

Methods

Mice: 4-6 weeks old female C57BL/6 mice obtained from Jackson labs were used for cell isolation. Female Foxp3-IRES-GFP reporter mice (1), backcrossed to B6/C57 background for 10 generations, were used for the isolation of naïve CD4 and naïve CD8 cells for the RNAseq experiments. The mice were housed in pathogen-free animal facility in the La Jolla Institute for Allergy and Immunology and were used according to protocols approved by the Institutional Animal Care and use Committee.

Preparation of cells: Subsets of thymocytes were isolated by cell sorting as previously described (2), after cell surface staining using CD4 (GK1.5), CD8 (53-6.7), CD3 ϵ (145-2C11), CD24 (M1/69) (all from Biolegend). DP cells: CD4⁺CD8^{int/hi}; CD4 SP cells: CD4CD3^{hi}, CD24^{int/lo}; CD8 SP cells: CD8^{int/hi} CD4 CD3^{hi}, CD24^{int/lo} (**Fig S2**). Peripheral subsets were isolated after pooling spleen and lymph nodes. T cells were enriched by negative isolation using Dynabeads (Dynabeads untouched mouse T cells, 11413D, Invitrogen). After surface staining for CD4 (GK1.5), CD8 (53-6.7), CD62L (MEL-14), CD25 (PC61) and CD44 (IM7), naïve CD4⁺CD62L^{hi}CD25⁻CD44^{lo} and naïve CD8⁺CD62L^{hi}CD25⁻CD44^{lo} were obtained by sorting (BD FACS Aria). Additionally, for the RNAseq experiments, CD4 and CD8 naïve cells were isolated by sorting T cells from the Foxp3-IRES-GFP mice: CD4⁺CD62L^{hi}CD25⁻CD44^{lo} GFP(FOXP3)⁻ and CD8⁺CD62L^{hi}CD25⁻CD44^{lo} GFP(FOXP3)⁻ (antibodies were from Biolegend). In some cases, naïve CD4 cells were cultured in vitro under Th1 or Th2 polarizing conditions (3, 4). Briefly, for Th1 polarization naïve CD4 T cells were cultured in the presence of 10 ng/ml IL12, 10 μ g/ml anti-IL-4, 1 μ g/ml anti CD3 (clone 2C11) and 1 μ g/ml anti-CD28 (clone 37.51) for 2 days. In the case of Th2 polarization naïve CD4 T cells were cultured in the presence of 1000 U/ml IL-4, 5 μ g/ml anti-IFN- γ , 3 μ g/ml anti-IL-12, 1 μ g/ml anti CD3 (clone 2C11) and 1 μ g/ml anti-CD28 (clone 37.51) for 2 days. On day 3 of culture, cells were removed from TCR/ costimulation conditions and expanded in the presence of 20 U/mL IL-2 for Th1 and 10 U/mL IL-2 for Th2 polarization conditions for 4 days. Data analysis was performed using FlowJo (Tree Star Inc).

Intracellular staining for IFN- γ and IL-4: On day 6 of in vitro culture, cells were restimulated for 5 hours in the presence of 500 nM PMA (Calbiochem) and 1 μ M ionomycin (Calbiochem). During the last 3 hours of culture, 10 μ g/ml of Brefeldin A (Sigma) was added. Intracellular staining was performed for IFN- γ and IL-4 using the Cytofix/Cytoperm kit (BD Biosciences). Data analysis was performed using FlowJo (Tree Star Inc).

Enrichment-based detection of 5-hydroxymethylcytosine (5hmC):

Biotin-glucosyl tagging and enrichment of 5hmC (Biotin-gmC, a variant of GLIB (5)): For specific biotinylation of 5hmC in DP T cells, we used the Hydroxymethyl Collector kit (Active Motif, Carlsbad, CA) to selectively label 5hmC bases with glucose and biotin moieties to form biotin-N3-5-gmC as previously described(6). To ensure efficient biotinylation, 2 μ g of genomic DNA were biotinylated per reaction. In this case we used the 5500 SOLiD fragment library preparation kit from Applied Biosystems in order to prepare the library and the 5500 SOLiD Library indexed adaptors 1-16 according to the

manufacturer's instructions. The samples were sequenced using the SOLiD 5500 platform.

Chromatin Immunoprecipitation and library preparation: 10 million sorted DP T cells were fixed for 10 min in 1% PFA (Pierce), quenched with glycine and washed twice with PBS containing protease inhibitors (Roche) and sodium butyrate (to inhibit deacetylation) (Sigma). These inhibitors were present in all the following steps. Cells were lysed on ice in Lysis buffer (50 mM Hepes pH 7.9, 1 mM EDTA pH 8.0, 0.5 mM EGTA pH 8.0, 140 mM NaCl, 10% Glycerol, 0.5% NP-40, 0.25 % Triton, protease inhibitors and 5 mM sodium butyrate) in order to obtain nuclei, that were washed twice with washing buffer (10 mM Tris-Cl pH 8.0, 200 mM NaCl, 1 mM EDTA pH 8.0, 0.5 mM EGTA pH 8.0, 1x protease inhibitors, 5 mM sodium butyrate) and resuspended in shearing buffer (0.1% SDS, 1 mM EDTA pH 8.0, 1x protease inhibitors, 5 mM sodium butyrate). Then, chromatin was sheared to an average size of 200 bp. Half of the material was used (equivalent to 5 million cells) per immunoprecipitation reaction. 10% was saved as input. Briefly, 2 µg of anti-histone H3acetylK27 (Abcam, ab 4729) was coupled to 30 µl Dynabeads protein G for immunoprecipitation (Invitrogen). The immunoprecipitation reaction was performed overnight (approximately 16 h) in RIPA buffer (50 mM Tris pH 8.0, 150 mM NaCl, 1 mM EDTA, 1 % NP-40, 0.1% SDS, 0.5% Deoxycholate). The next day, 2 washes were performed with RIPA buffer, 1 wash with High Salt Buffer (50 mM Tris pH 8.0, 500 mM NaCl, 1mM EDTA, 1 % NP-40, 0.1% SDS, 0.5% Deoxycholate) and one wash with TE. After the last wash with TE, DNA was eluted by resuspending the beads in elution buffer (100 mM NaHCO₃ and 1% SDS) with rotation for 40 min at room temperature. The eluted DNA from the IP reaction as well as the input DNA were treated with 5 µg of RNase A for 30 min to ensure removal of RNA. Then de-crosslinking reaction was performed overnight in the presence of proteinase K (Ambion) at 65 °C with shaking. De-crosslinked DNA was used to construct the library as described in the CMS-IP section, using the Illumina Truseq adaptors for the input and the IP sample.

RNA isolation and whole transcriptome library preparation for RNAseq: For naïve CD4 and CD8 samples, RNA was isolated using Trizol (Invitrogen). Subsequently ribosomal RNA was depleted by RiboZero (Epicentre) and for the following steps the guidelines for whole transcriptome library preparation from low input provided by SOLiD (Applied Biosystems by Life Technologies) were followed. Briefly, using the total RNA-seq kit by SOLiD, enzymatic fragmentation of RNA was performed, then purification (PureLink RNA Micro Kit, Invitrogen), hybridization and ligation, reverse transcription, purification and size selection of the produced cDNA and amplification of the size selected DNA were performed using Phusion. The libraries were sequenced using the SOLiD 5500 platform.

Quantitative analysis of 5hmC levels using dot blots: 50 ng genomic DNA samples were sheared using needle and treated with sodium bisulfite using the Methylcode kit (Invitrogen), following the guidelines described in the CMS-IP section. DNA was prepared using 2-fold serial dilutions in TE buffer and then denatured in 0.4 M NaOH/ 10 mM EDTA at 95°C for 10 min and followed by adding an equal volume of cold 2M ammonium acetate (pH 7.0) on ice for 10 min. Denatured DNA samples were spotted on a nitrocellulose membrane in an assembled Bio-Dot apparatus (Bio-Rad) according to

the manufacturer's instructions. The membrane was washed with 2XSSC buffer and then vacuum-baked at 80° C for 2 hrs. Then the membrane was blocked with 5% non-fat milk for 1 hr and incubated with rabbit antisera against CMS detected by HRP-conjugated secondary antibody and enhanced chemiluminescence.

DATA ANALYSIS

Biotin-gmC (GLIB) data analysis: The GLIB and input reads were mapped against mm9 in color-space using Bowtie (7). Enriched regions (ERGs) relative to input DNA were detected using the “findPeaks” routine in HOMER (8) with the “histone” mode and default parameter values.

Intragenic levels of GLIB and input DNA were quantified by counting the number of reads falling into RefSeq genes defined by the corresponding annotated transcription start and termination sites. The RPKM values were calculated based on the read counts in the GLIB samples. The log fold enrichment of IP DNA was calculated against input DNA.

CMS-IP data analysis: The CMS-IP and input reads were mapped against mm9 and lambda phage DNA using the Bismark mapping tool (9). The mapping was done using the Bowtie 2 (10) backend in the paired-end mode with the following parameter values: -l 0 -X 600 -N 0. Before pooling biological replicates their similarity was assessed using the method described below. Enriched regions (ERGs) relative to input DNA were detected using the “findPeaks” routine in HOMER (8) with the “histone” mode and default parameter values.

Intragenic levels of CMS-IP and input DNA were quantified by counting the number of reads falling into RefSeq genes defined by the corresponding annotated transcription start and termination sites. The RPKM values were calculated based on the read counts in the CMS-IP samples. The log fold enrichment of IP DNA was calculated against input DNA.

While calculating the average signal depicted in **Fig. 1c-d** the genes were extended 10% of the gene length downstream and upstream from transcription start site and transcription termination site, respectively. These extended gene regions were divided into 60 distinct intervals and the 5hmC and input DNA content of the bins was quantified (RPKM). For each of the bins the enrichment of 5hmC relative to input DNA was quantified followed by a step where the average enrichment was calculated over the considered genes.

RNA-seq data analysis: The sequencing reads given either in base-space or color-space were mapped to the mm9 genome and exon-exon junctions using Tophat (11). The exon-exon junctions were derived from the RefSeq gene annotations downloaded on June 16, 2012 (12). In case of biological replicates they were pooled for subsequent analysis. The number of reads falling into each RefSeq gene was quantified using the HTSeq-count script (13). The CD4 and CD8 naïve RNA-seq libraries were constructed from total RNA, and thus the small nucleolar RNA transcripts were discarded from the

analysis. The RPKM values were calculated based on the read counts using a custom script.

ChIP-seq data analysis: The ChIP-seq sequencing libraries were mapped against mm9 using Bowtie (7). Reads with identical sequences were filtered and only one was retained for subsequent analysis. Fragment size estimation was done using HOMER (8). In case of biological replicates they were pooled for subsequent analysis.

Intragenic levels of H3K4me3, H3K27me3, H3K36me3 and PolII were quantified by counting the number of reads falling into RefSeq genes defined by the corresponding annotated transcription start and termination sites. The RPKM values were calculated based on the read counts. The above procedure was done separately for IP and input DNA samples. The fold enrichment of IP DNA was calculated against input DNA.

Biological and experimental variation between hydroxymethylomes: The mm9 genome was divided into distinct 1,000 bp windows and the amount of the GLIB and CMS-IP signal within each of the intervals is quantified using the RPKM measure. The concordance in the window-base resolution between the hydroxymethylomes measured using the two alternative experimental approaches or between different biological samples was visualized using density plot representations. The degree of concordance was quantified by calculating Pearson's correlation coefficient r .

