0.00448577	0.89798823
215499_at	MAP2K3	0.839273974	-0.448742598	0.004488967	0.779772404
202716_at	PTPN1	-0.011589708	0.307818693	0.00449115	0.661302832
212124_at	ZMIZ1	0.850035665	-0.345610513	0.00449115	0.84233886
226433_at	RNF157	-1.284705047	0.603284643	0.00449115	0.988628991
213093_at	PRKCA	-1.039426051	0.54051804	0.004498543	0.880255051
213119_at	SLC36A1	0.528187227	-0.150868095	0.004498543	0.980569589
212792_at	DPY19L1	0.52714881	-0.117562154	0.004548354	0.519273076

218071_s_at	MKRN2	-0.359318027	0.241572832	0.004567362	0.946360951
214696_at	C17orf91	1.709092435	-0.47811029	0.004606084	0.880255051
202917_s_at	S100A8	0.902945091	-0.141634815	0.004620253	0.751101514
229265_at	NA	-0.546175412	0.139294499	0.004641871	0.166916193
228927_at	NA	-0.663085394	-0.120077193	0.004641871	0.208174844
218718_at	PDGFC	2.105492794	-1.446406979	0.004641871	0.566063631
222789_at	NA	-0.59900693	0.158924549	0.004641871	0.8318346
201432_at	CAT	0.854742528	-0.489418235	0.004641871	0.913702953
225525_at	CTA-221G9.4	-0.735836418	1.135255653	0.004672523	0.295157667
227747_at	MPZL3	0.244200093	-1.183892204	0.00468317	0.00459504
200000_s_at	PRPF8	-0.599157082	0.233104886	0.004690208	0.827758717
225665_at	ZAK	1.786515743	-0.709223892	0.004694084	0.947086151
NuGO_eht0355509_x_at	ZNF28	-0.758099205	-0.233651905	0.004711192	0.393146864
205484_at	SIT1	-1.049841273	0.422959008	0.004722672	0.748682067
228424_at	NAALADL1	0.862812263	-0.133151033	0.004722672	0.862012932
209367_at	STXBP2	1.162721617	-0.21193991	0.004722672	0.926216404
206715_at	TFEC	2.330755024	-0.764115656	0.0047296	0.805029049
209171_at	ITPA	0.104918983	0.002196779	0.004738405	0.284516319
213237_at	LOC400506	-0.247389059	-0.387674833	0.004738405	0.51416557
214426_x_at	NA	0.38269346	0.053312709	0.004747639	0.824149423
226160_at	H6PD	0.288286151	0.129153787	0.004751884	0.82311223
1553978_at	MEF2B	0.387315382	-0.102131547	0.00476738	0.747956283
1554249_a_at	ZNF638	-0.173204937	-0.337425697	0.004790171	0.459087141
40446_at	NA	-0.604221024	0.243992011	0.004796519	0.613382443
240862_at	RASGRP4	1.255544696	-0.734554805	0.004839432	0.943116114
204576_s_at	CLUAP1	-1.190581161	0.359211346	0.00484862	0.282672267
214684_at	MEF2A	0.445035543	-0.14240884	0.00484862	0.642173954
210166_at	TLR5	0.999867631	-0.493677902	0.00484862	0.884404402
200026_at	RPL34	-0.207565174	0.102010574	0.00484862	0.995880366
222514_at	RRAGC	0.443257474	-0.009826156	0.004857788	0.989168893
200992_at	IPO7	-0.332440556	-0.046738164	0.004859496	0.857493976
212017_at	LOC130074	-0.347816885	0.231921337	0.004872818	0.992149038
201596_x_at	KRT18	-0.586674226	0.281115375	0.004899866	0.995944277
220987_s_at	NUAK2	-0.220726968	-0.202086176	0.004914547	0.895914675
228920_at	ZNF260	-0.830423718	0.231430002	0.004917566	0.898153007
212313_at	CHMP7	-1.213466286	0.588993401	0.004929546	0.919514428
1556034_s_at	MTMR11	1.160794779	-0.418225786	0.00493667	0.464440656
225421_at	PM20D2	-0.616112242	0.357124774	0.004937796	0.979982513
204689_at	NA	1.031564821	-0.284064791	0.004950816	0.433450495
227178_at	CUGBP2	-0.771622244	0.146165145	0.004950816	0.492264438
208760_at	NA	-0.43507361	0.044786753	0.004950816	0.979982513
201989_s_at	CREBL2	-0.235247466	0.003719494	0.004952057	0.768743708
200829_x_at	ZNF207	0.098159392	0.092402675	0.004955944	0.956533132
239083_at	ZNF786	-0.883277976	0.22294632	0.004960367	0.787428221
209583_s_at	CD200	-0.600302508	0.199524991	0.004965732	0.002769802
209657_s_at	HSF2	-1.030562794	0.629732497	0.005005015	0.767030298
228829_at	ATF7	0.102527661	0.092840766	0.005006627	0.105699583
202447_at	DECR1	0.143016085	0.053659777	0.005006627	0.75545014
214152_at	PIGB	0.801099815	-0.456428009	0.005006627	0.858427331
204094_s_at	TSC22D2	-0.456477031	0.090404274	0.005006627	0.858888861
222630_at	RFXDC2	-0.416908537	0.157073147	0.005006627	0.904610663
227216_at	RLTPR	-0.912473712	0.554239449	0.005030356	0.987507281
203335_at	PHYH	-0.119681775	0.199387286	0.005036656	0.490016512
202086_at	MX1	0.217154951	0.740168113	0.005066472	1.78E-09
207075_at	NLRP3	2.141907823	-1.193919211	0.005072925	0.895881966
229560_at	TLR8	1.881723706	-0.934627023	0.005080378	0.699736967
202449_s_at	RXRA	1.075753305	-0.413269787	0.005080378	0.767267581
202897_at	SIRPA	2.631140246	-1.300455846	0.005080378	0.76791736
204599_s_at	MRPL28	0.447427311	0.014528736	0.005080378	0.768563482

212813_at	JAM3	-1.004258945	0.517320716	0.005080645	0.452445968
213742_at	SFRS11	-1.862227045	1.339727659	0.005097116	0.781611456
203535_at	S100A9	1.396464841	-0.198398744	0.005112104	0.805511801
1558996_at	NA	-0.487412644	-0.019308263	0.005112705	0.075187628
229043_at	NA	-0.29281306	0.194867983	0.005121252	0.979876386
213828_x_at	H3F3A	0.344634617	-0.157940781	0.005132567	0.755840307
206488_s_at	CD36	2.054197876	-0.688247815	0.005153622	0.686339616
235568_at	TRAPPC5	1.466447003	-0.2306011	0.005172318	0.409560387
242064_at	SDK2	-0.585279709	0.590395944	0.00517637	0.385358806
209033_s_at	DYRK1A	-0.264776163	0.099869048	0.00517637	0.48256672
200937_s_at	RPL5	-0.434088477	0.208475923	0.005183133	0.976431836
228497_at	SLC22A15	2.035957475	-1.02175214	0.00522197	0.91992186
224938_at	NUFIP2	-0.306484384	-0.201693778	0.005231862	0.443427677
200645_at	GABARAP	0.539478048	-0.251029614	0.005233168	0.9451841
NuGO_eht0203629_at	LAG3	-0.422371352	0.83343129	0.00524239	0.711470287
227354_at	PAG1	-0.454965531	-0.034915574	0.005268201	0.636178029
234192_s_at	GKAP1	-0.806291397	0.536174393	0.005275613	0.853319716
206637_at	P2RY14	0.131971139	-0.396485961	0.005276068	0.019841145
NuGO_eht0318177_at	ZNF345	-0.551051237	0.038289838	0.005276068	0.373054993
219777_at	GIMAP6	-0.463002968	0.03189959	0.005276068	0.871532377
208249_s_at	TGDS	-1.18094367	0.261409703	0.005276068	0.978809828
213115_at	NA	0.293434748	0.244027448	0.005301307	0.516194331
204588_s_at	SLC7A7	2.048102388	-0.637643201	0.005301307	0.853379347
205237_at	FCN1	1.941657932	-0.7420158	0.005320393	0.492264438
202443_x_at	NOTCH2	0.636531403	-0.339349959	0.005326266	0.853557093
203709_at	PHKG2	0.158866308	0.172479075	0.005328269	0.976041024
212876_at	B4GALT4	-0.517922943	0.289495719	0.005345703	0.322321003
200705_s_at	EEF1B2	-0.498284276	0.266800962	0.005345703	0.734532333
202630_at	APPBP2	-0.600324247	0.244302231	0.005345703	0.958846282
NuGO_eht0309493_at	NA	-1.097920836	0.369780729	0.005345703	0.982511053
213379_at	COQ2	0.818548032	-0.186076134	0.005348796	0.921113978
227072_at	RTTN	-0.976807087	0.295192263	0.00535658	0.799324603
213453_x_at	GAPDH	0.448085581	-0.057888652	0.005362588	0.645465151
228091_at	STX17	-0.723715789	0.315323233	0.005388002	0.855385696
204777_s_at	MAL	-1.365500355	0.841635479	0.005389274	0.515539082
218566_s_at	CHORDC1	-0.326266746	0.144634216	0.005390477	0.969565808
244177_at	NA	-0.260039049	-0.087354811	0.005391036	0.348572974
205448_s_at	MAP3K12	-0.196516364	0.000236678	0.005411436	0.851279863
204891_s_at	LCK	-0.688010355	0.466743598	0.005413056	0.897729399
227884_at	TAF15	-1.46837071	0.704173421	0.005421591	0.721444083
226481_at	VPRBP	-0.846177945	0.274166203	0.00544469	0.942543204
209154_at	TAX1BP3	0.585311022	-0.125275201	0.005461495	0.2473539
217796_s_at	NPLOC4	0.193372593	0.034451508	0.005463499	0.6278289
200785_s_at	LRP1	1.310265877	-0.658184604	0.005464476	0.89798823
211296_x_at	UBC	0.170244184	-0.04187723	0.005464476	0.91217177
44654_at	G6PC3	0.302861696	0.126466006	0.00547044	0.746958868
212153_at	POGZ	-0.390571777	0.049638367	0.005495869	0.59803018
202179_at	BLMH	-0.890680925	0.7881259	0.005508741	0.166916193
217022_s_at	IGHA1	0.649257529	0.177118948	0.005508741	0.981189702
212828_at	SYNJ2	-0.720858977	0.093135385	0.005509699	0.964333294
222603_at	NA	-0.362350934	0.250732103	0.005519922	0.720411412
217724_at	SERBP1	-0.380308281	0.142898352	0.005521669	0.580755384
238043_at	NA	-0.753281934	0.274022517	0.005534262	0.89798823
235025_at	WDR89	-0.593840142	0.049859793	0.005534262	0.940645151
218072_at	COMMD9	0.639215681	-0.117405002	0.00553857	0.784874752
227696_at	NA	-0.649673921	0.267732525	0.005544514	0.995944277
224685_at	MLLT4	0.279578687	-0.152296491	0.005553122	0.443781235
227406_at	GABPB2	-0.606297188	0.204591781	0.005569171	0.294445177
222476_at	CNOT6	-0.113703969	-0.042600709	0.005572967	0.9451841



235424_at	NA	-0.47342711	0.125955422	0.005580764	0.850908368
213532_at	NA	0.340048093	-0.147950484	0.005580764	0.876375907
1569003_at	TMEM49	0.901039792	-0.387566003	0.005580764	0.893536487
201711_x_at	RANBP2	-0.57498396	-0.112587778	0.005583756	0.640254992
229253_at	THEM4	-0.777899714	0.250668214	0.005583756	0.740016568
228071_at	GIMAP7	-0.826257857	0.27231917	0.005624743	0.927140201
226123_at	CHD7	-0.896127888	0.492466939	0.00568153	0.392665915
225795_at	C22orf32	1.562361711	0.192453985	0.00568153	0.66776459
NuGO_eht0248553_s_at	NA	-0.250073102	0.341991203	0.005686622	0.339245981
224767_at	NA	-0.490885888	0.200749812	0.005686622	0.952536597
203429_s_at	C1orf9	-0.199742889	0.043418187	0.005694765	0.207610438
203615_x_at	SULT1A1	1.080155666	-0.709964764	0.005694765	0.376014989
223501_at	NA	1.408075269	-0.395291388	0.005694765	0.645808888
205255_x_at	TCF7	-0.857878682	0.493787802	0.005694765	0.853127861
214177_s_at	PBXIP1	-0.358813151	0.145761242	0.005722894	0.535973726
222572_at	PPM2C	0.197675026	-0.05441209	0.005731464	0.503329083
200685_at	SFRS11	-0.695534211	0.389628324	0.005736182	0.353826615
227021_at	AOF1	1.113137544	-0.390844883	0.005792536	0.862021264
204505_s_at	EPB49	1.837248776	-1.121852775	0.005792536	0.95608128
236016_at	NA	-0.304528899	1.13952829	0.005792536	0.987507281
213135_at	TIAM1	-0.562809413	-0.23195928	0.005797902	0.21793454
216380_x_at	NA	-0.710964431	0.306775558	0.005845678	0.835131917
222143_s_at	MTMR14	0.61015011	-0.185528403	0.00587458	0.960833153
214687_x_at	ALDOA	0.401205752	-0.03321061	0.005877106	0.638944393
223430_at	SNF1LK2	0.182553505	0.303000827	0.00590402	0.585852174
1552621_at	POLR2J4	-1.486564977	0.626326564	0.00590402	0.6399532
242020_s_at	ZBP1	0.159414688	0.170595024	0.00590402	0.68200977
227986_at	ZNF343	-0.65547189	0.268611558	0.00590402	0.835131917
226710_at	MGC70857	0.055828194	0.301202566	0.00590402	0.849367405
212498_at	NA	-0.464682751	0.149198263	0.00590402	0.983098839
230972_at	ANKRD9	1.235153275	-0.834992866	0.00590402	0.985049625
212252_at	CAMKK2	0.653070503	0.167262928	0.005918556	0.738923038
222164_at	NA	-0.481222637	0.263338061	0.005925123	0.122901823
217728_at	S100A6	0.461587509	-0.088274623	0.005925123	0.76075483
213571_s_at	EIF4E2	0.145307183	-0.052248068	0.005925731	0.562305701
220789_s_at	TBRG4	-0.697205211	0.404646872	0.005934549	0.551040189
235020_at	TAF4B	-0.827625225	0.353869208	0.005939871	0.634756742
207170_s_at	LETMD1	-0.554322355	0.112865669	0.005939871	0.708358518
223477_s_at	C12orf65	-0.983592583	0.391874139	0.005939871	0.942931076
213007_at	FANCI	-0.137963449	0.657985327	0.005951772	0.668375861
225344_at	NA	-0.208568685	-0.0110512	0.005955364	0.647544986
210889_s_at	FCGR2B	0.573606557	-0.232021057	0.005963191	0.846274409
202191_s_at	GAS7	1.399187452	-0.782953638	0.005983693	0.992728431
224903_at	CIRH1A	-0.667307198	0.51886432	0.006014031	0.300737527
221649_s_at	PPAN	-0.533806944	0.238040838	0.006032568	0.439193352
227037_at	LOC201164	-1.125944839	0.389318656	0.006032568	0.953803173
218081_at	NA	0.409997841	-0.176192397	0.006041612	0.431191803
204022_at	WWP2	0.54021549	-0.209952183	0.006041612	0.516686107
218104_at	TEX10	-0.676996521	0.237941707	0.006041612	0.605160605
60528_at	LOC100137047	-0.559629555	0.347657622	0.006041612	0.612376474
201587_s_at	IRAK1	0.180876584	0.098410517	0.006041612	0.981158913
227195_at	ZNF503	2.565242409	-1.651727813	0.006057949	0.211067897
212689_s_at	JMJD1A	-0.561357171	0.200403481	0.006057949	0.910260055
205349_at	GNA15	1.463493241	-0.363235093	0.006078701	0.728237669
212312_at	NA	0.814452058	-0.537309683	0.006078701	0.794856138
201739_at	SGK1	1.569238293	-0.190300077	0.006080568	0.489831079
242477_at	C9orf52	-0.653770987	0.057856663	0.006090181	0.568396806
203250_at	RBM16	-0.362542719	0.127194805	0.006104913	0.898153007
205434_s_at	AAK1	-0.70702838	0.386024408	0.006114414	0.476196445

226962_at	ZBTB41	-0.50630842	-0.010479036	0.006147516	0.62594324
201323_at	EBNA1BP2	-0.160726171	0.26747669	0.006147516	0.677651443
200020_at	TARDBP	-0.369491415	0.138982704	0.006147516	0.992728431
204285_s_at	PMAIP1	0.886223975	-0.146687332	0.006149257	0.83636801
202182_at	GCN5L2	-0.691093248	0.356003098	0.006171946	0.760456101
212366_at	ZNF292	-0.450553768	-0.015037918	0.006209731	0.587128418
219920_s_at	GMPPB	0.201979334	0.183084809	0.00621744	0.526084719
200740_s_at	SUMO3	0.182594046	0.15781512	0.006229578	0.997883388
219383_at	FLJ14213	0.699968158	-0.232998713	0.006260463	0.613677244
1565868_at	NA	-0.613861244	-0.176931214	0.006292246	0.556436741
221493_at	TSPYL1	-0.319155765	0.151685773	0.006292656	0.859946216
200694_s_at	DDX24	-0.510683202	0.31202732	0.006292656	0.905466257
203956_at	MORC2	-0.966894877	0.346397743	0.006299544	0.62373278
200794_x_at	DAZAP2	0.225190428	-0.05492364	0.006306261	0.519273076
223398_at	C9orf89	0.276927112	0.10017289	0.006312712	0.803114147
230298_at	LOC153364	-0.98190809	0.457602113	0.006312712	0.937452333
212441_at	KIAA0232	0.51041796	-0.147118913	0.006321277	0.910260055
NuGO_eht0309268_at	NA	-0.319497342	0.015549076	0.006325814	0.888421803
NuGO_eht0357495_x_at	NA	-0.526708157	0.257698765	0.006329222	0.651815287
224789_at	WDR40A	1.354297845	-1.146422802	0.006329222	0.76755559
224764_at	ARHGAP21	0.852085139	-0.082137907	0.006329222	0.898153007
215275_at	TRAF3IP3	-0.21014358	-0.129950789	0.006334988	0.249303086
218932_at	C1orf181	-0.695660538	0.429996192	0.006345372	0.714170667
215193_x_at	HLA-DRB1	0.925673323	-0.381393465	0.00637039	0.79700992
243099_at	NFAM1	2.112808762	-0.912882018	0.00637039	0.891848288
223506_at	ZC3H8	-0.498489376	0.104379513	0.00637039	0.957509443
208805_at	PSMA6	0.123820947	0.116663687	0.00640676	0.294008681
235819_at	NA	-0.790351473	-0.124125842	0.00640676	0.863195445
203879_at	PIK3CD	-0.072294051	0.029115389	0.006411474	0.533421572
203066_at	NA	1.516698375	-0.797961269	0.006489273	0.827648533
200607_s_at	RAD21	-0.001143756	-0.161160034	0.006500634	0.805029049
202974_at	MPP1	1.507234576	-0.878750086	0.006503889	0.639313999
223120_at	FUCA2	1.302640981	-0.361096763	0.006505848	0.812761435
221691_x_at	NPM1	-0.63927198	0.290251559	0.006505848	0.893728963
213634_s_at	NA	-0.578865042	0.257177798	0.006505848	0.99251167
218643_s_at	CRIP1	0.325753549	0.216974402	0.006531028	0.140824487
223304_at	SLC37A3	-0.465937656	0.303451062	0.006531883	0.851688974
228122_at	CCDC66	-0.682881071	0.208845072	0.006535895	0.764498033
214035_x_at	NA	-0.677938158	0.361387366	0.006542275	0.516194331
214787_at	DENND4A	-0.40517229	-0.247173551	0.006542275	0.735148394
209123_at	QDPR	0.02285477	-0.017208275	0.006565519	0.568396806
202381_at	ADAM9	1.484302775	-0.55317191	0.006594715	0.851279863
1558369_at	MPHOSPH9	-1.205970271	0.770157198	0.006640407	0.770974523
218633_x_at	ABHD10	-0.468062232	-0.024626588	0.006653577	0.649979285
205929_at	GPA33	-0.692348908	0.428497079	0.006702763	0.35671126
244219_at	NA	-0.306396972	-0.009028028	0.006702763	0.636398894
232165_at	EPPK1	-1.077913075	0.94182426	0.006738991	0.478901047
232579_at	NA	0.507455693	-0.203808002	0.006738991	0.871840236
NuGO_eht0329637_at	SERINC5	-0.41615348	0.172854716	0.006760396	0.985049625
225191_at	CIRBP	-0.181256271	-0.414444882	0.00677732	0.324376259
221656_s_at	ARHGEF10L	1.232257162	-0.754519633	0.006799742	0.662543328
232879_at	CRTC3	-0.952059417	0.267724851	0.00680414	0.609601527
1552519_at	ACVR1C	-1.268696539	0.396492048	0.006806244	0.562203858
225396_at	NA	-0.842863488	0.46568316	0.00682673	0.894370094
225105_at	OCC-1	0.090604193	0.138557426	0.006862244	0.044588454
209102_s_at	HBP1	-0.199627137	-0.325237788	0.006872561	0.641374368
219431_at	ARHGAP10	-0.414861257	0.106994988	0.006900815	0.194875712
227053_at	PACSIN1	-0.395338035	0.054665984	0.006904372	0.998910035
226925_at	ACPL2	-1.294102776	0.753787682	0.0069044	0.516379267

217972_at	CHCHD3	0.194052442	0.108534085	0.006918296	0.618791067
244716_x_at	NA	-0.643921731	0.394178916	0.006918296	0.898153007
226297_at	HIPK3	0.371996083	-0.244663831	0.006942901	0.807434637
209082_s_at	COL18A1	-0.763577178	0.484591731	0.006969444	0.410935794
200001_at	CAPNS1	0.575250885	-0.198977497	0.006973402	0.876280802
201892_s_at	IMPDH2	-0.576684321	0.249518059	0.006980001	0.547114093
204401_at	KCNN4	-0.506819889	0.390224181	0.006982091	0.039923868
218436_at	SIL1	0.145323233	0.042561135	0.006982091	0.507193933
203707_at	ZNF263	-0.56461156	0.264269957	0.006982091	0.714897981
211026_s_at	MGLL	1.535173841	-0.688497287	0.006982898	0.958846282
218831_s_at	FCGRT	1.786112799	-0.816175449	0.007012179	0.958205626
217764_s_at	RAB31	1.593736228	-0.670856968	0.00705105	0.767267581
206130_s_at	ASGR2	1.622831769	0.009252179	0.007127197	0.661740035
1562903_at	FLJ10661	0.509476475	-0.249595413	0.007127197	0.837469551
203685_at	BCL2	-0.789173317	0.326961708	0.007134985	0.105699583
235444_at	NA	-1.136716439	0.40455468	0.007134985	0.207817989
214746_s_at	ZNF467	1.758777492	-0.645945781	0.007134985	0.68606623
225878_at	KIF1B	0.381071744	-0.111556354	0.007134985	0.821215633
213361_at	TDRD7	0.210510397	-0.091004414	0.007134985	0.896735207
226335_at	RPS6KA3	-0.04140762	-0.041866115	0.007139738	0.255297285
219826_at	ZNF419	-0.309594343	-0.035524135	0.007139738	0.546017857
221539_at	EIF4EBP1	1.36349125	-0.418998713	0.007139738	0.686051752
205372_at	PLAG1	-1.07936768	0.595081803	0.007139738	0.727347867
213958_at	CD6	-0.79094007	0.668188346	0.007139738	0.853488589
1553395_a_at	CD200R1	-0.474737324	-0.121654804	0.007139738	0.995944277
203306_s_at	SLC35A1	0.351619627	-0.145280158	0.007167975	0.871096573
227718_at	PURB	0.628233308	-0.049636074	0.007212957	0.937955673
210220_at	FZD2	2.202954799	-1.438269394	0.007215144	0.852071136
226869_at	MEGF6	-0.92683023	-0.112723101	0.007268364	0.040140523
205715_at	BST1	2.692989056	-1.264626132	0.007268364	0.994471879
205191_at	RP2	1.051994361	-0.381768322	0.007273002	0.904610663
225123_at	NA	-0.690746552	0.07109811	0.007273002	0.978372806
228287_at	LOC727773	-1.495291728	0.56238491	0.007281778	0.39414529
212606_at	NA	2.385432634	-1.561857655	0.007335586	0.95470514
204651_at	NRF1	-0.397938726	0.150784445	0.007353358	0.855385696
206147_x_at	SCML2	-0.272143507	0.155150678	0.007375372	0.464440656
219593_at	SLC15A3	1.864143558	-0.704241473	0.007376457	0.972195458
238647_at	C14orf28	-0.32554456	-0.000858702	0.007386479	0.957515387
203761_at	SLA	0.062967472	-0.366533995	0.00740001	0.387909599
238669_at	NA	1.183329683	-0.446206274	0.007403651	0.281908444
201034_at	ADD3	-0.62964363	0.281457072	0.007403651	0.89798823
226390_at	STARD4	-0.002247627	0.43757344	0.007408796	0.960053998
203095_at	MTIF2	-0.296580058	-0.206343025	0.007425411	0.602371526
203186_s_at	S100A4	0.66690005	-0.186470968	0.007455549	0.697666487
202120_x_at	AP2S1	0.522417392	-0.1377658	0.007465377	0.644388314
202151_s_at	UBAC1	0.552425003	-0.0435031	0.007465377	0.992294764
205497_at	ZNF175	-0.419821758	0.268496952	0.007482118	0.899713939
201743_at	CD14	2.108314265	-0.505227081	0.007496295	0.709610382
235683_at	SESN3	1.631566586	-0.925486405	0.007496295	0.96055154
204247_s_at	CDK5	0.602514476	-0.120211471	0.007506284	0.546874078
218244_at	NOL8	-0.454915962	0.130034256	0.007506284	0.737904085
212247_at	NUP205	-0.674587706	0.438158152	0.007506284	0.876375907
206420_at	IGSF6	2.198689519	-0.957821109	0.007506284	0.905385033
212534_at	NA	-0.529602048	0.072039894	0.007506284	0.955528906
223266_at	ALS2CR2	1.236618292	-0.818101343	0.007506284	0.981189702
200715_x_at	RPL13A	-0.432621677	0.173470246	0.007528459	0.924636049
1565162_s_at	MGST1	2.326444541	-0.709019408	0.007551786	0.589457665
205590_at	RASGRP1	-0.854236469	0.408680576	0.007568408	0.842941722
200932_s_at	DCTN2	0.084871972	0.041190616	0.007583375	0.92034683

226109_at	C21orf91	-0.51437523	0.17122197	0.007617424	0.638419833
227581_at	NA	-0.724364752	0.300080507	0.007624029	0.665319823
NuGO_eht0299785_x_at	NA	-1.877602751	2.082567655	0.007630631	3.71E-13
226243_at	LOC391356	0.215424313	0.084497451	0.007633498	0.441082694
227948_at	FGD4	1.686542956	-0.968151466	0.007633498	0.705825966
205865_at	ARID3A	0.864364226	-0.465550556	0.007633498	0.898820166
218005_at	ZNF22	-0.371991543	-0.042132479	0.007633498	0.985046582
227611_at	TARSL2	-0.850755296	0.430604731	0.007633498	0.994471879
202856_s_at	SLC16A3	1.65283226	-0.636219591	0.007649444	0.927140201
226026_at	DIRC2	1.419824014	-0.836907623	0.007652557	0.591374689
204880_at	MGMT	-0.185061084	0.240212112	0.007652557	0.834963099
206848_at	HOXA7	-0.656738095	0.054001028	0.007652853	0.73323763
225102_at	MGLL	0.822468898	-0.213028446	0.007676662	0.148506525
226388_at	TCEA3	-1.926129858	0.835967066	0.007701311	0.318340552
230815_at	LOC389765	-1.063451645	0.523263111	0.007714701	0.950242616
1555866_a_at	HEXDC	-0.915463888	0.176832306	0.007753634	0.426799665
201178_at	FBXO7	0.795946026	-0.552916959	0.00777295	0.760456101
226126_at	MGC16169	-0.324224142	-0.059237258	0.007797035	0.914726911
232629_at	PROK2	3.209359265	-1.598604491	0.007839512	0.783620618
235423_at	NA	-0.907865323	0.363400524	0.007843358	0.461281195
229083_at	NA	-1.292871703	0.676478477	0.007843358	0.765522917
239135_at	FLJ11151	1.991449932	-0.962952328	0.007843358	0.871840236
216836_s_at	ERBB2	0.851395163	-0.078272705	0.007849759	0.002573917
200858_s_at	RPS8	-0.385562137	0.206639853	0.007874031	0.786736478
215460_x_at	BRD1	-0.27213874	0.055277871	0.007876009	0.222830936
200721_s_at	ACTR1A	0.191914923	0.060882902	0.007898624	0.471620007
227366_at	RILP	0.97673135	-0.346318364	0.007916284	0.957580578
212543_at	AIM1	-0.353560432	-0.039592491	0.007925296	0.875325344
225888_at	C12orf30	-0.746127769	0.20501575	0.007944861	0.871532377
218673_s_at	ATG7	0.92617474	-0.240891803	0.007944861	0.951904951
203932_at	HLA-DMB	1.039993601	-0.496634739	0.007946712	0.912288188
212375_at	EP400	-0.653519634	0.215685682	0.007992005	0.987507281
225785_at	REEP3	0.278565662	-0.164479581	0.008021952	0.7747198
202145_at	LY6E	0.442283892	0.553594083	0.008027821	0.059194509
205456_at	CD3E	-0.76753109	0.573378879	0.008035841	0.857493976
NuGO_eht0343431_at	NA	0.860554132	-0.407572637	0.008044343	0.793079847
39891_at	ZNF710	0.702630271	-0.423985126	0.008044343	0.958205626
242539_at	LOC730069	-1.089177883	0.325061538	0.00808714	0.665667078
206034_at	SERPINB8	0.768296978	-0.387918366	0.00808714	0.937955673
211628_x_at	FTHP1	0.411171345	-0.084980775	0.008104915	0.666607291
227346_at	IKZF1	-0.34324094	0.136151061	0.008108783	0.960847397
223680_at	ZNF607	-0.580372364	0.033154157	0.008130893	0.477842397
NuGO_eht0328953_x_at	KRTAP5-4	-0.175004173	-0.060403932	0.008133589	0.723290909
225223_at	SMAD5	-0.320929079	0.326376388	0.008134987	0.582119333
201642_at	IFNGR2	1.218755253	-0.644280802	0.008145665	0.871532377
232338_at	NA	-1.102852281	0.052856889	0.008200631	0.645808888
200078_s_at	ATP6V0B	1.369218809	-0.517184701	0.008200631	0.835788125
202442_at	AP3S1	0.377045877	-0.086677141	0.008204269	0.988628991
213356_x_at	NA	-0.225361946	0.162341596	0.008211408	0.548130259
220661_s_at	ZNF692	-0.756187775	0.11726267	0.008228026	0.352827665
227552_at	SEPT1	-0.429405066	0.376213169	0.008228026	0.876573361
1554036_at	ZBTB24	0.187645548	0.334032371	0.008228026	0.94759505
218404_at	SNX10	1.088603953	-0.56039449	0.008228634	0.773103752
223158_s_at	NEK6	0.779331845	-0.575361938	0.008228634	0.91501804
224560_at	TIMP2	1.860790939	-0.791860054	0.008228634	0.977571624
207157_s_at	GNG5	0.323966149	-0.050476676	0.008248128	0.487797815
222423_at	NDFIP1	-0.934829555	0.335971744	0.008248128	0.562305701
217478_s_at	NA	1.223953724	-0.604723955	0.008248128	0.937386222
213727_x_at	MPPE1	0.773540405	-0.417251146	0.008298868	0.03957673

201231_s_at	ENO1	0.004183935	0.136047833	0.008313182	0.175210316
230063_at	ZNF264	-0.553460786	-0.249010253	0.008323724	0.631856356
217850_at	GNL3	-0.513490734	0.188725864	0.008323724	0.776865408
221479_s_at	BNIP3L	1.306305222	-0.913407921	0.008326179	0.951904951
201165_s_at	PUM1	-0.280304733	-0.071630583	0.008343242	0.670901546
226117_at	TIFA	0.041822318	0.309790858	0.008347311	0.281918872
NuGO_eht0275815_at	NA	-1.235271668	0.995891433	0.008347311	0.968266307
213153_at	SETD1B	-0.318818305	0.129518406	0.008352418	0.568396806
218454_at	FLJ22662	1.747209556	-0.249359354	0.008380213	0.558452553
NuGO_eht0315768_at	C17orf87	1.42164578	-0.584622285	0.008380213	0.568396806
210512_s_at	VEGFA	2.063718849	-0.675347424	0.008380213	0.81358548
1570552_at	C18orf50	-0.492642765	0.074304494	0.008380213	0.842446602
202252_at	RAB13	0.785979619	-0.501359026	0.008386996	0.353826615
219849_at	ZNF671	-0.811014548	0.07485792	0.008386996	0.44618165
206507_at	NA	-0.683371761	0.153232572	0.008420606	0.982421027
235252_at	KSR1	0.851284622	-0.408973673	0.008420861	0.894790103
230563_at	RASGEF1A	0.939149222	-0.945930082	0.008450943	0.252788854
221739_at	C19orf10	0.059672422	0.325520347	0.008460503	0.148506525
213113_s_at	SLC43A3	1.303834005	-0.427720788	0.008462312	0.957580578
201649_at	UBE2L6	0.194374024	0.234064159	0.008468196	0.004120371
200002_at	RPL35	-0.485191604	0.280155144	0.008468196	0.835788125
200064_at	HSP90AB1	-0.422668716	0.249546524	0.008480102	0.515539082
214183_s_at	TKTL1	0.119299433	0.025512876	0.008480102	0.661322998
207243_s_at	CALM2	0.342411969	-0.172062215	0.008480102	0.946523474
202655_at	ARMET	0.066227683	0.193101702	0.008491219	0.484044363
225454_at	CCDC124	0.285194553	-0.00511934	0.008491219	0.725747341
204328_at	TMC6	-0.59485088	0.319622022	0.008535435	0.876375907
NuGO_eht0226734_at	RPL34	-0.412462473	0.130362851	0.0085374	0.183901048
229317_at	NA	-1.1100191	0.434003049	0.0085374	0.476919954
222626_at	RBM26	-0.068975795	-0.152026878	0.0085374	0.84233886
217781_s_at	ZFP106	0.392872271	-0.052621656	0.0085374	0.875557893
200625_s_at	CAP1	0.346131851	-0.096883593	0.0085374	0.999889314
219130_at	CCDC76	-0.804878216	0.329479699	0.00855276	0.811836594
204279_at	PSMB9	-0.091932261	0.415122867	0.008592615	0.000959349
201365_at	OAZ2	1.607608139	-0.900440396	0.008595489	0.870545267
201598_s_at	INPPL1	0.261222915	-0.006473553	0.008596098	0.767486266
227125_at	NA	0.385421518	-0.263330208	0.008623674	0.763056993
200621_at	CSRP1	0.216692941	0.007258272	0.008702621	0.785111628
205504_at	BTK	1.141693657	-0.17318134	0.008703511	0.36979173
226670_s_at	NA	-0.876839176	0.204218107	0.008703511	0.461240512
226977_at	LOC492311	-1.221964884	0.251003069	0.008703511	0.702728464
1557078_at	SLFN5	-0.075748945	-0.633716143	0.008703511	0.977806445
200058_s_at	ASCC3L1	-0.383219256	0.205873697	0.008713722	0.585852174
223480_s_at	MRPL47	-0.017466961	0.231345785	0.00872329	0.195856791
218750_at	JOSD3	-0.812748114	0.188782266	0.008755132	0.894152075
228630_at	NA	-0.784369877	0.169254627	0.00876993	0.74714555
202355_s_at	GTF2F1	-0.575329583	0.236374739	0.008810862	0.49835712
229390_at	FAM26F	0.484547994	-0.153114052	0.00883595	0.692332296
208891_at	DUSP6	1.243526717	-0.380468616	0.008853582	0.978809828
223217_s_at	NFKBIZ	0.347541052	0.526651993	0.008910613	0.280953217
235557_at	GPAT2	-1.268662383	0.918970633	0.008911328	0.000473575
1553103_at	NFX1	-0.381478243	0.0826971	0.008959133	0.661302832
202006_at	PTPN12	1.059023538	-0.356402167	0.008959462	0.9677006
200824_at	GSTP1	0.984436249	-0.166076723	0.00897702	0.856722726
201931_at	ETFA	0.159285992	0.154750478	0.009022046	0.051329351
218606_at	ZDHHC7	0.663652215	-0.275586067	0.009022046	0.963714692
232234_at	C20orf24	-0.43247538	0.279502823	0.009047007	0.373054993
205441_at	OCEL1	-0.23886124	0.137943022	0.009050586	0.587660742
220416_at	ATP8B4	1.162181623	-0.686184452	0.009097077	0.904564026