Bisulfite conversion efficiency: The samples were spiked with unmethylated lambda phage DNA to enable an accurate estimation of bisulfite conversion efficiency. The CMS-IP sequencing libraries were mapped against the sequence of lambda phage DNA using the Bismark mapping tool (9). The Bismark output was used to assess the bisulfite conversion efficiency of cytosines in CpG, CHG and CHH context within lambda phage DNA.

Saturation analysis: Saturation of the CMS-IP paired-end sequencing runs (**SI Appendix, Supplementary Methods Fig. 1**) was determined using the "saturation" routine in the MEDIPS package (version 1.10.0) (14) with the following parameter values: `uniq=TRUE`, `window_size=100`, `rank=FALSE`, `empty_bins=TRUE`, `paired=TRUE`.

Clustering analysis: Intragenic 5hmC (CMS-IP) levels across the cell types were quantified as described above. Genes shorter than 1,000 bp were discarded from the clustering analysis for focusing on the genes with more reliable intragenic 5hmC levels. In addition, it was required that the genes had considerable levels of intragenic 5hmC (\log_2 fold-change > 1).

In generating **Fig. 5a**, the hierarchical clustering was applied to \log_2 fold-change signals using the Euclidean distance and the complete linkage method. The cut threshold was defined to be 70% of the maximum linkage. To stabilize the clustering result, the large 5hmC enrichments (\log_2 fold-change > 3) and depletions (\log_2 fold-change < 0) were truncated to 3 and 0, respectively.

Dynamics of 5hmC and gene expression: Intragenic 5hmC (CMS-IP) levels across the cell types were quantified as described above. Genes shorter than 1,000 bp were discarded from the analysis for focusing on the genes with more reliable intragenic 5hmC levels. In addition, in **Fig. 5c** it was required that the genes had considerable

levels of intragenic 5hmC (\log_2 fold-change > 2) at least in one of the two cell types under investigation. Additionally, in **Fig. 5c**, we required that the logarithmic fold change of 5hmC (5hmC \log_2 fold change) is greater than 0.5 and the logarithmic fold change in gene expression (RPKM \log_2 fold-change) greater than 2. The degree of correlation between the changes in gene expression and intragenic 5hmC was quantified by calculating Spearman's rank correlation coefficient.

Public datasets: *SI Appendix, Table S3* lists the accession codes of the utilized data sets and corresponding PubMed identifiers of the publications in which data were published. The raw data sets were downloaded from the NCBI repository GEO database. The RNA-seq and ChIP-seq data sets were preprocessed and analyzed as described above. Briefly, we mined publicly available datasets for gene expression data on the remaining five subsets (DP, CD4 and CD8 SP, Th1 and Th2 cells) as well as data on the genome-wide distribution of histone marks and RNA polymerase II (Suppl Table 3) (2, 15-18).

Gene enrichment analysis: Enrichment of GO (Gene Ontology) categories (*SI Appendix, Table S8*) among the gene clusters in **Figure 5a** was assessed using the GeneTrail web tool (19) with the default parameters. The background set consisted all the RefSeq genes without snoRNAs ($N = 23,167$).

Those GO categories having one or more of the following strings "T cell", "lymphocyte", "immune", "leukocyte", "hemopoiesis", "interleukin", "thymic", "thymus", "thymocyte", "interferon gamma", "antigen" or "MHC" in their name were defined to be immune-related (*SI Appendix, Fig. S5; Table S8*).

Supplementary Figure Legends

Figure S1. Summary of the stages of T cell commitment in the thymus and Th1 and Th2 differentiation in the periphery, highlighting the key transcription factors that regulate these processes. In the thymus, positively selected DP (double-positive, CD4⁺CD8⁺) T cells give rise to CD4 and CD8 SP thymocytes; in the periphery, CD4⁺ naïve T cells differentiate towards diverse helper T cell lineages with distinct functions, including the Th1 and Th2 T helper subsets investigated in this study. Key factors involved in transcriptional regulatory networks that shape T cell identity are shown: *red*, factors expressed at each stage; *black*, factors that are not expressed or expressed at low levels. The major lineage-specifying factor for each subset is highlighted in yellow: ThPOK for CD4 SP cells, RUNX3 for CD8 SP cells and Th1 cells, and GATA3 for Th2 cells. The cross talk between transcription factors, which skews the balance of differentiation in favor of one lineage (*red arrows*) while repressing differentiation towards the opposing lineage (*blue terminated lines*), is indicated.

Figure S2. Strategies for cell isolation by fluorescence-activated cell sorting (FACS) and in vitro polarization towards T helper lineages. **a**, Thymocytes were isolated from C57BL/6 mice and surface stained for CD4, CD8, CD24 and CD3. Total DP T cells are gated as shown. Mature CD4 and CD8 SP T cells were isolated based on CD24 and CD3 expression: CD4 SP cells were identified as CD8⁻CD4⁺ CD24^{low}CD3⁺ cells and CD8 SP T cells as CD8⁺CD4⁻CD24^{low}CD3⁺ cells. **b**, Enriched peripheral T cells were stained for surface markers CD4, CD8a, CD25, CD62L and CD44 (see *Methods*). Naïve CD4⁺ T cells were obtained by gating on CD4⁺ T cells and selecting for CD25⁻CD62L⁺CD44^{low} cells; for naïve CD8⁺ T cells we obtained CD62L⁺CD44^{low} cells. **c**, Truly naïve CD4 cells were polarized towards the Th1 and Th2 lineages in vitro in the presence of appropriate cytokines and TCR co-stimulation, then expanded in vitro until day 6. To assess the effectiveness of differentiation, cells were re-stimulated with PMA/ionomycin and evaluated for production of the signature cytokines for each lineage by intracellular staining and subsequent flow cytometric analysis (see *Methods*).

Figure S3. Concordance between GLIB and CMS-IP and biological reproducibility of CMS-IP. **a**, Examples of the similar results obtained with the GLIB and CMS-IP techniques, shown by comparison of genome browser tracks for selected genes (*Bcl11b*, *Cd4*, *Cd8a*) in DP T cells. **b**, Concordance of the GLIB and CMS-IP techniques. To compare the GLIB and CMS-IP datasets obtained for DP T cells, we divided the mm9 genome into distinct 1,000 bp intervals and quantified the amount of the GLIB and CMS-IP signal within each of the intervals using the RPKM measure. The concordance between the values obtained using the two different approaches is visualized using a density plot representation. The methods show overlap as revealed by the significant positive Pearson's correlation coefficient (exact permutation test for testing the null hypothesis that there is no correlation, two tailed, * $p < 2.2 \times 10^{-16}$). **c**, Comparison of the GLIB and CMS-IP datasets obtained for DP T cells, in this case focusing on intragenic regions (see *Methods*). The Spearman's rank correlation coefficient is depicted (exact permutation test for testing the null hypothesis that there is no correlation, two tailed, * $p < 2.2 \times 10^{-16}$). **d**, Similarity of the 5hmC landscapes obtained using different biological samples, studied as in **b**. Notice the improved concordance with increased 5hmC levels in **b-d**.

Figure S4. Quantification of 5hmC upon in vitro polarization of naïve CD4 T cells towards the Th1 and Th2 lineages. 5hmC levels in naïve CD4 T cells and in *in vitro*

differentiated Th1 and Th2 T cells at different time points were quantified by DNA dot-blot using anti-CMS antiserum and a DNA standard (see *Methods*). 2-fold dilutions of genomic DNA are shown. Note the abrupt drop of 5hmC in Th1 and Th2 cells differentiated for 5 days.

Figure S5. Dynamic intragenic 5hmC distribution during T cell lineage commitment and specification is observed in genes with immunological function. Heat map representation of the enrichment or depletion of clusters 1, 2, 4 and 6 shown in figure 5a for immune-related GO categories (see *Methods*). In total 141 enriched GO categories were evaluated. A selection of representative categories is depicted in the left side of the figure.

Figure S6. Genome browser views of 5hmC distribution in the studied T cells at genes encoding transcription factors that specify alternative cell lineages. Bar graphs (*top*) depict RPKM values summed over the gene body (TSS to TTS) (*y-axis*) for gene expression and 5hmC in each of the 7 cell subtypes. The figure emphasizes the lack of 5hmC (*black*) at the *Cebpa*, *Gata1*, *Pax5*, which encode factors with lineage-specifying roles during myeloid (*Cebpa*), erythrocyte (*Gata1*), B cell (*Pax5*) differentiation. All these genes were expressed at very low levels in all the T cell subsets as evaluated by RNA-seq, consistent with the absence of 5hmC.

SUPPLEMENTARY TABLES

Table S1: Mapping statistics of the generated CMS-IP and GLIB samples. The number of properly paired reads per sample is given.

Table S2: Bisulfite conversion efficiency of cytosines in CpG, CHG and CHH context, estimated using spiked-in unmethylated lambda phage DNA.

Table S3: The GEO accession codes of the previously published data sets utilized in this study, along with PubMed identifiers of the corresponding publications.

Table S4: Numbers of genes categorized based on their expression levels in different T cell subsets.

Table S5: Number of HERGs in different intragenic and intergenic regions for each T cell subset.

Table S6: List of genes belonging to the clusters depicted in **Fig. 5a**, and their intragenic 5hmC levels in DP, CD4 SP, CD8 SP, naïve CD4 and naïve CD8T cell subsets.

Table S7: List of genes shown in **Fig. 5c** that show same or opposite direction in the gain of 5hmC and gene expression.

Table S8: Listing of GO categories used and enumeration of genes/ cluster that show enrichment/ depletion for each category, depicted in **SI Appendix, Figure S5**.

SUPPLEMENTARY METHODS FIGURE LEGENDS

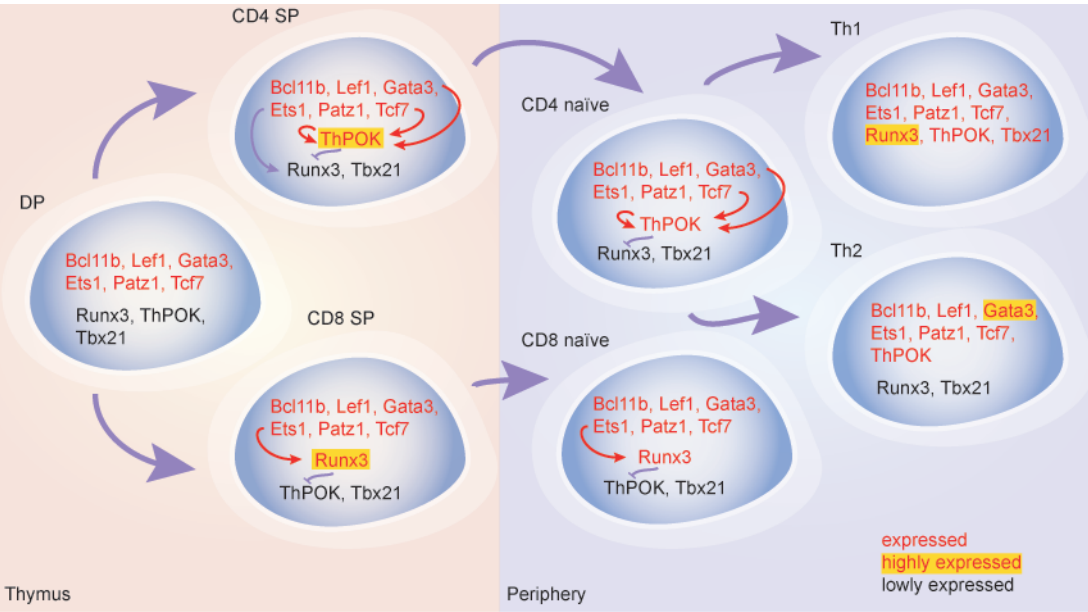
Supplementary Methods Fig. 1. Saturation analysis of the CMS-IP data for different T cell subsets. Depth of coverage was evaluated for the biological replicates of the different T cell subsets. Saturation level of each CMS-IP sample is estimated using the saturation routine in the MEDIPS package (see *Methods*). Saturation analysis of the mapped anti-CMS IP sequencing data shows sufficient saturation for all the subsets and

the biological replicates examined. In all cases, a minimum of 0.98 saturation correlation was observed, whereas the estimated correlation was at least 0.99.

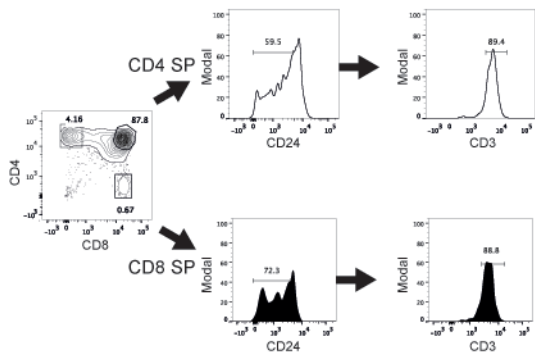
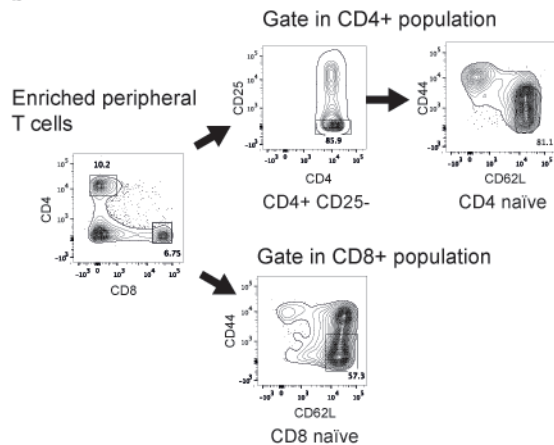
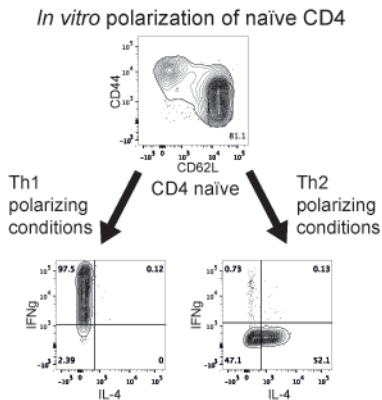
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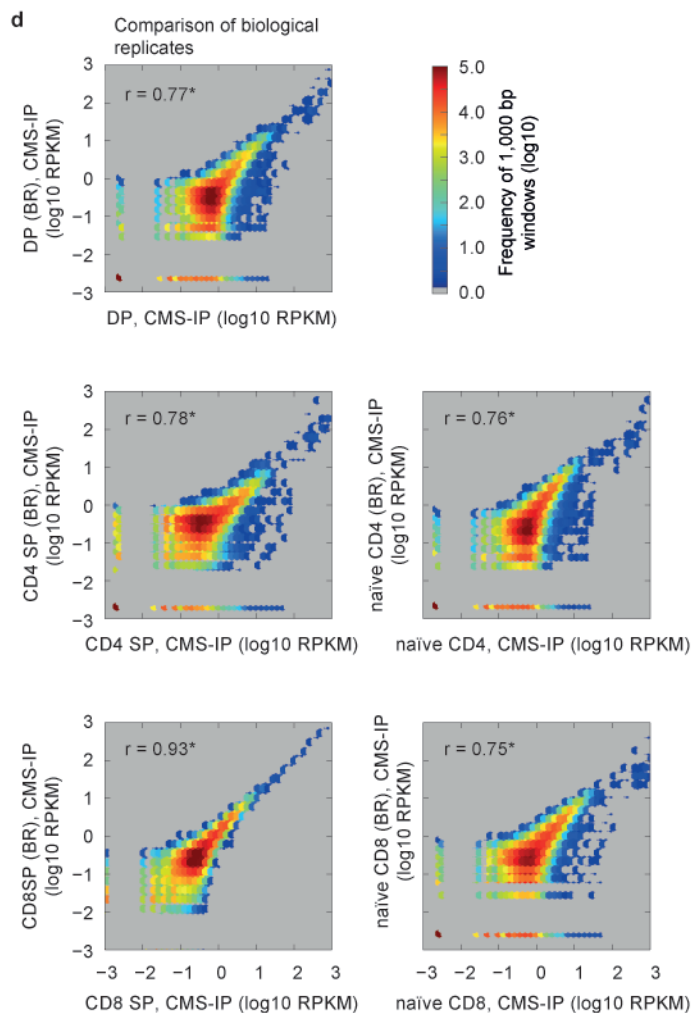
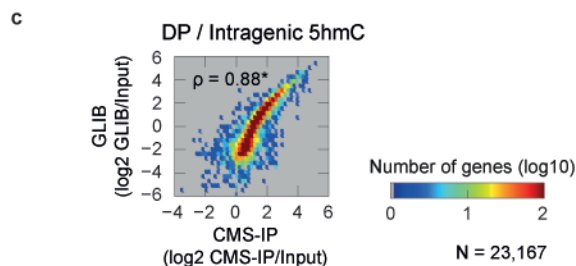
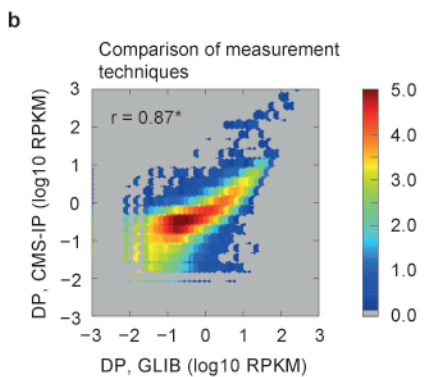
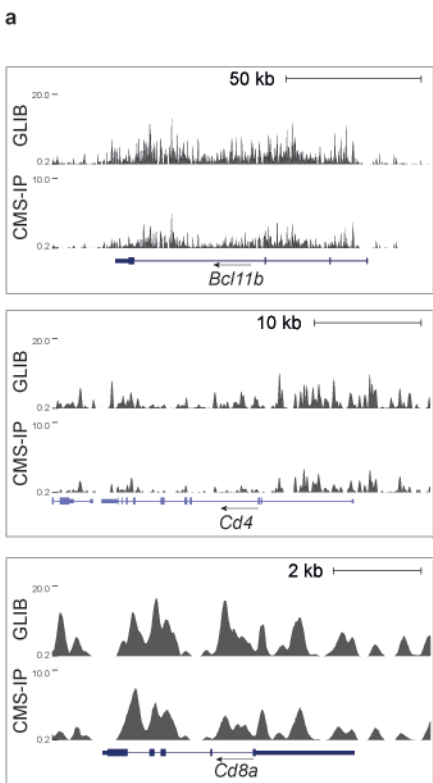
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Supplementary Figure 1

a**b****c**

Supplementary Figure 2



5hmC (anti-CMS DNA dot blot)

Standard DNA

Naïve CD4

Th1 18 hours

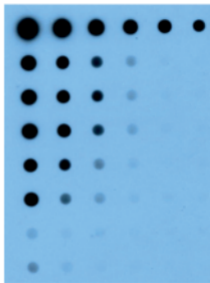
Th2 18 hours

Th1 36 hours

Th2 36 hours

Th1 day 5

Th2 day 5

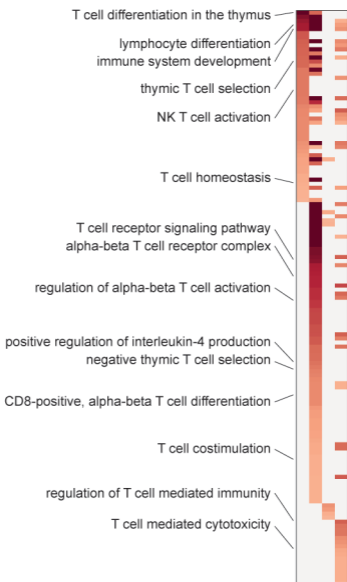


Serial dilution 1:2

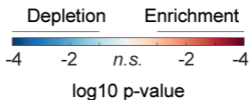
Supplementary Figure 4

Immune-related GO categories enriched in at least one gene cluster

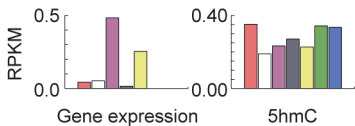
GO categories, N = 141



Cluster 1, N = 331
Cluster 2, N = 1,290
Cluster 4, N = 2,248
Cluster 6, N = 2,625



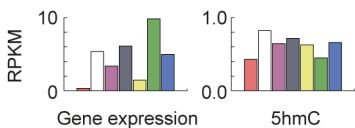
Supplementary Figure 5



5hmC (CMS-IP)

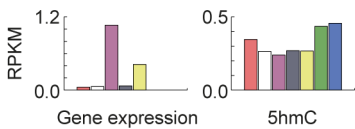
1 kb

DP
 CD4 SP
 CD8 SP
 naïve CD4
 naïve CD8
 Th1
 Th2



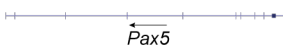
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DP
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 Th2