219700_at	PLXDC1	-1.219870075	0.764271337	0.009102844	0.097925557
222584_at	MSTO1	-0.752415149	0.411739723	0.009102844	0.253587133
212584_at	AQR	-0.242729519	-0.056306987	0.009102844	0.999625154
207734_at	LAX1	0.17626445	0.449990933	0.009132673	0.44238789
228336_at	PWWP2A	-0.37817187	0.013139041	0.009169222	0.795480518
207040_s_at	ST13	-0.582799379	0.176961149	0.009206652	0.896902827
215599_at	SMA4	-1.205735586	0.442221346	0.009232434	0.813528634
227548_at	ORMDL1	0.111450024	0.89619477	0.009255599	0.46298957
202990_at	PYGL	1.934538703	-1.156179086	0.009306326	0.924636049
226588_at	KIAA1604	-0.599353312	0.114184585	0.009306326	0.999517788
205647_at	NA	-0.455250713	0.646336875	0.009329529	0.997134109
201853_s_at	CDC25B	-0.874856607	0.572110177	0.009349764	0.515539082
228964_at	PRDM1	-0.134027262	-0.878676058	0.009351797	0.040063453
223487_x_at	NA	0.948595784	-0.409173263	0.009364098	0.904610663
212138_at	PDS5A	-0.196791362	0.115811372	0.009377253	0.816675278
202561_at	TNKS	-0.675126441	0.239978812	0.009383713	0.236446042
229770_at	GLT1D1	2.579086738	-1.396063158	0.009407566	0.937264809
212527_at	FAM152B	0.226230784	0.1111028746	0.009421098	0.607253912
223444_at	SENP7	-0.499674203	0.090296205	0.009439969	0.232184962
225364_at	STK4	-0.26983555	0.128292063	0.009439969	0.735523851
219751_at	SETD6	-1.072490883	0.579541811	0.009469097	0.795027409
209711_at	SLC35D1	-0.732511541	0.258183781	0.009486628	0.195342488
225692_at	CAMTA1	0.303146177	-0.048354201	0.009486628	0.507193933
218357_s_at	TIMM8B	0.1638168	0.077575195	0.009487553	0.114131342
226179_at	SLC25A37	1.540457454	-0.972521945	0.009489828	0.871840236
201481_s_at	PYGB	0.594916085	0.381716254	0.009583226	0.367861554
217802_s_at	NUCKS1	-0.304052432	0.154412443	0.009606698	0.890173601
204446_s_at	ALOX5	1.139574076	-0.607888958	0.009606698	0.945078455
NuGO_eht0338372_at	VSTM1	2.618016146	-2.723005903	0.009661957	0.00459504
212956_at	TBC1D9	0.927081548	-0.517442381	0.009670041	0.583621567
235056_at	ETV6	1.334990026	-0.862967939	0.009686603	0.877554111
238825_at	ACRC	-0.860768889	0.323295764	0.009706612	0.701975307
225792_at	HOOK1	-1.610809981	0.912694044	0.009706612	0.999889314
239272_at	MMP28	-1.596182454	0.974524671	0.009714968	0.904900122
202614_at	SLC30A9	0.104682414	0.020651743	0.00972475	0.559390771
241832_at	FAM98A	-1.139673523	0.638585268	0.00972475	0.895187756
200085_s_at	TCEB2	0.210429967	0.021513981	0.009727565	0.751181345
228298_at	FAM113B	-1.154970058	0.619398927	0.009762159	0.431048911
213040_s_at	CBX6	-0.831411964	0.085523389	0.009856753	0.009225647
202024_at	ASNA1	0.489058414	0.13077276	0.009858721	0.940779286
1562836_at	NA	-0.199393397	-0.164486175	0.0098644	0.978809828
227344_at	IKZF1	-0.422710084	0.040600334	0.009924991	0.522434808
205900_at	KRT1	2.939165208	-2.825740386	0.009927013	0.983098839
204613_at	PLCG2	1.157978293	-0.400814434	0.009929861	0.280953217
204327_s_at	ZNF202	-0.736910862	0.117244193	0.009935118	0.330120964
226333_at	NA	-0.187448329	-0.101765581	0.009963069	0.224260631
224679_at	NA	0.135085795	0.206463127	0.01002046	0.436647961
218097_s_at	CUEDC2	-0.084201532	0.213766048	0.01002046	0.481340601
226818_at	MPEG1	1.484167157	-0.393781649	0.010031508	0.506179478
228153_at	RNF144B	1.272301627	-0.848026451	0.010031508	0.666607291
204214_s_at	RAB32	1.648352833	-0.709377531	0.010031508	0.7480555
200701_at	NPC2	1.279214039	-0.531180153	0.010031508	0.782685529
225057_at	SLC15A4	0.942307597	-0.536399835	0.010031508	0.825635562
201755_at	MCM5	0.320915284	0.050202434	0.010031508	0.839624081
210112_at	HPS1	0.535043788	-0.134876463	0.010031508	0.898153007
226507_at	PAK1	1.878124775	-0.89819927	0.010031508	0.910260055
210386_s_at	MTX1	0.195778053	-0.174050538	0.010031508	0.992294764
218091_at	HRB	0.125824288	-0.091246879	0.010053146	0.555601864
236301_at	NA	-0.478396142	0.175674933	0.010058816	0.913355263

225407_at	MBP	0.572031143	-0.452649206	0.010077367	0.187001861
235728_at	ZFP3	-0.413687981	-0.046459968	0.010103259	0.84233886
221645_s_at	ZNF83	-0.9465247	0.288544951	0.01012861	0.072619986
224302_s_at	MRPS36	-0.091851257	0.192218058	0.01012861	0.150185202
NuGO_eht0045065_at	PARP3	-0.241911371	0.43532297	0.01012861	0.431191803
65635_at	FLJ21865	-0.602790168	0.122731262	0.010166376	0.08056366
223405_at	NPL	2.295833923	-0.73737739	0.010195331	0.855144512
227796_at	LOC643836	-0.671412963	0.231507822	0.010200043	0.897515337
223016_x_at	ZRANB2	-0.199572858	-0.050735838	0.01021168	0.56353366
242335_at	SLC25A37	1.683381242	-1.176635601	0.010224595	0.697666487
212604_at	MRPS31	-0.804800645	0.546684476	0.01023133	0.268425854
204290_s_at	ALDH6A1	-0.649399954	0.243176613	0.01023133	0.612145332
213415_at	CLIC2	1.686629685	-1.235105635	0.01023133	0.938098535
231550_at	NA	0.270158143	0.466773457	0.010241193	2.65E-05
208982_at	NA	1.162460784	-0.869925018	0.010264448	0.170346652
212041_at	ATP6V0D1	1.088801508	-0.343711727	0.010299458	0.764694404
225522_at	AAK1	-0.516150773	0.267507829	0.010337809	0.76112203
201400_at	PSMB3	0.275929928	0.082818797	0.010357024	0.382276475
204194_at	BACH1	1.010719698	-0.697737648	0.010364389	0.903934771
222490_at	POLR3E	-0.652214432	0.268533179	0.010376948	0.354048566
211560_s_at	NA	1.712110878	-1.49074697	0.010376948	0.884404402
218459_at	TOR3A	-0.019507319	0.381597163	0.010383783	0.372590894
225559_at	NA	-0.368323015	-0.166164261	0.010383783	0.423780646
217930_s_at	TOLLIP	1.153145088	-0.14967362	0.010383783	0.499508769
204923_at	NA	0.41054091	0.199195468	0.010408523	0.767486266
1556588_at	C15orf37	0.913337607	-0.457003599	0.010408523	0.997134109
209712_at	SLC35D1	-0.24801312	0.136508681	0.010412615	0.934322704
201923_at	PRDX4	0.171105058	0.097514663	0.010424913	0.875281129
200994_at	IPO7	-0.220415409	-0.027221415	0.010443166	0.897515337
215100_at	NA	-0.278358267	-0.076900805	0.010477998	0.862017102
211609_x_at	NA	0.217306941	-0.067433523	0.010527746	0.895296921
224492_s_at	ZNF627	-0.927243517	0.511191252	0.010549396	0.497001869
213624_at	SMPDL3A	1.204258457	0.610443916	0.010549396	0.635975384
NuGO_eht0322312_at	NA	-0.394792509	0.210962709	0.010549396	0.904564026
221905_at	NA	-0.760810344	0.299709044	0.010554759	0.568814125
210042_s_at	CTSZ	1.842235423	-0.71195865	0.010588665	0.635911068
226509_at	NA	0.195976857	-0.178070697	0.010608898	0.524070989
223092_at	ANKH	-0.504678852	0.20011292	0.010621102	0.516194331
217770_at	PIGT	0.047174212	0.200042951	0.010621102	0.810478522
205992_s_at	IL15	1.140708275	-0.389773678	0.010632028	0.51056914
223009_at	C11orf59	0.373231361	-0.073048881	0.010632028	0.515539082
31874_at	GAS2L1	0.843133279	-0.369019595	0.010649197	0.023263892
204937_s_at	ZNF274	-0.451224555	0.044558178	0.010668143	0.671953323
209949_at	NCF2	2.001814165	-0.864464209	0.010685709	0.835641503
225864_at	FAM84B	-0.841433034	0.370907166	0.010694323	0.618359418
200999_s_at	CKAP4	0.55248523	-0.024816923	0.010719753	0.411815393
216902_s_at	NA	0.210986979	-0.642612628	0.010764943	0.004334611
236081_at	NA	2.864917414	-2.510652683	0.010764943	0.525713605
NuGO_eht0272019_s_at	NA	-0.626540074	0.19890719	0.010773715	0.699792324
229625_at	GBP5	-0.159949431	0.371256127	0.010848554	0.799324603
237753_at	NA	-0.860038093	0.272651141	0.010887053	0.81062132
235687_at	ZNF626	0.204591331	-0.421651052	0.010888695	0.393146864
236649_at	DTWD1	-0.471649646	-0.160054923	0.010888695	0.490016512
202241_at	TRIB1	1.655387171	-0.825712341	0.010888695	0.8318346
229286_at	MAGEE1	-0.200635228	0.017343925	0.010899544	0.765117741
226247_at	PLEKHA1	-0.468152653	0.282729055	0.010904135	0.999517788
202946_s_at	BTBD3	0.287164946	0.108086376	0.010967847	0.524563949
220059_at	STAP1	-0.34538006	0.455622302	0.01098243	0.000463175
226156_at	AKT2	-0.798920502	0.288538091	0.011165863	0.114309663



218291_at	MAPBPIP	0.505627822	-0.086451344	0.011165863	0.555601864
223061_at	CHID1	0.042906821	0.019591618	0.011165863	0.875281129
223161_at	KIAA1147	-0.550661669	0.060969597	0.011165863	0.988628991
211794_at	FYB	1.35840623	-0.646997146	0.011165863	0.994474239
200657_at	SLC25A5	0.044283445	0.081420508	0.011182358	0.814628771
1552787_at	HELB	-1.733263631	-0.525814858	0.011192344	0.790857114
202838_at	FUCA1	0.611376552	-0.069750139	0.011210945	0.36979173
238063_at	NA	1.35209654	-0.642950859	0.011221684	0.771427988
204834_at	FGL2	1.588474066	-0.696144232	0.011221684	0.919643125
201449_at	NA	-0.63935043	0.183459982	0.011221684	0.995289856
201954_at	ARPC1B	0.23595727	-0.043938835	0.011258217	0.422141226
NuGO_eht0322484_s_at	BCL2A1	0.82024714	-0.299426179	0.011262616	0.644571675
209337_at	PSIP1	-0.705947758	0.449779922	0.011330049	0.812531091
238614_x_at	ZNF430	-0.611764466	0.089672712	0.011375484	0.352827665
1563088_a_at	LOC284837	1.811711109	-0.36092546	0.011375484	0.729425488
202097_at	NUP153	-0.036253154	-0.234304045	0.011398876	0.5252785
219722_s_at	GDPD3	-0.552495674	0.2741231	0.011417807	0.275075472
45749_at	FAM65A	0.709743604	-0.323843989	0.011436682	0.912524213
219892_at	TM6SF1	2.053745237	-0.957140135	0.011440031	0.388994318
206170_at	ADRB2	0.879310327	-0.214122798	0.01146445	0.794856138
223226_x_at	SSBP4	0.12360908	0.17	0.011502453	0.983098839
222429_at	DBNL	0.851571924	-0.202104143	0.011528807	0.981189702
215690_x_at	GPAA1	0.302480517	0.376885322	0.011620868	0.70227923
204924_at	TLR2	2.361011646	-1.071910831	0.011642839	0.896735207
229533_x_at	ZNF680	-0.44867491	0.085662856	0.011660937	0.656313279
221188_s_at	CIDEB	0.569400894	-0.27625597	0.011696619	0.901640755
212538_at	DOCK9	-0.581262776	0.358504055	0.011703706	0.89798823
204088_at	P2RX4	0.355119623	0.197287094	0.011757809	0.322780811
209005_at	FBXL5	0.672925858	-0.060381291	0.011757809	0.352827665
218905_at	INTS8	-0.264074017	-0.002131822	0.011757809	0.896240805
225003_at	TMEM205	0.827580632	-0.252704534	0.011757809	0.952715673
NuGO_eht0222107_at	SIGLEC5	0.916570575	-0.797907442	0.011774949	0.092194793
205437_at	ZNF211	-0.675466807	0.026595775	0.011774949	0.924636049
213296_at	RER1	-0.579789877	0.409902156	0.011801085	0.669045142
243899_at	ARL17P1	-0.875327979	-0.048453365	0.011801085	0.952715673
230075_at	RAB39B	-0.639344899	0.158103192	0.011801085	0.966242572
231775_at	TNFRSF10A	-1.261521822	0.579683214	0.011813055	0.978809828
213743_at	NA	-0.560434121	0.05511205	0.011822962	0.279734735
224517_at	POLR2J4	-0.408840136	0.165880302	0.011852449	0.257910197
203229_s_at	CLK2	-0.71617324	0.190799043	0.011852449	0.710996131
1556385_at	NA	0.857072646	-0.31460402	0.011891747	0.186909177
200888_s_at	RPL23	-0.092636854	-0.115459509	0.011946854	0.216029895
220684_at	TBX21	0.684639026	0.000582497	0.012048216	0.339601574
204516_at	NA	-0.423222163	0.065646874	0.012066227	0.102962886
202983_at	HLTF	-0.725973948	0.522540665	0.012083279	0.569722264
219799_s_at	DHRS9	1.347166543	-1.166353189	0.012092521	0.647544986
202789_at	NA	-0.927978509	0.579883653	0.012095931	0.638944393
202510_s_at	TNFAIP2	2.306859193	-0.692407839	0.01211834	0.982516002
204824_at	ENDOG	-0.784904926	0.850621308	0.012138059	0.05048293
218204_s_at	FYCO1	-0.492541915	-0.09421073	0.012138059	0.527623906
204861_s_at	NAIP	1.058373869	-0.318679522	0.012138059	0.76112203
228970_at	ZBTB8OS	0.202155205	-0.026789841	0.012138059	0.776408775
225001_at	RAB3D	1.932454319	-1.035390149	0.012138059	0.910109917
202078_at	COPS3	0.156913046	-0.039703668	0.012140522	0.493171615
218280_x_at	HIST2H2AA3	1.811247926	-0.956763269	0.012140522	0.563802685
209683_at	FAM49A	1.654036223	-0.459767548	0.012140522	0.799537746
206295_at	IL18	1.516582469	-0.527377199	0.012141942	0.741693152
212407_at	KIAA0859	-0.497441262	0.229540262	0.012182846	0.876230956
239328_at	NA	-1.021078073	0.859243593	0.012189603	0.110932769

228532_at	C1orf162	0.58903914	-0.223779073	0.012201117	0.645465151
221864_at	NA	0.427437474	-0.181255312	0.012212535	0.734394141
202713_s_at	KIAA0391	-0.961445997	0.370676502	0.012230679	0.22450593
221277_s_at	PUS3	-0.348362489	0.092501623	0.012230679	0.645808888
225098_at	ABI2	-1.024874701	0.369101989	0.012230679	0.842941722
NuGO_eht0225614_at	GALK1	0.971818979	-0.503019236	0.01223244	0.636896546
207574_s_at	GADD45B	0.109341475	0.007081314	0.012253776	0.15242667
205627_at	CDA	1.831973135	-0.422607789	0.012272062	0.988222664
201542_at	SAR1A	-0.074315053	-0.159424023	0.012279685	0.856456276
206118_at	STAT4	-0.729033739	0.294140617	0.012293193	0.65638516
226327_at	ZNF507	-0.788423036	0.22194505	0.012320708	0.424959031
1552485_at	LACTB	1.56719875	-1.029505931	0.012321785	0.735523851
212631_at	STX7	0.956912404	-0.354612551	0.012346191	0.420406365
227014_at	ASPHD2	0.22529862	-0.018701501	0.01238259	0.602558013
NuGO_eht0338555_at	NA	-0.179978356	0.025086184	0.012382885	0.646374023
202880_s_at	PSCD1	-0.396122998	0.251145198	0.012382885	0.744028928
209263_x_at	TSPAN4	1.363882193	-0.708844509	0.012388484	0.164139489
201154_x_at	RPL4	-0.406752641	0.170790526	0.01241569	0.898816603
202659_at	PSMB10	0.342281856	0.141674513	0.012422942	0.467414943
NuGO_eht0334661_at	PLCD1	-0.380663401	0.082422517	0.012422942	0.791991258
209774_x_at	CXCL2	1.494173579	0.494039228	0.012438874	0.2238829154
226163_at	ZBTB9	-0.247056104	-0.028824386	0.012469575	0.659931824
227309_at	YOD1	0.792262766	-0.713147985	0.012528777	0.529456244
221802_s_at	KIAA1598	1.647727112	-0.35499769	0.012571842	0.26657616
226496_at	NA	-0.433525345	0.274841723	0.012573144	0.664480325
203211_s_at	MTMR2	0.399322721	0.194274735	0.012576472	0.481340601
212460_at	C14orf147	1.03081912	-0.432468461	0.012576472	0.802404351
239449_at	NA	-1.181387913	0.144829114	0.012605949	0.491769249
1566989_at	ARID1B	-0.385835896	-0.041227217	0.012628405	0.871532377
202495_at	TBCC	-0.200066419	-0.053663096	0.01263363	0.682101775
224721_at	WDR75	-0.899708236	0.203725996	0.01263363	0.767030298
224708_at	KIAA2013	0.072373827	0.109217328	0.01263363	0.943843445
202419_at	KDSR	-0.1977011	0.017661304	0.012639883	0.645808888
65521_at	UBE2D4	-0.147982659	-0.193571738	0.012639883	0.791991258
200748_s_at	FTH1	0.734139575	-0.189020454	0.012666547	0.656313279
201526_at	ARF5	0.760658077	-0.261752175	0.012666547	0.87453593
201872_s_at	ABCE1	-0.356951376	0.148003703	0.01270809	0.904564026
201094_at	RPS29	-0.14348917	0.075605191	0.012710858	0.505952194
211686_s_at	RBM13	-0.620937134	0.134315432	0.012710858	0.84233886
219217_at	NARS2	-1.071797603	0.52498296	0.012710858	0.968656068
225224_at	NA	-0.465551303	0.070533788	0.012725348	0.338097125
213002_at	MARCKS	1.208913184	0.018487302	0.012725348	0.799021169
207057_at	SLC16A7	-0.509677278	0.15215884	0.012769969	0.78742119
226685_at	SNTB2	0.086303974	-0.519762971	0.012777362	0.021924704
217719_at	EIF3EIP	-0.333860861	0.052906792	0.012895379	0.731538991
201531_at	ZFP36	1.017691725	-0.188627704	0.012914527	0.722758268
203577_at	GTF2H4	0.064252146	0.016893314	0.012915439	0.433079883
230532_at	CXorf38	0.028303872	-0.386752271	0.012919159	0.904564026
213011_s_at	TPI1	0.468765142	-0.04898944	0.012963861	0.676997446
228577_x_at	ODF2L	-1.045425073	0.510264596	0.013031384	0.009442777
218689_at	FANCF	-0.815864913	-0.037774948	0.013128211	0.590372548
220023_at	APOB48R	1.817614746	-0.999317718	0.013128211	0.73593185
203202_at	KRR1	-0.526508696	0.158684186	0.013128953	0.952715673
201849_at	BNIP3	-0.746549907	0.333564879	0.013199944	0.926216404
203113_s_at	EEF1D	-0.725800865	0.457106076	0.013210603	0.909305003
226480_at	KIF2A	-0.446430324	0.269268319	0.013221428	0.724769167
211727_s_at	COX11	-0.855044708	0.509178912	0.013268559	0.873296474
235740_at	NA	2.023313597	-1.224853559	0.013268559	0.999517788
202389_s_at	HTT	-0.095621423	0.241080516	0.013291447	0.413242418

225320_at	CCDC109A	0.303571969	-0.099187315	0.0133283	0.384735825
204122_at	TYROBP	1.418211853	-0.61843355	0.0133283	0.80439829
204563_at	SELL	-0.102148788	0.100556191	0.0133283	0.872613674
200728_at	NA	0.223172388	-0.162715725	0.013363572	0.57442368
208904_s_at	RPS28	-0.130998968	0.06545646	0.013363572	0.744028928
219243_at	GIMAP4	-0.152973195	-0.107327163	0.013363572	0.978809828
224707_at	C5orf32	1.303906795	-1.020687757	0.013412111	0.83636801
200696_s_at	GSN	2.022492837	-1.202461329	0.013478508	0.833799688
203449_s_at	TERF1	-0.328388005	0.103401753	0.013563966	0.532184651
212042_x_at	RPL7	-0.199230696	0.084514276	0.013567632	0.612530293
200806_s_at	HSPD1	-0.309125036	-0.041875147	0.013567632	0.997950785
212506_at	PICALM	0.759505067	-0.444623912	0.013571203	0.997883388
200074_s_at	RPL14	-0.462697066	0.203694498	0.013614678	0.951989713
212099_at	RHOB	1.798752992	-0.735564317	0.013615089	0.842799834
218601_at	URG4	-0.564122686	0.20244534	0.013615089	0.976955854
212869_x_at	TPT1	-0.092118028	0.052631209	0.013659352	0.871532377
202968_s_at	DYRK2	-0.384485208	0.244390046	0.013692794	0.58610706
223562_at	PARVG	0.721664034	-0.1826957	0.013692794	0.9245835
204957_at	ORC5L	-0.831187405	0.365878755	0.013693813	0.631856356
203386_at	TBC1D4	-0.83086599	0.307943986	0.013734155	0.841677555
213915_at	NKG7	0.715710124	0.151372073	0.013748734	0.45581406
226518_at	KCTD10	0.96939633	-0.64776132	0.013760378	0.508309032
200041_s_at	BAT1	-0.254137692	0.208936205	0.013765659	0.555601864
226414_s_at	ANAPC11	0.163098787	0.03008902	0.013847334	0.503329083
227639_at	PIGK	-0.477594069	0.317209536	0.013847334	0.904900122
1556209_at	CLEC2B	-0.337143137	0.833309021	0.013847873	0.855385696
209440_at	PRPS1	-0.527216727	0.309892759	0.013847873	0.898153007
226954_at	UBE2R2	0.550253396	-0.234415234	0.0138599	0.701975307
243388_at	NA	-0.721077236	0.496329152	0.013862502	0.855385696
202956_at	ARFGEF1	-0.223957022	0.155834884	0.013871816	0.645465151
224606_at	NA	0.139716386	0.098894094	0.013961646	0.620078503
222868_s_at	IL18BP	0.532812572	-0.001930056	0.013961646	0.884788476
202939_at	ZMPSTE24	0.385009829	-0.097970342	0.013981545	0.34563726
1552773_at	CLEC4D	2.95213126	-1.691168343	0.014033984	0.992294764
226508_at	PHC3	-0.754998787	0.349815728	0.014039554	0.556650674
213734_at	RFC5	0.24787312	0.002462464	0.014062136	0.719491721
226472_at	PPIL4	-0.339144177	0.031702591	0.014067978	0.982516002
218738_s_at	RNF138	-0.269924641	0.103846369	0.014082267	0.666246393
235810_at	ZNF182	-0.619041265	0.159865017	0.014085587	0.516675513
210184_at	ITGAX	1.38981105	-0.685244215	0.014085587	0.738489127
203410_at	AP3M2	-0.74767558	0.002156423	0.014085587	0.826666016
225712_at	GEMIN5	-0.554464082	0.476231284	0.014101393	0.292622662
219435_at	C17orf68	-0.834472153	0.414871778	0.014158141	0.686594924
201528_at	RPA1	-0.267978835	0.033422226	0.014170989	0.94650151
227353_at	TMC8	-0.858813633	0.746769469	0.014174982	0.848408273
206380_s_at	CFP	1.643387785	-0.590286481	0.014195718	0.853319716
205019_s_at	VIPR1	-0.792003979	0.063865953	0.014203254	0.536812643
226679_at	SLC26A11	-0.732491443	-0.051590901	0.014204629	0.200864434
213031_s_at	WDR73	-0.341231326	0.029624283	0.014204629	0.957509443
218961_s_at	PNKP	0.049920834	0.305304452	0.014255476	0.987507281
214030_at	DKFZp667G211	0.905556081	-0.571064506	0.01435126	0.872319401
222807_at	C11orf30	-0.363018219	0.015318634	0.01435126	0.883515732
227105_at	CSPP1	-0.842056123	0.432934294	0.014361596	0.89591655
209760_at	KIAA0922	-0.38452552	-0.139037679	0.014367516	0.790669017
204218_at	C11orf51	-0.006740466	0.213779172	0.014409581	0.719680623
218809_at	PANK2	0.236922117	-0.161327928	0.014409581	0.930224296
225505_s_at	FAM113A	-0.867100078	0.366352348	0.014413721	0.201226831
226317_at	PPP4R2	-0.557726437	0.225943337	0.014416393	0.647624804
224367_at	BEX2	-1.494120266	0.778659137	0.014450492	0.553098977

39402_at	IL1B	1.285867717	1.119497815	0.014546924	0.499508769
212934_at	LOC137886	0.395813879	-0.162490476	0.014546924	0.754060947
222421_at	UBE2H	-0.347329797	0.004255594	0.014546924	0.912288188
202545_at	PRKCD	1.613816968	-0.53649104	0.014546924	0.928790178
213122_at	TSPYL5	0.630380345	0.600815009	0.01455383	0.040338907
227307_at	NA	-1.135227674	0.054074437	0.014598903	0.431191803
221932_s_at	GLRX5	0.633157004	-0.511628865	0.014664231	0.91074604
225083_at	GTF3C6	-0.139716892	0.274215152	0.014666852	0.027244571
227113_at	ADHFE1	-0.087635459	-0.141342523	0.014666852	0.451483468
209504_s_at	PLEKHB1	-1.300030247	0.8097492	0.014666852	0.702509216
235349_at	FAM82A	-0.14952383	0.162610746	0.014666852	0.783162668
218048_at	COMMD3	0.099442229	0.071954071	0.014666852	0.857210002
226019_at	OMA1	-0.544709592	0.361286477	0.014666852	0.861542729
51228_at	NA	-0.50183232	-0.221101525	0.014694841	0.596009495
229116_at	NA	-1.728728394	0.933706199	0.014694841	0.983271165
232024_at	GIMAP2	-0.298068254	-0.001692158	0.014746717	0.81062132
209112_at	CDKN1B	-0.397053223	-0.048838818	0.014785201	0.638944393
226883_at	NA	-0.441149668	0.160486074	0.014785201	0.983098839
225422_at	CDC26	-0.471920272	0.309405303	0.014873588	0.515539082
1553906_s_at	FGD2	1.113958527	-0.142382503	0.014873588	0.692332296
209500_x_at	TNFSF13	1.715391375	-0.707175911	0.014873588	0.763827273
203616_at	POLB	0.289175999	-0.047047259	0.014873588	0.799537746
212672_at	NA	-0.833994546	0.40351275	0.014873588	0.807845814
212472_at	MICAL2	1.686116147	-1.010608384	0.014873588	0.909891124
212707_s_at	NA	-0.631874175	0.386427381	0.014873588	0.982516002
201217_x_at	RPL3	-0.252619433	0.115622644	0.014879097	0.873296474
228723_at	NA	-0.100460106	-0.015599891	0.014882925	0.76791736
219279_at	NA	-0.468146411	0.114330677	0.01489174	0.903430658
219812_at	PVRIG	-0.743765531	0.495837384	0.014896252	0.066817163
201118_at	PGD	1.25533818	-0.416467136	0.014896252	0.489652524
213440_at	RAB1A	0.454192753	-0.148257614	0.014896252	0.827648533
218113_at	TMEM2	-0.093791547	-0.187208946	0.014896252	0.859786493
235119_at	TAF3	-0.460310369	0.271512199	0.014896252	0.921113978
204204_at	SLC31A2	1.413650719	-0.57534949	0.014903108	0.602699076
235603_at	HNRNPU	-0.597325495	0.381825178	0.014903108	0.832524398
220998_s_at	UNC93B1	0.762583228	-0.193402711	0.014934199	0.967433663
218223_s_at	PLEKHO1	0.433231072	-0.106388439	0.014934662	0.391959431
222034_at	GNB2L1	-0.714584339	0.137889061	0.014959831	0.067067989
202275_at	G6PD	0.893051619	-0.293258962	0.014969494	0.996992762
201395_at	RBM5	-0.398568982	0.094054961	0.014970988	0.470437654
203778_at	MANBA	0.437799783	-0.13279165	0.014970988	0.666246393
205423_at	AP1B1	0.289549437	0.128008353	0.01499842	0.802251022
239108_at	MLSTD1	1.247560329	-0.697103685	0.014999638	0.974396881
243529_at	MARS2	-0.528005223	0.005380476	0.015040591	0.784060166
202973_x_at	FAM13A1	-0.629236164	-0.694895097	0.015052284	0.079958753
204102_s_at	EEF2	-0.258563272	0.132889294	0.015052284	0.70227923
222065_s_at	FLII	0.446216886	-0.077800426	0.015052284	0.864707596
242794_at	MAML3	1.394896137	-0.738751754	0.015280689	0.922078025
238761_at	NA	-0.522290253	0.093525583	0.015287046	0.720411412
242722_at	LMO7	-1.572111166	0.614916508	0.015294451	0.999913448
235099_at	CMTM8	-1.289155311	0.6454745	0.015304961	0.042599188
217722_s_at	NGRN	-0.501829539	0.197806531	0.015368543	0.904564026
211796_s_at	IL23A	-0.674938231	0.464674997	0.015384649	0.985246036
206584_at	LY96	1.631541518	-1.009771444	0.015418641	0.531734706
227670_at	ZNF75A	-0.772980993	0.200171387	0.015418641	0.613677244
202068_s_at	LDLR	-0.085479337	0.084839134	0.015456702	0.983098839
210785_s_at	C1orf38	0.713028291	-0.183625276	0.01546463	0.853379347
210001_s_at	SOCS1	-0.417103299	0.064527944	0.015469416	0.993985824
219798_s_at	MEPCE	-0.329938866	0.115355294	0.015475914	0.9451841