100 kb

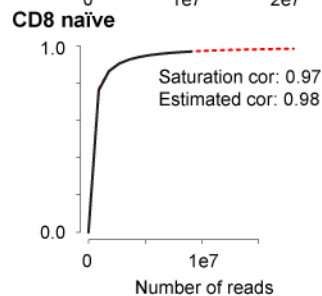
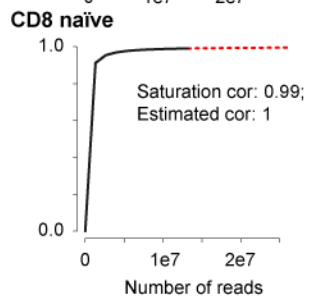
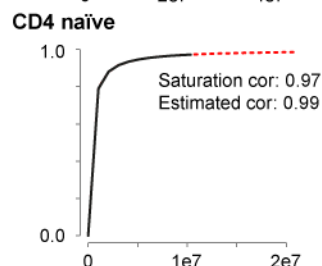
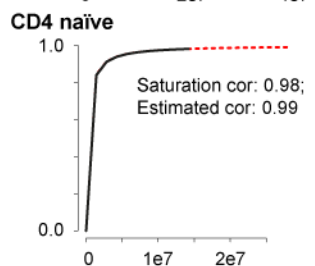
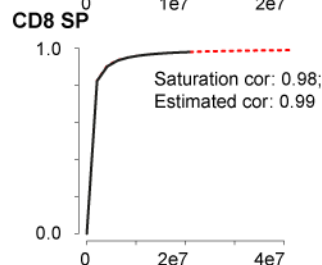
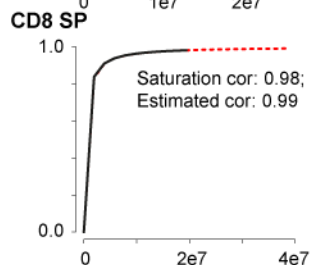
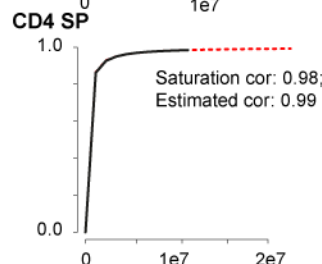
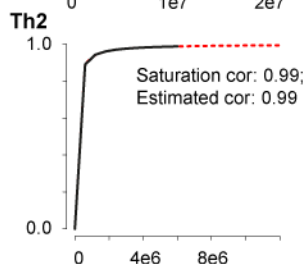
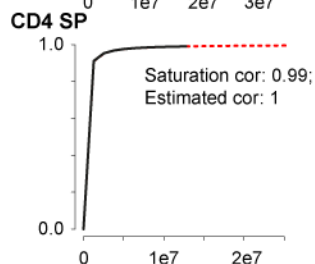
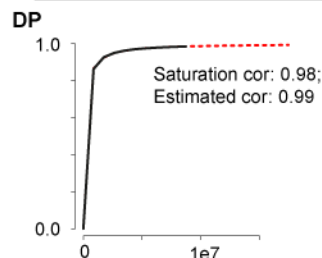
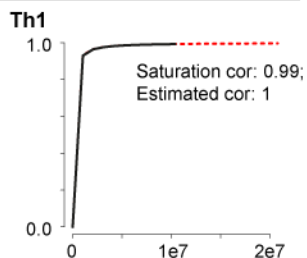
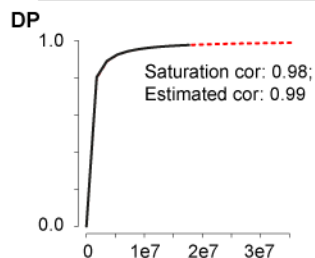
DP
 CD4 SP
 CD8 SP
 naïve CD4
 naïve CD8
 Th1
 Th2



Supplementary Figure 6

Biological sample #1

Biological sample #2



a

Input	Properly paired	DP	CD4 SP	naïve CD4	naïve CD8	Th1	Th2
	1st run		36,007,730	41,955,726	33,339,468	34,412,842	35,265,652
2nd run		49,124,368	54,473,620	45,864,952	47,559,288	47,707,658	40,473,714
Combined		85,132,098	96,429,346	79,204,420	81,972,130	82,973,310	69,833,094

CMS-IP	Properly paired	DP	CD4 SP	naïve CD4	naïve CD8	Th1	Th2
	1st run		23,981,430	21,646,366	24,534,124	25,906,174	22,367,958
2nd run		54,373,924	50,199,558	54,653,976	60,301,816	52,844,026	34,623,618
Combined		78,355,354	71,845,924	79,188,100	86,207,990	75,211,984	47,484,290

b

Properly paired	CD8 SP	CD8 SP (BR)
Input	47,991,615	49,967,657
CMS-IP	44,617,158	51,004,759

d

Properly paired	DP
Input	139,276,970
GLIB	187,353,802

c

Properly paired	DP (BR)	naïve CD4 (BR)	naïve CD8 (BR)
Input	34,232,316	34,232,749	25,516,551
CMS-IP	20,111,364	22,791,194	18,622,543

e

Properly paired	CD4 SP (BR)
Input	96,041,340
CMS-IP	48,152,562

Supplementary Table 1

a**1st run**

Input	Bisulfite conversion	DP	CD4 SP	naïve CD4	naïve CD8	Th1	Th2
	CpG	0.9994	0.9993	0.9993	0.9991	0.9993	0.9994
CHG	0.9991	0.9992	0.9992	0.9990	0.9992	0.9991	
CHH	0.9993	0.9993	0.9993	0.9983	0.9992	0.9993	

CMS-IP	Bisulfite conversion	DP	CD4 SP	naïve CD4	naïve CD8	Th1	Th2
	CpG	0.9996	0.9995	0.9995	0.9992	0.9994	0.9995
CHG	0.9993	0.9994	0.9993	0.9990	0.9992	0.9993	
CHH	0.9993	0.9994	0.9994	0.9989	0.9993	0.9994	

b**2nd run**

Input	Bisulfite conversion	DP	CD4 SP	naïve CD4	naïve CD8	Th1	Th2
	CpG	0.9995	0.9994	0.9995	0.9991	0.9994	0.9995
CHG	0.9994	0.9993	0.9994	0.9991	0.9992	0.9994	
CHH	0.9995	0.9994	0.9995	0.9991	0.9994	0.9996	

CMS-IP	Bisulfite conversion	DP	CD4 SP	naïve CD4	naïve CD8	Th1	Th2
	CpG	0.9995	0.9996	0.9996	0.9991	0.9995	0.9996
CHG	0.9996	0.9996	0.9995	0.9990	0.9995	0.9996	
CHH	0.9995	0.9995	0.9996	0.9991	0.9995	0.9996	

c

Input	Bisulfite conversion	CD8 SP	CD8 SP (BR)
	CpG	0.9992	0.9991
CHG	0.9990	0.9991	
CHH	0.9992	0.9992	

CMS-IP	Bisulfite conversion	CD8 SP	CD8 SP (BR)
	CpG	0.9997	0.9997
CHG	0.9996	0.9996	
CHH	0.9997	0.9997	

d**Biological replicates**

Input	Bisulfite conversion	DP (BR)	naïve CD4 (BR)	naïve CD8 (BR)
	CpG	0.9994	0.9992	0.9994
CHG	0.9993	0.9991	0.9993	
CHH	0.9993	0.9992	0.9994	

CMS-IP	Bisulfite conversion	DP (BR)	naïve CD4 (BR)	naïve CD8 (BR)
	CpG	0.9996	0.9990	0.9997
CHG	0.9995	0.9990	0.9995	
CHH	0.9995	0.9992	0.9996	

Input	Bisulfite conversion	CD4 SP (BR)
	CpG	0.9994
CHG	0.9992	
CHH	0.9994	

CMS-IP	Bisulfite conversion	CD4 SP (BR)
	CpG	0.9995
CHG	0.9995	
CHH	0.9996	

a

RNA-seq	Cell type	GEO Accession(s)	PMID
	DP	GSM774312, GSM774313	22500808
	CD4 SP	GSM758717	22379031
	CD8 SP	GSM758719	22379031
	Th1	GSM523209	21867929
	Th2	GSM523211	21867929

b

DP	ChIP	GEO Accession(s)	PMID
	H3K4me3	GSM523699	21867929
	H3K27me3	GSM774289, GSM774290	22500808
	H3K36me3	GSM803115	22080921
	PoIII	GSM803116	22080921

DP	Input	GEO Accession(s)	PMID
	H3K4me3	GSM774302	22500808
	H3K27me3	GSM774302	22500808
	H3K36me3	GSM803109	22080921
	PoIII	GSM803109	22080921

c

H3K4me3	Cell type	GEO Accession(s)	PMID
	CD4 SP	GSM758726	22379031
	CD8 SP	GSM758729	22379031
	naïve CD4	GSM361997	19144320
	Th1	GSM361999	19144320
	Th2	GSM362001	19144320

d

ES	ChIP	GEO Accession(s)	PMID
	H3K36me3	GSM307620	17603471
	PoIII	GSM307623	17603471

Supplementary Table 3

DP

- Not expressed (< 0.1), N = 9,994
- Lowly expressed (< 1), N = 2,821
- Moderately expressed (< 10), N = 3,996
- Highly expressed (< 100), N = 5,672
- Extremely highly expressed, N = 684

CD8 SP

- not expressed (< 0.1), N = 9,782
- lowly expressed (< 1), N = 2,897
- moderately expressed (< 10), N = 4,221
- highly expressed (< 100), N = 5,652
- extremely highly expressed (≥ 100), N = 615

CD4 SP

- not expressed (< 0.1), N = 9,966
- lowly expressed (< 1), N = 2,772
- moderately expressed (< 10), N = 3,971
- highly expressed (≥ 100), N = 5,861
- extremely highly expressed (≥ 100), N = 597

CD8 naïve

- not expressed (< 0.1), N = 11,270
- lowly expressed (< 1), N = 1,991
- moderately expressed (< 10), N = 3,857
- highly expressed (≥ 100), N = 5,477
- extremely highly expressed (≥ 100), N = 572

CD4 naïve

- not expressed (< 0.1), N = 11,161
- lowly expressed (< 1), N = 2,101
- moderately expressed (< 10), N = 3,716
- highly expressed (≥ 100), N = 5,601
- extremely highly expressed (≥ 100), N = 588

Th1

- not expressed (< 0.1), N = 11,630
- lowly expressed (< 1), N = 2,146
- moderately expressed (< 10), N = 4,556
- highly expressed (< 100), N = 3,956
- extremely highly expressed (≥ 100), N = 879

Th2

- not expressed (< 0.1), N = 10,830
- lowly expressed (< 1), N = 2,664
- moderately expressed (< 10), N = 4,732
- highly expressed (≥ 100), N = 3,988
- extremely highly expressed (≥ 100), N = 953

	5'UTR	3'UTR	TTS	Promoter	Exon	Intron	Intergenic	Total
DP	7	112	197	333	620	6835	5,320	13,424
CD4 SP	16	148	238	465	956	10,543	5,614	17,980
CD8 SP	14	168	294	507	990	11,620	5,374	18,967
naïve CD4	11	116	216	367	756	8519	3,657	13,642
naïve CD8	10	185	387	612	1,216	12,422	5,338	20,170
Th1	1	6	7	5	22	276	231	548
Th2	3	22	59	47	164	2,195	1,725	4,215

Number of HERGs

Supplementary Table 5

Supplementary Table 6. List of genes per cluster depicted in Fig. 5a.

Cluster 1					
Gene symbol	DP	Intragenic 5hmC (log2 CMS-IP/Input)			
		CD4 SP	CD8 SP	naïve CD4	naïve CD8
<i>Anxa2</i>	2,38469889	1,701110556	1,696539606	1,294588409	1,36577048
<i>9430014N10Rik</i>	2,353675832	1,678023064	1,874557506	1,307391797	1,309179248
<i>Ldlrad3</i>	2,214927888	1,700351239	1,735698292	1,308598739	1,407575305
<i>Dntt</i>	2,214792305	1,611002936	1,746983811	1,246169013	1,456542705
<i>Capn3</i>	2,439735165	1,816438097	1,83647562	1,387476948	1,405902738
<i>BC057022</i>	2,424910345	1,82593762	1,841552307	1,404888339	1,46097372
<i>Ng23</i>	2,489498451	1,613208161	1,792709068	1,427458112	1,478931271
<i>4930449E01Rik</i>	2,300413991	1,441014424	1,828991824	1,497443462	1,408092902
<i>Hmgb1</i>	2,551997696	1,608860474	1,630146757	1,476110134	1,643993761
<i>Tifab</i>	2,540205855	1,502572988	1,707200203	1,472749633	1,567998926
<i>Hist1h2bp</i>	2,636093036	1,393553757	1,702336546	1,39439269	1,409475669
<i>Gpr162</i>	2,771376398	1,729391092	1,680615244	1,491369518	1,395652345
<i>4933422H20Rik</i>	2,581387912	1,738650689	1,533638917	1,491843008	1,359231915
<i>Bst1</i>	2,437392867	1,835115298	1,750107362	1,205443913	1,645669719
<i>Agtrap</i>	2,648775344	1,854637706	1,584739815	1,285417221	1,531980086
<i>Tubb2a</i>	2,396057566	1,884664319	1,493658098	1,526759704	1,72223731
<i>Galk1</i>	2,662679819	1,810907284	1,591929121	1,527007211	1,734990887
<i>Olig3</i>	2,287760478	2,052210795	1,657728912	1,505338037	1,351596299
<i>Rbp7</i>	2,140756224	2,044471374	1,766607837	1,405139766	1,352065317
<i>2810454H06Rik</i>	2,294478461	1,820913861	1,613302846	1,325085329	1,18737959
<i>1600002D24Rik</i>	2,336249069	1,818507999	1,706733123	1,283666666	1,281244804
<i>Gm8615</i>	2,285615876	1,979187266	1,379503147	1,243558	1,230755772
<i>Cd1d2</i>	2,411859365	1,882389798	1,325980277	1,096042352	1,459992355
<i>Lrdd</i>	1,917431117	1,483766064	1,291354537	1,401753889	1,650274625
<i>Thap11</i>	1,996865831	1,567301147	1,204956224	1,264201733	1,524374528
<i>Ifitm3</i>	2,111941203	1,637570133	1,324349091	1,538553401	1,520469287
<i>Ly6c2</i>	2,229650843	1,617539309	1,098648058	1,395890018	1,947970507
<i>Jag2</i>	2,033676541	1,448770848	1,418511628	1,39703742	1,34408137
<i>Fastk</i>	2,178344299	1,455754791	1,528990991	1,453891939	1,276722266
<i>Nfatc3</i>	2,103201037	1,500971122	1,52462306	1,437684094	1,489036906
<i>Cdk5rap3</i>	2,085007631	1,618816219	1,538799359	1,470198462	1,419314923
<i>Irf8</i>	2,024164521	1,695101211	1,592317469	1,307786516	1,302938563
<i>Entpd7</i>	1,942220928	1,674539022	1,616546669	1,319465362	1,188273644
<i>Lag3</i>	2,063090644	1,611998402	1,542988483	1,372151667	1,136294141
<i>E130303B06Rik</i>	1,936223365	1,561278696	1,60591424	1,457435481	1,249784098
<i>1700108F19Rik</i>	2,032965117	1,5739803	1,431604944	1,169292473	1,171004922
<i>Serinc5</i>	2,129085365	1,65144955	1,502171078	1,117645646	1,17079246
<i>Tle6</i>	2,247695868	1,556494139	1,378639372	1,17103778	1,244171282
<i>Spc24</i>	2,028458016	1,299663349	1,780567183	1,099667907	1,649605992
<i>Pdzd3</i>	1,98132532	1,235456402	1,700748006	1,203049173	1,417702442
<i>Afmid</i>	2,13427656	1,220602223	1,545612836	1,314912143	1,634563622
<i>Tctex1d1</i>	2,43757228	1,424038622	1,453206673	0,952247206	1,213472771
<i>Gcnt7</i>	2,338813631	1,501796071	1,484630405	0,908034883	1,436390333
<i>Rab44</i>	2,535179396	1,597177759	1,438474417	1,122097032	1,184626715
<i>Tmprss4</i>	2,417548521	1,587728033	1,422588964	1,067761205	1,183000095
<i>Commd4</i>	2,255161046	1,712012583	1,610382021	1,080402378	1,466562539

Zfr2	2,284919818	1,64193582	1,655898198	1,20667136	1,552051735
Cdca7	2,412267362	1,752773016	1,584265878	1,17424713	1,446982243
Tmem140	2,023479854	1,721080907	1,661139325	1,188541826	1,401331779
Ttc16	2,054315191	1,524235898	1,597190095	1,243653057	1,317568685
1810043H04Rik	2,033839132	1,695971467	1,799874303	1,202576063	1,20351258
Tdrd5	2,185910358	1,509283287	1,779837401	1,140043656	1,422645473
Gm12709	1,963194731	1,462254265	1,537797331	1,055879609	1,272609953
Mad1l1	2,089539107	1,506227152	1,584342952	1,059216571	1,207057501
Fam163b	2,028433801	1,460466162	1,708020763	1,009153443	1,293580531
Plekhf1	2,278025755	1,630445787	1,803913726	1,035928622	1,248002172
Lingo4	2,297140395	1,634233701	1,834222418	0,87627203	1,247535026
InsI5	2,128343443	1,554987933	1,764444411	0,802896915	1,241064595
Ctla4	1,86733614	1,885996048	1,681399747	1,608684396	1,662839052
Sirt2	1,915217189	1,93430159	1,746498852	1,636908747	1,712505387
Gm5122	1,955342627	1,962413377	1,534187379	1,497003419	1,728303554
Trappc1	1,743852415	1,895368052	1,52506119	1,559467359	1,48601963
4930405J17Rik	1,933211094	2,020687037	1,821511467	1,530632901	1,365918314
Ccr9	1,994479383	2,152790235	1,769978002	1,49864267	1,446867005
Klraq1	2,153924206	1,877477889	1,681428833	1,694284282	1,540010247
4931403G20Rik	2,190931635	1,757509012	1,549437388	1,671080936	1,59160467
BC049352	2,096926566	1,710870247	1,72781375	1,774173382	1,676750386
Gm11744	2,000609393	1,657853627	1,543125581	1,774824376	1,444318975
Chst10	1,915465043	1,62563641	1,554869527	1,661415976	1,535793334
2810021J22Rik	2,227687362	1,955308472	1,981817211	1,604842048	1,538025455
Myb	2,119050182	1,989062534	1,870280554	1,571386421	1,430627329
Ccdc107	2,097118412	1,752269119	1,948194181	1,457402703	1,404691264
Lipa	2,191883058	1,807240983	1,730051316	1,557986251	1,508585799
Fam125b	2,281436394	1,806840389	1,829084405	1,475369228	1,552972501
Serpinf1	2,352098528	1,780016915	1,689570922	1,595079294	1,356458251
Sla	2,298348008	1,986636026	1,845846443	1,631931266	1,688364843
Alg14	2,283276755	2,087148528	1,823294671	1,62042104	1,588054272
1700026D11Rik	2,23323565	1,897321909	1,84552333	1,592149085	1,626983133
Spint2	2,206999827	1,982052963	1,823104093	1,594614155	1,575199223
Tuba8	2,118754044	1,925937246	1,795319076	1,62257044	1,630954235
Atl2	2,023621433	1,801300344	1,812553979	1,500506388	1,566935671
Vangl2	2,020640846	1,789767533	1,861199132	1,578499525	1,633245518
Tspan3	2,149632661	1,811543973	1,848192981	1,52812629	1,700299328
Mip	2,097937075	1,811110388	1,858284352	1,353888198	1,773723963
Lgals9	2,24895064	1,726300198	1,869918793	1,634473697	1,769426455
Tmem184b	2,216672309	1,777675844	1,869525126	1,596076709	1,818294385
Bckdha	2,212326631	1,649166469	1,819291472	1,493859135	1,788369954
4930428O21Rik	2,236919454	1,818455204	2,006335565	1,521434268	1,724254414
Sec14l1	2,256057436	1,808884205	1,985854802	1,551909962	1,681238198
F2	2,288753378	1,757286077	1,956458154	1,591580907	1,641507268
Icam2	1,881509993	1,556412607	1,573571946	1,475776998	1,621243148
Camk1g	1,837550403	1,697094659	1,627822762	1,416995552	1,602874104
Flt3	1,846103367	1,664958795	1,700798467	1,583900213	1,647495047
Dck	2,02063514	1,645996782	1,528430414	1,514337967	1,595175369
1810012P15Rik	2,095274454	1,755223178	1,636688664	1,516694606	1,573226145
Pgls	2,130419229	1,500675957	1,733313672	1,506988061	1,580875445
Phlda3	2,083183299	1,552892037	1,814170118	1,346616885	1,734121218

<i>Slc25a37</i>	1,987188943	1,709209565	1,802457541	1,440173688	1,526873491
<i>6430598A04Rik</i>	2,058636254	1,710527701	1,722674614	1,378247321	1,474261159
<i>Edaradd</i>	1,881265444	1,766947499	1,752296414	1,312865999	1,41511971
<i>Obfc2a</i>	1,959890579	1,897707805	1,774018187	1,339951411	1,57834166
<i>Ralb</i>	1,980303495	1,835062806	1,941484387	1,230802032	1,678877999
<i>Tmprss3</i>	1,9254109	1,734587351	1,883069701	1,064333517	1,703137682
<i>Clk3</i>	1,867773045	1,650626595	1,83548075	1,356873644	1,852535756
<i>Cass4</i>	1,754351275	1,67921119	1,823085668	1,272551224	1,841974575
<i>Bmf</i>	1,891495926	1,459917795	1,974534557	1,263712349	1,63315181
<i>Ifi30</i>	1,856807087	1,506209904	1,782953942	1,105414396	1,736825292
<i>Syngn3</i>	1,816105259	1,559574466	1,866336676	1,263003178	1,623226754
<i>Mc1r</i>	1,869528599	1,628745899	1,821139941	1,328015882	1,627415256
<i>Trim11</i>	1,982930253	1,502195186	1,794041366	1,325590098	1,692716123
<i>Plxdc1</i>	1,89680002	1,469899284	1,735723015	1,295624346	1,694885198
<i>D1Erttd622e</i>	1,783740459	1,555555104	1,818241227	1,418362651	1,76386591
<i>Ly6k</i>	1,83874347	1,489237434	1,754973716	1,402946034	1,734466422
<i>Wsb2</i>	1,59901072	1,624915831	1,55482503	1,322646941	1,547865283
<i>Gins2</i>	1,719090944	1,573426953	1,510453956	1,265629708	1,553556929
<i>Zfp238</i>	1,721616445	1,618859024	1,648460528	1,20904819	1,572334739
<i>Katnal1</i>	1,710509863	1,476739629	1,551047367	1,346811576	1,431559198
<i>Auh</i>	1,694873455	1,494184725	1,595404224	1,334862119	1,534219807
<i>Zcchc24</i>	1,763709449	1,632873696	1,507822865	1,271788966	1,368151932
<i>Stx6</i>	1,747253547	1,653964006	1,549615459	1,293036798	1,452806974
<i>Pofut1</i>	1,79497654	1,7184758	1,617759958	1,394211526	1,357806725
<i>Ephx3</i>	1,93112084	1,45542178	1,749889889	1,391285514	1,446253864
<i>Zfp768</i>	1,963500185	1,417688759	1,709382804	1,505405772	1,553384189
<i>Fbxo27</i>	1,911257876	1,328071494	1,628235351	1,380100009	1,541735795
<i>Irf6</i>	1,792631905	1,55422147	1,575129299	1,372517288	1,475481999
<i>Camk2a</i>	1,853022696	1,593728712	1,577855511	1,346199853	1,543060566
<i>Nlrx1</i>	1,882961458	1,508591785	1,524530696	1,341123614	1,54679245
<i>Ccdc134</i>	1,897394049	1,555573559	1,66231352	1,244102296	1,522580258
<i>Capn11</i>	2,210412651	1,446000323	1,158691541	1,011066495	1,076607727
<i>D830013020Rik</i>	2,167536465	1,520673865	1,216083214	0,970022456	0,971804208
<i>Cep250</i>	2,21162456	1,443267288	1,295830679	0,969796732	1,183742055
<i>Ppt1</i>	2,052662058	1,468679438	1,256164822	1,026189435	1,025955984
<i>Gtdc2</i>	2,077650424	1,426617013	1,287483252	0,885590101	1,041324408
<i>Wdr78</i>	1,873505191	1,414481074	1,305407263	0,931751312	1,036618624
<i>Ahi1</i>	1,954973146	1,384704464	1,337432769	0,989489831	1,083931539
<i>Tmem121</i>	2,11420917	1,164094353	1,375245768	0,99494817	1,213387449
<i>Stra8</i>	2,116091903	1,286577859	1,345661946	1,066282567	1,094823305
<i>Tmem239</i>	2,035220468	1,175783943	1,509467236	1,266889439	1,015788459
<i>Clec16a</i>	1,829840465	1,594341558	1,420437286	1,233216117	1,131197337
<i>Glcci1</i>	1,822295383	1,480756404	1,430383629	1,2724071	1,15452715
<i>A430090L17Rik</i>	1,977841514	1,452179885	1,455810769	1,23766493	1,027146037
<i>Ptprf</i>	1,8370616	1,492161214	1,396677739	1,140153592	1,074277284
<i>Dhcr24</i>	1,90179963	1,502892844	1,34268434	1,098686011	1,038057718
<i>Emp1</i>	1,871321387	1,542413376	1,313122658	1,079454891	1,142738483
<i>Txnrd2</i>	1,814782728	1,448977863	1,284299465	1,159707896	1,005649561
<i>Jdp2</i>	2,018742781	1,409552488	1,402675984	1,076600524	1,215328332
<i>Ccdc162</i>	1,90155254	1,45701348	1,399210208	1,096611563	1,238258871
<i>Gml</i>	1,987826294	1,377063074	1,308318821	1,206456426	1,226311866