213257_at	SARM1	-0.105776571	0.023025299	0.015497743	0.681948802
201040_at	GNAI2	0.787161113	-0.12696255	0.01551587	0.952696464
207681_at	CXCR3	-0.887289278	0.064960403	0.015553667	0.633509756
228949_at	GPR177	1.357692086	-0.917404554	0.015605693	0.756369582
212579_at	SMCHD1	-0.278962439	0.078964273	0.015625369	0.321673569
213016_at	NA	-0.547554491	0.136804527	0.015625369	0.390993707
212823_s_at	PLEKHG3	1.116570454	-0.757226572	0.015625369	0.559875724
225232_at	MTMR12	0.164132501	-0.001691521	0.015625369	0.664901589
201254_x_at	RPS6	-0.240073186	0.141452434	0.015625369	0.776865408
NuGO_eht0278279_s_at	TUT1	-0.350349403	0.12777311	0.015625369	0.895588512
203799_at	CD302	1.348379663	-0.582230812	0.015662443	0.864707596
227871_at	CHM	-0.094144781	-0.148896482	0.015662443	0.946994346
213254_at	TNRC6B	-0.705528917	0.271825061	0.015664999	0.686750864
222824_at	NA	-0.496928233	-0.023223043	0.015687865	0.246850067
229167_at	NA	-0.42057702	0.046992588	0.015690783	0.97238406
237062_at	NA	-0.417250526	-0.306432815	0.015729097	0.521740748
229193_at	NA	-1.115162438	0.345215046	0.015757823	0.981738545
203880_at	COX17	0.203101215	0.005377188	0.015765106	0.366875677
203258_at	DRAP1	0.505571018	0.205846619	0.015793874	0.769620467
225287_s_at	TMEM55B	-0.062244117	-0.140294207	0.015877467	0.832017035
219446_at	RIC8B	-0.535446046	-0.010978005	0.015906025	0.724468512
209514_s_at	RAB27A	0.997815823	-0.229306243	0.015924134	0.583733136
212717_at	PLEKHM1	0.388181996	-0.153743073	0.015924134	0.832577987
209375_at	XPC	-0.373422224	0.129907167	0.01599904	0.938354647
204169_at	IMPDH1	0.530883202	-0.275830953	0.01601139	0.899085303
204355_at	DHX30	-0.686215408	0.307014885	0.016013909	0.937955673
203846_at	TRIM32	-0.96487067	0.089502299	0.016038186	0.740016568
235196_at	NA	-0.048109878	-0.049915353	0.016047096	0.663738863
212838_at	DNMBP	0.509653576	-0.131517165	0.016055415	0.228011106
48531_at	TNIP2	-0.08233748	0.267559958	0.016055415	0.49835712
203964_at	NMI	0.551533254	-0.073327084	0.016055415	0.670901546
223164_at	CCM2	-0.235085163	0.153302168	0.016055415	0.949205012
202061_s_at	SEL1L	0.428393196	-0.235037671	0.016192377	0.956101236
203140_at	BCL6	1.252611646	-0.598271467	0.016211713	0.904610663
NuGO_eht0263511_at	CROCCL2	-0.441980125	-0.05725039	0.01624963	0.260001668
213623_at	KIF3A	-0.965439599	0.339546705	0.016262134	0.870545267
202726_at	LIG1	-0.860330003	0.281442809	0.01637868	0.645808888
200673_at	LAPTM4A	0.386201216	-0.11780746	0.01637868	0.72889167
226785_at	ATP11C	-0.724206145	0.511571576	0.01637868	0.983271165
227981_at	CYB561D1	-0.38951835	0.125711546	0.016399923	0.764941969
203396_at	PSMA4	0.182602596	-0.009905912	0.016419214	0.941163384
213035_at	ANKRD28	-0.793888536	0.331524335	0.016428982	0.661740035
200601_at	ACTN4	0.531221561	-0.102842774	0.016468741	0.875454888
205634_x_at	MBOAT7	0.268820484	0.065387533	0.016490312	0.496225049
218964_at	ARID3B	-0.564174265	0.231883125	0.016500603	0.832967913
201476_s_at	RRM1	-0.478822421	0.062120951	0.016500603	0.940171644
1554067_at	FLJ32549	-0.516678927	0.128967754	0.016537735	0.613382443
201502_s_at	NFKBIA	0.619637576	0.159397747	0.016537735	0.835733386
226591_at	NA	-1.351630397	0.756805661	0.016587224	0.594196382
218206_x_at	SCAND1	0.418992245	-0.264512192	0.016587224	0.878436671
225274_at	NA	-0.188493619	0.057787414	0.016592988	0.368733103
226375_at	NA	-1.186839506	0.5837777	0.016601509	0.818028268
205312_at	SPI1	1.843403298	-0.530502608	0.016605791	0.875281129
225955_at	LOC653506	1.68068915	-0.163515327	0.016701447	0.82311223
203107_x_at	RPS2	-0.144828072	0.085231693	0.016712463	0.953275786
201972_at	ATP6V1A	0.85139275	-0.434669267	0.016796172	0.791991258
207857_at	LILRA2	1.594681478	-0.723555233	0.016796172	0.814628771
226734_at	EIF4E2	0.295738618	-0.159349906	0.016796172	0.814628771
202520_s_at	MLH1	-0.155867342	0.272504338	0.016796332	0.825387062

200029_at	RPL19	-0.26749941	0.136348125	0.016796332	0.89119574
208864_s_at	TXN	0.406178313	-0.092287108	0.016812519	0.544485922
204168_at	MGST2	1.794588875	-0.96010018	0.016837573	0.718720101
217865_at	RNF130	1.413701965	-0.667381348	0.016858868	0.902697935
226567_at	USP14	-0.695461627	0.501741963	0.016866066	0.767030298
218712_at	C1orf109	-0.605840332	0.229353971	0.016870085	0.818941473
201782_s_at	AIP	-0.3267536	0.199812524	0.016912751	0.987507281
226747_at	TXNDC16	0.802017031	-0.283806894	0.016934268	0.895588512
202220_at	KIAA0907	-0.574813647	0.152766131	0.016961904	0.385358806
200649_at	NUCB1	0.444633307	0.20302086	0.017021826	0.903934771
219423_x_at	TNFRSF25	-0.744258034	0.071988456	0.017070042	0.071703485
225207_at	PDK4	2.29731428	-1.389376372	0.017070042	0.894152075
212501_at	NA	1.200898044	-0.680032001	0.017070042	0.982086768
201829_at	NET1	-1.119079729	0.605493073	0.017070461	0.777719246
235648_at	ZNF567	-0.636613674	0.267663485	0.017121454	0.782141969
1559584_a_at	C16orf54	-0.196267564	-0.119395667	0.017124264	0.807387148
214084_x_at	NCF1	1.07817035	-0.243942566	0.017125546	0.568396806
223126_s_at	C1orf21	0.886321189	0.063506346	0.017137399	0.344766162
226602_s_at	BCR	-1.256418213	0.554562177	0.017150184	0.215714773
222533_at	CRBN	-0.484791351	0.107080301	0.017150184	0.993985824
219947_at	CLEC4A	1.393150714	-0.678137261	0.017150284	0.913763946
217977_at	SEPX1	2.064737537	-1.119656549	0.017247209	0.980229331
241798_at	NA	-1.461041256	0.905106327	0.017300882	0.979982513
204493_at	BID	1.56989565	-0.681002359	0.017330588	0.817132092
212276_at	LPIN1	-0.586807066	0.315416071	0.017350172	0.308761637
228343_at	POU2F2	0.385943979	-0.107951316	0.017350172	0.563802685
203606_at	NDUFS6	0.089688848	0.039141315	0.017350172	0.966242572
200830_at	PSMD2	0.105465185	0.038915931	0.017373179	0.924879898
219574_at	MARCH1	0.910493539	-0.496933265	0.017390729	0.692332296
204209_at	PCYT1A	0.364179648	-0.12101888	0.017390729	0.863622402
203728_at	BAK1	0.335413881	0.098525276	0.017390729	0.870369872
202615_at	GNAQ	0.360305366	-0.299700881	0.017390729	0.893384138
221559_s_at	MIS12	-0.262795834	0.136249112	0.017390729	0.903934771
222475_at	SAP30BP	-0.235859389	0.043347061	0.017442932	0.950031713
203378_at	PCF11	-0.340885508	0.224176737	0.017446937	0.981261754
225059_at	AGTRAP	1.146416675	-0.368366218	0.01746064	0.466930624
228569_at	PAPOLA	-0.40472375	0.17420526	0.017487642	0.709449357
226527_at	NA	-0.711886723	0.270120129	0.017526816	0.940171644
242111_at	METTL3	-1.236573715	0.348962452	0.017531343	0.875281129
201887_at	IL13RA1	1.903522988	-1.078333191	0.017566688	0.842112794
219658_at	PTCD2	-0.888532089	0.470758633	0.017592052	0.970113117
205844_at	VNN1	1.155365852	0.665900681	0.017636696	0.020851671
230464_at	EDG8	0.937975572	0.195754074	0.017636696	0.555685725
209628_at	NXT2	0.374038942	-0.0441385	0.017636696	0.904564026
226100_at	MLL5	-0.212491071	0.048626603	0.017638743	0.735523851
31845_at	ELF4	0.324129719	-0.138066189	0.017645389	0.68606623
NuGO_eht0305610_at	NA	0.578142616	-0.214103608	0.017645389	0.716245234
208894_at	HLA-DRA	0.950370634	-0.454679322	0.017690501	0.922195224
208825_x_at	RPL23A	-0.11756914	0.069372178	0.017742274	0.816905726
200941_at	HSBP1	0.384526268	-0.022794567	0.017742274	0.901590887
209310_s_at	CASP4	0.348062498	-0.189376682	0.017749852	0.600317006
212322_at	SGPL1	0.448255089	-0.219582256	0.017749852	0.740016568
227560_at	SFXN2	-0.505978311	0.071117106	0.017757178	0.967704861
212621_at	TMEM194	-0.822137228	0.387473457	0.017757178	0.97806937
225112_at	ABI2	-0.876334041	0.432965205	0.017762076	0.964333294
223039_at	C22orf13	0.535767728	-0.263447664	0.017785279	0.860615052
45828_at	ATP5SL	0.031277257	0.118185609	0.017794527	0.36464603
226515_at	CCDC127	-0.53771857	0.1123526	0.017806186	0.15242667
59375_at	MYO15B	-1.427190069	0.187702365	0.017806186	0.477948102

221736_at	KIAA1219	-0.247540862	0.036384858	0.017807015	0.873296474
218735_s_at	ZNF544	-0.844444825	0.364028026	0.017807015	0.873860734
205726_at	DIAPH2	1.363047246	-0.872588892	0.01790844	0.992294764
202271_at	FBXO28	-0.456762779	0.012398474	0.01794772	0.84233886
225797_at	MRPL54	-0.29945449	0.303322735	0.017956828	0.562305701
218589_at	P2RY5	-0.293096738	-0.403257801	0.017975075	0.568396806
230097_at	GART	-1.237298089	-0.188723035	0.018057644	0.519994204
225462_at	TMEM128	-0.420859399	0.108689191	0.018204222	0.775384513
211383_s_at	WDR37	-0.403837055	0.100927585	0.018332	0.818028268
204274_at	NA	-0.67349211	0.350439286	0.01834334	0.626251538
226306_at	C6orf1	0.384523807	-0.049821059	0.018353841	0.999810113
202041_s_at	FIBP	0.350692299	0.221155791	0.018484116	0.140626656
226183_at	NA	-0.423355319	0.11587764	0.018516904	0.928101224
1552307_a_at	C18orf17	-0.726380523	0.30219738	0.018519444	0.784874752
225367_at	PGM2	0.601773051	-0.277770313	0.018542244	0.999517788
228925_at	NA	-1.311376787	0.842048817	0.018591807	0.101733917
203640_at	NA	-0.282720993	-0.276143749	0.018591807	0.535135613
219066_at	PPCDC	1.349651999	-0.584542824	0.01861858	0.829675636
201134_x_at	COX7C	-0.442558578	0.237261308	0.0186277	0.670325866
229971_at	GPR114	0.181375952	0.610392219	0.018628937	0.107590795
219221_at	NA	-0.37832032	0.067385634	0.018689169	0.634756742
230499_at	NA	-0.565176824	0.094028064	0.018744888	0.868251123
201443_s_at	ATP6AP2	0.169014563	0.069047696	0.018780327	0.794157002
222689_at	NA	1.214791277	-0.928425387	0.018780327	0.871096573
203775_at	SLC25A13	0.743301881	-0.371764966	0.018780327	0.954400906
203574_at	NFIL3	1.979736321	-0.713985097	0.018780327	0.968656068
202315_s_at	BCR	-0.837793393	0.508994449	0.018822881	0.002508969
227291_s_at	BOLA3	-0.762163291	0.331113728	0.018822881	0.84233886
209662_at	CETN3	-0.778450644	0.307736939	0.018822881	0.924636049
202621_at	IRF3	-0.396920434	0.394971456	0.018822881	0.958205626
201631_s_at	IER3	1.686239268	-0.187913037	0.018854563	0.567550726
203164_at	SLC33A1	-0.632801057	0.082983551	0.018896536	0.263100057
237033_at	NA	-0.812755876	0.397888354	0.018896536	0.696252645
203081_at	CTNNBIP1	0.283895863	-0.013935662	0.018897036	0.9790104
227801_at	TRIM59	-0.925342052	0.660979588	0.018924194	0.27547965
209930_s_at	NFE2	2.39902641	-1.304934623	0.01892776	0.855385696
213533_at	NA	-1.184302907	1.185059795	0.018938589	0.998910035
226249_at	SNX30	0.599818621	-0.372511316	0.018949208	0.89305047
208826_x_at	HINT1	-0.598647874	0.217648254	0.019010713	0.663082702
209871_s_at	APBA2	-0.691330914	0.515154954	0.019011794	0.661302832
205249_at	EGR2	2.391866237	-1.557047909	0.019030661	0.777228379
208056_s_at	CBFA2T3	0.892922074	-0.581555205	0.019030661	0.805910989
227587_at	KRI1	-0.367342624	0.106131169	0.019041512	0.508641794
213062_at	NTAN1	-0.110938794	0.134053503	0.019139819	0.994471879
239024_at	ZNF148	-0.033729993	-0.311462254	0.019181896	0.583621567
205114_s_at	CCL3	1.26335273	0.960779947	0.019304446	0.250919244
238066_at	RBP7	2.289408031	-0.994178013	0.019304446	0.895588512
209218_at	SQLE	0.374749888	0.125296162	0.019304446	0.960516302
201458_s_at	BUB3	-0.477020369	0.295680287	0.019362943	0.978934766
225426_at	NA	-0.528138555	0.171464068	0.019435946	0.952303986
221221_s_at	KLHL3	-0.902675852	0.456522544	0.019446325	0.211067897
202130_at	NA	0.39580875	-0.228410285	0.01945515	0.942543204
226051_at	SELM	-1.442031617	0.461889107	0.019502153	0.991981004
218505_at	NA	-0.462178406	0.148680278	0.019594235	0.335987937
208374_s_at	CAPZA1	0.160702103	-0.002588024	0.019594235	0.453445978
224925_at	NA	0.471155141	-0.281289776	0.019672682	0.995633912
226844_at	NA	0.456205251	-0.031247765	0.019715689	0.059194509
226087_at	LZIC	0.115861481	-0.073775827	0.019742536	0.956878581
218360_at	RAB22A	0.454079805	0.014863165	0.019753359	0.429541426

222820_at	TNRC6C	-0.464263861	0.25934631	0.019831196	0.895884355
209833_at	CRADD	0.416700675	-0.052637689	0.019833087	0.645694762
236241_at	NA	-0.384280613	-0.091138856	0.019837477	0.112383129
225593_at	LSM10	0.836397394	-0.172218672	0.019853968	0.744028928
239487_at	FAM98A	-0.117048857	0.201250241	0.019853968	0.837960074
238792_at	PCNX	-0.559011142	0.035177059	0.019853968	0.90338479
223195_s_at	SES2	0.374361845	0.078293869	0.019893962	0.688434518
203175_at	RHOG	0.750025527	-0.231099341	0.019907952	0.952715673
206874_s_at	NA	-0.093831273	-0.301712185	0.019999017	0.411990203
244679_at	NA	-0.351293349	-0.509769462	0.020010048	0.27447269
235396_at	C22orf25	0.394504756	-0.211089374	0.020038287	0.968656068
222447_at	METTL9	0.169974417	0.027783914	0.020067246	0.669735386
221599_at	C11orf67	0.187530029	0.042630186	0.020121844	0.982516002
212899_at	CDC2L6	0.885477617	-0.337177044	0.020159945	0.856305772
214194_at	C13orf34	-0.300760135	0.009542643	0.02016471	0.492264438
226947_at	NA	0.105648626	-0.003645603	0.02016471	0.567009951
1554082_a_at	NOL9	-0.743710176	0.262996066	0.02016471	0.721899207
202122_s_at	M6PRBP1	0.929974443	-0.378980267	0.02016471	0.777539345
201339_s_at	SCP2	0.338263868	0.027040432	0.020172923	0.871096573
228954_at	LYSMD4	-0.308027542	0.019900077	0.02017698	0.148487705
211133_x_at	LILRB3	1.326060959	-0.454002443	0.020279393	0.652339989
208918_s_at	NADK	1.349018077	-0.600841951	0.020279393	0.99822734
223148_at	PIGS	0.148947601	-0.010792215	0.020357535	0.834340715
204790_at	SMAD7	0.570206179	0.112488935	0.020384988	0.91600915
218040_at	PRPF38B	-0.451308491	0.281670287	0.020398916	0.986331967
200735_x_at	NACA	-0.213644153	0.076552872	0.020401427	0.857210002
227056_at	KIAA0141	0.380843006	0.160873636	0.020455162	0.210545256
213940_s_at	FNBP1	-0.417349907	0.073034304	0.020455162	0.943374848
209219_at	RDBP	-0.104718851	0.343716866	0.020512123	0.470437654
201349_at	SLC9A3R1	0.153963245	0.219087231	0.020534327	0.966242572
224610_at	SNHG1	-0.734099133	0.183732841	0.020612182	0.645465151
232615_at	NA	-0.341822199	-0.276922814	0.020649892	0.175129882
201903_at	UQCRC1	0.602514261	-0.05192207	0.020649892	0.730438656
36888_at	KIAA0841	-0.649210951	0.297408583	0.020746434	0.991981004
241408_at	NA	-0.160723034	-0.059130324	0.020763266	0.405591691
202081_at	IER2	0.835461325	-0.415066671	0.020763266	0.820812575
223547_at	C14orf100	0.195564559	0.073730408	0.020763266	0.915205813
218979_at	RMI1	0.536358218	-0.454832834	0.020763266	0.954375039
223227_at	BBS2	-0.938995216	0.484103061	0.020768137	0.70227923
200709_at	FKBP1A	0.754798266	-0.232052596	0.020775551	0.85809099
203530_s_at	STX4	0.096331694	0.072808694	0.020775881	0.776865408
213598_at	KIF2A	-0.294561189	0.189033473	0.020791052	0.898820166
218109_s_at	MFSD1	0.436253382	-0.197897543	0.02079407	0.605059097
238076_at	GATAD2B	-0.193448466	0.062786973	0.02079407	0.681977197
226004_at	CABLES2	0.230523306	0.074061987	0.020799562	0.718720101
202096_s_at	TSPO	0.847407687	-0.355241848	0.020799562	0.903934771
224352_s_at	CFL2	-0.246673331	-0.105988635	0.020819679	0.349065839
202688_at	TNFSF10	0.462472649	-0.175864326	0.020902026	0.597768163
213160_at	DOCK2	0.145969427	-0.123979572	0.020902026	0.926536248
1552318_at	GIMAP1	-0.346498795	-0.177387743	0.020909475	0.163637575
223256_at	KIAA1333	-0.223713217	-0.161972294	0.020934388	0.563802685
239644_at	NA	-1.074411863	0.71635394	0.020934388	0.983271165
217932_at	MRPS7	0.134640162	-0.306740739	0.021005759	0.871102958
222338_x_at	LOC646808	-0.219856147	0.072736349	0.02106127	0.489053544
218145_at	TRIB3	-0.06812038	0.320871057	0.021112133	0.845109922
201466_s_at	JUN	0.073257492	0.442701104	0.021150418	0.227134835
213187_x_at	FTL	0.637336863	-0.250542457	0.021158732	0.709879027
223058_at	FAM107B	-0.415375472	0.173113988	0.021158732	0.904610663
228771_at	ADRBK2	0.91654557	-0.564642997	0.021181023	0.957073397



226702_at	CMPK2	0.772222076	0.059339044	0.021189951	0.020093825
203534_at	LSM1	0.376852359	0.095284977	0.021189951	0.44478538
201384_s_at	NBR1	0.124134618	0.043273268	0.02120509	0.904802305
218594_at	HEATR1	-0.661801882	0.293875652	0.021213834	0.926827692
213065_at	CCDC131	-0.356957497	0.062502884	0.021244185	0.382795896
229949_at	NA	-0.810042547	0.229096206	0.021244185	0.562305701
225869_s_at	UNC93B1	1.116827069	-0.299489438	0.021244185	0.811836594
205571_at	LIPT1	-0.576773554	0.034308414	0.021279464	0.443427677
203774_at	MTR	-0.5438218	0.192106435	0.021294016	0.876750157
229588_at	DNAJC10	0.222326922	0.755286937	0.02132457	0.1740571
229058_at	ANKRD16	-0.036916005	0.376820679	0.021363521	0.639313999
223027_at	SNX9	-0.701107383	0.275852148	0.021363521	0.783992358
236265_at	SP4	-0.571345192	0.158156479	0.021363521	0.9718327
201270_x_at	NUDCD3	-0.748594597	0.518705454	0.021561655	0.352811693
225352_at	TLOC1	-0.212724551	0.043226719	0.021561655	0.820247773
212082_s_at	MYL6	0.172986496	0.005316922	0.021672859	0.772495961
213039_at	ARHGEF18	-0.336344725	0.264743562	0.021672859	0.89798823
226181_at	TUBE1	-1.411835615	0.900006521	0.021672859	0.98772197
231810_at	BRI3BP	0.361170219	0.092438146	0.021722007	0.353826615
214211_at	FTH1	0.910043855	-0.307116393	0.021722007	0.645808888
241881_at	NA	2.16232451	-1.411399061	0.021722007	0.898153007
212708_at	MSL-1	-0.571191028	0.157576607	0.021820751	0.871532377
227613_at	ZNF331	-1.114841302	0.377865242	0.021903965	0.871532377
222815_at	NA	0.536522649	-0.399622596	0.021903965	0.892033345
242214_at	NA	-0.538041473	-0.063697719	0.022062443	0.139052867
203135_at	TBP	-0.602159807	0.198911421	0.022066989	0.747199407
220088_at	C5AR1	1.823358802	-0.647770436	0.022178586	0.779162759
212367_at	NA	-0.316540471	-0.177441042	0.022178586	0.796470829
212830_at	MEGF9	1.286956024	-0.508103262	0.022217584	0.735148394
202388_at	RGS2	1.396993445	-0.80683843	0.022284438	0.988733108
226180_at	WDR36	-0.723360163	0.219756377	0.022323413	0.851279863
217921_at	MAN1A2	-0.125705411	0.337595051	0.02237228	0.375243429
228690_s_at	NDUFA11	-0.14924621	0.180140162	0.022436054	0.701975307
1557910_at	HSP90AB1	-0.15820084	-0.264030544	0.022545146	0.999517788
211535_s_at	FGFR1	-0.537022685	0.281787767	0.022621448	0.385358806
203923_s_at	CYBB	2.389695256	-0.4343863	0.022621448	0.393146864
203375_s_at	TPP2	0.416946994	0.191034012	0.022621448	0.910260055
226110_at	PTAR1	-0.727554873	0.057216414	0.022792906	0.440421096
211623_s_at	NA	-0.60481588	0.280330986	0.022799316	0.895914675
201968_s_at	PGM1	-0.164987784	0.285770621	0.022815703	0.002085329
226629_at	SLC43A2	1.276635757	-0.708600985	0.022815703	0.904610663
230224_at	ZCCHC18	0.071125465	0.149494455	0.022889561	0.250919244
200028_s_at	STARD7	-0.017182985	0.205790779	0.022889561	0.327813338
238524_at	NA	-0.628920827	0.056110809	0.022910182	0.66259566
201193_at	IDH1	0.956239519	-0.410474712	0.022910182	0.750667601
218774_at	DCPS	0.409173608	0.333879497	0.022918312	0.260285849
218854_at	DSE	1.237579103	-0.756000754	0.022923343	0.620078503
211937_at	EIF4B	-0.215123089	-0.087259608	0.022923343	0.946523474
226363_at	ABCC5	-0.37548387	0.230405827	0.022998449	0.826407938
202383_at	JARID1C	-0.331834715	0.272966547	0.023000858	0.782441911
227345_at	TNFRSF10D	-1.110313972	0.642353374	0.023073421	0.756369582
200717_x_at	RPL7	-0.136946545	0.046367533	0.023109159	0.954458762
201347_x_at	GRHPR	0.127894318	-0.228507507	0.023175187	0.250020674
208715_at	TMCO1	0.094072542	-0.079964239	0.023175187	0.492726615
243405_at	NA	-0.616274421	0.155587432	0.023175187	0.620078503
217967_s_at	FAM129A	1.006281047	-1.067819857	0.023179426	0.827648533
212671_s_at	HLA-DQA1	2.244218223	-1.107449642	0.0233011	0.369293911
38892_at	KIAA0240	-0.280388535	-0.05935104	0.0233011	0.724769167
200926_at	RPS23	-0.137956055	0.05787587	0.023335848	0.783162668

204959_at	MNDA	1.641871271	-0.839796146	0.02333635	0.942543204
200092_s_at	NA	-0.223252802	0.148867735	0.023355309	0.913763946
203827_at	WIPI1	0.875103614	-0.306301199	0.023458103	0.695217578
1554240_a_at	ITGAL	0.313443706	0.061822661	0.023537915	0.898153007
204791_at	NR2C1	-0.790510465	0.317281102	0.023544804	0.667464728
228037_at	NA	1.131290359	-0.982591772	0.023615741	0.842951935
218139_s_at	C14orf108	-0.39868798	0.184911769	0.023673583	0.384735825
210980_s_at	ASAH1	0.714645527	-0.26903494	0.023673583	0.720411412
209380_s_at	ABCC5	-0.329674444	0.047126827	0.02370527	0.952715673
208988_at	NA	-0.341024949	0.076828713	0.023758869	0.566387345
AFFX-HUMGAPDH/M3319	NA	0.593115491	-0.107683222	0.023758869	0.645808888
203427_at	ASF1A	-0.527657341	0.228769244	0.023758869	0.978857618
210647_x_at	PLA2G6	-0.624291071	0.351003952	0.023799458	0.555601864
212205_at	H2AFV	-0.38161925	0.159586349	0.023920895	0.130303255
217780_at	C19orf56	0.21868046	-0.048763803	0.023948114	0.309045308
209012_at	TRIO	0.653843031	-0.605882356	0.023948114	0.835131917
229726_at	GRAP	-0.982454004	0.658035467	0.023948114	0.863622402
55081_at	MICALL1	-0.00025356	0.373219936	0.023966557	0.770400349
36545_s_at	SF11	-1.02390244	0.65758946	0.023970693	0.536812643
212836_at	POLD3	0.54537021	-0.118563831	0.023988592	0.367087596
227095_at	NA	0.535720832	-0.670972889	0.023988592	0.485519648
1554503_a_at	OSCAR	1.897675815	-1.377126837	0.023988592	0.799537746
201756_at	RPA2	-0.363606702	0.2989135	0.023988592	0.835490409
238778_at	MPP7	-0.527630748	0.419803683	0.023988592	0.932629025
226601_at	SLC30A7	-0.366833726	0.044027402	0.023994398	0.676382329
200956_s_at	SSRP1	-0.353120724	0.234552661	0.023994398	0.835641503
209458_x_at	HBA1	0.309502296	-0.116021322	0.023994398	0.995880366
218181_s_at	NA	-0.263236729	0.032473961	0.024008436	0.352827665
218762_at	ZNF574	-0.282486327	-0.066416753	0.02402334	0.850908368
205382_s_at	CFD	1.198054209	-0.304312663	0.024038047	0.291953159
217853_at	TNS3	1.52710367	-0.616873984	0.024038047	0.796470829
228026_at	CSDE1	-0.445680274	0.240924551	0.024038047	0.9790104
225113_at	AGPS	0.547787934	-0.246653507	0.024052372	0.787428221
201054_at	NA	-0.440719487	0.290582683	0.024056791	0.795103711
220132_s_at	CLEC2D	-0.866094819	0.52737542	0.024081591	0.810529548
201592_at	EIF3H	-0.497861015	0.199965545	0.024170592	0.764941969
226276_at	TMEM167	0.525132757	-0.1541732	0.024206239	0.477842397
210069_at	CPT1B	-0.944427192	0.440105342	0.024209016	0.441082694
226879_at	HVCN1	0.684939485	-0.383030248	0.024214811	0.268425854
204215_at	C7orf23	-0.583792257	0.237914776	0.024214811	0.942543204
203543_s_at	KLF9	-0.7425896	0.063343973	0.024244159	0.530432997
220173_at	C14orf45	1.305292834	-0.980026618	0.024277423	0.731412916
210607_at	FLT3LG	-0.991509135	0.627228886	0.024290353	0.999889314
209884_s_at	SLC4A7	-0.245736877	-0.063885072	0.024343854	0.23455188
204903_x_at	ATG4B	0.24561276	-0.069626684	0.024345275	0.827215825
212467_at	DNAJC13	0.162899912	0.063697104	0.024421354	0.910109917
201260_s_at	SYPL1	-0.456436655	0.161958866	0.024479526	0.79266311
205767_at	EREG	0.225166179	2.475028274	0.024514919	0.016448229
231944_at	ERO1LB	-0.220838529	0.132091374	0.024514919	0.191899233
212119_at	RHOQ	0.741686327	-0.164708293	0.024514919	0.628262458
203150_at	RABEPK	-0.190288357	0.050826367	0.024514919	0.956502935
227187_at	NA	-0.336913566	-0.063587488	0.024536511	0.470437654
241827_at	ZNF615	-0.325527637	-0.097149172	0.024536511	0.997044246
226391_at	NA	-0.178191763	0.097371193	0.024796186	0.999913448
225847_at	AADACL1	1.556154234	-0.672616113	0.024845227	0.486816298
205711_x_at	ATP5C1	0.109403544	0.164724248	0.024883761	0.497287291
209429_x_at	EIF2B4	0.054257121	0.200419129	0.02489848	0.645799783
230032_at	OSGEPL1	-0.659563915	0.274807593	0.02489848	0.683734274
200820_at	PSMD8	0.227846503	0.067529895	0.02489848	0.770400349

212637_s_at	WWP1	-0.559478431	0.284087183	0.02489848	0.855385696
223070_at	SELK	0.140412592	-0.032837596	0.02489848	0.921348255
208614_s_at	FLNB	-0.886575364	1.343801147	0.02489848	0.957207556
226454_at	MARCH9	-0.852303989	0.480435949	0.02489848	0.968656068
218642_s_at	CHCHD7	-0.46192483	0.288523301	0.024951598	0.782267554
227369_at	NA	-0.092500801	-0.058137789	0.025016437	0.756597376
221773_at	ELK3	-0.334070397	-0.101927708	0.025018629	0.783080675
203853_s_at	GAB2	1.177397542	-0.668688622	0.025025977	0.987507281
210124_x_at	SEMA4F	-0.507195805	0.233527567	0.025067473	0.850908368
227131_at	MAP3K3	0.606654529	-0.214158554	0.025207454	0.910109917
203573_s_at	RABGGTA	0.465484277	0.140538479	0.025249917	0.929150942
200734_s_at	ARF3	0.730864725	-0.14975965	0.025277542	0.436197462
217968_at	TSSC1	-0.168602318	-0.08671581	0.02539736	0.174755288
206175_x_at	ZNF222	-0.76042779	0.161169372	0.02539736	0.88116524
208787_at	MRPL3	-0.66968048	0.458728455	0.025414226	0.490510772
202446_s_at	PLSCR1	0.857061157	-0.122541748	0.025444665	0.14041063
234339_s_at	GLTSCR2	-0.416375678	0.28428628	0.025462768	0.697610928
234106_s_at	FLYWCH1	-1.119007612	0.22912412	0.025466391	0.729627471
222621_at	DNAJC1	-0.043732023	0.307177616	0.025482812	0.344766162
225549_at	DDX6	-0.222678066	0.160301942	0.025508764	0.768743708
201028_s_at	CD99	0.572871258	0.002540889	0.025508764	0.850908368
203737_s_at	PPRC1	-0.720181632	0.418761326	0.025508764	0.952696464
200081_s_at	RPS6	-0.266119794	0.130038595	0.025541546	0.830602464
218706_s_at	GRAMD3	-0.155658141	0.22429881	0.025543682	0.649063389
244743_x_at	ZNF138	-0.571786449	0.347830992	0.025543682	0.738923038
219960_s_at	UCHL5	0.421656095	0.017667089	0.025564339	0.707931119
204158_s_at	TCIRG1	0.721652471	-0.237242816	0.025564339	0.974396881
204187_at	GMPR	2.096098677	-1.460819596	0.025583247	0.913763946
225183_at	C16orf72	0.146277258	-0.425761824	0.025681981	8.54E-05
238004_at	PGBD2	-0.168427702	-0.440980477	0.025785196	0.852911882
201780_s_at	RNF13	0.612773891	-0.348703522	0.025785196	0.944921844
230550_at	MS4A6A	1.855756383	-1.093126089	0.025846533	0.872593211
213069_at	HEG1	0.334785735	-0.004683315	0.025906052	0.904610663
224571_at	IRF2BP2	-0.19924455	0.008010798	0.025927987	0.816905726
209494_s_at	PATZ1	-0.731523018	0.440690248	0.025927987	0.935286246
1554608_at	TGOLN2	-0.633808809	0.284942331	0.025934703	0.496225049
NuGO_eht0237177_s_at	CASP8AP2	-0.535586265	-0.172486196	0.025934703	0.838633184
204068_at	STK3	1.173864079	-0.57871564	0.026005016	0.830358848
200949_x_at	RPS20	-0.270150902	0.099788616	0.026042592	0.501165477
218941_at	FBXW2	0.311594859	0.118066726	0.026042592	0.529799346
223376_s_at	BRI3	0.924983707	-0.393756838	0.026064411	0.88996466
225314_at	NA	-1.199478686	0.773788038	0.026064411	0.987873993
202481_at	DHRS3	-0.500200295	0.22716054	0.026095036	0.040175551
202138_x_at	JTV1	0.332967282	-0.139120647	0.026095036	0.569722264
224747_at	UBE2Q2	-0.426880022	0.084847758	0.026095036	0.642173954
200781_s_at	RPS15A	-0.200977929	0.085623647	0.026095036	0.78380964
37028_at	PPP1R15A	1.079720288	0.099865676	0.026161024	0.763827273
NuGO_eht0310822_x_at	NA	-0.597311321	0.281759029	0.026161024	0.967142404
NuGO_eht0334569_at	CA5BL	-0.002920841	0.078446573	0.026161024	0.980938345
228499_at	PFKFB4	1.383594645	-0.881342541	0.026165017	0.942115389
227182_at	SUSD3	-1.400049534	0.764454356	0.026212991	0.611013279
208692_at	RPS3	-0.205971402	0.096245904	0.026212991	0.954458762
218034_at	FIS1	0.180645032	0.091142789	0.02632607	0.59289822
218014_at	NUP85	-0.017821676	0.160341977	0.026356689	0.910109917
229997_at	VANGL1	0.609753575	-0.117429588	0.026361755	0.960053998
208677_s_at	BSG	2.574223874	-1.561810729	0.026395839	0.773970603
207071_s_at	ACO1	0.198582063	0.043282113	0.026395839	0.777719246
219577_s_at	ABCA7	-0.377245676	0.256337673	0.02639828	0.105699583
219640_at	CLDN15	-0.53744552	0.11753251	0.026401911	0.817846097