<i>Bcat2</i>	2,018276892	1,417876257	1,213442502	1,182476448	1,242345466
<i>Gm15612</i>	1,859683929	1,384259588	1,295408504	1,078202493	1,144291944
<i>Bcl2l2</i>	1,790805679	1,281378977	1,233364084	1,093595419	1,094184043
<i>Rreb1</i>	1,684093894	1,369312525	1,27139752	1,14232299	1,203887869
<i>Sh2d1a</i>	1,72205329	1,42322531	1,314721481	1,121833553	1,146213194
<i>1700125G22Rik</i>	2,146402068	1,308581776	1,229218736	0,833629406	1,375566514
<i>Klf1</i>	1,933403321	1,411572105	1,121246199	0,882731586	1,297093893
<i>Tm4sf5</i>	1,850458425	1,35948083	1,532378606	0,887967015	1,465241483
<i>Hist4h4</i>	1,915618842	1,536520991	1,433321477	0,853050373	1,386498818
<i>Lynx1</i>	1,969652174	1,400371075	1,351555605	0,874445487	1,39547682
<i>Mcm2</i>	1,998041837	1,371930172	1,403144484	1,019284711	1,380761098
<i>Bid</i>	1,69632948	1,263190287	1,310197544	1,056223576	1,400076771
<i>Sema3b</i>	1,788428855	1,280233017	1,311679752	0,959202109	1,425031223
<i>Dut</i>	1,854288628	1,209861428	1,332958007	0,96491694	1,254692149
<i>Scn4b</i>	1,834335287	1,276152205	1,345579943	1,030655124	1,243210141
<i>Nanos3</i>	1,98515632	1,167877849	1,248915505	1,069461304	1,347833587
<i>Fgr</i>	1,99437761	1,187902179	1,320410899	0,950188947	1,389669503
<i>5430421N21Rik</i>	1,798072569	1,73334809	1,351580419	1,166117473	1,141596215
<i>Gm10638</i>	1,696799639	1,787716838	1,602058441	1,029121364	1,094246174
<i>Ypel2</i>	1,784005457	1,504920339	1,434154101	1,132910203	0,927915496
<i>Spink2</i>	1,757062021	1,443206295	1,509799056	1,219727156	1,022614476
<i>Spry1</i>	1,639491866	1,518410432	1,45312166	1,219754669	0,828065842
<i>Zfyve28</i>	1,764109756	1,35621897	1,39454904	1,05265931	1,202713949
<i>Igsf8</i>	1,868447237	1,3219616	1,425146844	0,992731973	1,161322307
<i>Spo11</i>	1,775437067	1,377029461	1,532174315	1,074812105	1,157514872
<i>C230024C17</i>	1,782263221	1,545556042	1,533495632	1,062171455	1,195063358
<i>Kcnh2</i>	1,618933403	1,362875405	1,433496955	0,963300123	1,118500784
<i>Slc39a2</i>	1,581771854	1,426063047	1,460975942	0,932715771	1,200012786
<i>H2-Q2</i>	1,666507187	1,464935907	1,299242464	0,939666725	1,119861013
<i>Tbc1d10c</i>	2,069795871	1,629639575	1,535556041	0,704892676	0,854216526
<i>Comt</i>	1,800802865	1,608262574	1,356178155	0,793234147	1,010219145
<i>Cited4</i>	1,951830713	1,472549836	0,845821496	1,346336708	0,874417444
<i>Ly6c1</i>	2,049859235	1,68091949	1,05785227	1,549847398	1,019337944
<i>1700018L02Rik</i>	1,756594644	1,535598781	1,634207497	1,703474324	0,989525444
<i>Spata5l1</i>	1,691995902	1,247063248	1,497496559	1,492489401	0,798379004
<i>Ccdc28b</i>	1,733420538	1,361019052	1,192407421	1,52157262	1,197627452
<i>Cdc42ep4</i>	1,765903757	1,304987352	1,216685551	1,480269318	1,128830393
<i>Cd1d1</i>	1,467345639	1,294514734	1,166629878	1,511986023	1,077396704
<i>Gm12522</i>	1,654884055	1,63374646	1,10807397	1,510239658	1,092799186
<i>Ptprcap</i>	1,718015993	1,315910121	1,59013229	1,365816497	1,170445085
<i>Atg9b</i>	1,618434807	1,234650832	1,509833819	1,386798753	1,168342021
<i>Apoe</i>	1,662075667	1,324777388	1,449050764	1,44072373	1,310864905
<i>Maf1</i>	1,57227778	1,323504426	1,790691731	1,391383386	1,363905793
<i>Baiap2l2</i>	1,356551674	1,513993908	1,614077051	1,277355647	1,293105858
<i>Fam108c</i>	1,378732942	1,606871393	1,597861351	1,212982693	1,236365382
<i>1700001D01Rik</i>	1,477021027	1,739169622	1,691777379	1,298109439	1,114684081
<i>Rbl2</i>	1,512484951	1,655820308	1,473483215	1,311970375	1,361823637
<i>L3mbtl3</i>	1,505852216	1,742786332	1,509845004	1,427773228	1,300847834
<i>2610307P16Rik</i>	1,61714789	1,626396206	1,58635846	1,21942209	1,219446565
<i>Ankrd50</i>	1,525214517	1,643031958	1,582270197	1,258557653	1,288115378
<i>Fas</i>	1,579680725	1,647697633	1,479361772	1,213279142	1,282014873

<i>A430107P09Rik</i>	2,250115499	1,73567455	1,280976427	0,86083409	1,194918245
<i>Id3</i>	2,320659906	1,648158873	1,372681355	0,707854887	1,032240446
<i>Arrdc5</i>	2,464450351	1,817278311	1,529854264	0,67781578	1,187570343
<i>Ltb</i>	2,570803266	1,633088112	1,49144923	0,965208474	1,048652497
<i>B230118H07Rik</i>	2,469432526	1,622179804	1,464701023	0,849327913	0,897100753
<i>1810019D21Rik</i>	2,343891852	1,516513901	1,061066471	0,880377703	1,504114855
<i>Prss57</i>	2,539672057	1,2371473	1,267782323	0,923139355	1,03866821
<i>Fstl3</i>	2,178031628	1,248463492	1,457875976	0,634574262	0,989438865
<i>Tmem151b</i>	2,223056443	1,393959286	1,312000457	0,879777787	0,810649262
<i>Syt13</i>	2,159669532	1,381635034	1,205793018	0,812180222	0,710279928
<i>2010109I03Rik</i>	2,317218935	1,307452032	1,262766215	0,937592205	0,895168478
<i>Ptcra</i>	2,358470725	1,405741715	1,218002401	0,866573804	0,892092248
<i>C330024C12Rik</i>	2,503096621	1,442953632	1,188154325	0,791725613	0,667650093
<i>Fam43a</i>	2,631752485	1,056556843	1,639001141	1,169934005	1,043097298
<i>Fam166b</i>	2,870200106	1,313735703	1,599149372	1,000497114	1,21099651
<i>5730422E09Rik</i>	2,560353535	1,769928545	1,556705136	1,253967179	1,194580529
<i>Xrra1</i>	2,421394038	1,707560239	1,587084842	1,243382311	1,166678612
<i>Siglec15</i>	2,534479846	1,736675817	1,711053745	1,082321301	1,16196004
<i>Tube1</i>	2,54212411	1,714166139	1,753879001	1,393221448	1,108669281
<i>2310001H17Rik</i>	2,358385341	1,664684861	1,945574646	1,439934606	0,846461556
<i>Rag2</i>	3,089920774	1,993846417	1,620453315	1,20588105	0,908600286
<i>A930003A15Rik</i>	2,665726309	1,891212248	1,656946365	1,102763247	0,99248126
<i>Gm525</i>	2,93411844	2,040068687	2,103376859	1,530459044	1,510377968
<i>Ly6g6d</i>	3,372802614	2,020774041	2,119083858	1,502918023	1,684041
<i>Rorc</i>	3,042652913	2,159606795	2,082195625	1,300186969	1,475609897
<i>Ndn12</i>	3,035099208	2,02010082	1,807747577	1,346834996	1,843577142
<i>Sema7a</i>	2,850666803	2,008226947	1,884983593	1,490770579	1,545440407
<i>Plxnd1</i>	2,819794874	2,161196744	1,907358142	1,486519275	1,509467662
<i>Fabp4</i>	2,964186895	2,182603702	1,897498489	1,630925409	1,620313548
<i>Tubb2b</i>	2,910045729	2,260654873	1,836824922	1,4477532	1,368817808
<i>Kifc2</i>	2,965406257	2,140150683	1,675246561	1,535233119	1,46238305
<i>BB031773</i>	2,841684903	2,278950619	2,24796409	1,453011151	1,79168496
<i>3930402G23Rik</i>	2,927051981	2,21367333	2,236197669	1,566429388	1,592937671
<i>Rag1</i>	3,515045957	2,497297323	2,293405065	1,36736396	1,561681036
<i>Ldhb</i>	2,60265702	2,030829826	1,930348089	1,460310692	1,578047205
<i>Slc37a2</i>	2,563487894	1,995003998	1,912607585	1,434748023	1,505287644
<i>Rapgef3</i>	2,591507949	2,056459682	2,003188104	1,514386528	1,593434581
<i>9230115E21Rik</i>	2,292451142	1,973305267	2,050784177	1,270023781	1,538077691
<i>Ly6d</i>	2,552487552	2,276017246	2,280439828	1,356496311	1,64637732
<i>Ilvbl</i>	2,736147005	1,963494151	2,145439459	1,447094306	1,735954523
<i>Maz</i>	2,658540605	1,882076378	2,097884457	1,470818517	1,788059156
<i>Slc6a19</i>	2,617527776	1,932535379	2,050775488	1,189423097	1,861260128
<i>Trim72</i>	2,756120755	1,783175457	1,928977208	1,187754967	1,607876424
<i>Ccdc153</i>	2,770929875	1,92897004	1,968935576	1,247625276	1,510882737
<i>Gm16617</i>	2,730182107	1,588193679	1,867075775	1,632904298	1,469668663
<i>Myadml2</i>	2,689739661	1,841820249	1,948520074	1,531668681	1,42097075
<i>C2cd4d</i>	2,958998039	1,67471364	2,185288821	1,477815487	1,417055507
<i>2210020M01Rik</i>	2,956021136	1,685108535	1,730213596	1,055095961	1,624230292
<i>4930572J05Rik</i>	3,116974574	1,86890731	1,410292126	1,723960711	1,760677989
<i>5430425J12Rik</i>	2,649912503	1,985655736	2,325132415	1,454248556	2,27011258
<i>Grb7</i>	2,493539515	1,953286041	2,373766058	1,690177702	2,231507107

<i>Cerk</i>	2,570866631	2,114547036	2,106288816	1,606533975	1,949514516
<i>Pigyl</i>	2,444524685	2,114569755	2,240263072	1,573885074	2,011695271
<i>Ptpn14</i>	2,535054711	1,987481085	2,29408437	1,502543411	1,924275167
<i>8430423G03Rik</i>	2,659130116	1,761939241	2,478942784	1,335393792	1,941612852
<i>4933433G15Rik</i>	2,31059464	2,100594569	2,164254811	1,235573925	2,036872113
<i>Dhx34</i>	2,321189545	1,828765548	1,971488501	1,250264835	1,941926835
<i>Gm12</i>	2,020444726	1,65735698	2,309923164	1,192974446	2,051544523
<i>Gm7030</i>	2,163705912	1,95657292	2,535363242	1,315110062	2,095203993
<i>Pak4</i>	1,886060786	1,726658562	2,313439923	1,690335865	2,237254031
<i>Hpcal1</i>	2,01537447	1,744760226	2,175312923	1,682885868	2,276813354
<i>Ly6e</i>	2,008101709	1,829872577	2,220505339	1,744030109	2,087506793
<i>2700081O15Rik</i>	2,120316926	1,829598109	2,193804412	1,538933235	2,192488667
<i>Rps15</i>	2,152077713	1,786909063	2,092519588	1,63072256	1,977155249
<i>Slamf6</i>	2,081119505	1,887191836	2,031932342	1,693742587	1,914736067
<i>Rmnd5a</i>	2,104683083	1,880865456	2,101618685	1,504730907	1,985436414
<i>Edem1</i>	2,310015838	1,962037481	2,215142268	1,661354818	1,785112007
<i>Egln3</i>	2,190870312	1,974105291	2,056351176	1,642795687	1,715996974
<i>Tmem123</i>	2,1499104	1,963020986	1,948788309	1,74976932	1,96589926
<i>5830428M24Rik</i>	2,159426857	1,963929167	1,98021081	1,756917461	2,089293799
<i>Stat5a</i>	2,153949276	2,006777151	2,035967681	1,691184516	1,990460853
<i>Tcof1</i>	2,207282384	1,988859751	2,050390741	1,672852046	1,986691541
<i>Bcl2l11</i>	2,23024634	1,933201296	2,043494371	1,643244958	2,019434338
<i>Samd1</i>	2,262281888	2,015729943	1,940391083	1,791381145	1,964340081
<i>Lta</i>	2,218266386	1,785986308	1,949391122	1,592017348	2,075296839
<i>D030028A08Rik</i>	2,301457242	1,863557149	1,88117934	1,675904842	2,066398915
<i>G630016D24Rik</i>	2,493363879	1,91448382	1,985830671	1,809589483	1,763259892
<i>5830416P10Rik</i>	2,381255529	1,988406273	1,988895555	1,721428483	1,632248783
<i>Gm11186</i>	2,485658656	1,711935893	2,025625381	1,677286107	1,702710756
<i>3110062M04Rik</i>	2,345330285	1,866823892	1,965579399	1,440325416	1,790156871
<i>Tm6sf1</i>	2,349449639	1,942875419	1,981000056	1,435966114	1,8758663
<i>Unc5cl</i>	2,343065399	1,880380393	1,846031385	1,47092139	1,721639787
<i>E2f4</i>	2,438296165	1,899763319	1,834196674	1,649617374	1,914145544
<i>Zdhhc8</i>	2,352503473	1,58351041	1,804972427	1,422555332	1,993058152
<i>Map3k6</i>	2,417783442	1,698213541	1,955014576	1,432622835	1,927939267
<i>Alox5ap</i>	2,097487492	1,700090694	1,929006091	1,547723433	1,942387748
<i>Nup214</i>	2,056758576	1,58919177	1,867676958	1,543784212	1,867939811
<i>Arl5c</i>	2,085278449	1,636748336	2,025559952	1,461057979	1,853153999
<i>Slc1a5</i>	2,346336286	1,750254245	2,136517803	1,610418188	1,924235899
<i>Pafah1b3</i>	2,242011367	1,610389562	2,160344642	1,484502427	1,938789612
<i>Galnt4</i>	1,864117946	1,937847421	1,656547478	1,855254931	1,994790012
<i>Tbcc</i>	1,828432487	2,064492003	1,491882787	1,832080555	2,131502429
<i>H2-T22</i>	2,137893287	1,998928152	1,736493801	1,794686633	2,276659594
<i>H2-T9</i>	2,137900006	2,003467311	1,736501661	1,794692629	2,276662093
<i>Nudt22</i>	2,24026529	1,904027921	1,41946601	2,164464141	2,16054117
<i>Map1lc3a</i>	2,673214361	2,286984788	1,577209816	1,299167526	2,349957387
<i>E130112N10Rik</i>	2,416658017	2,459459826	1,922839134	1,90231271	1,888495751
<i>Tpi1</i>	2,545468766	2,533506595	2,262308681	1,879258543	1,979888138
<i>Cd27</i>	2,409917619	2,630300198	1,853980381	2,164199961	1,668094122
<i>Gm20098</i>	2,095096799	2,100697603	2,120036952	1,873364285	1,899090743
<i>Lrig1</i>	2,134157095	2,153222841	2,064580864	1,897061546	1,915862585
<i>4930426L09Rik</i>	2,172918281	2,315247145	2,025876144	1,817662145	1,936197569

<i>Cstb</i>	2,140635421	2,127714022	2,019557763	1,701047396	1,853953944
<i>Nmnat1</i>	2,128296107	2,051202107	1,862262527	1,690220473	1,790542302
<i>Trib1</i>	1,953567215	2,175510879	2,058901926	1,800399148	1,736922336
<i>Parp11</i>	2,017207456	2,159999711	1,99378326	2,032790854	1,69920201
<i>Lig4</i>	2,308840786	2,177334414	1,975875116	1,9127006	1,586875175
<i>Pvr</i>	2,385623543	2,178412367	1,994154228	1,957767634	1,57616982
<i>4930578M01Rik</i>	2,529170542	2,140203787	2,090601937	1,881192666	1,711346194
<i>Rasgrp4</i>	2,281149495	2,21424005	1,97642822	1,690741397	1,491881195
<i>Pex26</i>	2,770887899	2,211014536	2,09373581	1,746051148	1,672272639
<i>Phospho1</i>	2,619482042	2,110104052	2,137837094	1,633188545	1,747490916
<i>Gphb5</i>	2,687925002	2,166599277	2,068034796	1,683427028	1,898381891
<i>Mtch1</i>	2,820262421	2,173113465	2,06103803	1,709364823	1,980346242
<i>Phf2</i>	2,629868811	2,098028627	2,138317375	1,786258461	1,985768803
<i>Kremen1</i>	2,553310778	2,127856382	2,142495935	1,770417223	1,921315595
<i>Gm3716</i>	2,540628944	2,060374473	2,124364594	1,851729114	1,885051117
<i>Gm11202</i>	2,612785668	2,061249087	2,12561892	1,859665174	1,914173363
<i>Mns1</i>	2,468529464	2,203698291	2,095730522	1,738894868	1,893027554
<i>1700067K01Rik</i>	2,560032724	2,114750245	2,074211105	1,997546625	1,977586459
<i>Gm11944</i>	2,511884326	2,096098472	2,042451334	1,882928	2,045621739
<i>Elmo3</i>	2,620631314	2,197539659	1,775651024	1,933175602	1,856973974
<i>Polr2i</i>	2,769688725	2,030540463	1,870371116	1,890767057	2,109971739
<i>Tff1</i>	2,578200593	2,67980022	0	1,909667548	1,450612726
<i>Gm5465</i>	1,881481397	1,812086005	-0,514909308	0,986995558	2,12689386
<i>Cd3d</i>	3,72135033	2,642718544	1,951635148	0,656964594	0,314294074
<i>Btg1</i>	3,215643525	2,234259387	2,092118202	0,458300489	-0,021090027
<i>Cdkn2d</i>	2,835469372	2,820707939	2,264722573	0	-2,694207149
<i>Gpsm3</i>	2,308319959	2,239473676	1,767791681	0,386357514	1,005898572
<i>H2afz</i>	2,459056487	2,293923259	1,480779803	0,452891761	0,929935406
<i>Actb</i>	2,837810082	3,220978288	2,64679654	1,009600412	1,179903441
<i>Cd52</i>	3,463529043	3,392233292	2,605542489	0,990403816	1,02321214

Cluster 2						
Intragenic 5hmC (log2 CMS-IP/Input)						
Gene symbol	DP	CD4 SP	CD8 SP	naïve CD4	naïve CD8	
<i>Gtf2h4</i>	3,829571294	2,851240615	2,822252996	2,286366543	1,827723371	
<i>Txnip</i>	3,298296734	3,203653401	2,686880799	2,254881797	1,745139052	
<i>Gm4598</i>	3,266397735	2,991067754	2,461198904	2,052332234	1,836883807	
<i>A430035B10Rik</i>	3,211383573	2,635951067	2,44144637	2,114946479	2,0914574	
<i>Aqp11</i>	3,633877947	2,630444408	2,514115627	2,035985212	1,896292515	
<i>Ptms</i>	3,220501332	2,734389709	2,379630917	2,342140575	2,105984762	
<i>Cd4</i>	3,050275063	3,008059734	2,40191443	2,629047565	1,939358881	
<i>S100a2</i>	2,965693147	2,736338541	2,272087192	2,388890075	1,617906423	
<i>Cd8b1</i>	4,364706804	3,514429575	3,13019994	2,654437876	1,843696882	
<i>Sit1</i>	3,692860291	3,277629592	3,117956223	1,89398216	2,656884992	
<i>Rnf167</i>	2,763127685	3,383393592	3,550011069	1,962229534	2,472304475	
<i>Zfp36</i>	3,248085857	3,622464646	3,100760605	1,457518866	2,257213344	
<i>Art1</i>	3,237222125	2,40444203	2,322106399	1,843248505	1,784687272	
<i>Zfp219</i>	3,002735245	2,280283308	2,319740529	1,99057874	1,881358171	
<i>Neu3</i>	2,858373773	2,280255111	2,203863477	1,817996376	1,859886223	
<i>Bcl2l1</i>	2,927430716	2,336021713	2,284814751	1,858324019	1,988702121	
<i>Xrcc6</i>	3,347993928	2,352893909	2,125597944	1,669090919	1,819316991	