NuGO_eht0334670_x_at	NA	0.116289095	0.122466931	0.026428452	0.942543204
209022_at	STAG2	-0.122037022	0.044733253	0.026451588	0.814628771
1558249_s_at	STX16	0.027020165	-0.075852805	0.026479543	0.871102958
201506_at	TGFBI	1.261187512	-0.601944331	0.02648149	0.840699415
200075_s_at	GUK1	0.377166775	-0.009674086	0.02648149	0.981738545
208696_at	CCT5	0.061586165	0.057325482	0.026563468	0.275075472
242389_at	NA	-0.40222928	-0.092112458	0.026567004	0.214553953
230206_at	DOCK5	1.849029143	-1.08482147	0.026606719	0.798153041
224945_at	BTBD7	-0.058595091	-0.421437402	0.026615147	0.241606522
218793_s_at	SCML1	-1.578398796	0.969969515	0.026641987	0.613677244
212037_at	PNN	-0.639894401	0.359506753	0.026641987	0.686750864
209106_at	NCOA1	0.419360966	-0.224070702	0.026652843	0.576106131
226284_at	ZBTB2	-0.239962871	-0.004374281	0.026652843	0.971995791
225384_at	DOCK7	-0.545807569	-0.374000941	0.026699215	0.30930947
217913_at	VPS4A	-0.12903973	0.250956388	0.026718185	0.975713587
204434_at	SPATA2	-0.208412526	-0.088717107	0.026761131	0.829675636
242239_at	NA	-0.654962912	0.133622144	0.026772895	0.509941044
227335_at	DIDO1	-0.355207406	-0.026212062	0.026772895	0.981189702
226893_at	ABL2	-0.496475817	0.10312091	0.026834304	0.645465151
209194_at	CETN2	0.16378344	-0.02966578	0.026834304	0.697610928
1555037_a_at	IDH1	0.972192952	-0.416942332	0.026834304	0.847881509
202521_at	CTCF	-0.347570364	0.139640452	0.026865639	0.998910035
219151_s_at	RABL2B	-0.522188361	0.435191502	0.026871279	0.855144512
210146_x_at	LILRB2	1.447352312	-0.469646764	0.026934603	0.768151271
217940_s_at	FLJ10769	-0.853889881	0.387539154	0.026990054	0.27535989
216559_x_at	NA	-0.382612489	0.17803479	0.026990054	0.36979173
226270_at	EXOC2	-0.581656542	0.485113357	0.026990054	0.743392684
218864_at	TNS1	2.087080464	-1.4772917	0.026990054	0.794856138
1554016_a_at	C16orf57	0.729646465	-0.266525746	0.026990054	0.935199265
219244_s_at	MRPL46	-0.802480466	0.526121601	0.027036786	0.612372046
204299_at	NA	-0.54364161	0.213940095	0.027071774	0.554269191
227626_at	PAQR8	-0.690474448	0.198785008	0.027133282	0.904564026
209674_at	CRY1	-0.285507516	0.143797877	0.027200673	0.739300247
212284_x_at	TPT1	-0.100364955	0.036891704	0.027219211	0.922078025
201994_at	MORF4L2	-0.163093818	0.082574129	0.027245426	0.981768635
202797_at	SACM1L	-0.304323285	0.068512632	0.02727011	0.262326456
219041_s_at	REPIN1	-0.793832066	0.613802895	0.027295527	0.9451841
228801_at	ORMDL1	-0.027252639	-0.246115685	0.027353282	0.719490504
202801_at	PRKACA	0.742501293	-0.268564423	0.027353282	0.904610663
200766_at	CTSD	0.908049455	0.003121316	0.027369368	0.645808888
203865_s_at	ADARB1	-0.681146461	0.080249573	0.027398984	0.217994344
201111_at	CSE1L	-0.913807075	0.27306144	0.027445792	0.807845814
226659_at	NA	-0.531137537	0.309035114	0.027632236	0.406546967
200674_s_at	RPL32	-0.178323113	0.091968119	0.027651952	0.805029049
211944_at	BAT2D1	-0.500685587	0.126872294	0.027664249	0.844037993
212572_at	STK38L	0.812552179	-0.611828932	0.027739619	0.280086296
209130_at	SNAP23	0.46195896	-0.219712636	0.02777062	0.85523712
214173_x_at	C19orf2	-0.336756402	0.198014658	0.027786628	0.620078503
218463_s_at	MUS81	-0.504393222	0.05735348	0.027819892	0.462233674
205239_at	AREG	0.478340678	-0.427693214	0.027829734	0.350036373
208887_at	EIF3G	-0.246329464	0.171067911	0.027829734	0.447436058
212694_s_at	PCCB	0.21108656	0.119047571	0.027829734	0.474324897
204170_s_at	CKS2	1.145715543	-0.105443809	0.027836812	0.87453593
201087_at	PXN	0.424092777	-0.094713488	0.027898279	0.859397792
229986_at	ZNF717	-0.31960786	0.199257732	0.028027997	0.704730667
224280_s_at	FAM54B	0.407413429	0.052759559	0.028027997	0.724996993
205859_at	LY86	0.947446971	-0.399254631	0.028027997	0.943843445
225783_at	SCLY	0.044924387	0.073329244	0.028049471	0.03331359
1556054_at	NA	-1.298065748	-0.97928293	0.028056277	0.019388296

200736_s_at	GPX1	1.138596785	-0.715630168	0.028056277	0.768743708
221575_at	SCLY	-0.3689227	0.228243874	0.028056277	0.953498291
206267_s_at	MATK	0.461807245	-0.56931722	0.028058609	0.191458619
221712_s_at	WDR74	-0.867315895	0.592658197	0.028058609	0.958846282
225970_at	DDHD1	-0.362876882	-0.168704542	0.028090513	0.899085303
218810_at	ZC3H12A	0.397860688	0.084499205	0.028164961	0.559586125
228996_at	RC3H1	3.369179533	0.020804796	0.028184378	0.000558078
227754_at	NA	-0.588204466	0.155687925	0.028184378	0.719048513
201828_x_at	NA	0.588591549	0.013588227	0.028189906	0.999517788
226479_at	NA	-0.841620669	-0.307309603	0.028218439	0.825874395
201930_at	MCM6	-0.609649159	0.306932294	0.02823701	0.749404142
235041_at	GOSR2	-0.548929451	0.17846626	0.028241167	0.943843445
226406_at	NA	-0.29873738	0.044258938	0.028325028	0.943843445
201898_s_at	UBE2A	0.66123883	-0.269824381	0.028340045	0.634197242
209138_x_at	IGL@	0.720652523	-0.148464515	0.028348519	0.842951935
229574_at	NA	-0.904781234	0.385543845	0.028349824	0.620656958
201641_at	BST2	0.305334342	0.160825711	0.028367408	0.009225647
200899_s_at	MGEA5	-0.361889328	0.057933381	0.028444363	0.349065839
225091_at	NA	-0.59982002	0.289657032	0.028570813	0.814628771
226364_at	HIP1	2.020195686	-1.381571523	0.028583915	0.947456391
202329_at	CSK	0.314628455	0.039788761	0.028597494	0.805029049
224973_at	NA	0.600493614	-0.266008075	0.028679959	0.787688857
226405_s_at	ARRDC1	0.768180448	-0.466706348	0.028704174	0.659402841
202110_at	COX7B	0.278559786	-0.01554047	0.028772293	0.768680889
225302_at	TXNDC10	-0.228400174	0.207966942	0.028772293	0.779832835
216111_x_at	NA	-0.361074779	0.109773837	0.028772293	0.904610663
202715_at	CAD	-0.815223786	0.544566423	0.028772293	0.924636049
238002_at	NA	1.37980773	-0.57923249	0.028783233	0.999517788
206200_s_at	ANXA11	0.066010507	-0.107039966	0.028838774	0.871532377
219359_at	ATHL1	0.274092445	-0.857509987	0.028863172	0.783162668
219340_s_at	CLN8	0.995846082	-0.247927592	0.028863172	0.951578289
218450_at	HEBP1	0.763966557	-0.333126486	0.028869349	0.79419575
227647_at	KCNE3	1.904883954	-0.819984168	0.028869349	0.812546074
225461_at	EHMT1	-0.245632049	0.15350729	0.028905048	0.757803114
224855_at	PYCR2	-0.476918455	0.218230807	0.028942643	0.921113978
214012_at	ERAP1	-0.702616703	0.398909987	0.029068086	0.165237287
1294_at	UBA7	-0.504004189	0.558656061	0.029109347	0.709449357
223064_at	RNF181	0.420393359	-0.133759917	0.029109347	0.779832835
231809_x_at	NA	-0.506692527	0.327758562	0.029109347	0.985246036
227637_at	NA	-0.187666516	-0.085418803	0.029161733	0.312507702
208791_at	CLU	0.767371706	-0.239541356	0.029171793	0.016448229
230421_at	ZNF354C	-0.428762265	0.03459569	0.029171793	0.875454888
228345_at	CHIC1	-0.738919826	0.351055517	0.029250716	0.958627493
215157_x_at	PABPC1	-0.042430137	-0.016472751	0.029250716	0.983533905
225263_at	HS6ST1	0.305482851	0.202670443	0.029281512	0.195292186
209694_at	PTS	0.297739082	0.002656623	0.029353277	0.139455185
212199_at	MRFAP1L1	-0.352651606	-0.005816679	0.029370067	0.90338479
212368_at	ZNF292	-0.513656711	0.128112253	0.029417772	0.590372548
218627_at	DRAM	1.153250071	-0.474601427	0.029417772	0.832626725
214500_at	H2AFY	1.9983148	-0.905801115	0.029573788	0.995289856
229732_at	ZNF823	-0.647220567	0.146969424	0.029582834	0.943843445
212635_at	TNPO1	-0.434756703	0.070643409	0.029585627	0.81895014
220005_at	P2RY13	3.191025424	-1.916181326	0.029585627	0.942543204
229563_s_at	RPL10A	-0.19590991	0.049463526	0.029650721	0.855385696
225731_at	ANKRD50	1.232710097	-0.739933	0.029707783	0.782685529
201237_at	CAPZA2	1.014635997	-0.421136707	0.02972319	0.509941044
228571_at	RBAK	-0.322746369	-0.089443157	0.029741304	0.017864572
212399_s_at	VGLL4	-0.543974103	0.235684767	0.029741304	0.988222664
NuGO_eht0307137_x_at	HLA-DRB3	-1.693375391	1.150821676	0.029743052	1.83E-06

202780_at	OXCT1	-0.830490903	0.55397731	0.029743052	0.838633184
209666_s_at	CHUK	0.172468975	0.220856419	0.029777134	0.982516002
213295_at	CYLD	-0.526810692	0.29577107	0.029875204	0.656913708
229614_at	ZNF320	-0.913925484	0.383274377	0.029910342	0.749675937
208916_at	SLC1A5	0.690681589	-0.383011883	0.029910342	0.881054294
NuGO_eht0359549_s_at	NA	-0.4948588	0.096708905	0.029911123	0.551040189
201036_s_at	HADH	-0.496072705	0.317964659	0.029911123	0.766330025
NuGO_eht0250237_s_at	DNM2	-0.193826084	0.101752037	0.029938896	0.688434518
203114_at	SSSCA1	0.244025791	0.033473814	0.029965152	0.719048513
205340_at	ZBTB24	-0.670285382	-0.100796238	0.029981555	0.776672303
224928_at	SETD7	0.806740044	-0.734547011	0.029981555	0.840968101
203042_at	LAMP2	1.013628652	-0.569636907	0.029981555	0.898153007
213524_s_at	G0S2	3.031227617	-1.13829824	0.029981555	0.966242572
220890_s_at	DDX47	-0.580926197	0.306920341	0.029982409	0.916514169
204510_at	CDC7	-1.212706362	0.675527019	0.03001217	0.237018879
227807_at	PARP9	0.349010696	0.149908382	0.03001217	0.773103752
213168_at	SP3	-0.161267166	0.008507697	0.03001217	0.999517788
227119_at	CNOT6L	-0.32732595	0.124491624	0.030196954	0.032359665
226558_at	LOC389833	-1.689176442	1.113157313	0.030196954	0.149910971
203371_s_at	NDUFB3	-0.006157065	0.013053715	0.030297673	0.804685373
212311_at	KIAA0746	-0.641588796	0.383493748	0.030347146	0.207610438
227732_at	ATXN7L1	-0.626773248	0.468271878	0.030347146	0.738923038
209516_at	SMYD5	-0.554696603	0.402400577	0.030347146	0.894742512
205230_at	RPH3A	0.80494767	-0.18436923	0.030377357	0.8318346
225049_at	BLOC1S2	0.216150601	-0.057122854	0.030383658	0.591374689
212465_at	SETD3	0.121282286	-0.09734895	0.030397626	0.903934771
212987_at	NA	0.187252255	-0.159202836	0.030512033	0.088819077
205284_at	KIAA0133	-0.538036219	0.206282219	0.030512033	0.845109922
213513_x_at	ARPC2	0.338340795	-0.089504195	0.030518181	0.871102958
217990_at	GMPR2	0.182580931	-0.005140238	0.030797394	0.411815393
203781_at	MRPL33	0.072448868	-0.023271141	0.030797394	0.456626764
226470_at	NA	-0.501236289	0.430573963	0.030946033	0.367347562
202414_at	ERCC5	-0.524076734	0.234457056	0.030946033	0.832626725
209814_at	ZNF330	-0.215421286	0.109061968	0.031108159	0.858889108
225886_at	NA	-0.578759006	0.260273317	0.031116859	0.114131342
226452_at	PDK1	-0.703101772	0.755618526	0.031116859	0.489652524
204675_at	SRD5A1	0.416838014	-0.160153293	0.031116859	0.51416557
212796_s_at	TBC1D2B	-0.31397418	0.00919132	0.031116859	0.654367249
202683_s_at	RNMT	-0.368978161	0.103229055	0.031116859	0.853488589
224944_at	NA	-0.46916608	0.404062935	0.031117208	0.859546583
217734_s_at	WDR6	-1.024962228	0.655277844	0.031127733	0.57085778
225902_at	NA	-0.363249237	-0.012782545	0.031262425	0.910260055
208796_s_at	CCNG1	-0.446837134	0.201958183	0.031262425	0.942115389
206214_at	PLA2G7	0.651854861	0.562288577	0.03128627	0.030041507
NuGO_eht0361295_at	NA	0.409522937	-0.219984334	0.03128627	0.294944831
217827_s_at	SPG21	0.772941285	-0.231974079	0.03128627	0.799021169
225414_at	RNF149	0.844483876	-0.517943763	0.031306928	0.829675636
235170_at	ZNF92	-0.390294702	-0.030497375	0.031345781	0.434648053
204184_s_at	ADRBK2	1.465815277	-0.563033834	0.031354271	0.080651557
212625_at	STX10	0.702831626	-0.392998039	0.031384812	0.918233731
NuGO_eht0240719_at	ZNF549	-0.714602643	-0.087602992	0.031410702	0.536172291
227013_at	LATS2	1.678853762	-0.90697232	0.031418846	0.646362564
225180_at	TTC14	-0.531851711	0.283784302	0.031531053	0.660908415
226860_at	TMEM19	0.364564923	0.005416026	0.031531053	0.661302832
201922_at	TINP1	-0.911702046	0.296426847	0.031531053	0.967068869
218845_at	DUSP22	0.444147755	-0.11727228	0.031539283	0.052615069
226233_at	B3GALNT2	0.038528376	-0.013765085	0.031597762	0.006155008
206643_at	HAL	2.644003535	-2.066999384	0.031597762	0.522434808
224719_s_at	NA	-0.987818886	0.360241925	0.031597762	0.932041403

201201_at	CSTB	0.418176404	0.072664639	0.031620158	0.18421674
228736_at	HEL308	-1.032222751	0.530118075	0.031620158	0.724657532
200678_x_at	GRN	1.27223503	-0.278999708	0.031620158	0.751039795
200093_s_at	HINT1	-0.711013239	0.281065409	0.031620158	0.76160183
223006_s_at	C9orf5	-0.678967548	0.293086373	0.031620158	0.84837166
219405_at	TRIM68	-0.45864375	0.393944256	0.031620158	0.858427331
216833_x_at	GYPB	0.945873448	-0.988713557	0.031620158	0.922848408
NuGO_eht0356506_x_at	NA	-0.867401458	0.270606996	0.031620158	0.954169444
227621_at	WTAP	-0.378950425	0.033844983	0.031866913	0.615877249
217144_at	NA	0.699575775	-0.296413394	0.031866913	0.944590018
209421_at	MSH2	-0.638880011	0.371223957	0.031866913	0.945078455
227164_at	NA	-0.5594707	0.122843063	0.031895557	0.507193933
230205_at	ZNF561	-0.612778229	-0.046939494	0.032019136	0.766330025
225439_at	NUDCD1	-0.832536438	0.472843706	0.032059693	0.635374626
200062_s_at	RPL30	-0.206920466	0.134318362	0.032059693	0.744744268
205831_at	CD2	-0.737896278	0.361738602	0.032066141	0.661302832
210111_s_at	KIAA0265	-0.288224704	-0.040651188	0.032121416	0.339832558
227809_at	ZC3H6	-0.438561384	0.390631842	0.032121416	0.820836966
208925_at	CLDND1	-0.156818617	-0.214175625	0.032132795	0.348705665
224826_at	RP5-1022P6.2	0.610885114	-0.465006587	0.032151115	0.875615866
235923_at	VTI1A	0.436806046	0.060475583	0.032194907	0.82311223
205883_at	ZBTB16	-0.288915616	-0.076083154	0.03223112	0.664480325
231844_at	MGC27345	-0.557582582	0.144176949	0.032232484	0.56353366
223234_at	MAD2L2	0.460468676	-0.126374038	0.032264365	0.710014506
232383_at	TFEC	1.856194044	-0.782632798	0.032287579	0.898820166
200012_x_at	RPL21	-0.179736865	0.089816054	0.032319985	0.983533905
201560_at	CLIC4	0.755228295	-0.149650231	0.032400755	0.027825338
239651_at	ANAPC5	-0.247167086	-0.063604407	0.032400755	0.599442304
212331_at	RBL2	-0.408119133	0.221387378	0.032472227	0.56643651
205094_at	PEX12	-0.670130186	-0.096307929	0.032484516	0.983533905
218945_at	C16orf68	0.232147133	-0.011015048	0.032526614	0.871874667
NuGO_eht0360054_at	NA	0.07038454	-0.603877724	0.032582554	0.558745729
208926_at	NEU1	0.93509174	-0.260048373	0.032595684	0.998816553
218603_at	HECA	-0.433259201	0.17581378	0.032624522	0.524070989
216908_x_at	NA	-0.092198563	-0.336182017	0.032721286	0.006155008
209395_at	CHI3L1	4.716280976	-3.449435981	0.032721286	0.030536762
225569_at	EIF2C2	-0.51079018	0.081668904	0.032721286	0.727970158
226922_at	RANBP2	-0.923277507	0.428354768	0.032721286	0.989168893
235139_at	GNGT2	0.466158075	-0.01318165	0.032746512	0.233306493
32259_at	EZH1	-0.427344526	0.118084402	0.0327795	0.343060882
208969_at	NDUFA9	-0.250418168	0.478220537	0.0327795	0.43389187
235912_at	NA	-0.863286868	0.107701907	0.032870939	0.206607545
202088_at	SLC39A6	-0.023061391	0.182343685	0.032944228	0.586448746
204690_at	STX8	-0.208971387	0.4778808	0.033017581	0.249965077
231845_at	AARS2	-0.718926514	0.487224689	0.033017581	0.9323991
200059_s_at	RHOA	0.392810436	-0.207543763	0.033049531	0.956502935
228220_at	FCHO2	1.836292703	-0.987296724	0.033088106	0.44618165
223303_at	FERMT3	0.257973527	0.014771538	0.033135421	0.341604793
243985_at	GTF2A2	-0.189509135	-0.138643441	0.033278783	0.369289421
238762_at	MTHFD2L	0.713402037	-0.295745524	0.033314007	0.967068869
1554078_s_at	DNAJA3	-0.75299705	0.285936388	0.033317916	0.924636049
214665_s_at	CHP	0.481715866	-0.18689054	0.033346288	0.594271739
NuGO_eht0292641_s_at	SCGB3A1	0.283214024	-0.319289183	0.033421773	0.102143385
215136_s_at	EXOSC8	-0.614066494	0.333456633	0.033421773	0.98772197
223774_at	C1orf79	-0.401054892	-0.259225573	0.033437289	0.520649274
201285_at	MKRN1	0.668973085	-0.386117242	0.033445397	0.82936837
218271_s_at	PARL	0.331822685	-0.06971522	0.033445397	0.927123284
226529_at	TMEM106B	-0.596005156	0.350595509	0.033445397	0.991981004
35671_at	GTF3C1	0.289638997	0.150140509	0.033487682	0.978116938



212660_at	PHF15	-0.679750288	0.443853002	0.033496627	0.92562062
1552798_a_at	NA	2.196300851	-1.222360856	0.033505352	0.898820166
230052_s_at	TA-NFKBH	0.910016828	-0.480008007	0.033533384	0.464440656
219563_at	NA	-0.681725693	0.267437686	0.033566661	0.79700992
205027_s_at	MAP3K8	0.97039533	-0.308893835	0.033566661	0.837960074
237591_at	FLJ42957	1.005941168	-0.489802911	0.033584072	0.753663229
226876_at	FAM101B	-0.392590527	0.024729835	0.033599257	0.814578327
226969_at	GNPATP	-0.94110648	0.334859215	0.033608788	0.493171615
217466_x_at	NA	-0.301264363	0.119802847	0.033627785	0.656313279
224736_at	CCAR1	-0.637104524	0.272054833	0.033721503	0.87453593
201079_at	SYNGR2	0.42181534	0.045778529	0.033733833	0.619785498
219506_at	C1orf54	0.186902653	-0.0504972	0.033855983	0.216304554
219355_at	CXorf57	-1.385562248	0.659829036	0.033906339	0.991981004
200703_at	DYNLL1	0.383970747	-0.110267151	0.03390639	0.469572802
212418_at	ELF1	-0.099676093	0.000972022	0.033937451	0.640254992
221135_s_at	ASTE1	-0.711018995	0.025502924	0.033951784	0.976589094
208838_at	CAND1	-0.648855403	0.123735831	0.033961576	0.738923038
206495_s_at	MIZF	-0.616473351	0.330046257	0.03397295	0.847066924
NuGO_eht0294957_at	NA	-0.566498763	0.2475753	0.034134464	0.940428484
202878_s_at	CD93	1.929902577	-0.868941695	0.034198187	0.942543204
218121_at	HMOX2	-0.213499537	0.093097807	0.034198187	0.991981004
201568_at	UQCRCQ	0.060408069	0.13254296	0.034223625	0.40569862
228357_at	NA	-0.206238621	0.135638429	0.034309513	0.672959644
238549_at	NA	-0.473354738	0.102481741	0.034435982	0.141464403
210527_x_at	TUBA3C	0.259667738	-0.142829509	0.034452618	0.956830589
203996_s_at	C21orf2	-1.251386227	0.522431961	0.034532411	0.943374848
236808_at	FGFR1OP2	-0.301514371	-0.455009924	0.034632017	0.175129882
213483_at	PPWD1	-0.406821987	-0.070322394	0.034671113	0.522313204
208873_s_at	REEP5	-0.033513773	0.08635696	0.034676237	0.817132092
203195_s_at	NUP98	-0.69432115	0.377489816	0.034714162	0.649857325
202295_s_at	CTSH	1.21250067	-0.307501149	0.03477202	0.875454888
202022_at	ALDOC	-0.790233392	0.279447196	0.034773026	0.855385696
218597_s_at	CISD1	-0.617551412	0.339882629	0.034784901	0.062689879
218237_s_at	SLC38A1	-0.54121064	0.582280023	0.034784901	0.341604793
NuGO_eht0338576_x_at	NA	-0.433633421	0.212853093	0.034866875	0.904564026
206513_at	AIM2	0.3945652	0.085228596	0.034886928	0.956069193
1569652_at	MLLT3	-1.895717583	0.971304547	0.035017864	0.922195224
203050_at	TP53BP1	-0.754741203	0.364903689	0.035089454	0.449277797
200963_x_at	RPL31	-0.205069871	0.109900307	0.035091327	0.652668321
219296_at	ZDHHC13	0.203053324	0.272924443	0.035150439	0.488783434
201186_at	LRPAP1	0.17378739	-0.082537804	0.035150439	0.740016568
228155_at	C10orf58	-0.738685712	0.28748295	0.035189999	0.930473427
218950_at	CENTD3	2.3595599	-1.71924879	0.035231991	0.697610928
NuGO_eht0305141_at	NMUR1	1.181565454	-0.622519654	0.035324507	0.580738147
203185_at	RASSF2	0.842354843	-0.520495257	0.035371496	0.849037533
219133_at	OXSM	-0.89769941	0.379417148	0.035372964	0.943843445
224815_at	COMMD7	0.114038875	0.205590541	0.035375479	0.515539082
31846_at	RHOD	-0.076431279	-0.027568868	0.035375479	0.764941969
218492_s_at	THAP7	-0.536093406	0.124906001	0.035478695	0.942543204
227485_at	DDX26B	-1.058981403	0.358611258	0.035517078	0.68606623
212222_at	PSME4	-0.266838517	0.011679057	0.035517078	0.895588512
218388_at	PGLS	0.910847086	-0.620685769	0.035517078	0.898820166
210401_at	P2RX1	1.428855198	-1.317050993	0.035517078	0.903912277
209200_at	MEF2C	1.22343268	-0.485041098	0.035532675	0.349065839
222529_at	SLC25A37	1.393706399	-1.041234331	0.03555238	0.678015441
224600_at	CGGBP1	-0.026257615	-0.150986341	0.035581051	0.780357645
209593_s_at	TOR1B	-0.374664243	0.341492833	0.035596403	0.045734877
227815_at	NA	-0.232586426	0.108965839	0.035596403	0.599374831
223054_at	DNAJB11	0.357741321	0.063895892	0.035596403	0.765501386

226344_at	ZMAT1	-0.974713312	0.437344069	0.035596403	0.769620467
213256_at	MARCH3	0.043147427	0.137872607	0.035596403	0.87538356
205012_s_at	HAGH	0.048205652	0.185954445	0.035596403	0.983098839
217794_at	PRR13	0.143248066	0.032293973	0.035596403	0.983328513
225872_at	SLC35F5	0.569870452	-0.096355191	0.035596403	0.991981004
206241_at	KPNA5	-0.870725509	0.111732494	0.035612832	0.446907064
224784_at	NA	-0.433677543	0.349614416	0.035612832	0.532159449
203575_at	CSNK2A2	-1.036051609	0.468369076	0.035632417	0.700517753
226434_at	C7orf47	-0.435242275	0.13925484	0.035757637	0.560952911
226736_at	CHURC1	-1.910957111	1.352429707	0.035827687	0.002434183
202337_at	PMF1	0.284445631	0.20158023	0.035827687	0.612578086
218130_at	NA	0.07627316	-0.024942654	0.03589138	0.995880366
231780_at	GBGT1	0.854423793	-0.263091516	0.035928147	0.620533882
218523_at	LHPP	0.095974815	0.132544798	0.035967515	0.118677995
205584_at	NA	-1.538243726	0.661406664	0.035967515	0.812546074
200067_x_at	NA	0.374009627	-0.166412461	0.035967515	0.976875155
218848_at	THOC6	0.418462321	0.173371423	0.036042697	0.999762362
202675_at	SDHB	0.313081052	-0.103685116	0.036053301	0.84233886
219342_at	CASD1	-0.392782516	-0.060158509	0.036062329	0.739094357
201561_s_at	CLSTN1	-0.596940931	0.421390294	0.036062329	0.903934771
207513_s_at	ZNF189	-0.414297491	0.11835211	0.036099108	0.924879898
202149_at	NA	0.88568885	-0.575778292	0.03614643	0.870511318
219063_at	C1orf35	-0.401146866	0.282036196	0.036167066	0.946974336
218391_at	SNF8	0.368201027	0.036753555	0.0362014	0.769620467
224779_s_at	FAM96A	0.313705269	-0.057424686	0.036204916	0.603076783
202121_s_at	CHMP2A	0.349033422	-0.099658208	0.036204916	0.818236929
218877_s_at	NA	-0.619591142	0.357029454	0.036219352	0.52016849
1558201_s_at	SLC4A1AP	0.097226228	0.002295698	0.03622792	0.956878581
38290_at	RGS14	-0.263930881	0.0080308	0.036247659	0.493171615
236429_at	ZNF83	-0.700084836	-0.151321501	0.036260828	0.035698769
203658_at	SLC25A20	0.744542977	-0.031897243	0.036260828	0.24149423
202703_at	DUSP11	-0.384375991	0.089365329	0.036260828	0.536812643
201066_at	CYC1	0.01992389	0.274750639	0.036260828	0.718433144
1566959_at	NA	1.685655888	-1.016892248	0.036260828	0.794157002
204159_at	CDKN2C	0.299647829	-0.400908684	0.036260828	0.853127861
200819_s_at	RPS15	-0.160107472	0.092318613	0.036260828	0.861223237
200969_at	SERP1	0.140827163	-0.132061364	0.036260828	0.981957459
209551_at	YIPF4	0.11367749	0.133451806	0.036430616	0.627708074
218716_x_at	MTO1	-0.726644076	0.45129955	0.036430616	0.994424302
231996_at	N4BP2	-0.131712397	-0.503629457	0.036539038	0.862443301
224825_at	NA	0.726489173	-0.5669655	0.036596513	0.904610663
223432_at	OSBP2	1.518014798	-1.35321513	0.036602488	0.412505829
225334_at	AS3MT	0.183919004	-0.199633436	0.036660639	0.405297975
206828_at	TXK	-0.556988915	0.266557902	0.036660639	0.617491872
219049_at	CSGALNACT1	-1.141078015	0.57758339	0.036660639	0.869494649
206765_at	KCNJ2	2.542455006	-2.314274905	0.036660639	0.943843445
218157_x_at	CDC42SE1	0.256671615	-0.060620989	0.036666972	0.000329379
201007_at	HADHB	0.202768637	-0.028347425	0.036666972	0.903934771
227567_at	AMZ2	-0.732031702	0.36949233	0.036666972	0.938319056
1557067_s_at	LUC7L	-0.115093309	-0.086147696	0.036730039	0.232460661
212885_at	MPHOSPH10	-0.651594455	0.352544282	0.036745064	0.571382779
225221_at	NA	-0.385578164	0.159527242	0.036745064	0.843628569
NuGO_eht0278911_s_at	ROBO3	-0.084029458	-0.058617714	0.036752135	0.786736478
201462_at	SCRN1	0.555135758	0.173620307	0.036915187	0.28974038
202108_at	PEPD	0.132989491	0.128962128	0.036915187	0.539413733
217839_at	TFG	-0.477175097	0.172589807	0.036915187	0.651212077
201494_at	PRCP	0.624722108	-0.32845748	0.036915187	0.82311223
239545_at	NA	-0.959229034	-0.015498758	0.036932495	0.567009951
209048_s_at	ZMYND8	-0.582581694	0.255027005	0.036932495	0.932352651

228548_at	NA	-1.019939886	0.771037355	0.036992717	0.105970361
203133_at	SEC61B	-0.105517805	0.182418623	0.037109099	0.555601864
241348_at	ZNF654	-0.438357606	0.228550126	0.037179813	0.878497294
230376_at	NA	0.282763514	-0.251094034	0.037290572	0.004428405
219329_s_at	C2orf28	-0.130842079	0.130627748	0.037290572	0.086602969
201574_at	ETF1	0.41353262	-0.202762757	0.037315176	0.943843445
221904_at	FAM131A	0.399832292	-0.128590666	0.037333221	0.958205626
204219_s_at	PSMC1	0.087425053	0.047325677	0.037427944	0.68578636
208883_at	UBR5	-0.67888106	0.205896839	0.037427944	0.997684033
201963_at	NA	1.41581584	-0.877646319	0.037481946	0.952164662
228041_at	AASDH	-1.041408641	0.452729151	0.037542211	0.702509216
223247_at	MED10	-0.484404779	0.163207643	0.037549174	0.937264809
203765_at	GCA	1.604263234	-0.868594704	0.03777016	0.96760575
213203_at	SNAPC5	-0.363234081	0.255276364	0.037918263	0.625884237
202118_s_at	CPNE3	0.173238671	-0.209764252	0.037929411	0.484044363
213474_at	NA	-0.187760085	-0.237575447	0.037929828	0.344766162
233219_at	NA	-0.735626296	0.383221395	0.037929828	0.769644261
213608_s_at	SRRD	0.600271233	-0.499733505	0.037929828	0.967704861
223907_s_at	PINX1	-0.52247205	0.322678327	0.037954671	0.938433314
209398_at	HIST1H1C	1.182566745	-0.591367028	0.037966153	0.569722264
227251_at	WDR22	-0.268785997	0.079229841	0.037988934	0.779162759
224733_at	CMTM3	0.264335535	-0.158506951	0.038009081	0.847881509
201966_at	NDUFS2	0.04361852	0.080378707	0.038307785	0.522933689
46256_at	SPSB3	-0.17756601	0.070144784	0.038307785	0.560238324
204020_at	PURA	-0.433068959	-0.025569669	0.038310938	0.45497228
217817_at	ARPC4	0.635730783	0.086194819	0.038313155	0.750199602
226975_at	RNPC3	-0.306562218	-0.003504676	0.0383292	0.571145932
1053_at	RFC2	0.547796997	-0.066153388	0.038342873	0.569722264
225024_at	C20orf77	-0.182899905	-0.25831009	0.038369254	0.588133009
223445_at	DTNBP1	0.52290174	0.240100128	0.038415265	0.294008681
210627_s_at	GCS1	-0.236132982	0.214943243	0.038416189	0.773833936
225702_at	C8orf76	0.17055719	0.049613394	0.038416189	0.972498544
214049_x_at	CD7	-0.450919286	0.501529741	0.038428494	0.986507011
203729_at	EMP3	0.478880549	-0.166165157	0.038460606	0.797828289
214438_at	HLX	0.954066419	-0.701857505	0.038532127	0.937884603
211487_x_at	NA	-0.283850786	0.076388125	0.038548911	0.820149129
223024_at	AP1M1	-0.014346308	0.466588574	0.038585143	0.21793454
219818_s_at	GPATCH1	-0.621684939	0.251811935	0.038615868	0.945768042
202958_at	PTPN9	0.332213884	0.229066878	0.038649831	0.994663777
220251_at	NA	-0.549566371	0.002494231	0.038773705	0.103820141
205786_s_at	ITGAM	0.806850381	-0.383568705	0.038931705	0.683712312
1553954_at	ALG14	0.338692918	0.033645852	0.038999054	0.985049625
218992_at	C9orf46	0.148996806	0.188560111	0.039029729	0.66136751
225291_at	PNPT1	-0.657155463	0.63992897	0.039068974	0.488783434
221581_s_at	LAT2	1.354025402	-0.647500594	0.039068974	0.889532921
209770_at	BTN3A1	-0.634424019	0.422027816	0.039179375	0.904564026
203561_at	FCGR2A	2.056078195	-1.089621059	0.039179375	0.95019249
225876_at	NPAL3	-0.820010588	0.439604001	0.039197045	0.990498575
204645_at	CCNT2	-0.411765432	0.044130959	0.039228996	0.255330916
228754_at	SLC6A6	0.905169993	-0.486432584	0.039228996	0.983533905
221260_s_at	FAM130A1	-0.571282148	0.128246304	0.039233161	0.669735386
244396_at	NA	-0.625285307	0.074253441	0.039277515	0.982516002
209397_at	ME2	0.271711169	-0.055218884	0.039500431	0.680271563
201360_at	CST3	1.260639417	-0.420080898	0.039633234	0.932352651
202514_at	NA	-0.245106078	0.189837246	0.03979396	0.536812643
223497_at	FAM135A	0.306532538	-0.212128388	0.040022042	0.379076433
224656_s_at	MTPN	0.256269562	-0.095855874	0.040042672	0.36464603
226431_at	ALS2CR13	-0.174753096	0.229132382	0.040044732	0.15233852
200710_at	ACADVL	0.557137093	-0.181900095	0.040076936	0.769330352

218829_s_at	CHD7	-0.185849203	0.171835422	0.040156194	0.938354301
1555844_s_at	HNRPM	-0.272442524	0.207982093	0.04021389	0.989031876
205928_at	ZNF443	-0.141035521	0.041739499	0.040223143	0.443427677
209153_s_at	TCF3	-0.641912726	0.470426356	0.04023066	0.613010121
227352_at	C19orf39	0.380321382	-0.215952188	0.040250295	0.659446362
219680_at	NLRX1	0.457356145	-0.272160851	0.040287886	0.999517788
205264_at	CD3EAP	-0.268174255	0.259212287	0.04028809	0.583621567
208735_s_at	CTDSP2	0.547257527	-0.022624841	0.040300801	0.620078503
235381_at	NA	-0.447571709	-0.040665525	0.040300801	0.83689461
236436_at	SLC25A45	-1.200085193	0.715073009	0.040300801	0.912721976
63009_at	SHQ1	-0.314411613	0.192100851	0.040314975	0.51416557
235230_at	NA	-0.297428417	0.089801663	0.040317768	0.792409259
202511_s_at	ATG5	0.060159748	0.136358545	0.040366191	0.659931824
218302_at	NA	0.975535595	-0.483201591	0.040432788	0.846503524
226758_at	LUC7L2	-0.022585056	0.093557647	0.040493838	0.753663229
204411_at	KIF21B	-0.50935368	0.418644886	0.040636037	0.661931359
209845_at	MKRN1	0.972888902	-0.696296693	0.040872018	0.179865844
213138_at	ARID5A	-0.000528993	0.139480695	0.040872018	0.84233886
227477_at	ZMYND19	-0.415164873	0.266080704	0.040872018	0.969565808
225517_at	NA	-0.457531296	0.093292558	0.040944267	0.612145332
226025_at	ANKRD28	-0.433749848	0.193881811	0.040953104	0.78380964
228516_at	NA	-0.770750095	0.473908022	0.040953104	0.97691051
226617_at	ARL5A	0.149884893	0.056238978	0.041046345	0.49835712
203985_at	ZNF212	-0.447835289	0.097052205	0.041050229	0.980089276
NuGO_eht0340049_x_at	NA	-0.003845008	0.345996697	0.041073213	0.878436671
201879_at	ARIH1	-0.148308425	-0.0232488	0.041118487	0.89591655
227525_at	GLCC11	-0.377805965	0.143109648	0.041118586	0.794856138
37012_at	CAPZB	0.110796476	-0.012495197	0.041118586	0.799021169
218483_s_at	C11orf60	-0.483112448	0.243587693	0.041281151	0.618729095
209252_at	HARS2	-0.417602931	0.127461196	0.041281151	0.995880366
204732_s_at	TRIM23	-0.258313095	-0.318030652	0.041296295	0.686805315
219303_at	RNF219	-0.472612274	0.154347618	0.041303698	0.83689461
221021_s_at	CTNBL1	0.123433278	0.140458509	0.041315244	0.214956248
202791_s_at	SAPS2	0.138452306	0.115728291	0.041315244	0.871532377
200090_at	FNTA	-0.374902772	0.210602654	0.041332095	0.908861191
224827_at	UBTD2	-0.033136724	0.014571431	0.04150771	0.70227923
1560396_at	KLHL6	-1.033917666	0.647798248	0.04150771	0.81895014
41113_at	ZNF500	-0.340729755	0.110443289	0.041521517	0.308761637
226866_at	ESCO1	-0.496882838	0.219664759	0.041535184	0.962793415
227093_at	USP36	-0.460889669	0.200433239	0.041542233	0.832356892
226656_at	CRTAP	0.325517697	-0.233129343	0.0416573	0.965379661
218095_s_at	TMEM165	0.528505392	-0.194033831	0.04172248	0.999517788
242470_at	EID2B	-0.73436721	0.170071567	0.041735113	0.172359387
201195_s_at	SLC7A5	0.540789668	-0.176346976	0.041762569	0.997134109
212918_at	RECQL	-0.091553291	0.25466657	0.041783112	0.446907064
227426_at	SOS1	-0.410959647	0.213569743	0.041783112	0.799537746
217737_x_at	C20orf43	0.252278263	-0.145243062	0.041791017	0.951242927
1552497_a_at	SLAMF6	-0.331827326	0.18417347	0.041935253	0.720411412
212833_at	SLC25A46	0.184384269	0.122169867	0.041986118	0.890495292
226528_at	MTX3	-1.005642204	0.350803881	0.042054479	0.805776962
1554251_at	NA	0.049367919	-0.408621904	0.042108722	0.065462577
NuGO_eht0360247_at	NA	1.347292475	-1.04125832	0.042117699	0.473264174
227395_at	NA	-0.050805457	0.169703952	0.042117699	0.907965981
231835_at	NA	-0.134582415	0.351965382	0.042144676	0.568396806
221020_s_at	SLC25A32	-0.171026513	0.232541033	0.042144676	0.898820166
AFFX-HSAC07/X00351_3_	NA	0.240087266	-0.085237065	0.042144676	0.91501804
1569053_at	AP3M2	-0.813783644	0.313133029	0.042313212	0.904610663
215019_x_at	NA	-0.003593918	0.065058478	0.042350868	0.729425488
225890_at	C20orf72	0.563375112	-0.140407416	0.042410885	0.583621567

212459_x_at	SUCLG2	-0.635224326	0.380632062	0.042439427	0.12042514
203614_at	UTP14C	-0.260828107	-0.085550381	0.042460667	0.90032728
212200_at	ANKLE2	-0.606766783	0.503282161	0.042485163	0.985246036
219706_at	C20orf29	0.085343801	0.109545772	0.042496628	0.899978666
218056_at	BFAR	-0.403811159	0.215306028	0.042529499	0.76112203
203515_s_at	PMVK	0.574864804	-0.130461558	0.042567029	0.714963717
217748_at	ADIPOR1	1.275874292	-0.738855219	0.042569316	0.943843445
226438_at	NA	0.402328801	-0.041116849	0.042692627	0.661931359
230722_at	BNC2	1.241476263	-0.363848495	0.042764905	0.639833788
208073_x_at	TTC3	-0.583896858	0.330632732	0.04289801	0.405297975
238443_at	NA	-0.526127031	-0.087398043	0.04289801	0.731412916
208540_x_at	NA	0.964921293	-0.586862584	0.042937998	0.904564026
217961_at	SLC25A38	-0.577244846	0.274693899	0.04295174	0.692332296
218231_at	NAGK	1.175980512	-0.563934099	0.042998098	0.791991258
219156_at	SYNJ2BP	-0.330105727	-0.074382273	0.04304464	0.013988421
232055_at	SFXN1	-1.037202371	0.571069439	0.043118547	0.429929675
218306_s_at	HERC1	-0.502491971	0.248349059	0.043118547	0.640254992
224700_at	STT3B	-0.365831941	0.070282378	0.043126092	0.9323991
213317_at	CLIC5	-0.339267804	0.152123554	0.043151469	0.411990203
202852_s_at	FLJ11506	0.049571629	0.109458992	0.043245072	0.498820897
43977_at	TMEM161A	-0.320437967	0.007109382	0.043245072	0.559586125
225675_at	C14orf101	-0.760396993	0.291489193	0.043245072	0.914782626
1555910_at	PTCD2	-0.361333406	-0.039711878	0.043258548	0.903934771
203675_at	NUCB2	-0.509619908	0.577904675	0.043258548	0.997684033
200661_at	CTSA	0.691288587	-0.100141214	0.043308522	0.053697478
204859_s_at	APAF1	0.7659849	-0.3755802	0.043308522	0.70227923
208758_at	ATIC	-0.616806993	0.412721451	0.043369461	0.833032917
227295_at	IKIP	0.732345502	-0.313220495	0.043379523	0.971681916
238653_at	NA	-0.629759006	-0.007812386	0.043416398	0.139455185
NuGO_eht0216124_at	ARSA	0.594047531	-0.039093717	0.043416398	0.930473427
209538_at	ZNF32	-0.423265983	0.109102195	0.043416398	0.997870742
NuGO_eht0340310_x_at	ZNF765	0.333097365	-0.308568563	0.043423192	0.400186544
223134_at	BBX	-0.493721703	0.097007837	0.043485597	0.99159953
218227_at	NUBP2	-0.065960019	-0.103098617	0.04353889	0.496225049
225788_at	C6orf153	-0.128032663	0.144532726	0.04356103	0.620260438
209043_at	PAPSS1	-0.027353177	0.082730862	0.043697418	0.476919954
238034_at	CANX	0.504158433	-0.338170716	0.043756086	0.820247773
217955_at	BCL2L13	0.273618764	-0.021921167	0.043766711	0.89119574
225610_at	UHRF2	-0.567386361	0.228449458	0.043874926	0.477842397
200036_s_at	RPL10A	-0.659139383	0.340786992	0.043874926	0.681948802
202207_at	NA	-0.303145545	0.177270642	0.043876235	0.875281129
223252_at	HDGF2	0.297243581	-0.189032778	0.043899991	0.875281129
201581_at	TXNDC13	-0.039172677	-0.01340832	0.04392759	0.000849753
215930_s_at	CTAGE5	0.112430385	0.122979137	0.04392759	0.769679335
213506_at	NA	1.074831933	-0.513627335	0.04392759	0.852266129
200005_at	EIF3D	-0.311543174	0.151863169	0.043933545	0.768743708
211967_at	TMEM123	-0.431588967	0.189318848	0.043936341	0.976041024
1555971_s_at	FBXO28	-0.246206687	-0.185864769	0.043998156	0.674227405
212691_at	PHYHD1	-0.460605885	0.331758719	0.044179268	0.904610663
235374_at	MDH1	-1.215035069	0.407204308	0.044191468	0.56643651
205147_x_at	NCF4	2.309286535	-1.373834751	0.044229835	0.992294764
218955_at	BRF2	-0.508096491	0.119962318	0.044465598	0.964333294
204847_at	ZBTB11	-0.35228912	0.047755617	0.044490173	0.709254861
208820_at	PTK2	-0.268864971	0.382900585	0.044541641	0.191458619
201041_s_at	DUSP1	0.794865873	-0.289919384	0.044541641	0.935286246
232333_at	NA	-1.357725865	0.673011807	0.044642797	0.497596172
53968_at	INTS5	-0.15060111	0.082987366	0.044642797	0.9245835
218252_at	CKAP2	0.556549593	-0.025504284	0.044642797	0.997134109
203329_at	PTPRM	-0.618924997	0.286366547	0.044693853	0.744028928

212549_at	STAT5B	-0.229730738	0.047510009	0.044820934	0.339832558
1557684_at	NA	-0.980485608	0.334971681	0.044820934	0.519497216
1557166_at	PDCD4	-0.174226978	-0.004440539	0.044820934	0.946994346
202985_s_at	BAG5	-0.447855178	0.190200137	0.04482606	0.904610663
202536_at	CHMP2B	0.137895971	0.080811767	0.045060278	0.41556452
215954_s_at	C19orf29	-0.261908403	0.09629193	0.045060278	0.968656068
203096_s_at	RAPGEF2	-0.028938505	-2.099332911	0.04509016	0.019841145
230598_at	NA	-0.377539543	0.065654787	0.045106293	0.298669254
225310_at	RBMX	-0.576203769	0.327616363	0.045218707	0.571168981
231836_at	HKR1	-0.71048786	0.231898404	0.045218707	0.885800855
223649_s_at	SLC25A39	1.551410359	-0.988467747	0.045282329	0.688434518
212457_at	TFE3	0.710822517	-0.165829584	0.045282329	0.943843445
219854_at	ZNF14	-0.579758656	-0.090850253	0.045380119	0.828224319
208319_s_at	RBM3	0.233382927	0.041113981	0.045419389	0.645465151
225095_at	SPTLC2	1.278058726	-0.658575817	0.045420305	0.445043941
215223_s_at	SOD2	1.945304626	-0.602088745	0.045420305	0.513608838
213773_x_at	NSUN5	-0.754464335	0.420981872	0.045429503	0.991981004
206363_at	MAF	-0.205626232	0.140905652	0.045557435	0.255505498
203404_at	ARMCX2	-1.531382942	0.993241738	0.045557435	0.423780646
213021_at	GOSR1	-0.346815159	-0.28234228	0.04563587	0.839092746
218039_at	NUSAP1	0.176723987	0.334017125	0.045665856	0.477948102
242255_at	NA	0.761913765	-0.180631776	0.045825858	0.638419833
201425_at	ALDH2	1.232043863	-0.353209393	0.045825858	0.97478003
202592_at	BLOC1S1	0.291687735	-0.01259529	0.046001298	0.536812643
201987_at	MED13	-0.111653584	-0.001540676	0.04603246	0.34563726
242907_at	NA	-0.47151698	0.309286819	0.046054841	0.263100057
226700_at	U2AF1L4	-0.967299489	0.449436957	0.046116604	0.764498033
222985_at	YWHAG	0.321706022	-0.20180306	0.046190253	0.578927253
225738_at	RAPGEF1	0.258468177	0.153810303	0.046190253	0.847036839
203604_at	ZNF516	0.995154249	-0.984053836	0.046218196	0.489053544
223486_at	GTPBP8	-0.987582518	0.84016588	0.046218196	0.799324603
NuGO_eht0340697_s_at	RPL6	-0.407488133	0.2053059	0.046218196	0.934994526
227907_at	NA	-0.265347431	0.18878199	0.046276166	0.933754442
219690_at	TMEM149	0.650770532	0.096163409	0.046351343	0.016847004
217898_at	C15orf24	0.095978997	0.124737942	0.046351343	0.620078503
225528_at	IPO8	-0.208970488	0.186046005	0.046530432	0.842072035
1559582_at	RHOQ	1.519270884	-0.671476556	0.046614416	0.829825615
221519_at	FBXW4	-0.411292106	0.167862589	0.046937975	0.642173954
207559_s_at	ZMYM3	-0.221720132	0.246132404	0.046937975	0.930528174
229383_at	NA	0.837864606	-0.576317713	0.047114543	0.560238324
202167_s_at	MMS19	-0.546963548	0.321855729	0.047211161	0.859764288
218947_s_at	PAPD1	-0.012496742	-0.293120835	0.047237079	0.680667828
225695_at	C2orf18	0.258968398	-0.029343053	0.047237079	0.720411412
205790_at	SKAP1	-0.489392288	0.245371592	0.047237079	0.904610663
208736_at	ARPC3	0.235861077	-0.007138588	0.047315603	0.70227923
201146_at	NFE2L2	-0.083355609	-0.131405969	0.047624596	0.89365406
233893_s_at	KIAA1530	-0.111282583	-0.363718141	0.047669856	0.70227923
202962_at	KIF13B	0.249257084	-0.000618021	0.047766652	0.613677244
226680_at	NA	-0.730378001	0.347940664	0.047849306	0.555685725
228020_at	PTCD3	-0.543425273	0.052409835	0.047856668	0.070240088
224477_s_at	NUDT16L1	-0.691737936	0.40578244	0.047933252	0.8318346
235308_at	ZBTB20	-0.790618851	0.173869294	0.047942048	0.419639099
229412_at	TAF8	-0.026631883	-0.182229036	0.047942048	0.833799688
212696_s_at	RNF4	-0.338637034	0.238687219	0.047942048	0.854697542
202401_s_at	SRF	0.231839999	-0.115431501	0.047942048	0.860615052
210466_s_at	SERBP1	-0.149031153	0.076960065	0.048070206	0.946523474
221269_s_at	SH3BGRL3	0.174269	0.20069679	0.048075679	0.401654574
223018_at	NOB1	-0.834707969	0.364839744	0.04812014	0.503169274
211208_s_at	CASK	-0.409942629	0.102365387	0.048182216	0.904610663

218380_at	NA	-0.100897551	-0.357928975	0.048196189	0.074812534
45714_at	HCFC1R1	0.449566504	-0.06697583	0.048196189	0.797828289
212164_at	TMEM183A	-0.5585216	0.145626597	0.048205007	0.07547106
201282_at	OGDH	0.603597758	-0.215853014	0.048211432	0.771673839
217886_at	EPS15	0.167136691	0.02390197	0.048264662	0.770981123
205098_at	CCR1	2.234177828	-1.362947881	0.048283915	0.623148378
205174_s_at	QPCT	1.671712205	-0.776459086	0.048283915	0.757803114
37860_at	ZNF337	-0.684046315	0.284823069	0.048304771	0.904564026
46665_at	SEMA4C	-0.361577771	0.028478813	0.048355476	0.36336886
204243_at	RLF	-0.398358463	0.042427903	0.048367867	0.718433144
218153_at	CARS2	0.116192824	-0.116900104	0.048390831	0.634756742
212192_at	KCTD12	1.11992328	-0.459983315	0.048488712	0.867779818
204129_at	BCL9	-0.414306089	0.103374183	0.048524329	0.817846097
203253_s_at	HISPPD1	0.260024238	-0.037514875	0.048544857	0.904610663
201113_at	TUFM	-0.179948928	0.106252735	0.048617381	0.631418871
213045_at	MAST3	0.068189368	0.123543941	0.048617381	0.984072064
226194_at	ZNF828	-0.541149798	0.215904356	0.048620361	0.837726568
203038_at	PTPRK	-0.652112264	0.63154291	0.04870492	0.369289421
210949_s_at	EIF3C	0.215322429	-0.517428932	0.04870492	0.601077994
202360_at	MAML1	-0.183444279	0.104397421	0.048847501	0.943843445
203048_s_at	KIAA0372	-0.308256467	0.199536675	0.048936387	0.986331967
204012_s_at	LCMT2	-0.455459136	-0.115252722	0.048942575	0.983533905
209160_at	AKR1C3	1.091652293	-0.140359497	0.048959103	0.002573917
226150_at	PPAPDC1B	-0.257812829	0.858827162	0.048974895	0.00245168
NuGO_eht0305910_at	NA	0.32170115	-0.112415378	0.049007388	0.583057859
200936_at	RPL8	-0.369155523	0.13305611	0.049007388	0.678201164
222786_at	CHST12	0.032713745	0.229391749	0.049007388	0.724468512
1552633_at	ZNF101	-0.601183577	0.211431384	0.049007388	0.983533905
1552615_at	ACACB	-0.187089001	0.028699099	0.049040455	0.898153007
222566_at	NA	-0.487518115	0.093120693	0.049193001	0.956878581
233543_s_at	CCDC98	-0.534721806	0.009789903	0.049256198	0.612530293
226805_at	NA	-0.614797814	0.195799087	0.049364191	0.34563726
232392_at	SFRS3	-0.295583304	-0.027848472	0.049395264	0.617473819
224697_at	WDR22	-0.260094315	0.0489264	0.049479785	0.809268568
238768_at	LOC388969	-0.341746058	0.048994505	0.049490635	0.366875677
1555961_a_at	HINT1	-0.588855781	0.323309777	0.049643282	0.494353746
207805_s_at	PSMD9	-0.156577191	0.272212428	0.049643282	0.515539082
213145_at	FBXL14	-0.460175224	0.323266155	0.049744418	0.825387062
1554250_s_at	TRIM73	-0.692857461	0.287970894	0.049755197	0.447436058
226849_at	DENND1A	0.771209865	-0.227090794	0.049976032	0.752145933
228258_at	TBC1D10C	-0.587807293	0.449754493	0.050185833	0.860615052
1552263_at	MAPK1	0.641132849	-0.259635799	0.05054326	0.623994126
202494_at	PPIE	-0.725465079	0.466222233	0.050573108	0.443427677
203433_at	MTHFS	0.446189413	-0.153706539	0.050592868	0.674414527
212179_at	SFRS18	-0.708125181	0.338516404	0.050739461	0.405591691
200872_at	S100A10	0.09346471	-0.094011023	0.050916777	0.474208748
236226_at	BTLA	-1.096624298	0.568355921	0.050958898	0.00459504
239329_at	NA	-0.198727399	0.015714527	0.05116828	0.003634489
NuGO_eht0196482_at	NA	-0.432966412	0.112440645	0.05126638	0.717911499
226996_at	LYCAT	-0.791971496	-0.089585645	0.051702484	0.013592568
204994_at	MX2	0.418063392	-0.174199906	0.051781684	0.055755821
209894_at	LEPR	0.119573762	-0.255947256	0.051849888	0.049534686
226728_at	SLC27A1	0.681870815	-0.465921345	0.051969899	0.813393926
225758_s_at	TUBGCP6	-0.739211029	0.415711763	0.052123343	0.782726411
225973_at	TAP2	-0.281308737	0.496485037	0.05223275	0.85850045
209238_at	STX3	2.259810508	-1.553151543	0.052419945	0.349065839
209116_x_at	HBB	0.266648733	-0.16434608	0.052446672	0.989031876
226440_at	DUSP22	0.313705552	0.031972974	0.053046508	0.091935879
217979_at	TSPAN13	-0.177046392	0.398509717	0.053152452	6.67E-05

225841_at	C1orf59	0.23223184	0.209936838	0.053152452	0.99822734
207840_at	CD160	0.658807435	-0.296486016	0.05322004	0.90338479
212433_x_at	RPS2	-0.183485962	0.070140135	0.05340887	0.997883388
NuGO_eht0261741_at	RBM19	-0.882345624	0.542403779	0.053693476	0.998910035
224607_s_at	SRP68	-0.292975064	0.154082286	0.053806259	0.710843394
204208_at	RNGTT	-0.633316508	0.585666774	0.054000938	0.530676681
1554285_at	HAVCR2	1.140793651	-0.43421604	0.054257178	0.137293045
204873_at	PEX1	-0.960849256	0.389371171	0.054309612	0.569655618
227102_at	TRIM35	-0.539251638	0.239152706	0.054450115	0.904610663
39582_at	CYLD	-0.556171053	0.25806885	0.054520446	0.426799665
209179_s_at	MBOAT7	1.645888549	-1.0604072	0.054779294	0.96055154
1555461_at	NA	-0.039551784	0.318851736	0.05479934	0.299586595
224917_at	TMEM49	1.735738945	-1.102060781	0.055015263	0.885111304
209943_at	FBXL4	-0.190368045	0.007126093	0.055260666	0.718433144
207979_s_at	CD8B	-1.646405696	2.389071421	0.05641376	0.000452471
210357_s_at	SMOX	0.775533676	-0.707386897	0.056418052	0.246850067
40837_at	TLE2	-1.110818839	0.234580105	0.056776917	0.297634509
209420_s_at	SMPD1	-0.733637397	0.619521913	0.057099091	0.93869995
205488_at	GZMA	0.388496623	-0.044110716	0.057317323	0.997134109
226703_at	KIAA1787	-0.279106506	0.41170247	0.057471732	0.735523851
215242_at	PIGC	1.196963719	-0.693208138	0.057843705	0.456540316
227002_at	FAM78A	-0.431553997	0.40379799	0.058019753	0.991974857
201952_at	ALCAM	0.980351904	-1.006422219	0.058222984	0.952715673
206934_at	SIRPB1	1.935796381	-1.490690847	0.058383315	0.922195224
225056_at	SIPA1L2	1.635597177	-1.41231191	0.058815559	0.819982536
209163_at	CYB561	-0.163990562	-0.119078898	0.059354	0.13987084
225038_s_at	SURF6	0.012026196	-0.189136196	0.059590666	0.705825966
222629_at	REV1	-1.07791144	0.598974657	0.060106661	0.952715673
227393_at	TMEM16J	-1.266553228	0.610335659	0.060587823	0.784193607
NuGO_eht0327832_x_at	NA	-0.553603375	0.265789761	0.060791987	0.24149423
200923_at	LGALS3BP	-1.374181431	1.326495129	0.061023803	0.008832388
201880_at	ARIH1	-0.394980977	0.143696289	0.061048259	0.852911721
229742_at	LOC145853	-0.464731195	0.341912554	0.061285845	0.938356362
207815_at	PF4V1	0.719410316	-1.415329191	0.061534354	0.880132009
200844_s_at	PRDX6	0.262082164	-0.060903735	0.061534354	0.968266307
219922_s_at	LTBP3	-0.854477008	0.659109867	0.061655675	0.334150568
235339_at	SETDB2	-0.692239659	0.345423242	0.061680445	0.987714626
218307_at	RSAD1	-0.771039402	0.598578574	0.06170089	0.974396881
228498_at	NA	-0.513662718	0.30866932	0.061818607	0.233560003
218807_at	VAV3	0.73141666	-0.310138927	0.061840194	0.872319401
NuGO_eht0291248_at	dJ222E13.2	-0.872104209	0.217152419	0.061869763	0.538281192
212052_s_at	TBC1D9B	0.563860377	-0.078897197	0.061869763	0.899713939
227330_x_at	LOC389833	-0.341645916	-0.629902103	0.062116341	0.065495196
202219_at	SLC6A8	1.322616919	-1.2325274	0.062303411	0.725747341
203504_s_at	ABCA1	2.250340651	-0.988343219	0.06244096	0.992294764
208795_s_at	MCM7	-0.574555993	0.425883354	0.062835988	0.993128614
202181_at	KIAA0247	0.467476769	-0.305674511	0.062920075	0.87453593
228365_at	CPNE8	0.681875343	-0.570918553	0.063148641	0.898153007
223360_at	C21orf56	0.738956527	-0.733806364	0.06332842	0.586222874
213227_at	PGRMC2	-0.547331352	0.337255841	0.06349866	0.70227923
226941_at	NA	-0.246584579	0.244146722	0.063502923	0.888643023
212244_at	GRINL1A	-0.959978897	0.503244635	0.063651366	0.410179789
227379_at	MBOAT1	0.973153047	-0.722571295	0.063854039	0.690574419
201716_at	SNX1	0.369517257	0.284827275	0.063904375	0.035124951
209444_at	RAP1GDS1	-0.000763312	0.211603802	0.064170809	0.017864572
226726_at	MBOAT2	1.420853595	-1.178387956	0.064512951	0.345524366
208304_at	CCR3	2.903728853	-2.334131621	0.064542976	0.121309597
216348_at	NA	-0.602043291	0.140518978	0.064629915	0.989031876
241344_at	NA	0.56344639	-0.364205803	0.064732412	0.992294764



208636_at	ACTN1	-0.014238753	-0.112059883	0.064983946	0.836800109
212930_at	ATP2B1	-0.155448722	-0.268719351	0.064983946	0.941874119
200747_s_at	NUMA1	-1.032300429	0.696876756	0.065592559	0.79806757
214369_s_at	RASGRP2	-0.584818766	0.309532629	0.065795639	0.907629194
225330_at	IGF1R	-0.593006655	0.137469658	0.065944139	0.987507281
208822_s_at	DAP3	-0.523054555	0.22442011	0.066274299	0.891859293
211675_s_at	MDFIC	-0.632973242	0.100488696	0.066610301	0.832398541
218285_s_at	BDH2	-0.950080276	0.916798007	0.066688577	0.260001668
227438_at	ALPK1	1.342017299	-1.274123914	0.066857379	0.446907064
209018_s_at	PINK1	0.70457147	-0.251357304	0.06685904	0.893728963
204638_at	ACP5	0.364691664	-0.400188953	0.067344214	0.208174844
202934_at	HK2	1.179364497	-0.436141225	0.067557398	0.603155886
201209_at	HDAC1	-0.471766772	0.425977753	0.067563641	0.339313902
217912_at	DUS1L	-0.613822822	0.372166245	0.067839347	0.763928606
204897_at	PTGER4	0.054867748	-0.070854463	0.068001497	0.838633184
204479_at	OSTF1	1.036838488	-0.198157953	0.068283748	0.986331967
227239_at	FAM126A	0.197363257	-0.00941555	0.068505661	0.836800109
216384_x_at	NA	-0.396794749	0.252574522	0.06870158	0.645694762
230669_at	RASA2	-0.756346926	0.443518534	0.068704297	0.799537746
235258_at	NA	0.850566643	0.259093417	0.068788317	0.669735386
206687_s_at	PTPN6	0.17367257	0.07281159	0.068962685	0.817846097
228708_at	NA	0.877622669	-0.378811405	0.068987949	0.51416557
218909_at	RPS6KC1	0.455823408	-0.375785479	0.069024486	0.825387062
202729_s_at	LTBP1	1.273638009	-1.1864539	0.069314251	0.455327864
226347_at	NA	0.094057733	-0.007742701	0.069809856	0.776865408
218670_at	PUS1	-0.642044681	0.262185693	0.070284199	0.871532377
223471_at	RAB3IP	-0.340693599	0.024490589	0.070440988	0.645465151
219821_s_at	GFOD1	0.838196791	-0.164975695	0.071015471	0.555614731
207438_s_at	SNUPN	-0.351611682	0.211791552	0.071056657	0.904900122
1560754_at	CMTM7	-0.819330424	0.506119524	0.071351887	0.23974211
33307_at	CTA-126B4.5	-0.832866418	0.963400019	0.071458721	0.001308824
235837_at	NA	-0.686870637	-0.059450071	0.07156304	0.533672158
211921_x_at	PTMA	-0.559415648	0.340153587	0.071686299	0.995945904
222734_at	WARS2	0.352633408	-0.152787302	0.07185939	0.145834681
210946_at	PPAP2A	-1.090244181	0.374934358	0.072069641	0.71075567
203305_at	F13A1	0.898457982	-1.147717695	0.072202482	0.106099724
NuGO_eht0309965_at	LRRC37A4	0.387121565	-0.684947607	0.072224824	0.277200504
213528_at	C1orf156	-0.64719545	0.053233254	0.073292397	0.933787145
213056_at	FRMD4B	0.843190201	-1.109152815	0.073336705	0.738923038
212069_s_at	KIAA0515	-0.431241897	0.386270275	0.073648097	0.637428124
209686_at	S100B	-0.489772021	-0.41873719	0.07432105	0.020049899
222656_at	UBE2W	0.946620273	-0.63168027	0.074473068	0.983098839
230619_at	ARNT	0.697513461	0.026191361	0.074574548	0.976041024
223464_at	OSBPL5	0.144207573	0.247600257	0.074892491	0.324376259
203979_at	CYP27A1	0.389474867	0.099318561	0.074982684	0.001718386
219093_at	PID1	2.058611047	-1.422573052	0.075022811	0.776865408
235678_at	GM2A	1.47604171	-0.700664053	0.075635623	0.206115224
223777_at	MGC13005	1.383102301	-1.536614357	0.076755354	0.038655502
206914_at	CRTAM	-0.990491388	0.869079887	0.077202351	0.042282973
223063_at	C1orf198	-0.287114572	-0.013811095	0.07732995	0.040175551
NuGO_eht0333801_at	NA	-0.674674072	0.322748987	0.07732995	0.938098535
200009_at	GD12	0.118969811	-0.095274942	0.078242345	0.792409259
204470_at	CXCL1	2.424430994	-2.254561643	0.079042463	0.698917115
210448_s_at	P2RX5	-1.073582781	0.836728775	0.079123723	0.242505185
200875_s_at	NOL5A	-0.536897628	0.305535436	0.079213044	0.799121571
213923_at	RAP2B	0.269259363	-0.1149791	0.079247141	0.985246036
206589_at	GFI1	-0.287930259	0.955169078	0.079430749	0.258222512
202328_s_at	PKD1	-0.714348014	0.64880503	0.079436049	0.669957091
217945_at	BTBD1	-0.325250641	0.440220012	0.079794219	0.025246657

208806_at	CHD3	-0.90561783	0.64974504	0.079974803	0.85985873
NuGO_eht0221784_s_at	NA	-0.752400445	0.4759783	0.080585503	0.842103857
226848_at	NA	-0.602207528	0.309607044	0.080591179	0.405591691
218116_at	C9orf78	-0.261931003	0.146376363	0.080756494	0.997338517
1729_at	TRADD	-0.477623655	0.041657511	0.081022909	0.447436058
221345_at	FFAR2	2.565543824	-1.716287096	0.081211148	0.90032728
202455_at	HDAC5	0.388722559	-0.032791542	0.081378398	0.944466849
226378_s_at	C19orf25	0.77952071	-0.071252085	0.081444933	0.432185313
228050_at	UTP15	-0.74272846	0.586254963	0.081547023	0.858888861
223124_s_at	C1orf128	0.885916393	-0.724286066	0.081603639	0.434648053
203358_s_at	EZH2	-0.382152738	0.734727623	0.082081071	0.472986113
201953_at	CIB1	0.307624461	0.116384629	0.082229816	0.898820166
204639_at	ADA	0.28145129	0.134801841	0.082348291	0.994294934
219215_s_at	SLC39A4	0.411167717	-0.134656697	0.082348291	0.994294934
206405_x_at	USP6	-0.010217617	-0.165180896	0.082388355	0.832012197
207796_x_at	KLRD1	0.660349706	0.04905026	0.082437876	0.794872854
219352_at	HERC6	-0.97573644	0.858619148	0.082517827	0.044588454
242230_at	ATXN1	0.707803315	-0.375818931	0.082517827	0.881092518
203512_at	TRAPPC3	0.022419029	0.078289313	0.082890688	0.04023339
208623_s_at	EZR	-0.055578026	0.197185712	0.083174379	0.742859781
218440_at	MCCC1	-0.367385548	0.28061779	0.083500612	0.724769167
207375_s_at	IL15RA	0.065043491	-0.018339024	0.083660854	0.054012586
225851_at	FNTB	-0.231475379	0.036271483	0.083866129	4.85E-06
1569392_at	GPSN2	-1.160153604	0.850930356	0.083966862	0.744569879
208946_s_at	BECN1	-0.042600237	0.080537599	0.084048417	0.935199265
NuGO_eht0309399_at	NA	-0.636724105	0.516286682	0.084267039	0.811836594
225157_at	MLXIP	-0.505228444	0.495416492	0.084786883	0.555601864
202016_at	MEST	-0.899594987	0.421825725	0.085231709	0.738923038
228953_at	WHDC1	-0.623170131	0.349376149	0.085837857	0.87538356
1565913_at	NA	-0.580680255	0.28962213	0.085895744	0.832356892
206618_at	IL18R1	0.319748884	-0.833883896	0.086756324	5.38E-06
226055_at	ARRDC2	-0.646577164	0.313530085	0.087104624	0.744028928
242363_at	NA	0.525464578	-1.023801486	0.087145809	0.339832558
212296_at	PSMD14	-0.058960151	0.202447297	0.08736758	0.39533118
212771_at	C10orf38	-1.469442829	1.049475849	0.087815382	0.989317689
206115_at	EGR3	2.958152312	-2.182736424	0.087950721	0.730705879
202377_at	NA	0.931378348	-0.619016329	0.087950721	0.986788991
222010_at	ACAT2	-0.555765621	0.481406887	0.088296881	0.294445177
227114_at	RNF214	-0.447844905	-0.061740999	0.088296881	0.522933689
228264_at	ACCS	-0.016669861	-0.215041398	0.088489172	0.082964504
218086_at	NPDC1	-0.935920338	0.150253348	0.088489172	0.738923038
212688_at	PIK3CB	-0.572790477	0.296969093	0.088544225	0.398669682
203818_s_at	SF3A3	-0.443183611	0.262719975	0.089346368	0.83636801
1557116_at	APOL6	0.285471364	0.083236175	0.08961857	0.757803114
225053_at	CNOT7	-0.281750824	0.20940326	0.089783489	0.983533905
224559_at	NA	-1.479569031	0.893744658	0.09047969	0.904610663
213588_x_at	RPL14	-0.503136748	0.30292123	0.09052102	0.661931359
213849_s_at	PPP2R2B	0.251831096	-0.003843903	0.091375471	0.859850646
208984_x_at	RBM10	-0.560334472	0.43040899	0.091388295	0.817319796
212952_at	CALR	-0.170799777	0.561093427	0.0915663	0.069141274
213530_at	NA	-0.722219556	0.292470805	0.092041634	0.321673569
203282_at	GBE1	0.363583497	-0.280314694	0.092293227	0.904564026
1557465_at	RP11-327P2.4	-1.11327106	0.818827983	0.092751645	0.131940597
205418_at	FES	1.874442121	-1.01073916	0.093577276	0.894790103
243303_at	NA	-1.746294479	1.103525817	0.093594055	0.95470514
228905_at	PCM1	-0.442045533	0.090994507	0.093877563	0.195292186
227141_at	TYW3	-0.927689738	0.461884373	0.093926214	0.1976133
213355_at	ST3GAL6	1.51365187	-1.264906668	0.094585096	0.922293868
219155_at	PITPNC1	-0.336780029	0.346364615	0.094660508	0.989031876

229151_at	SLC14A1	1.14199431	-1.247043814	0.094742309	0.496225049
200893_at	SFRS10	-0.391191334	0.254077108	0.095145963	0.722127488
212048_s_at	YARS	0.06293296	0.138097228	0.095676373	0.369293911
202432_at	PPP3CB	-0.050380527	0.134353274	0.095792391	0.880670706
219269_at	HMBX1	0.532881552	-1.460486889	0.095842858	0.000214384
218699_at	RAB7L1	-0.087485848	0.157163234	0.095870625	0.94793873
1554241_at	COCH	-0.112317878	-0.138638006	0.096188883	4.15E-05
212624_s_at	NA	-0.636664436	0.044826401	0.096402603	0.552121299
226208_at	ZSWIM6	0.70874528	-0.598553652	0.097204396	0.996992762
201613_s_at	NA	-0.784813226	0.523032393	0.098008271	0.956878581
201517_at	NCBP2	-0.449731435	0.348398807	0.098231804	0.951242927
204103_at	CCL4	0.865364145	0.337759637	0.098307486	0.259799363
212980_at	USP34	-1.03757425	0.354151088	0.098905512	0.244730224
218337_at	RAI16	-0.520427319	0.18700036	0.099008566	0.771673839
209782_s_at	DBP	-0.64173237	0.251612561	0.099011004	0.482280148
215719_x_at	FAS	1.565127285	-1.236872584	0.099227596	0.568396806
206283_s_at	TAL1	0.655615733	-0.44624454	0.100232057	0.0829949
203196_at	ABCC4	-0.197555221	-0.147368238	0.100270366	0.661302832
208662_s_at	TTC3	-0.759950638	0.392504295	0.100490495	0.730191996
223012_at	UBXD1	0.305156875	0.012701867	0.100490495	0.831389942
229450_at	IFIT3	1.49424797	-0.379551501	0.100521838	0.108392062
225997_at	MOBKL1A	0.583735643	-0.256258608	0.100570003	0.981189702
218096_at	AGPAT5	-0.563219915	0.358775794	0.100993305	0.014409679
217838_s_at	EVL	-0.720867862	0.511916282	0.101293042	0.946994346
232978_at	NA	-0.396828473	-0.451211609	0.101572515	0.122169553
232645_at	LOC153684	-0.433929641	-0.173546393	0.101657772	0.731331859
227158_at	C14orf126	-0.402456006	0.225886514	0.101721083	0.485222364
228247_at	FRG1B	0.463239588	0.370347466	0.101739846	0.929496904
218710_at	TTC27	-0.944134769	0.71815676	0.101789805	0.452929895
221891_x_at	HSPA8	-0.235734045	0.157413231	0.10214336	0.661302832
226064_s_at	DGAT2	1.775640361	-1.298802876	0.102535685	0.877080661
209232_s_at	DCTN5	0.212636305	0.023533726	0.103123687	0.841677555
202307_s_at	TAP1	-0.315804517	0.603846208	0.103312529	0.464440656
220948_s_at	ATP1A1	-0.585237459	0.371901017	0.103343048	0.832214764
225512_at	ZBTB38	-0.192512063	0.056597161	0.103343048	0.956930689
38149_at	ARHGAP25	-0.041595157	-0.200027474	0.103559203	0.876375907
202469_s_at	CPSF6	0.050999483	0.232863585	0.103667826	0.886092369
209626_s_at	OSBPL3	-0.364110423	0.157130744	0.10431715	0.474208748
AFFX-HUMISGF3A/M9793	NA	-0.043353267	0.667467473	0.104802715	0.460670215
200095_x_at	NA	-0.177281831	0.148969591	0.104973826	0.509697621
203373_at	SOCS2	-1.059923586	0.504592218	0.1051387	0.000384941
202457_s_at	PPP3CA	0.639130869	-0.465222629	0.105197048	0.80124793
201388_at	PSMD3	0.146315384	0.300339288	0.105267941	0.293901896
225114_at	AGPS	0.536926512	-0.085895028	0.10530427	0.967511112
229553_at	PGM2L1	-0.106721044	-0.125685419	0.105315959	0.708650791
218126_at	FAM82C	0.369312386	-0.07148441	0.105461561	0.252985283
224701_at	PARP14	0.539651791	0.216998473	0.105531028	0.318340552
225319_s_at	FAM104A	0.406537111	-0.370324302	0.105610967	0.215340508
204226_at	STAU2	-0.015159293	0.274265956	0.105732278	0.294008681
225014_at	LOC389203	-0.729674271	0.428777409	0.105828953	0.943843445
228324_at	C9orf41	-0.742921958	0.661746689	0.106301262	0.275075472
208091_s_at	ECOP	-0.181557174	0.253893912	0.106301262	0.997950785
203595_s_at	NA	0.095565399	-0.03610018	0.106478102	0.042616745
214779_s_at	SGSM3	-0.525145619	0.347868038	0.106488815	0.659492967
40149_at	SH2B1	-0.702832155	0.47717214	0.106978089	0.764165581
200910_at	CCT3	-0.636216042	0.395877929	0.107338964	0.749675937
230219_at	NDE1	0.271683915	-0.316553366	0.108445437	0.959277728
213028_at	NA	-0.617406512	0.299734131	0.1084699	0.904948526
218427_at	SDCCAG3	-0.595271771	0.599663582	0.108566358	0.943843445

203115_at	FECH	0.892214916	-1.538879576	0.108870097	0.586448746
200887_s_at	STAT1	0.01955384	0.527616547	0.10888928	0.555902361
208336_s_at	NA	-0.458361596	0.287830134	0.10888949	0.924636049
226112_at	SGCB	-0.132963639	0.200838138	0.109091969	0.2428453
230871_at	DHX30	-0.150842076	0.174011396	0.10944416	0.852395615
211742_s_at	EVI2B	0.400820277	-0.346007373	0.109769215	0.958205626
1556183_at	FLJ40330	-0.544155847	0.430755534	0.109889548	0.833794412
208955_at	DUT	-0.644086409	0.515500175	0.109984941	0.484403374
235146_at	NA	2.08889537	-1.494503165	0.110416089	0.919902068
201003_x_at	TMEM189-UBE2	1.045331143	-0.454190625	0.110468606	0.872259205
219048_at	PIGN	-0.544524333	-0.024653789	0.110916026	0.899978666
220094_s_at	NA	0.446081799	-0.008659931	0.111516209	0.271438657
208732_at	RAB2A	0.077986479	-0.086554829	0.111623973	0.399935922
203989_x_at	F2R	0.302762818	-0.193653046	0.112065144	0.838298025
1552664_at	FLCN	0.513469227	-0.181539808	0.112906332	0.508846159
223096_at	NOP5/NOP58	-0.54471877	0.434728922	0.113069703	0.764941969
235309_at	RPS15A	-0.56524734	0.170981433	0.113838696	0.496225049
202107_s_at	MCM2	0.148895663	0.387555514	0.114824926	0.345524366
203668_at	MAN2C1	0.233320868	0.494608108	0.115001364	0.226195562
1568658_at	LOC339804	0.192791261	0.847636484	0.115487235	0.713683344
218224_at	PNMA1	-0.455765302	0.366844566	0.115549371	0.810019128
201236_s_at	BTG2	0.726981619	-0.517187077	0.116498186	0.957509443
41858_at	FRAG1	-0.471739053	0.504897669	0.116918239	0.611344804
NuGO_eht0296850_at	DKFZp686l1521	-0.674677922	-0.149930235	0.117612969	0.516379267
212480_at	SPECC1L	-0.558801883	0.153383763	0.117754456	0.876375907
220028_at	ACVR2B	-0.308011702	-0.19290302	0.11783612	0.446907064
212430_at	NA	0.692181757	-0.330536787	0.118007202	0.594300772
1568955_at	NA	1.179524512	-0.866016771	0.118007202	0.922317629
212398_at	RDX	0.357654335	-0.606547332	0.118007202	0.977053805
205013_s_at	ADORA2A	-0.861154591	0.473025532	0.118040325	0.898153007
203045_at	NINJ1	1.196536177	-0.763372794	0.118833206	0.940645151
219316_s_at	FLVCR2	1.057718508	-0.6517253	0.118874826	0.744758826
201059_at	CTTN	0.927179855	-0.887372938	0.11901395	0.318708232
235867_at	NA	0.090450989	0.880855343	0.119330759	0.062428701
214114_x_at	FASTK	-0.464304888	0.286154292	0.119652256	0.6399532
208450_at	LGALS2	2.030569298	0.582480301	0.119767805	0.794856138
212959_s_at	GNPTAB	0.368348509	-0.0151492	0.120092648	0.797340908
231017_at	STK11	0.487274323	0.190681391	0.120276981	0.935436753
NuGO_eht0294915_at	NA	-0.844620471	0.474367519	0.120526655	0.922078025
1553099_at	TIGD1	-0.583533366	0.52339707	0.120836311	0.895987773
228987_at	NA	0.133561466	-0.28822382	0.121147789	0.023263892
201412_at	LRP10	0.263952528	-0.079587092	0.121226683	0.710057057
224783_at	FAM100B	-0.869680411	0.771636295	0.121513322	0.300737527
242590_at	NA	-0.827590212	0.225824718	0.121823653	0.203597662
232028_at	ZNF678	0.328744506	-0.426642685	0.121823653	0.827758717
222793_at	DDX58	0.128624699	0.352973433	0.122025865	0.434648053
203717_at	DPP4	-0.652061941	0.294096214	0.12236631	0.486089653
219132_at	PELI2	0.9409733	-0.590872897	0.122516767	0.646374023
214482_at	ZBTB25	-1.019360267	0.700818972	0.122527227	0.73593185
214271_x_at	RPL12	-0.261907491	0.081232499	0.122640039	0.891050566
222889_at	DCLRE1B	0.800558313	-0.65289625	0.122894366	0.384090685
218249_at	ZDHHC6	-0.311333527	0.194041436	0.124585801	0.919643125
212954_at	DYRK4	-0.996983574	0.962144586	0.125395606	0.016448229
203505_at	ABCA1	1.663491389	-0.361698054	0.125395606	0.405591691
226838_at	TTC32	-0.541942887	0.385070771	0.125395606	0.786736478
202845_s_at	RALBP1	0.314020894	-0.272375936	0.12569521	0.997044246
211982_x_at	XPO6	-0.051705277	-0.166775729	0.125786308	0.23828946
218316_at	TIMM9	-0.530501422	0.327778967	0.125825715	0.829067675
37145_at	GNLY	0.517489694	0.284829748	0.125864219	0.00459504

204048_s_at	PHACTR2	-0.283792402	-0.068220436	0.126145931	0.021924704
224968_at	CCDC104	-1.051809597	0.162890588	0.126166624	0.950276037
218818_at	FHL3	1.021638774	-0.728643503	0.126250365	0.515539082
207313_x_at	KIR3DL2	0.426216811	-0.438516208	0.126971745	0.856456276
225447_at	GPD2	0.744033294	-0.369138385	0.127097472	0.70227923
38157_at	DOM3Z	-0.172216941	0.149087209	0.127197442	0.928265116
210251_s_at	RUFY3	-1.353126942	0.912853425	0.127357042	0.642591955
235698_at	CDH3	-0.704298656	0.28585166	0.127667718	0.768151271
203509_at	SORL1	-0.138440786	-0.155829515	0.128928832	0.602558013
213340_s_at	KIAA0495	-0.624791115	0.377767847	0.129045711	0.405591691
240721_at	NA	-0.635669758	-0.266517676	0.129149812	0.003432664
205169_at	RBBP5	-0.135403975	0.455699551	0.129153564	0.900654778
215492_x_at	NA	0.09799221	-0.290558251	0.129347135	0.436647961
200025_s_at	RPL27	-0.18520313	0.10122732	0.130089788	0.91992186
235729_at	ZNF514	-1.298036558	0.616685124	0.130378447	0.120646003
218679_s_at	VPS28	0.057420305	0.351301847	0.13044336	0.606244459
202660_at	ITPR2	-0.104559467	0.054023155	0.130496375	0.649857325
226666_at	NA	-0.683689593	-0.166858591	0.130677398	0.68606623
205548_s_at	BTG3	-0.104633856	0.352941065	0.130853439	0.795027409
221992_at	LOC440348	1.131165034	0.335322929	0.130853439	0.937331124
203782_s_at	POLRMT	-0.301729519	0.394130661	0.130920301	0.979876386
223294_at	CXorf26	-0.322208853	0.204975814	0.131458544	0.420406365
214003_x_at	RPS20	-0.148171451	0.06588442	0.132003615	0.196917656
206255_at	BLK	-0.627322304	0.85169855	0.132288647	0.03582
204635_at	RPS6KA5	0.023290092	-0.371396261	0.132577275	0.01126594
223322_at	RASSF5	-0.015487767	0.063207286	0.132577275	0.630476283
218847_at	IGF2BP2	1.378760959	-0.97838637	0.132909602	0.85985873
207426_s_at	TNFSF4	-0.795931917	0.129051673	0.132926453	0.007723908
204054_at	PTEN	0.772662427	-0.589145468	0.133520299	0.904610663
200003_s_at	RPL28	-0.17885805	0.121860863	0.134002861	0.875281129
239084_at	SNAP29	-0.675387807	1.052803828	0.134142339	0.000177964
244413_at	CLECL1	0.826961627	-0.168401199	0.134166973	0.006819647
65585_at	NA	-0.506801021	0.38679346	0.134166973	0.850908368
227448_at	ARGLU1	-0.757861946	0.544735371	0.134281507	0.705927004
219294_at	CENPQ	-0.150144807	0.160144255	0.134598828	0.9718327
1559776_at	GM2A	1.580622617	-0.471028414	0.135028587	0.110275222
212351_at	EIF2B5	-0.910668271	0.59426263	0.135164366	0.986331967
234165_at	PTGDR	1.842376934	-0.779613618	0.135433723	0.72171136
202330_s_at	UNG	0.162413135	0.147183764	0.136372335	0.863195445
207098_s_at	NA	-0.093903272	0.284506873	0.136944656	0.954375039
225262_at	FOSL2	1.606971847	-0.838165416	0.137311744	0.934977534
201681_s_at	DLG5	1.57491414	-1.64603152	0.13762566	0.916514169
212904_at	LRRC47	-0.263438746	0.157735105	0.138184137	0.992728431
204950_at	CARD8	0.256943217	-1.097742887	0.139032062	0.155793074
200087_s_at	TMED2	0.132695399	0.050107846	0.13922026	0.789209507
202727_s_at	IFNGR1	1.053376039	-0.811833798	0.13922026	0.922823478
203848_at	AKAP8	-0.3650045	0.243812323	0.139319971	0.193753258
241845_at	NA	-0.905424619	0.04608811	0.139844343	0.465952639
222997_s_at	MRPS21	-0.533650704	0.289195554	0.140192553	0.735148394
201266_at	TXNRD1	0.581679356	-0.312446637	0.140866186	0.602371526
204529_s_at	TOX	0.22786283	0.082106094	0.141003526	0.871102958
217226_s_at	NA	0.15372091	0.044304795	0.141287842	0.687827607
55872_at	ZNF512B	-1.345644883	0.848381697	0.141326856	0.710570468
222416_at	ALDH18A1	-0.610287279	0.52852702	0.142222304	0.456066657
216262_s_at	NA	-0.379548889	0.285725921	0.142887319	0.853379347
220943_s_at	NA	-0.53445783	0.362078617	0.143938044	0.405591691
225577_at	TRIM26	-0.093272788	0.108910356	0.144121498	2.65E-05
218524_at	E4F1	-0.650752668	0.288981829	0.144121498	0.877080661
200990_at	TRIM28	-0.36431228	0.317621183	0.144124702	0.914248051

239647_at	CHST13	1.88866635	-1.387995455	0.144823199	0.569722264
204308_s_at	KIAA0329	1.045292269	-0.751449949	0.144864245	0.807845814
218345_at	TMEM176A	1.179701012	-0.209004601	0.144949957	0.018462533
221203_s_at	YEATS2	-0.37359974	0.228590673	0.146012514	0.812761435
221540_x_at	GTF2H2	0.437604433	0.559325971	0.146464377	0.322780811
225613_at	MAST4	-1.409704174	0.548583272	0.146705469	0.294008681
219184_x_at	TIMM22	0.341778789	-0.350220508	0.146749126	0.904610663
218106_s_at	MRPS10	0.092092099	0.252417593	0.147066921	0.740016568
226336_at	NA	0.384468896	0.252778481	0.14726043	0.106099724
NuGO_eht0333464_s_at	NA	0.451937179	-0.384956391	0.14726043	0.801732165
224469_s_at	INF2	-0.351181774	0.186482877	0.14726043	0.942947522
1555989_at	NA	1.272956194	-0.144804888	0.14835279	0.492726615
221637_s_at	C11orf48	-0.137132792	0.222162442	0.148376352	0.035299322
205964_at	ZNF426	-0.787350477	0.273313176	0.148725443	0.937331124
206207_at	CLC	0.273640127	-0.144898354	0.148892823	0.44618165
NuGO_eht0361504_at	NA	-0.683848425	0.449429886	0.149337641	0.977053805
223580_at	SPSB2	-0.459173099	0.269540536	0.149792878	0.656133837
220646_s_at	KLRF1	1.156729705	-0.468051242	0.149828638	0.848408273
201455_s_at	NPEPPS	-0.034603095	-0.101295211	0.14994836	0.960053998
204131_s_at	NA	0.581869863	-0.594985258	0.152832871	0.36464603
205839_s_at	BZRAP1	0.737644514	-0.04855881	0.152837969	0.855385696
213618_at	CENTD1	0.21331492	-0.013025646	0.152859005	0.804184241
235429_at	NA	0.057074132	0.407736329	0.153174808	0.84233886
227558_at	CBX4	-0.159636293	0.276592382	0.153527284	0.707423433
223228_at	LDLOC1L	0.303292363	-0.050383076	0.153580444	0.175129882
211704_s_at	SPIN2B	-0.308559333	0.266708749	0.153927958	0.857210002
226712_at	NA	-1.628422877	0.867137281	0.154724283	0.960359712
232014_at	ZNF30	-1.064956376	0.703186909	0.155752162	0.661740035
208647_at	FDFT1	-0.37250344	0.029145849	0.157849953	0.724119959
202033_s_at	RB1CC1	-0.257779151	-0.130804872	0.158249216	0.139607488
224265_s_at	ZAN	0.004421432	-0.017726213	0.158254479	0.679960895
220954_s_at	PILRB	0.014532681	-0.191200369	0.15827612	0.038340871
209476_at	TXNDC1	0.047864602	0.135078198	0.158818331	0.44618165
218066_at	SLC12A7	-0.440434973	0.844451519	0.159141734	4.82E-07
1558711_at	FAM13A1OS	0.327578449	-0.435311368	0.159142022	0.005984343
212967_x_at	NAP1L1	-0.337054816	0.205877312	0.15950503	0.554269191
218175_at	CCDC92	-0.316547464	0.273555109	0.159811123	0.496865745
221223_x_at	CISH	-0.807524587	0.100109865	0.160059651	0.013592568
214734_at	EXPH5	0.389296821	-0.379802758	0.160336384	0.270419385
202135_s_at	ACTR1B	-0.276230216	0.222952999	0.160429659	0.963714692
203028_s_at	CYBA	0.842772946	-0.286815924	0.161003349	0.536812643
218503_at	KIAA1797	-0.79727596	0.422411243	0.161003349	0.589599238
201695_s_at	NP	-0.197476641	-0.516484632	0.161476244	0.794856138
201607_at	PWP1	-0.174451822	0.30172172	0.161525159	0.952303986
213801_x_at	RPSA	-0.286408343	0.174311433	0.161920842	0.958203979
204646_at	DPYD	0.276438331	-0.259674145	0.162129716	0.997044246
37986_at	EPOR	0.565942622	-0.429929603	0.162507612	0.728363097
226576_at	ARHGAP26	0.988686518	-0.547923024	0.162507612	0.961354304
205967_at	HIST1H4C	-0.14150421	0.11467091	0.162874055	0.994471879
210187_at	FKBP1A	-0.288865459	0.012058088	0.163010209	0.767267581
230214_at	MRV11	2.714670045	-2.71096586	0.163290603	0.262506972
203908_at	SLC4A4	0.746683213	-0.376982851	0.16450743	0.976041024
33132_at	CPSF1	0.364784404	-0.085188348	0.164564251	0.009442777
219382_at	SERTAD3	1.043201136	-1.004594414	0.165526098	0.983533905
204980_at	CLOCK	0.247621797	-0.216106268	0.16573177	0.034628892
209503_s_at	PSMC5	-0.222542913	0.251752199	0.166034385	0.96760575
NuGO_eht0340005_at	NA	-0.358133461	0.194553533	0.166338233	0.898153007
227286_at	CCDC95	-0.494473975	0.607411015	0.166933461	0.747201382
212203_x_at	IFITM3	0.711671105	-0.598677677	0.167857152	0.97806937

202903_at	NA	-0.771712197	0.545182341	0.167961474	0.879401124
205288_at	CDC14A	-1.064662738	0.383430119	0.168100432	0.90900408
204683_at	ICAM2	-0.319357603	0.128343881	0.168386224	0.36464603
220731_s_at	NECAP2	-0.264437602	0.227953585	0.169129694	0.796470829
228185_at	ZNF25	-0.094959478	0.474310818	0.169820735	0.898820166
212382_at	TCF4	-0.03024411	0.250047636	0.169905162	0.026335728
1552310_at	C15orf40	-0.462139723	0.377176852	0.170129806	0.88996466
210031_at	CD247	-0.066235474	0.220698349	0.171614482	0.344171049
206682_at	CLEC10A	1.374394945	-1.690600879	0.17199056	0.682393123
205987_at	CD1C	0.838759299	-0.933280321	0.172187385	0.904610663
227856_at	C4orf32	0.515146192	-0.187221501	0.173017825	0.516194331
235177_at	FAM119A	-0.486899453	0.158071024	0.173603731	0.15039738
226072_at	FUK	-0.644072867	0.379082469	0.174308975	0.481340601
213166_x_at	FAM128A	-1.176878055	0.639122401	0.175131668	0.785111628
205926_at	IL27RA	-0.988149291	0.568670875	0.17577442	0.82527877
226630_at	C14orf106	0.753913549	-0.451610346	0.176134123	0.898153007
212034_s_at	EXOC7	-0.3195218	0.232888137	0.176147766	0.994471879
225055_at	NA	-0.193017444	0.132678163	0.176647307	0.196105795
222741_s_at	C6orf64	-0.151113747	0.335955004	0.177297884	0.936397111
204735_at	PDE4A	0.673897652	-0.393501491	0.177567908	0.603344106
229146_at	C7orf31	-0.421381293	0.261423093	0.178844463	0.341604793
238127_at	FLJ41484	-1.308305029	0.736180909	0.179029255	0.017864572
218228_s_at	TNKS2	-0.062000318	0.0055142	0.179612858	0.871719812
227420_at	TNFAIP8L1	-0.083026381	0.235240037	0.180561599	0.669957091
226300_at	MED19	-0.018634455	-0.30581018	0.180580689	0.619201736
202813_at	TARBP1	-1.009414802	0.625218712	0.180779408	0.898820166
217914_at	TPCN1	-0.471545029	0.32420984	0.181194771	0.560238324
222672_at	LYRM4	0.189876299	-0.056147593	0.181258541	0.252930179
201278_at	DAB2	0.998042042	-0.299408433	0.1813404	0.015655428
203317_at	PSD4	-0.294089803	0.128280483	0.181647981	0.08548924
201300_s_at	PRNP	0.183357339	-0.033870805	0.181767502	0.847358046
212396_s_at	KIAA0090	-0.258013331	0.34408442	0.181856797	0.007979699
223370_at	PLEKHA3	0.232541316	0.122939324	0.181856797	0.673971913
205053_at	PRIM1	-1.228700661	0.743939884	0.182158436	0.223829154
212539_at	CHD1L	-0.513740499	0.442603195	0.182591129	0.818236929
225092_at	NUP88	-0.765045161	0.734267777	0.182697509	0.783267372
205180_s_at	ADAM8	0.490822192	-0.24759495	0.182821279	0.523833772
213025_at	THUMPD1	-0.392274613	0.289861756	0.182962831	0.792659018
212646_at	RFTN1	0.124528872	0.096273979	0.183236249	0.834340715
228095_at	PHF14	-0.601062831	0.313398172	0.183890118	0.813768049
225508_at	KIAA1468	-0.128652916	-0.43099659	0.185574877	0.334313689
218609_s_at	NUDT2	-0.429418761	0.829301005	0.185759523	0.366820007
203413_at	NELL2	-0.642208443	0.706539472	0.187171599	0.943378608
228967_at	EIF1	1.008779166	-0.749667793	0.187841349	0.359114185
227817_at	NA	-0.328482166	0.665607824	0.188253105	0.835788125
225111_s_at	NAPB	-0.368856392	0.267472034	0.188576842	0.185151232
38340_at	HIP1R	-0.638852365	0.619973403	0.188615312	0.705825966
213222_at	NA	1.004030707	-1.274480902	0.188864689	0.109435242
NuGO_eht0295683_at	NA	3.23755287	-2.957572025	0.188864689	0.782141969
224891_at	FOXO3	0.598148448	-0.718269492	0.189384841	0.33116049
204612_at	PKIA	-0.45431727	0.695834156	0.189384841	0.446907064
55705_at	NA	0.648164329	-0.444151162	0.189384841	0.580738147
208709_s_at	NRD1	0.119231034	-0.125602997	0.189690571	0.583309292
237387_at	NA	1.711006635	-0.895674555	0.189720162	0.105849912
228304_at	NA	-1.475031652	0.456885879	0.189720162	0.91501804
207856_s_at	SMPD4	-0.386958961	0.310397742	0.189842484	0.70903135
203402_at	KCNAB2	0.915628432	-0.674706237	0.190588214	0.000388281
208690_s_at	PDLIM1	0.03153518	0.152565138	0.190676344	0.005153166
1569496_s_at	SPON2	0.788047236	-0.162044194	0.191706114	0.493171615

207808_s_at	PROS1	-0.339726583	-0.209441697	0.192072013	0.12707407
225335_at	NA	0.205000411	0.414904474	0.192964402	0.645808888
223067_at	CWC15	-0.367597422	0.241543409	0.192972873	0.320032138
226295_at	ITFG2	-0.557188514	0.355162641	0.193675151	0.085730265
200088_x_at	NA	-0.256279434	0.102921637	0.193675151	0.767267581
222280_at	NA	-0.448370308	0.257021148	0.194770391	0.860351603
209213_at	CBR1	0.136715406	-0.218166868	0.195558593	0.430790395
200916_at	TAGLN2	0.345414702	-0.218495973	0.195627402	0.313182272
219179_at	DACT1	-1.681783629	1.14170101	0.196271585	2.63E-06
226093_at	DCP1B	-0.541678161	0.232928314	0.198154874	0.858889108
212183_at	NUDT4	0.22830277	-0.814264282	0.198298091	0.101878176
227715_at	LOC389833	-0.128713571	-0.355873383	0.199177259	0.613190982
236285_at	NA	-0.630034157	0.910123987	0.199499637	0.057233313
229513_at	STRBP	-0.734636798	0.46056093	0.19961754	0.811836594
232344_at	NA	-1.182616041	0.540891778	0.200697567	0.795840072
205645_at	REPS2	1.143744394	-0.926410724	0.200923053	0.91217177
213539_at	CD3D	-0.936240695	0.800816564	0.201387713	0.784060166
224766_at	RPL37	-0.389304497	0.4265973	0.201455612	0.845074987
1569136_at	MGAT4A	-0.997069402	0.663215871	0.202211442	0.525047341
209368_at	EPHX2	-1.029491761	0.633882452	0.202537447	0.70227923
215111_s_at	TSC22D1	-0.30685581	0.288169685	0.202906821	0.125292905
207339_s_at	LTB	-0.677403527	0.455152201	0.204506881	0.509941044
205176_s_at	ITGB3BP	-0.544259309	1.212887403	0.205127723	0.89430365
228392_at	ZNF302	-1.722822456	0.09095228	0.205881374	0.969565808
217809_at	BZW2	-0.276603336	0.351334274	0.205913038	0.507193933
52940_at	SIGIRR	-0.565549932	0.337349107	0.206238207	0.674227405
210971_s_at	ARNTL	0.465212	-0.66950443	0.206539161	0.876375907
336_at	TBXA2R	-0.621745631	0.39738934	0.207432685	0.013992992
32502_at	GDPD5	-0.498260048	0.281202002	0.208078681	0.277151731
213737_x_at	NA	0.218714345	-0.182473309	0.208091551	0.021529075
206445_s_at	PRMT1	-0.232198338	0.272670622	0.208176301	0.97784917
212630_at	EXOC3	0.086183294	0.124331521	0.208284103	0.997985323
219880_at	NA	0.303586482	-0.465963779	0.208588815	0.045055045
227592_at	ALDH16A1	-0.397016107	0.189361237	0.209160195	0.594271739
221087_s_at	APOL3	-0.237514077	0.61954594	0.20924764	0.090480021
212687_at	LIMS1	0.036188023	-0.301737681	0.20924764	0.827758717
226188_at	HSPC159	1.557497514	-1.619925175	0.20924764	0.832017035
222681_at	NA	-0.659691161	0.803981891	0.210314864	0.232460661
202321_at	GGPS1	-0.689447052	0.28243069	0.210719054	0.969565808
203122_at	TTC15	-0.714461183	0.162773579	0.210894043	0.904900122
201181_at	GNAI3	0.152582145	0.245874742	0.210989682	0.024472615
239888_at	NA	-0.607818698	0.130369862	0.211053201	0.664901589
205945_at	IL6R	-0.122219935	-0.133294266	0.211060041	0.607204904
221096_s_at	TMCO6	-0.623193762	0.239286799	0.211879208	0.492726615
209850_s_at	NA	1.037488893	-0.712695565	0.212548283	0.944164014
215684_s_at	ASCC2	0.411420736	-0.141834668	0.212869485	0.992294764
222848_at	CENPK	2.596911266	-1.559247862	0.213687125	0.044588454
NuGO_eht0359659_x_at	NA	-0.502681254	0.15977037	0.213687125	0.81895014
214791_at	SP140L	-0.053860012	0.259050459	0.214042131	0.00698544
223533_at	LRRC8C	-0.368912252	-0.095327361	0.214403007	0.428733065
212789_at	NCAPD3	-0.40732395	0.091465519	0.21441698	0.191458619
203667_at	TBCA	-0.426529679	0.178279143	0.21457992	0.36979173
226442_at	ABTB1	1.120515424	-0.52697204	0.214652096	0.492465027
219109_at	SPAG16	-0.599677503	0.23753409	0.215048429	0.515539082
213213_at	NA	-0.724434515	0.336035914	0.216007289	0.191458619
203870_at	USP46	-0.221144659	-0.061743263	0.216007289	0.81062132
227213_at	NA	-1.030499908	0.638842193	0.216323177	0.595401416
223543_at	PDZD4	0.777716147	-0.889552187	0.217372152	0.005287098
202912_at	ADM	1.943800764	-1.657279892	0.217803163	0.757803114



225129_at	CPNE2	0.642920925	-0.347048637	0.217984288	0.03704392
224862_at	GNAQ	0.755621152	-0.660065896	0.218232711	0.871532377
202704_at	TOB1	-0.424130088	-0.014867961	0.218341464	0.059645335
206991_s_at	CCR5	-0.270791403	-0.380867447	0.218426317	0.767030298
201058_s_at	MYL9	2.029422505	-1.552241182	0.218445299	0.44618165
201197_at	AMD1	0.095939177	0.002149735	0.218817812	0.799324603
203200_s_at	MTRR	-0.420770248	0.422989417	0.220583893	0.922078025
201037_at	PFKP	-0.383040888	0.418672637	0.222353532	0.385358806
37408_at	MRC2	0.683793354	-0.654414224	0.222700961	0.214956248
NuGO_eht0328565_at	TNFRSF4	-0.816407194	0.207642708	0.222837175	0.580738147
201063_at	RCN1	-0.226424504	0.142938847	0.223569945	0.753663229
230337_at	SOS1	-0.767883056	-0.087069934	0.225152583	0.023057597
201088_at	KPNA2	0.070862436	0.025372448	0.22523905	0.976041024
227572_at	USP30	-0.000313511	0.121358299	0.225362619	0.322780811
224889_at	FOXO3	0.480564288	-0.583404458	0.225537933	0.241877387
218308_at	TACC3	-0.263904012	0.028572123	0.225743882	0.666535657
200809_x_at	RPL12	-0.256735364	0.131941818	0.225868156	0.832017035
228562_at	ZBTB10	-0.532015355	0.442972183	0.226639512	0.989031876
227697_at	SOCS3	0.465936751	0.326136217	0.226768145	0.025903535
223638_at	NBPF3	-0.344951864	0.189640067	0.226941544	0.646374023
204749_at	NAP1L3	-1.141089704	0.616742916	0.227537795	0.213014406
219034_at	PARP16	-0.624972789	0.540552546	0.227818078	0.899713939
210970_s_at	IBTK	-0.213221361	0.284333617	0.228415384	0.766991303
221999_at	VRK3	0.290928158	-0.137605274	0.228760752	0.368434821
228859_at	LOC91431	-0.858235157	0.337494553	0.228760752	0.477634712
210054_at	C4orf15	-0.376833282	0.336058057	0.229418155	0.84233886
208118_x_at	NA	-0.023016575	0.146071549	0.229448372	0.645465151
225354_s_at	NA	0.701632955	-0.780660642	0.22950772	0.178372866
230408_at	PCGF3	-0.126498352	-0.196844472	0.229988319	0.016302357
232686_at	SIGLECP3	0.517802462	-0.50731648	0.230355007	0.001718386
205483_s_at	ISG15	0.102676796	0.484585857	0.231215394	0.000309361
202270_at	GBP1	-0.149328376	0.529769422	0.231468534	0.263100057
218055_s_at	WDR41	0.648166657	-0.042791101	0.231928971	0.928265116
205538_at	CORO2A	-0.420547469	0.21733052	0.232307903	0.136515386
202732_at	PKIG	-0.572056009	0.594993389	0.232744914	3.78E-05
44120_at	ADCK2	-0.143950981	0.439540847	0.233470715	0.613190982
226689_at	CISD2	0.310451102	-0.290064025	0.234778886	0.814912839
201979_s_at	PPP5C	-0.428127819	0.390658987	0.234801445	0.956911252
231933_at	MARCH8	1.560406123	-1.588444296	0.235882227	0.847881509
50376_at	ZNF444	-0.501645776	0.303023079	0.235882227	0.961481665
228647_at	LOC100049716	-0.290592206	-0.159348099	0.23638453	0.796470829
226594_at	NA	-0.585708866	0.545138329	0.237065903	0.847859257
215091_s_at	GTF3A	-0.592111179	0.417741336	0.238574821	0.653769269
1552329_at	RBBP6	0.495500389	-0.287243836	0.239042296	0.960381396
1559249_at	ATXN1	-0.223093817	0.583253168	0.239313956	0.700210202
227492_at	NA	2.837068604	-0.655556833	0.23985449	0.436197462
227539_at	NA	0.091673278	-0.227028573	0.240304636	0.924636049
204454_at	LDOC1	-0.507970155	0.682589089	0.240867379	0.008295651
203020_at	RABGAP1L	0.30505287	-0.296871903	0.241541009	0.872319401
223669_at	NA	1.502246547	-1.81943303	0.241614932	0.562203858
228077_at	MGC3207	-0.371877875	0.094098608	0.242341876	0.122414188
213941_x_at	RPS7	-0.313655445	0.169572875	0.242341876	0.987507281
NuGO_eht0331342_at	UNQ830	-0.044725406	0.11350284	0.243146804	0.838045305
201918_at	SLC25A36	-0.290879274	0.087312463	0.243787864	0.997950785
218082_s_at	UBP1	-0.409038942	0.370857549	0.243790238	0.673801877
203678_at	MTMR15	-0.795310122	0.420569823	0.244617468	0.634796535
208920_at	SRI	-0.229814168	0.162709876	0.245807122	0.823724759
228709_at	TPR	-1.213983794	0.508585722	0.246421712	0.991981004
201031_s_at	HNRPH1	0.120846823	-0.210892144	0.246976367	0.119048702

213480_at	VAMP4	-0.52317823	0.367732899	0.24816991	0.940645151
209433_s_at	PPAT	1.87200523	-0.068542268	0.248429695	0.029542885
217869_at	HSD17B12	-0.224533405	-0.447046316	0.248553641	0.670901546
202227_s_at	BRD8	-0.413327513	0.26386419	0.248804834	0.79806757
204929_s_at	VAMP5	0.543773533	-0.035869816	0.249032776	0.354843075
214717_at	DKFZp434H141	-1.105264466	0.230700498	0.249401556	0.876375907
203153_at	IFIT1	0.671106518	-0.453466075	0.250121586	0.076394465
202459_s_at	LPIN2	0.424050255	-0.345706467	0.250292921	0.255492537
212582_at	OSBPL8	0.060185824	-0.165589621	0.254047907	0.943843445
222731_at	ZDHHC2	-0.124658647	0.153527045	0.255013546	0.816291744
226042_at	EDC3	-0.47108439	0.496946839	0.255345853	0.84233886
229021_at	NA	0.762271016	-0.366026832	0.255612752	0.562203858
202187_s_at	PPP2R5A	0.166804604	-0.090828622	0.255650546	0.87538356
210981_s_at	GRK6	-0.227944178	0.299650214	0.257943908	0.799324603
207181_s_at	CASP7	-0.156595036	0.281877275	0.257943908	0.856853044
209110_s_at	RGL2	0.094125787	-0.257091836	0.259799652	0.184215081
212756_s_at	UBR2	0.15846196	-0.353824971	0.259905052	0.905782418
235535_x_at	FRG1B	0.002773194	0.433820556	0.260077522	0.367478984
226449_at	CCDC100	-0.381903231	0.253639504	0.260274879	0.303085646
244046_at	URG4	-0.072176076	0.036998254	0.260274879	0.940190011
41469_at	NA	2.822778974	-2.350864179	0.261388562	0.589890181
1558733_at	ZBTB38	0.056946107	-0.155253413	0.262624815	0.983533905
214617_at	PRF1	0.552893682	-0.367512993	0.264113689	0.898820166
212057_at	KIAA0182	0.464525508	-0.109548097	0.26450422	0.574373588
219031_s_at	NIP7	-0.343664232	-0.104263689	0.264979627	0.538034504
244511_at	PDE4DIP	-0.305629001	-0.192388624	0.265470854	0.030599891
201940_at	CPD	0.858085355	-0.523011411	0.266721326	0.851688974
1552623_at	HSH2D	0.897391692	-0.689099387	0.267297139	0.921031984
204006_s_at	FCGR3B	2.673324575	-1.213810872	0.268020607	0.834342015
218105_s_at	MRPL4	-0.087023506	0.333312977	0.26896726	0.193734147
207206_s_at	ALOX12	1.060761675	-0.653367541	0.269341993	0.384838379
210095_s_at	IGFBP3	-0.649783109	-0.339174575	0.270159707	0.0003554
227810_at	ZNF558	-0.971499038	0.507190261	0.272895063	0.880255051
242617_at	TMED8	0.475461341	-0.055772948	0.273316773	0.092178527
225050_at	ZNF512	-0.777746785	0.448341413	0.273316773	0.587831098
213510_x_at	LOC220594	-0.020400191	-0.157922239	0.273647513	0.80250168
203080_s_at	BAZ2B	1.070504967	-1.109874334	0.273930776	0.279734735
202603_at	NA	0.221026529	0.013531442	0.274355244	0.65638516
225573_at	ACAD11	-0.4296434	0.329887741	0.275669588	0.366820007
221751_at	SLC2A3P1	-0.038798057	-0.179547537	0.276611243	0.047377298
227199_at	DIP2A	-0.746321611	0.331352555	0.276611243	0.756597376
219073_s_at	OSBPL10	-0.486271351	0.510848332	0.27949613	0.107990391
219013_at	GALNT11	-0.464194339	0.268890849	0.279957756	0.901023021
228573_at	NA	0.074255709	-0.300326391	0.280192177	0.987485542
1554522_at	CNNM2	-0.241899041	0.449479526	0.282204864	0.79806757
209339_at	SIAH2	0.749612894	-0.249789295	0.283807945	0.934322704
223206_s_at	NMRAL1	0.024013228	0.322405347	0.284575749	0.673801877
226665_at	AHSA2	0.751972475	0.132403331	0.286018239	0.330120964
225387_at	NA	0.650824122	-0.800762679	0.286275253	0.782441911
209911_x_at	HIST1H2BD	0.754891171	-0.693792745	0.286403344	0.14041063
203233_at	IL4R	-0.605360764	0.500304315	0.287141927	0.22479594
225309_at	NA	0.311203387	-0.449427163	0.287647581	0.646328822
200015_s_at	SEPT2	-0.065018552	0.184116402	0.287960736	0.976041024
230793_at	LRRC16A	-0.596030197	1.135641103	0.288134389	0.551040189
202073_at	OPTN	0.265479933	0.070944248	0.290612036	0.858470796
205668_at	LY75	0.071636623	0.021590845	0.290697452	0.704838921
227224_at	RALGPS2	-0.517731755	0.466349943	0.290783921	0.213014406
232382_s_at	NA	-0.287422903	0.094334065	0.291021042	0.088819077
233132_at	LOC96610	0.162106248	-0.172875907	0.292096057	0.005194732

212212_s_at	INTS1	-0.567427057	0.424898236	0.293162705	0.750982349
227074_at	NA	0.046977125	0.201026673	0.293624454	0.295431246
211965_at	ZFP36L1	2.256289074	0.468108749	0.293887098	0.833647942
230176_at	UEVLD	-0.098640292	0.303281378	0.294392993	0.605290034
203380_x_at	SFRS5	-0.341598243	0.261207101	0.295047366	0.590372548
226878_at	NA	0.113628654	0.090657119	0.297270785	0.050324252
224906_at	TMEM16F	0.290247364	-0.312898014	0.297309523	0.902318919
226152_at	NA	0.730568969	-0.622906995	0.297836918	0.446907064
52159_at	HEMK1	-0.621649976	0.391430573	0.299404454	0.523168748
226209_at	NDUFV3	0.213574803	-0.17346231	0.299586355	0.834963099
NuGO_eht0330923_s_at	NA	1.38146883	-1.239662951	0.299586355	0.867398041
223259_at	ORMDL3	-1.016616543	0.894619662	0.301870263	0.000949712
217738_at	NAMPT	1.313116979	-1.111210368	0.302093497	0.90032728
213142_x_at	tcag7.1314	0.913997488	-0.668434723	0.302130581	0.352827665
208956_x_at	DUT	-0.386329064	0.347215663	0.30218248	0.943843445
224523_s_at	C3orf26	-0.557905121	0.408172305	0.30218248	0.966480853
213549_at	NA	0.169403325	0.08076425	0.303265054	0.569920034
212287_at	SUZ12	-0.361726067	0.228843608	0.303775572	0.494243133
212783_at	RBBP6	-0.544723235	0.307046747	0.30658278	0.875281129
215412_x_at	PMS2L2	-0.562147928	0.381336512	0.306825677	0.999889314
201690_s_at	TPD52	-0.207265029	0.270594905	0.307781187	0.784147225
NuGO_eht0229932_at	TREML2	0.867130365	-0.775035647	0.307973936	0.835733386
209340_at	UAP1	-0.428010052	0.666983099	0.308226797	0.010434387
229001_at	PPP1R3E	-0.326030146	-0.183222431	0.309394843	0.200390221
224897_at	WDR26	0.438261277	-0.386730235	0.310208974	0.024551889
228401_at	ATAD2	-0.578036843	0.481153161	0.310681302	0.684909719
225205_at	KIF3B	-0.120351833	0.364696506	0.310744525	0.971681916
212859_x_at	MT1E	-0.059266383	0.273431495	0.310920469	0.020978452
242618_at	TRIM26	-0.456207399	-0.379408202	0.311229638	0.178372866
225863_s_at	NA	0.74035452	0.567436165	0.312479434	0.443427677
226603_at	SAMD9L	-0.158371379	0.425479671	0.312683512	3.16E-05
217526_at	NFATC2IP	-0.299499553	0.118429208	0.313266553	0.042117363
234725_s_at	SEMA4B	0.194727179	0.003189055	0.31335683	0.678600959
207389_at	GP1BA	0.410668485	-0.365254693	0.3145005	0.489604247
201216_at	ERP29	-0.537116075	0.361406476	0.314803116	0.676174725
218493_at	SNRNP25	0.415000496	0.373344358	0.315466802	0.015500202
228570_at	BTBD11	-0.800078255	0.663856085	0.315499158	0.039161668
217958_at	TRAPPC4	0.252432821	-0.089851743	0.317762994	0.749675937
212329_at	SCAP	-0.209787257	0.149056142	0.318226499	0.310873174
203031_s_at	UROS	-0.462613843	0.530856099	0.31909151	0.834340715
232488_at	AGXT2L2	-0.613580382	0.347107753	0.319923274	0.993530409
214453_s_at	IFI44	-0.175366522	0.673149867	0.320863603	4.46E-05
214711_at	NA	-0.834073549	0.463082982	0.323114387	0.189485783
1558217_at	SLFN13	-0.41427142	0.676114549	0.323973337	0.89798823
221063_x_at	RNF123	0.518892844	-0.424920684	0.324385411	0.317080843
223095_at	MARVELD1	1.078193545	-0.998047682	0.325274228	0.39355359
NuGO_eht0290354_at	NA	-0.629563082	0.361964672	0.3259096	0.658747279
204396_s_at	GRK5	-0.246814195	0.223768937	0.327768614	0.124213451
206222_at	TNFRSF10C	3.435400804	-3.042310297	0.327837674	0.516194331
217861_s_at	PREB	0.105376578	0.217878475	0.328950737	0.76791736
209307_at	SWAP70	0.126079041	0.16854258	0.330149329	0.152188482
205011_at	LOH11CR2A	-0.002271728	0.268787458	0.330149329	0.350036373
45288_at	ABHD6	0.020611537	0.014943409	0.330425889	0.001132597
38521_at	CD22	-0.38829665	0.751388515	0.330954437	0.001818091
203230_at	DVL1	-0.437223134	0.154980825	0.331316854	0.228598531
208546_x_at	HIST1H2BH	0.893335321	-0.596243646	0.332133299	0.326158846
224683_at	FBXO18	-0.350660078	0.434317036	0.332317431	0.73593185
206493_at	ITGA2B	0.407469841	-0.304158415	0.332586812	0.024472615
205521_at	ENDOGL1	-0.316251884	0.097336506	0.334401546	0.751101514

202909_at	EPM2AIP1	-0.300150409	0.14776756	0.335181487	0.068041876
218768_at	NUP107	-0.541505361	0.207419102	0.335397918	0.967511112
207008_at	IL8RB	2.451461187	-2.241307225	0.336875053	0.985231432
204900_x_at	SAP30	0.539488855	-0.240887362	0.337289115	0.9323991
207606_s_at	ARHGAP12	-0.433875901	0.181367099	0.337615678	0.638419833
208149_x_at	DDX11	-0.022708697	-0.074944769	0.338224642	0.773103752
220496_at	CLEC1B	0.309815725	-0.885535407	0.339017096	0.007412716
227454_at	TAOK1	0.012220959	-0.253821984	0.339017096	0.989031876
218383_at	C14orf94	0.433019439	-0.264120498	0.340360256	0.536812643
239412_at	IRF5	0.815281832	-1.779016018	0.34087714	0.004160611
212160_at	XPOT	-0.291248063	0.195011247	0.34206098	0.814932668
218408_at	TIMM10	-0.204512462	-0.022151402	0.342284923	0.977433651
204153_s_at	MFNG	-0.204125116	0.217646371	0.342895183	0.834340715
214974_x_at	CXCL5	1.992465386	-1.582557493	0.343199257	0.132038968
218592_s_at	CECR5	0.250622884	0.021676101	0.344631749	0.90032728
64883_at	MOSPD2	1.101436401	-0.668960674	0.344782	0.686750864
226368_at	CHST11	0.135363178	-0.100497425	0.346008511	0.525713605
219630_at	PDZK1IP1	1.328233733	-1.252178591	0.346118878	0.871532377
210075_at	MARCH2	0.650458487	-0.62231313	0.346995801	0.204018329
224755_at	NA	-0.341622488	0.147145556	0.348004732	0.041376848
202869_at	OAS1	0.814901402	0.164801882	0.350413795	0.043961756
202754_at	R3HDM1	-0.081505709	0.143014229	0.350936151	0.767030298
205718_at	ITGB7	-0.749512311	0.609160576	0.351286095	0.53720779
212077_at	CALD1	1.502553693	-1.382218127	0.351410267	0.027825338
228083_at	CACNA2D4	0.566236736	-0.712759089	0.351987981	0.997950785
206785_s_at	KLRC2	1.4632727	-0.465751055	0.35248629	0.779162759
226453_at	RNASEH2C	-0.362405457	0.293175135	0.352827471	0.047649316
236208_at	NA	-0.363923558	0.398038174	0.353201438	0.185046744
208630_at	HADHA	-0.159748398	0.089006416	0.353954894	0.422141226
217943_s_at	MAP7D1	-0.008528032	0.312432455	0.356656603	0.865617787
225324_at	CRLS1	-0.372989981	0.234217344	0.357046244	0.017972216
228592_at	MS4A1	-0.615740129	0.654825703	0.357355906	0.008120639
218466_at	TBC1D17	-0.236446277	0.310239051	0.357355906	0.580738147
201005_at	CD9	2.106199957	-1.385069812	0.357729408	0.723085203
NuGO_eht0360329_at	FAM30A	-0.349960633	0.377729727	0.359103373	0.195342488
219281_at	MSRA	-0.181203392	0.267673068	0.359509192	0.914248051
204993_at	GNAZ	0.483733374	-0.587372844	0.359913498	0.68606623
47560_at	LPHN1	-0.656854318	0.415694908	0.360035467	0.22042538
204197_s_at	RUNX3	0.124575052	0.13138113	0.362002299	0.485318256
218376_s_at	MICAL1	0.00637834	0.250934659	0.362455029	0.873296474
225368_at	HIPK2	0.082075005	0.083005489	0.363867995	0.643653834
217964_at	TTC19	-0.08939735	-0.007602912	0.366953641	0.265652795
NuGO_eht0358379_x_at	NA	-0.59816108	0.950731871	0.367326641	0.181629098
221778_at	JHDM1D	0.463817666	-0.469497904	0.368214666	0.273360482
219598_s_at	RWDD1	-0.429934966	0.284700207	0.368214666	0.553098977
222843_at	FIGNL1	-0.12682413	0.609041388	0.370268488	0.620656958
209046_s_at	GABARAPL2	0.708710619	-0.523812686	0.370354718	0.943961021
212144_at	NA	-0.259855855	0.229752616	0.371037547	0.436968023
209137_s_at	USP10	-0.033322506	-0.404273696	0.37450415	0.697666487
208814_at	HSPA4	-0.844655914	0.120376623	0.375162795	0.781051625
223530_at	TDRKH	-0.223489495	0.076949097	0.375683157	0.546017857
226605_at	DGKQ	-0.588686685	0.810728354	0.376472731	0.007273661
228614_at	LOC205251	-0.723644312	0.75073341	0.376578867	0.008516889
230645_at	FRMD3	0.27932882	-0.025795873	0.380339143	0.279734735
1557236_at	NA	0.821761308	-0.297080547	0.380733393	0.901023021
44040_at	FBXO41	0.11139877	0.317380048	0.380733393	0.998489775
218164_at	SPATA20	-0.555174168	0.157606373	0.381140788	0.602558013
203576_at	BCAT2	-0.650026817	0.372851525	0.382856106	0.991941591
229665_at	CSTF3	-0.272663436	0.22875392	0.382909112	0.995880366

224603_at	NA	0.144785076	-0.096300275	0.383431241	0.507549821
210224_at	MR1	0.7015433	-0.417982883	0.384024033	0.777376044
241403_at	CLK4	-0.749107403	0.408342783	0.384214321	0.098829623
226425_at	CLIP4	-0.024662591	0.069409145	0.384965217	0.408323499
1554786_at	C20orf32	0.148937982	-0.599898801	0.385348128	0.058254668
225922_at	FNIP2	0.325724245	-0.341750935	0.385538584	0.65638516
214107_x_at	LOC440434	-0.462108679	0.030635713	0.386840952	0.386635521
225821_s_at	FAM44A	0.066407571	-0.215667577	0.387261683	0.466740674
222444_at	NA	-0.199664131	0.122197284	0.387792312	0.612530293
219289_at	NA	-0.105742835	-0.119041586	0.388294643	0.395259165
203661_s_at	TMOD1	0.91472599	-0.849770216	0.388614843	0.676997446
225562_at	RASA3	-0.425181298	-0.03342782	0.389095232	0.770400349
207655_s_at	BLNK	-0.499350717	0.586697784	0.389932166	0.009442777
205171_at	PTPN4	-0.087903542	-0.281904202	0.391057922	0.603318419
210347_s_at	BCL11A	0.148215725	-0.068956177	0.391300525	0.337562035
203680_at	PRKAR2B	0.990693299	-1.00777189	0.391608192	0.10237593
230983_at	FAM129C	-0.736131637	0.739770446	0.395411984	0.441082694
202522_at	PITPNB	-0.353711653	0.251402651	0.396598103	0.043969011
226474_at	NLRC5	-0.766027071	0.68818372	0.39674996	0.901771217
214703_s_at	NA	-0.195839436	0.469766387	0.396913249	0.620078503
226018_at	C7orf41	1.353600312	-1.069856278	0.397151812	0.872613674
225781_at	MAPK9	-0.266822398	0.231337453	0.401218681	0.277151731
205291_at	IL2RB	0.637999472	-0.096633209	0.402684929	0.898153007
213408_s_at	PI4KAP1	-0.238329889	0.128010786	0.403138651	0.554309774
227761_at	MYO5A	0.289461526	-0.239820299	0.404250188	0.041018582
236193_at	NA	1.390030779	-1.275717795	0.404995491	0.662543328
230621_at	IAH1	-0.527027419	0.541113298	0.405243086	0.031722032
212381_at	USP24	0.004172627	0.215384058	0.405571912	0.871180826
225143_at	SFXN4	0.185438396	0.29534632	0.405571912	0.992185467
218999_at	TMEM140	0.214569053	-0.464876078	0.406248169	0.194790678
219233_s_at	GSDML	-1.267888061	0.725864333	0.406331584	0.209350437
218435_at	DNAJC15	-1.03569792	1.294542036	0.407805022	1.30E-07
208924_at	RNF11	0.360892966	-0.385417461	0.408887461	0.956878581
218103_at	FTSJ3	-0.408324875	0.227730656	0.408887461	0.983098839
224623_at	LOC728554	-0.557617969	0.303524966	0.411395705	0.980569589
218684_at	LRRC8D	-0.224176182	0.278104739	0.412075452	0.81895014
220532_s_at	TMEM176B	2.612638538	0.071855462	0.413818993	0.017864572
203828_s_at	IL32	-0.88617341	0.5227107	0.414306358	0.992681481
212110_at	SLC39A14	-0.953637212	0.836414958	0.415226475	0.43311743
225541_at	RPL22L1	-0.319265726	0.209654998	0.415753983	0.214965049
220169_at	TMEM156	-0.259929513	0.637842342	0.415840464	0.960284824
219426_at	EIF2C3	-0.27324019	0.000677502	0.417565309	0.985246036
1555241_at	C8orf59	-0.598609351	0.273398942	0.417747491	0.658747279
201403_s_at	MGST3	0.325866047	-0.19305317	0.418933239	0.82810382
213835_x_at	NA	-0.561514435	0.339716361	0.419995231	0.943843445
226753_at	FAM76B	-0.434999085	0.215983105	0.420298228	0.03042828
242770_at	FRG1B	0.55918792	0.38762261	0.42123005	0.322321003
225196_s_at	MRPS26	-0.398549131	0.455608692	0.421251731	0.835131917
205547_s_at	TAGLN	-1.171937381	0.530728816	0.42157999	0.581919826
225904_at	C1orf96	0.060519486	-0.204355514	0.422846131	0.817846097
223717_s_at	ACRBP	0.23215399	-0.154998887	0.423462983	0.042599188
230069_at	SFXN1	-0.616575332	0.309270007	0.423550332	0.113618459
230690_at	TUBB1	0.509199591	-0.48600018	0.423861289	0.228560125
203312_x_at	ARF6	0.130833408	0.080519158	0.424524997	0.994191349
225715_at	KIAA1303	-0.595298993	0.662515949	0.424875002	0.41557612
207890_s_at	NA	1.259412792	-1.605528157	0.426462652	0.506631905
231843_at	DDX55	-0.639839497	0.333872884	0.426462652	0.876375907
NuGO_eht0334097_at	LOC641298	-0.374531957	0.089139064	0.427235092	0.673124412
227482_at	ADCK1	-0.171806982	0.078444258	0.428027227	0.43389187

231269_at	ASCC3	-0.138121358	0.403973089	0.428411614	0.718185576
226016_at	CD47	-0.40680187	0.247237801	0.428411614	0.981983402
202565_s_at	SVIL	0.380916566	-0.57985001	0.428488675	0.079958753
209710_at	GATA2	-0.056093078	0.141014585	0.428719295	0.446907064
203787_at	SSBP2	0.382984403	-0.105180504	0.429507911	0.543958114
213186_at	DZIP3	-0.81366653	0.506200107	0.431067403	0.903934771
205826_at	MYOM2	1.830148922	-1.186297141	0.432016029	0.997134109
204936_at	MAP4K2	-0.574927282	0.585098663	0.433093019	0.820149129
241342_at	TMEM65	-0.08355892	-0.492318369	0.433339486	0.461133349
218487_at	ALAD	-0.040728969	0.065323598	0.43419103	0.92859325
205453_at	HOXB2	-0.167466953	0.224773431	0.434583598	0.68578636
230741_at	NA	0.743589334	-1.230427561	0.43473639	0.224654193
221211_s_at	C21orf7	-0.090972236	0.026310482	0.438610427	0.039583319
201326_at	CCT6A	-0.221216645	0.148758846	0.439570571	0.85489448
203217_s_at	ST3GAL5	0.013991797	0.308264455	0.439678002	0.017864572
226275_at	MXD1	1.636997936	-1.488700711	0.442290478	0.810529548
204295_at	SURF1	-0.078420166	0.257585201	0.442887158	0.034628892
200955_at	IMMT	-0.228470529	0.165033373	0.443175795	0.090048523
201812_s_at	TOMM7	-0.380002725	0.096696485	0.443175795	0.477842397
1555659_a_at	TREML1	0.693625193	-0.479415417	0.443324619	0.511407438
AFFX-HUMISGF3A/M9793	NA	0.401640596	0.330410465	0.443334456	0.775384513
212047_s_at	RNF167	-0.035333835	-0.004848588	0.443818962	0.059645335
217994_x_at	CPHF3L	-0.188858664	0.052146296	0.444556036	0.926004163
227262_at	HAPLN3	-0.714013884	0.422239736	0.445254868	0.774485468
238656_at	NA	-0.707642489	0.534157466	0.445254868	0.938416197
218499_at	RP6-213H19.1	-0.03804752	0.252307228	0.447254584	0.989031876
226802_s_at	LOC96610	-0.14111991	-0.500925742	0.448147453	0.636178029
47083_at	C7orf26	-0.400538048	0.42330865	0.452541499	0.937884603
226340_x_at	WASH3P	-0.086657724	0.11908698	0.455173472	0.110129374
221435_x_at	HYI	-0.094676297	-0.08759323	0.455291387	0.815627391
202708_s_at	HIST2H2BE	1.060386899	-0.647079852	0.455307898	0.672774843
219671_at	HPCAL4	-1.359548813	0.871092938	0.458909363	0.001551393
224882_at	NA	-0.05444661	0.166104842	0.460038214	0.213440385
229597_s_at	WDFY4	0.331155344	-0.29506531	0.460387554	0.613677244
204628_s_at	ITGB3	1.111027448	-0.667416814	0.460756891	0.119791919
214273_x_at	C16orf35	0.281157257	0.362024423	0.461318509	0.901455109
227893_at	C9orf130	0.327010728	-0.42354286	0.462095536	0.673124412
31807_at	NA	-0.04448843	0.061073093	0.462740979	0.441082694
201247_at	SREBF2	-0.045932864	0.444960727	0.462984364	0.68606623
216054_x_at	NA	0.636964801	-0.816367574	0.463415749	0.664457812
228869_at	NA	0.180895903	-0.005613164	0.464974995	0.79266311
203900_at	NA	-0.438898215	0.312634091	0.466136382	0.829675636
202066_at	PPFIA1	-0.112544798	0.011487673	0.468560221	0.755510297
223917_s_at	SLC39A3	-0.069110665	0.359738239	0.469661455	0.048521262
202600_s_at	NRIP1	-0.211719117	0.208870367	0.471220519	0.794872854
206978_at	CCR2	0.813316184	-1.052302451	0.471361439	0.914091829
214214_s_at	C1QBP	-0.525315351	0.407491589	0.472160128	0.546874078
219025_at	CD248	-1.198671776	1.042865415	0.473816042	0.131940597
225619_at	SLAIN1	-0.884669485	0.770997723	0.474026335	0.876797936
238013_at	NA	-0.026651334	0.747992969	0.474210507	0.254254648
206752_s_at	DFFB	-0.737910153	0.387003904	0.475635504	0.605290034
226757_at	IFIT2	1.382620505	-1.071255401	0.475956615	0.754060947
204145_at	FRG1	-0.117847046	0.223792681	0.477162461	0.590372548
218946_at	NFU1	-0.34389703	0.291183798	0.478702117	0.798978035
201651_s_at	PACSIN2	0.285082346	-0.451102761	0.478859249	0.585852174
224675_at	MESDC2	-0.401556182	0.323155099	0.479212514	0.27547965
204839_at	POP5	-0.524653512	0.420779521	0.479270604	0.871096573
218494_s_at	SLC2A4RG	-0.649614764	0.580986513	0.482073318	0.704230121
213357_at	GTF2H5	-0.42930499	0.326276977	0.483536376	0.373126229

234759_at	NA	-0.641617531	0.131448415	0.48456197	0.145834681
200783_s_at	STMN1	-0.494159292	0.459435343	0.48456197	0.762379273
215947_s_at	OAZ1	-0.09156823	0.157774517	0.487012319	0.64810048
201020_at	YWHAH	1.114541058	-0.676053936	0.488371313	0.799324603
231922_at	ZNF276	0.175127092	-0.15517553	0.48844259	0.042282973
204718_at	EPHB6	-0.1603914	-0.009403927	0.489525983	0.00459504
224780_at	RBM17	-0.620047194	0.340499944	0.489525983	0.60257526
235286_at	NA	0.862024993	-0.578269414	0.489525983	0.644118752
218447_at	C16orf61	-0.33172532	0.411086649	0.490738758	0.057450042
205930_at	GTF2E1	-0.357160193	-0.01457687	0.490738758	0.912721976
NuGO_eht0332013_s_at	NA	-0.791894589	1.810266092	0.491888761	0.744220166
231776_at	EOMES	0.17599557	-0.050469704	0.491995583	0.997950785
238504_at	C6orf57	-0.372354732	-0.313054431	0.492424372	0.851688974
1555167_s_at	NAMPT	2.96884997	-2.302096635	0.493349266	0.979974421
223809_at	RGS18	0.909442214	-0.62590124	0.496132224	0.352827665
204554_at	NA	0.395809647	-0.798101622	0.496132224	0.992912959
218168_s_at	CABC1	-0.094805687	0.034124009	0.496974947	0.043485781
226628_at	THOC2	-0.533439603	0.786202435	0.496974947	0.697610928
201123_s_at	EIF5A	2.224869163	-3.961646972	0.501019937	0.645465151
215785_s_at	CYFIP2	-0.459097888	0.393538493	0.501019937	0.850885584
209302_at	POLR2H	-0.639910321	0.381121511	0.501647552	0.943706742
224690_at	C20orf108	0.500388711	-0.807052698	0.502951703	0.39414529
217984_at	RNASET2	-0.069382745	0.002267685	0.506383462	0.001059493
240499_at	NA	-0.392135802	0.196454304	0.506726123	0.059682944
219061_s_at	LAGE3	-0.620943902	0.648819808	0.507934319	0.192772846
222199_s_at	BIN3	-0.06005323	-0.207110148	0.509091944	0.057233313
225073_at	PPHLN1	-0.510564377	0.305204256	0.510003325	0.925880921
204655_at	CCL5	-0.291809679	0.325745544	0.510183304	0.688434518
203221_at	TLE1	0.462654692	0.102361744	0.511155551	0.00459504
213669_at	FCHO1	-0.371544085	0.224945296	0.511914526	0.977193941
227107_at	NA	-0.432331583	0.783632104	0.513814602	0.001244658
220526_s_at	MRPL20	-0.11232879	0.127448005	0.51481161	0.905730582
205139_s_at	UST	0.490576009	-0.52570269	0.514951288	0.745481817
231873_at	BMPR2	0.039276531	-0.072971076	0.515640721	0.751046724
203130_s_at	KIF5C	-0.230238336	-0.124887117	0.515812331	0.925112808
220956_s_at	NA	-0.143542378	0.025121441	0.516259717	0.372437033
223751_x_at	TLR10	0.042457712	0.116187185	0.51664411	0.279734735
1557100_s_at	HECTD1	-0.455735275	0.241509113	0.518399139	0.116219084
226989_at	RGMB	-1.107907818	0.156760837	0.518561409	0.876375907
205986_at	NA	0.777190236	-0.572105951	0.51856142	0.982516002
207067_s_at	HDC	-0.675589396	0.493063957	0.518976968	0.494353746
222067_x_at	NA	0.405757282	-0.562163451	0.518977499	0.259799363
223677_at	ATG10	-0.649010074	0.170457893	0.519905852	0.39414529
229967_at	CMTM2	2.480734783	-2.997914796	0.522329355	0.782441911
217822_at	WBP11	-0.164444345	0.190569968	0.52328448	0.660585451
213626_at	CBR4	-0.247774535	-0.148138696	0.523595099	0.149910971
230026_at	MRPL43	1.766908719	-1.435201732	0.524480509	0.000170933
1553177_at	SH2D1B	1.310452322	-0.507910267	0.525157544	0.152188482
226711_at	FOXN2	-0.176774965	0.128662461	0.525879031	0.021280591
218746_at	TAPBPL	-0.062254756	0.450569416	0.527937533	0.904564026
226361_at	TMEM42	-0.394783779	0.344876295	0.528310931	0.904610663
208190_s_at	LSR	-0.566221712	0.411021205	0.529611424	0.845074987
229686_at	NA	-0.494360851	0.388308088	0.529744432	0.991874656
NuGO_eht0164640_at	PDZD4	0.489562277	-0.852279909	0.530815322	8.02E-05
225136_at	PLEKHA2	0.035631181	0.128036748	0.53155433	0.051758136
1552612_at	CDC42SE2	0.913602404	0.082817454	0.53155433	0.776865408
205861_at	SPIB	-0.489102836	0.766937772	0.534149162	0.149992405
240314_at	NA	-0.85576255	0.399041096	0.534149162	0.865337968
227180_at	ELOVL7	0.003486007	-0.08629505	0.534348169	0.087566487

212890_at	SLC38A10	0.257978198	-0.030225235	0.53798815	0.982516002
232441_at	KRR1	-0.668321494	0.563718002	0.538147527	0.569722264
230779_at	TNRC6B	-0.88326708	0.366421165	0.538665425	0.626099369
220588_at	BCAS4	-0.376589339	0.679914201	0.538707196	0.977053805
1553842_at	CXorf20	1.042537274	-0.752662265	0.539377954	0.7793089
206804_at	CD3G	-1.646018773	1.276548333	0.541672418	0.652668321
NuGO_eht0219596_x_at	NA	2.167079985	-1.395670532	0.543643029	0.341573252
228904_at	HOXB3	-0.328022034	0.506063997	0.544490763	0.922646138
203366_at	POLG	-0.323645177	0.251754846	0.546591805	0.81895014
225755_at	KLHDC8B	0.360561236	-0.1965298	0.546591805	0.882128574
214230_at	CDC42	0.561263302	-0.260795419	0.546621296	0.51416557
225406_at	TWSG1	0.125601164	0.091784698	0.54678889	0.522434808
218729_at	LXN	0.294479733	-0.271296025	0.549401714	0.117826025
225530_at	MOBKL2A	0.27973938	-0.211115518	0.550065158	0.724468512
212586_at	CAST	0.03678528	-0.052394575	0.550201059	0.477842397
217891_at	C16orf58	-0.368583749	0.326251394	0.551579636	0.827758717
229778_at	C12orf39	0.233835558	-0.576167975	0.553156963	0.047649316
201876_at	PON2	0.260862356	-0.053869223	0.554211959	0.924636049
217736_s_at	EIF2AK1	0.160521717	-0.151796594	0.555615134	0.895168403
201980_s_at	RSU1	0.247407454	0.000329957	0.555982721	0.008408965
218243_at	RUFY1	-0.321902199	0.494804906	0.556319007	0.002573917
38269_at	PRKD2	-0.17059999	0.288981334	0.556319007	0.720411412
35685_at	NA	-0.311954685	0.30013169	0.556844662	0.843576829
206655_s_at	GP1BB	0.922760917	-0.206378294	0.557341862	0.091935879
218419_s_at	TMUB2	-0.048993583	0.080354085	0.557427584	0.99822734
218009_s_at	PRC1	0.10863749	-0.155869155	0.557907505	0.406779875
203952_at	ATF6	-0.177341516	-0.033852551	0.558838226	0.336199111
218671_s_at	ATPIF1	-0.272784174	0.283457962	0.559646495	0.994191349
218210_at	FN3KRP	-0.228524951	0.335199982	0.55997302	0.940830097
225064_at	RABEP1	-0.191484651	0.196149007	0.561074997	0.45908337
225408_at	MBP	1.114738153	-0.832166657	0.562740052	0.79806757
200863_s_at	RAB11A	0.109018218	-0.134701313	0.563100121	0.013765686
222021_x_at	NA	-0.284389752	0.198457392	0.563584577	0.96272077
206049_at	SELP	0.105972253	-0.412182792	0.565937892	0.978372806
224823_at	MYLK	0.611898463	-0.911850432	0.566897093	0.12585776
242625_at	RSAD2	-0.078753448	0.590209614	0.567573448	0.001429303
32541_at	PPP3CC	-0.51642185	0.525976416	0.567833062	0.995633912
212032_s_at	PTOV1	-0.28459534	0.159374325	0.569980543	0.700855286
230753_at	PATL2	-0.123215019	0.58378288	0.570213889	0.055755821
203921_at	CHST2	0.561934729	0.084419603	0.571342223	0.141531607
65493_at	HEATR6	-0.742535254	0.344378583	0.57136622	0.997134109
203414_at	MMD	-0.064335714	0.023028594	0.572309459	0.104618712
201906_s_at	CTDSPL	0.418999	-0.380335049	0.572352645	0.458557947
229963_at	BEX5	-1.390704403	0.822855457	0.572614658	0.014073217
217866_at	FLJ12529	-0.210862912	0.246452604	0.573095824	0.813768049
225877_at	TYSND1	-0.295918354	0.272570303	0.573348693	0.741317175
201313_at	ENO2	-0.741682973	0.371865862	0.573699941	0.294297026
206759_at	FCER2	0.117708975	0.773672782	0.576120924	0.006248454
225833_at	DAGLB	0.749112237	-0.129397092	0.576120924	0.651053726
NuGO_eht0257197_at	DSC1	-1.407528072	0.09537214	0.577484901	0.834340715
228677_s_at	FLJ21438	-0.446418937	0.370915647	0.57873283	0.700282503
203422_at	POLD1	-0.120144955	0.151142803	0.580877998	0.987558592
215691_x_at	C1orf41	-0.137550036	0.263381737	0.581065455	0.441082694
201810_s_at	SH3BP5	-0.453126103	0.321415769	0.582099057	0.040338907
35150_at	CD40	0.110249504	0.085308403	0.582274333	0.016409231
219174_at	IFT74	-0.55402651	0.434060768	0.582320106	0.715523849
225177_at	RAB11FIP1	1.163709679	-1.041344038	0.583894651	0.967433663
219452_at	DPEP2	0.549801041	-0.52657544	0.585203456	0.51416557
216748_at	PYHIN1	0.35937291	-0.480339395	0.58555659	0.613677244



203610_s_at	TRIM38	0.561612507	-0.455963657	0.585747181	0.86279107
218138_at	MKKS	-0.284634863	0.37205255	0.587148542	0.461281195
203517_at	MTX2	-1.10362472	1.022464471	0.588510282	0.157785519
NuGO_eht0299289_at	C6orf25	0.629828045	-0.617485758	0.588510282	0.163176667
202587_s_at	AK1	-0.61223317	0.507034038	0.588558363	0.611326034
226813_at	C1orf57	-0.746796273	-0.344386497	0.588937527	0.321673569
230333_at	NA	0.966119985	-1.979822766	0.588947844	0.23455188
217787_s_at	GALNT2	0.423126904	0.654302743	0.589271259	0.000309715
208161_s_at	NA	0.96495282	-0.719299365	0.591709135	0.551040189
239678_at	NA	-0.335832603	0.647707144	0.591733249	0.741597336
213655_at	NA	0.180829724	0.57033515	0.591742762	0.000426422
201795_at	LBR	-0.113713949	0.189128457	0.591742762	0.880132009
217969_at	C11orf2	-0.503217893	0.40870096	0.591742762	0.994471879
235427_at	NA	0.111067361	-0.201853935	0.593329823	0.863078798
219055_at	SRBD1	0.557366839	-0.376287254	0.593377018	0.872613674
201142_at	EIF2S1	-0.166270773	0.11972194	0.594016876	0.923609005
201158_at	NMT1	-0.50737311	0.430938116	0.596585048	0.952696464
242844_at	PGGT1B	0.656662416	-0.570126327	0.597025621	0.137293045
218581_at	ABHD4	0.415017342	-0.387343909	0.597973601	0.688434518
219471_at	C13orf18	-0.158644391	-0.05862468	0.599871811	0.021529075
228308_at	FKBP11	-0.327615091	0.202123547	0.600087216	0.236446042
207777_s_at	SP140	-0.77460986	0.585127466	0.601819593	0.193753258
228617_at	XAF1	-0.319483239	0.620037564	0.602521667	0.009542029
230795_at	NA	-0.305579129	-0.035371571	0.602664114	0.243170846
204019_s_at	SH3YL1	-0.522377315	0.063146695	0.604647328	0.720411412
208579_x_at	NA	0.45583512	-0.336894043	0.604772159	0.133551301
225775_at	TSPAN33	0.793177411	-0.45198988	0.604918683	0.159826035
225837_at	NA	-0.363142183	0.504686484	0.604918683	0.682101775
203655_at	XRCC1	-0.430730812	0.244281151	0.605349933	0.982516002
217795_s_at	TMEM43	0.154763075	-0.395556885	0.606294169	0.902704145
202932_at	YES1	0.750896322	-0.493978449	0.609613854	0.526431179
200632_s_at	NDRG1	-0.079987929	-0.074223916	0.609985514	0.985049625
41329_at	SCYL3	-0.53015404	0.253932408	0.61009628	0.536812643
209467_s_at	MKMK1	0.249190396	-0.477557013	0.611799889	0.832356892
202364_at	MXI1	0.41619564	-0.705270408	0.611897483	0.497287291
221505_at	ANP32E	-0.380847735	0.287462482	0.61434115	0.756369582
227461_at	STON2	0.378337721	-0.269826566	0.614836027	0.255129718
206247_at	MICB	-0.469492341	0.550533932	0.614850898	0.117826025
223641_at	NA	0.355373928	-0.148303977	0.615677387	0.490563394
227186_s_at	MRPL41	-0.328940718	0.435533241	0.615701353	0.368434821
226694_at	AKAP2	-0.126419311	0.411665758	0.617524132	0.036463929
226464_at	C3orf58	0.260912596	-0.236893333	0.617667649	0.717911499
223172_s_at	MTP18	-0.521146363	0.722459384	0.617695909	0.810019128
235372_at	FCRLA	-0.678698611	0.80009422	0.617912088	0.002508969
226646_at	KLF2	-0.464096645	-0.200316417	0.619160361	0.838219457
227786_at	MED30	-0.180187421	0.352194358	0.620936062	0.983533905
205059_s_at	IDUA	-0.259105329	0.643592181	0.622373098	0.842799834
217973_at	DCXR	-0.399427614	0.573787582	0.62306028	0.016448229
212573_at	ENDOD1	-0.201854991	0.142561131	0.6234906	0.229932529
229957_at	BCKDHA	0.917426243	-0.496341145	0.6234906	0.905385033
204120_s_at	ADK	-0.010327572	-0.007423434	0.624302405	0.055990945
224622_at	TBC1D14	0.103221634	-0.260438089	0.624312529	0.659310206
223361_at	C6orf115	-0.354721539	0.386448025	0.624735889	0.420792331
218003_s_at	FKBP3	-0.265320692	0.219041616	0.62504703	0.904610663
200873_s_at	CCT8	-0.318057117	0.479155232	0.626096993	8.35E-05
NuGO_eht0298527_at	CLEC1B	0.594320245	-1.048461727	0.627927799	0.00897116
228391_at	CYP4V2	-0.001844578	-0.216411335	0.628092339	0.017864572
235772_at	NA	-0.055027642	-0.068544032	0.628092339	0.90032728
227188_at	C21orf63	-0.907850579	0.537864606	0.628910064	0.983098839

214525_x_at	MLH3	0.800431116	-0.53390813	0.629065414	0.699736967
207351_s_at	SH2D2A	-0.208655726	0.583234645	0.633127568	0.062224406
212137_at	LARP1	-0.177181288	0.218071768	0.633127568	0.960053998
212613_at	BTN3A2	-0.661691094	0.483018659	0.633330474	0.001118793
214097_at	RPS21	-0.842201239	0.41944459	0.635455881	0.192961025
203434_s_at	MME	2.169936242	-2.250830864	0.636605105	0.686750864
222662_at	NA	0.792146763	-1.048336332	0.637376455	0.663794477
206881_s_at	LILRA3	0.115227896	-0.919937765	0.637854961	0.295431246
214467_at	GPR65	0.405805296	-0.404222747	0.638258803	0.922195224
210976_s_at	PFKM	-0.528807213	0.084791306	0.639819274	0.572036816
212290_at	SLC7A1	-0.177236009	0.105535061	0.641752576	0.268425854
221689_s_at	PIGP	-0.674185072	0.448929005	0.643697616	0.68606623
206555_s_at	THUMPD1	-0.616524946	0.405668817	0.643793321	0.938433314
219147_s_at	C9orf95	-0.390665288	0.072947086	0.644173808	0.108392062
NuGO_eht0342524_at	NA	2.318866849	-3.058394492	0.644390599	0.000108764
223261_at	POLK	0.115469275	-0.395073406	0.649034	0.214956248
200826_at	SNRPD2	-0.631789082	0.436475369	0.649210173	0.33116049
214430_at	GLA	0.784990155	-0.834268293	0.651378113	0.729627471
201774_s_at	NCAPD2	-0.090482502	0.442792466	0.651653925	0.81358548
1568609_s_at	NA	0.473464799	-0.358919143	0.651947494	0.945768042
219863_at	HERC5	0.079902882	0.26365719	0.652701486	0.001818091
204794_at	DUSP2	-0.185797239	0.520203575	0.653276865	0.899085303
213515_x_at	HBG2	-0.822586943	-1.30268182	0.653769733	0.982511053
230434_at	KLHL23	-1.013761259	0.404542607	0.654906091	0.268425854
227678_at	XRCC6BP1	-0.514170047	0.661199062	0.655348064	0.15222217
227784_s_at	COG1	-0.66585834	0.395112432	0.655853989	0.522146772
223298_s_at	NT5C3	-0.06587468	0.659931896	0.656744762	0.00282857
221027_s_at	PLA2G12A	-0.212295063	0.231257501	0.656744762	0.011060995
224974_at	SUDS3	-0.06454427	0.19790785	0.658544541	0.514657913
233929_x_at	NA	-0.007047565	0.146743113	0.659194054	0.07547106
212827_at	IGHM	-0.592138495	0.801096944	0.660149836	0.000108764
205036_at	LSM6	0.050173899	0.059574918	0.66072295	0.835641503
209403_at	TBC1D3	0.674662677	0.19763298	0.661051815	0.652498603
210732_s_at	LGALS8	0.214415135	0.045750895	0.661069975	0.211251788
203537_at	PRPSAP2	-0.698812853	0.515423815	0.661247765	0.994474239
230120_s_at	NA	-1.469367951	0.563380782	0.661277435	0.782267554
226003_at	KIF21A	-0.23419158	0.060763772	0.664232192	0.634796535
213581_at	PDCD2	-0.354826566	0.389658752	0.665051936	0.44989422
201749_at	ECE1	0.043749387	-0.069871386	0.665672646	0.972747763
222718_at	TMEM8	0.210729796	0.557425287	0.666447422	0.841677555
225927_at	MAP3K1	0.250453287	-0.447048436	0.66683005	0.775384513
228846_at	NA	2.251311094	-2.375281542	0.669919911	0.910109917
221219_s_at	KLHDC4	-0.354828157	0.322756913	0.67223542	0.017432273
221704_s_at	VPS37B	-0.093944556	0.389207409	0.672359172	0.63717174
228283_at	C3orf68	0.075648868	-0.133958573	0.673096241	0.649063389
218737_at	SBNO1	0.369447889	-0.238755934	0.673152594	0.871719812
215000_s_at	FEZ2	0.699578425	-0.443698662	0.676762379	0.164550933
243020_at	NA	-0.419684416	-0.450481762	0.676762379	0.260001668
1555779_a_at	CD79A	-0.311242849	0.639574524	0.677399544	0.060768944
218198_at	DHX32	-0.497525213	0.53233519	0.677399544	0.145548334
218913_s_at	GMIP	0.051760457	0.092352528	0.67857768	0.997948213
39318_at	TCL1A	-0.021099893	0.59121915	0.679214138	0.000108764
226149_at	C20orf198	-0.192944113	-0.035452795	0.682935887	0.757915487
243843_at	N4BP2L1	0.132052709	-0.271507311	0.684148489	0.752694715
230942_at	CMTM5	0.67058688	-0.684927218	0.688013558	0.122499879
1563674_at	FCRL2	-0.760145215	0.60571162	0.688754121	0.835788125
228726_at	NA	0.208025984	0.249218138	0.689894389	0.301771994
237289_at	NA	-0.11332995	-0.280543198	0.689943323	0.945874158
229829_at	C18orf18	-0.298354182	-0.089239378	0.690381026	0.970575525

244189_at	KIAA1648	-0.576618012	0.348725165	0.69145068	0.89798823
209104_s_at	NOLA2	-0.454702815	0.374402533	0.693463164	0.787680001
218552_at	ECHDC2	-1.063766401	0.748121157	0.6947047	0.539412695
231847_at	NA	-0.199676686	0.315720374	0.69555787	0.137293045
221553_at	MAGT1	-0.274168094	0.262836409	0.696477014	0.444798011
224965_at	GNG2	-0.476695532	0.623511034	0.697587881	0.525713605
203572_s_at	TAF6	-0.288763514	0.273716957	0.701052897	0.985049625
203708_at	PDE4B	-0.264001463	0.187314133	0.701125617	0.299746905
205297_s_at	CD79B	-0.351145788	0.808183471	0.702284635	0.005655763
203660_s_at	PCNT	-0.542758268	0.294327861	0.702284635	0.669735386
206110_at	HIST1H3H	0.686716845	-0.097350919	0.705747382	0.43311743
230077_at	NA	-0.524678206	-0.58998439	0.712212691	0.08871794
226350_at	CHML	-0.085930081	0.222840179	0.713488498	0.558007005
223443_s_at	FLJ32065	-0.074964849	0.617898552	0.713488498	0.68200977
202959_at	MUT	-0.33529954	0.209541455	0.713488498	0.799324603
225848_at	ZNF746	0.337352946	-0.465535322	0.71354913	0.879827213
1555745_a_at	LYZ	1.090647756	-3.793785086	0.714302657	0.221669463
203467_at	PMM1	-0.433299145	0.350455876	0.715775901	0.778882397
201883_s_at	B4GALT1	0.71506043	-0.297886312	0.71642456	0.976028055
224788_at	ARF6	-0.029151984	0.05286751	0.717034868	0.740016568
223133_at	TMEM14B	-0.463467899	0.331327827	0.717294279	0.840968101
211911_x_at	HLA-B	0.03707079	0.084880225	0.71794602	0.040552556
203343_at	UGDH	-0.219408687	0.025842698	0.718223575	0.938319056
224451_x_at	ARHGAP9	0.236635269	-0.083239479	0.720871151	0.768133491
209358_at	TAF11	-0.238531234	0.192393042	0.721035084	0.18628912
201049_s_at	RPS18	-0.177831969	0.125386005	0.72249061	0.001054879
209762_x_at	SP110	-0.014584755	0.257539178	0.722899591	0.000558078
208999_at	SEPT8	-0.092354068	0.389089398	0.726560809	0.795027409
225862_at	SLC25A26	-0.323708155	0.356915357	0.72693633	0.582956653
206240_s_at	ZNF136	-0.705806958	0.252011507	0.727293019	0.917842269
205997_at	NA	0.285849122	0.491208807	0.728811572	0.613773763
225035_x_at	WASH3P	0.05259251	0.080946029	0.730320105	0.086411815
202254_at	SIPA1L1	0.190974408	0.10592308	0.730668126	0.63825917
226958_s_at	MED11	-0.296149369	0.029720574	0.7336599	0.202040946
209609_s_at	MRPL9	-0.49849024	0.364173611	0.734792415	0.894742512
228416_at	ACVR2A	-0.487762289	-0.069251127	0.735936845	0.620656958
219507_at	RSRC1	-0.185163981	-0.005185086	0.73682863	0.982516002
218421_at	CERK	-0.206043565	0.184133885	0.739157716	0.915205813
211986_at	AHNAK	0.312855024	-0.508094297	0.740997081	0.533421572
204069_at	MEIS1	0.628948163	-0.139264552	0.74140666	0.185151232
210148_at	HIPK3	1.848224495	-1.486117577	0.743278751	0.913702953
213023_at	UTRN	1.150160197	-1.086949401	0.743476993	0.645808888
218860_at	NOC4L	-0.178820366	0.285379802	0.743559235	0.909374802
215925_s_at	CD72	-0.051811765	0.360146965	0.745562372	0.042282973
201391_at	TRAP1	-0.552900676	0.391423414	0.745690327	0.108319481
212380_at	KIAA0082	-0.417216666	0.413893877	0.746706483	0.856456276
218867_s_at	C12orf49	-0.255016448	-0.005218575	0.748073314	0.504398815
218225_at	ECSIT	-0.02041199	0.177817119	0.749479093	0.903934771
207156_at	HIST1H2AG	0.167398364	-0.309439601	0.749876193	0.236221104
219304_s_at	PDGFD	0.524456957	0.234413557	0.750636503	0.562203858
223085_at	RNF19A	-0.291083515	0.20946564	0.751600108	0.82363601
205544_s_at	CR2	-0.708486206	0.860696358	0.752490954	0.065267737
223314_at	NUPL1	-0.554482231	0.508641101	0.754147843	0.974396881
223423_at	GPR160	-0.318036005	-0.22620446	0.754295056	0.074429546
235005_at	DIS3L	-0.497146698	0.396019946	0.754481643	0.940171644
NuGO_eht0359559_at	PRKRA	-0.48584341	0.350309204	0.754636932	0.952715673
228916_at	CWF19L2	-0.512958938	0.220772678	0.756479081	0.589599238
222717_at	SDPR	0.778727703	-0.477353142	0.758005304	0.153696657
212841_s_at	PPFIBP2	0.385711749	-0.150338201	0.758281143	0.144552866

215332_s_at	CD8B	-1.170904102	0.810966559	0.759937011	0.066817163
233880_at	RNF213	0.906780986	0.040862583	0.760378474	0.56643651
226807_at	ZFP1	-0.484011867	0.542351418	0.760848092	0.669735386
202863_at	SP100	-0.207155021	0.286605374	0.764282637	0.000220482
218305_at	IPO4	-0.58060051	0.770086548	0.765532876	0.27710391
220952_s_at	PLEKHA5	0.241621391	-0.474956643	0.768760909	0.628893697
1568720_at	ZNF506	-2.408501404	0.113997867	0.769195369	0.477623864
233540_s_at	CDK5RAP2	-0.456387802	0.192382459	0.770901866	0.538315022
222996_s_at	CXXC5	0.339939669	-0.050482187	0.772007236	0.208174844
200959_at	FUS	-0.239932676	0.16366858	0.772095648	0.277892417
225273_at	WWC3	0.237062976	-0.078924713	0.77267644	0.612145332
230012_at	C17orf44	0.466037342	-0.321892422	0.773311841	0.707423433
235982_at	NA	0.245135276	0.532328656	0.773549475	0.094754923
205871_at	PLGLB2	-0.988721536	-0.129234663	0.774740152	0.525713605
206983_at	CCR6	-0.319091173	-0.087915208	0.775177215	0.319396786
218935_at	EHD3	0.038680323	-0.172152475	0.775203548	0.114137776
226074_at	PPM1M	-0.348609687	0.215476492	0.775979738	0.393324299
212829_at	PIP4K2A	0.053976931	-0.052220192	0.776217758	0.999517788
226986_at	WIPI2	-0.5522143	0.466759481	0.776418194	0.999889314
216305_s_at	NA	-0.757162731	0.854047639	0.778747518	0.970245823
34858_at	KCTD2	-0.024536923	0.167941744	0.780466397	0.830632828
204346_s_at	RASSF1	0.356036594	-0.097190292	0.780635985	0.744758826
204081_at	NRGN	0.820941953	-0.492130298	0.78094039	0.186909177
227740_at	UHMK1	0.014475703	0.023146464	0.781582741	0.707888244
224364_s_at	PPIL3	-0.474448092	0.182941295	0.783448531	0.711283687
226668_at	WDSUB1	-0.362411831	0.085694026	0.78427433	0.583621567
219442_at	C16orf67	-0.0557629	-1.011734306	0.786061178	0.847881509
229694_at	BRWD2	-0.692921675	-0.201384447	0.786061178	0.89524672
223363_at	PSMG3	-0.559173967	0.558167475	0.787559941	0.474208748
34210_at	NA	-0.20002859	0.167234932	0.788339702	0.465847006
227473_at	CTTN	0.650296628	-0.513739509	0.792583782	0.505952194
1557675_at	RAF1	-0.346104991	-0.374406993	0.792927915	0.020093825
49485_at	NA	-0.056362938	0.374167807	0.795722043	0.955553012
208740_at	SAP18	0.28352393	-0.122350876	0.798362756	0.583294306
213060_s_at	CHI3L2	-1.537008966	2.13889957	0.800314436	0.008120639
218309_at	CAMK2N1	-0.471270624	0.047345742	0.800637692	0.165237287
1563629_a_at	NA	-0.315770583	0.498156211	0.801560632	0.644717104
41577_at	PPP1R16B	-0.321407692	0.489492374	0.801915191	0.720411412
201000_at	AARS	-0.399431323	0.368599381	0.804758923	0.589397494
219056_at	RNASEH2B	-0.700194937	0.546879341	0.804816954	0.756369582
209191_at	TUBB6	0.356598676	-0.521271192	0.806370313	0.717911499
213287_s_at	NA	-0.355097103	0.277766385	0.806370313	0.918232275
219237_s_at	DNAJB14	-0.249527841	0.289341349	0.806440313	0.507193933
226938_at	WDR21A	-0.162030451	0.35096977	0.807619098	0.728630738
209221_s_at	OSBPL2	0.328213326	-0.222794929	0.809081879	0.752296897
202371_at	TCEAL4	-0.119819598	0.173941306	0.811622319	0.23455188
200943_at	HMGN1	-0.558217736	0.432057851	0.812672912	0.833799688
NuGO_eht0307395_at	NA	0.560083848	-0.323813082	0.816430292	0.057929789
226080_at	SSH2	0.691771551	-0.623625686	0.817132469	0.985049625
219293_s_at	OLA1	-0.131850793	0.109392959	0.817985306	0.603155886
225478_at	MFHAS1	-0.35346088	0.200048321	0.818171728	0.122414188
227177_at	CORO2A	-0.157442784	-0.030272763	0.81919859	0.027160091
236782_at	SAMD3	-0.349706506	0.323679788	0.821124675	0.055755821
226278_at	SVIP	-0.724841459	0.548096237	0.821124675	0.897383814
221634_at	RPL23AP7	-0.313773259	0.254359328	0.821990024	0.003114433
210479_s_at	RORA	-0.543389353	0.299834375	0.821990024	0.867138133
213878_at	PYROXD1	-0.377027327	0.327725032	0.822513385	0.694333258
227993_at	METAP2	-0.66179967	0.324520875	0.822516066	0.728363097
227646_at	NA	-0.76727986	0.639084209	0.823118362	0.46955797

205417_s_at	DAG1	-0.13941427	0.015259608	0.823757687	0.489680632
227599_at	C3orf59	-0.448206199	0.108049325	0.823757687	0.666246393
212297_at	ATP13A3	-0.402339675	0.402658655	0.823757687	0.865617787
219448_at	TMEM70	-0.247612395	0.018130316	0.824474396	0.036997131
225733_at	B3GALT6	-0.988760068	0.727641928	0.824474396	0.794856138
224366_s_at	REPS1	-0.281875552	0.254467787	0.824632278	0.910109917
221962_s_at	UBE2H	0.847365883	-1.112216975	0.826106388	0.956069193
212073_at	NA	-0.196405747	0.098721654	0.826499469	0.427903162
56919_at	GORASP1	-0.373724285	0.241160442	0.826944591	0.033048602
201121_s_at	PGRMC1	0.212465904	-0.106847552	0.82850895	0.237492026
212739_s_at	NME4	-0.650570653	0.672854867	0.829266677	0.001674305
241133_at	NA	2.066680485	-0.40077892	0.829934119	0.002138799
218188_s_at	TIMM13	0.04087493	-0.177477164	0.830558828	0.13448945
242463_x_at	ZNF600	0.563600682	-0.568550137	0.832219452	0.843195514
1557813_at	NA	0.035693379	0.180800026	0.832865249	0.914726911
215071_s_at	NA	0.451925714	-0.438062329	0.83294117	0.136515386
200940_s_at	RERE	-0.109454248	-0.15813444	0.833306003	0.73115143
239413_at	CEP152	-0.377663007	0.384119986	0.834726593	0.324376259
222640_at	DNMT3A	-0.388267096	0.523463197	0.835772818	0.895588512
225743_at	RPUSD3	-0.251173955	0.225177539	0.835850599	0.027244571
224595_at	SLC44A1	0.037704735	-0.02937038	0.837117612	0.112772264
209608_s_at	ACAT2	-0.383462784	0.31492156	0.837235126	0.551541752
203814_s_at	NQO2	1.774229618	-0.432285504	0.838166771	0.000461167
226384_at	PPAPDC1B	-0.251973627	0.436787805	0.838166771	0.437654282
212248_at	NA	-0.195730752	0.160365436	0.838166771	0.720411412
202670_at	MAP2K1	-0.026013686	-0.044899104	0.8414193	0.773970603
225097_at	HIPK2	0.033864937	0.023885553	0.842568733	0.622333833
202679_at	NPC1	0.180665373	-0.014370337	0.842903257	0.650539308
202769_at	CCNG2	0.344996285	-0.320771579	0.842903257	0.940171644
44065_at	C12orf52	-0.626053171	0.54517204	0.844137941	0.964333294
202922_at	GCLC	0.288498148	-0.207031761	0.845077637	0.780002104
211707_s_at	IQCB1	-0.393948829	0.679367869	0.84534731	0.998910035
212832_s_at	CKAP5	-0.119797696	0.273866223	0.847843521	0.006142137
202308_at	SREBF1	-1.05964545	0.934506265	0.847843521	0.24149423
213373_s_at	CASP8	0.258039354	-0.369197387	0.84803948	0.022036025
228272_at	DNLZ	0.148567273	0.027595201	0.84851127	3.54E-05
201770_at	SNRPA	-0.464600951	0.343384753	0.849539371	0.714170667
231101_at	PPP2R5E	1.206393972	0.024225338	0.849677337	0.960734378
225081_s_at	CDCA7L	-0.731310257	0.73350647	0.850838368	0.000108764
202832_at	GCC2	-0.933035615	0.632094391	0.853134024	0.843628569
202577_s_at	DDX19A	-0.312266871	0.338476448	0.854079317	0.894152075
231954_at	DKFZP434I0714	-0.086610142	-0.200870164	0.8543103	0.801732165
201244_s_at	RAF1	0.210915341	-0.172090929	0.856737754	0.682393123
217936_at	ARHGAP5	-0.057455813	0.055731252	0.857115135	0.76112203
218176_at	MAGEF1	-0.247362523	0.165714429	0.857587096	0.671129937
225044_at	NT5C3L	-1.916854725	1.042940785	0.857709049	0.405591691
241824_at	NA	0.504601026	-1.286359329	0.859294188	0.026308964
234427_at	NA	-0.823589726	0.31907731	0.867505703	0.921348255
231821_x_at	FLJ14186	-0.054406382	-0.461956616	0.868853076	0.008323541
226823_at	PHACTR4	-0.080135272	0.006603811	0.870561059	0.001373735
238600_at	JAKMIP1	-0.286439183	-0.422075625	0.870561059	0.913702953
227964_at	NA	0.194222616	-0.16104719	0.870797063	0.324267115
205671_s_at	HLA-DOB	-0.428904624	0.766565435	0.871409266	0.000107381
204160_s_at	ENPP4	0.310534695	-0.119747884	0.873496796	0.799021169
238025_at	NA	0.88706359	-0.510899415	0.874260941	0.903430658
221935_s_at	C3orf64	-0.184444652	0.034891736	0.875386075	0.741325876
204265_s_at	GPSM3	-0.288066102	0.286262595	0.875482535	0.982516002
211992_at	WNK1	0.268297465	-0.269921604	0.875482535	0.997044246
235341_at	LOC144871	0.758426333	-0.594180583	0.876714958	0.642173954

204439_at	IFI44L	-0.297306242	0.915755434	0.878084555	1.17E-05
204972_at	OAS2	0.153989947	0.156721594	0.878084555	0.047649316
225051_at	EPB41	0.146263733	-0.258359103	0.879599529	0.44333765
227189_at	CPNE5	-0.55006549	0.46897084	0.884254204	0.045358604
226754_at	ZNF251	-0.328450712	0.285620839	0.885095112	0.157148925
225974_at	TMEM64	-0.031373333	0.267802713	0.885557995	0.040552556
210387_at	NA	-0.104070735	-0.18513319	0.885725142	0.796470829
231747_at	CYSLTR1	0.482329491	-0.565139236	0.887185349	0.393258895
228001_at	LOC654779	-0.032409485	0.38695137	0.888129207	0.166497802
223306_at	EBPL	-0.695351157	0.441325921	0.889258234	0.78380964
208691_at	TFRC	-0.282834051	0.278461406	0.889532335	0.645465151
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218953_s_at	PCYOX1L	-0.368459298	0.308394973	0.892093289	0.81895014
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202681_at	NA	0.233110837	-0.348810267	0.893955129	0.991981004
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205263_at	BCL10	0.347753384	-0.574822158	0.894507907	0.982516002
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206390_x_at	PF4	0.343180271	-0.074047199	0.894672286	0.023263892
1556839_s_at	SPTBN5	-1.469388049	1.016533182	0.895124916	0.566935939
204852_s_at	PTPN7	-0.690358828	0.56184558	0.89666193	0.949579772
218281_at	MRPL48	-0.578634861	0.263236947	0.896695896	0.411815393
210763_x_at	NCR3	0.392995235	-0.357437405	0.898519751	0.273454746
235158_at	TMEM209	-0.313180909	0.352732536	0.898979266	0.967433663
214146_s_at	PPBP	0.576261331	-0.333493781	0.899530055	0.000793373
220068_at	VPREB3	-0.731877023	0.99841063	0.902317368	0.001072622
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205593_s_at	PDE9A	-0.763396893	0.868020772	0.903679678	0.936093257
208615_s_at	PTP4A2	-0.070507137	0.205653161	0.905945751	0.515539082
204506_at	PPP3R1	1.079819129	-1.057916056	0.90926141	0.567524799
238070_at	CHD1L	-1.064792699	0.412215245	0.909622046	0.428733065
228685_at	NA	0.500689485	-0.509876987	0.909936624	0.711499009
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203581_at	RAB4A	0.059602818	-0.205589863	0.914184379	0.810478522
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218795_at	ACP6	0.0709002	0.351915967	0.917234608	0.847080626
225270_at	NEO1	0.569750428	-0.222170199	0.919570264	0.039005381
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212096_s_at	MTUS1	0.078667861	-0.100189033	0.920050257	0.810058697
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223462_at	TMEM175	0.011015165	0.045990061	0.925812864	0.871096573
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230860_at	NA	0.319360837	-0.488972587	0.927499749	0.553098977
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229348_at	UBIAD1	-0.319546676	0.216116133	0.952434575	0.823656759
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219529_at	CLIC3	1.179352418	0.042465639	0.958345397	0.36979173
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NuGO_eht0283694_x_at	IGHV1-3	-0.6951719	0.474843466	0.999031032	0.010726711



rovides

C<sup>6</sup>, Coort SL<sup>9</sup>,

inchen, Freising-

**Adjusted p  
value (subject  
effect)**

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0.076150098

## Online resource 2

Transcriptome analysis of peripheral blood mononuclear cells in human subjects following a 36 hour fast provides evidence of effects on genes regulating inflammation and apoptosis as well as energy metabolism. **Genes and Nutrition.** Elliott RM<sup>1,2\*</sup>, de Roos B<sup>3</sup>, Duthie SJ<sup>3,4</sup>, Bouwman FG<sup>5</sup>, Rubio-Aliaga I<sup>6,7</sup>, Crosley LK<sup>3</sup>, Mayer C<sup>8</sup>, Polley AC<sup>1</sup>, Heim C<sup>6</sup>, Coort SL<sup>9</sup>, Evelo CT<sup>9</sup>, Mulholland F<sup>1</sup>, Daniel H<sup>6</sup>, Mariman EC<sup>5</sup> and Johnson IT<sup>1</sup>

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