<i>Fbxl12</i>	3,125367125	2,239164291	2,185233191	1,662928777	1,782933866
<i>Endou</i>	3,065379256	2,302615375	2,080573592	1,785438434	1,676725881
<i>Colq</i>	2,980444198	2,420354996	2,44143585	1,757176697	2,011049117
<i>Arsi</i>	3,396749953	2,573477887	2,418439841	1,626900921	1,863777133
<i>Naif1</i>	2,748450379	2,166050818	2,158311752	1,89437121	1,997295905
<i>Kcnh3</i>	2,805519691	2,146615988	2,254896503	1,845000671	2,00219835
<i>Gfi1</i>	2,848039024	2,126203389	2,295715127	1,935453406	2,155199305
<i>Lgals1</i>	2,749154451	2,211973708	2,47798525	1,810740199	1,990538798
<i>Eif4e3</i>	2,773315046	2,289877232	2,236746485	1,920955999	1,912435243
<i>Dhrs13</i>	2,725548955	2,297484596	2,25369808	2,054772739	1,918723969
<i>Ostm1</i>	2,922062237	2,376171461	2,224822554	1,974041132	2,136520502
<i>Ptrh1</i>	3,056089308	2,075145733	2,336443555	2,059254894	1,80776066
<i>1700019L03Rik</i>	3,069269175	2,061115159	2,117800775	1,857502998	1,854544168
<i>9130221H12Rik</i>	2,86209698	2,07535738	2,224428524	1,523307419	2,462836276
<i>Syde1</i>	3,020586309	2,071009482	2,315919951	1,799141492	2,354655565
<i>Rab42-ps</i>	2,690887355	2,418939175	2,429913723	1,745574913	2,27324283
<i>Olf314</i>	2,882297979	2,384212724	2,575465098	1,513092552	2,230795181
<i>Ict1</i>	2,735916982	2,212425424	2,581430688	2,153891332	2,737282257
<i>Trp53i11</i>	3,10702197	2,198296706	2,752831576	2,136998161	2,704037624
<i>Slc43a2</i>	2,895169987	2,236245237	2,493382968	1,902805706	2,499625131
<i>Cxcr4</i>	2,785525186	2,132874584	2,524868073	1,873860804	2,48183848
<i>Pptc7</i>	2,98486625	2,511736154	2,559015693	2,294528152	2,46045344
<i>0610005C13Rik</i>	3,249487231	2,426762026	2,419485647	2,349379504	2,432694542
<i>E330033B04Rik</i>	2,874974428	2,576524686	2,439135633	2,453574277	2,477623296
<i>Myl6</i>	2,882310882	2,461339971	2,467835301	2,463039988	2,59515503
<i>Prrt2</i>	2,89143757	2,365406109	2,425712588	2,295280629	2,305016158
<i>Dcdc2b</i>	3,63327439	2,62486521	2,402399953	2,203028392	2,371714969
<i>Lgals7</i>	3,405445385	2,742203017	2,465411029	2,268046133	2,426512969
<i>Gm10818</i>	2,881587147	2,726208401	2,448190839	2,313051146	2,58135475
<i>Paqr6</i>	3,332755863	2,63228541	2,751844735	2,042355823	2,510721945
<i>5031434O11Rik</i>	2,637939928	2,505915804	2,716846493	2,01178109	2,392462993
<i>Snai1</i>	2,869874623	2,421385366	2,718240954	2,006953149	2,029077636
<i>Fkbp2</i>	3,287091443	2,411641119	2,689217399	2,16256696	2,014352271
<i>2310007L24Rik</i>	3,388163414	2,538805632	2,803976976	1,966628994	2,203124987
<i>Gm15441</i>	2,997811263	2,969492429	2,747572138	2,39172616	2,619504886
<i>Arc</i>	3,015785376	2,831577719	2,757655207	2,354029685	2,571596964
<i>Fam71b</i>	3,315806213	2,886593005	2,63436328	2,168875989	2,670091076
<i>4930568K20Rik</i>	3,477362416	2,719256706	2,83927572	2,257643305	2,600502798
<i>Ccdc42b</i>	3,30400165	2,745361428	2,74078715	2,246197217	2,526157938
<i>Abi3</i>	3,177661322	2,882829353	2,921424124	2,150554909	2,531763232
<i>Gimap7</i>	2,815767026	2,764690566	2,801801487	2,396824918	2,465770185
<i>Tnfrsf1a</i>	2,792540665	2,701159114	2,780059094	2,31402439	2,643545086
<i>Tcf7</i>	3,528738174	3,055256698	3,094090435	2,432372116	2,603146581
<i>Aes</i>	3,511596696	2,991439855	2,985796276	2,537931994	2,679864657
<i>Cyb5</i>	3,03664976	2,849254883	2,967005053	2,55196824	2,691003628
<i>A630055G03Rik</i>	3,387555076	2,865206605	2,967052116	2,543919944	2,620430504
<i>Rnf166</i>	3,931308874	2,879337862	2,914027936	2,513113149	2,43479798
<i>B3gnt8</i>	3,42115395	2,737132509	2,766169544	2,350395383	2,364596501
<i>Ets2</i>	3,167695877	2,725939002	2,645466311	2,347864253	2,332601079
<i>1190002H23Rik</i>	3,271638936	2,855062913	2,767187318	2,335133842	2,400581244
<i>2210021J22Rik</i>	3,35132197	2,831727077	2,702369389	2,288382559	2,427409262

<i>Nron</i>	3,610330761	2,840617232	2,640274641	2,256451019	2,223595459
<i>A630019I02Rik</i>	2,803675958	3,007172487	2,775758348	2,48522714	2,185040883
<i>Cd2</i>	3,285874656	3,606246402	3,566430945	2,426654807	2,895431537
<i>Leprel4</i>	3,914920572	3,175761077	3,073753638	2,378448464	3,022233791
<i>Gm10560</i>	3,020647145	3,255669679	3,285656435	2,250224342	3,271437375
<i>Ets1</i>	3,171474143	3,297459216	3,163577247	2,275174346	2,72359941
<i>Rab3a</i>	2,822566127	2,925600857	2,628942726	2,253205646	2,95747805
<i>D830046C22Rik</i>	2,497589278	3,227930681	3,150441612	2,095739341	3,138666357
<i>Ccr7</i>	2,609909886	3,786086608	3,65646356	2,396503143	2,992800323
<i>Ccnd3</i>	2,961188871	2,595098952	2,74067129	2,68735605	2,739643272
<i>Btg2</i>	3,108346384	2,854616671	2,694439726	2,616029626	2,579912871
<i>Kctd2</i>	3,845960009	2,831125874	2,793328252	2,507690869	2,836812778
<i>Tspyl4</i>	3,009420767	2,842303623	2,764263731	2,560718913	2,799992734
<i>Cldn4</i>	4,291652473	2,894035872	2,580714355	2,605079524	2,898713765
<i>Pik3ip1</i>	3,013962956	2,920824043	2,922457644	2,556304319	2,803056929
<i>Fxyd5</i>	2,904855935	2,923148541	2,923267433	2,650256802	2,809271936
<i>Rasl11b</i>	3,080118758	2,893025152	3,078662999	2,627951892	2,896799012
<i>Bach1</i>	3,477099475	3,121540433	3,136720374	2,718842677	2,904360277
<i>Zfp408</i>	3,640883796	3,271750667	3,243531745	2,736369907	3,233022116
<i>Fam189b</i>	3,056928833	2,717820946	2,97150393	2,911997643	2,851036339
<i>Adat3</i>	2,922483747	2,701537106	2,933307259	2,889470822	3,303755273
<i>Cnp</i>	3,310799845	2,805570037	3,297203467	3,145337974	3,479403942
<i>Nt5c</i>	2,785691112	2,698349102	3,410411167	3,100673809	3,290927065
<i>A1467606</i>	3,213129284	3,086750411	3,282096326	2,920159441	2,776255371
<i>Rhoh</i>	2,893263662	3,363866152	3,320744134	2,843583004	2,838563373
<i>Ldhd</i>	3,687604715	3,21744448	2,84397557	2,915964002	2,826669384
<i>Kcnn4</i>	3,049232059	3,156884846	3,052418599	2,863410635	2,916266213
<i>Nfkbia</i>	3,411457419	3,888200604	3,727805507	2,859291894	3,213071424
<i>4930478L05Rik</i>	3,773210543	3,405201059	3,267536907	2,920374039	3,313845922
<i>Gm4814</i>	3,708431539	3,738442567	3,657609664	2,927721689	2,97597483
<i>Psmb8</i>	3,079054522	3,119852681	2,94196845	2,920749173	3,08182695
<i>Fam78a</i>	3,363679218	3,729696542	3,926680521	3,591466543	2,915189822
<i>Olfr1509</i>	3,378502243	3,098471655	3,455199565	3,209990629	2,959368144
<i>Zbtb12</i>	3,744921815	3,944718465	4,019980684	3,706504026	3,689297691
<i>Gimap1</i>	3,106484897	3,201494066	3,150093331	3,113218996	3,415324542
<i>Hmha1</i>	3,053686182	3,61493313	3,760698886	3,518670677	3,876278251
<i>Bcl11b</i>	3,703996995	4,079250686	4,179232103	3,622664356	3,810242936
<i>Sept1</i>	3,484228858	3,404406679	3,383582853	3,004958961	3,176701395
<i>Gm590</i>	4,399676598	4,335665836	4,214502389	4,397793542	4,279187641
<i>Hsdl1</i>	4,27194872	3,63485913	3,466603029	3,115984594	3,141608663
<i>Als2cl</i>	3,128320285	3,199933748	3,427062266	3,129837627	3,372924051
<i>Gm13031</i>	3,366664157	3,160769031	3,249069727	3,189986194	3,127736245
<i>G0s2</i>	3,347031763	4,083509164	4,348524341	4,476509359	3,940258791
<i>Vamp1</i>	3,673590436	3,48029811	3,492674877	2,996282796	3,135428382
<i>Ezr</i>	3,023561033	3,086311025	3,308675243	2,980239759	3,331535431
<i>Cd247</i>	2,863335249	3,331368593	3,288767686	2,901177332	3,120965412
<i>Satb1</i>	2,879602716	3,618363718	3,68665909	3,287939422	3,381673973
<i>Cd8a</i>	5,155248197	4,049708407	3,578299799	3,197742908	2,50159727
<i>2210010C17Rik</i>	3,642199568	3,331356647	3,00010396	2,816402068	2,613824575
<i>Gm13032</i>	2,969486258	3,107021747	2,627220448	3,217917982	2,42248588
<i>H2-Oa</i>	2,581936406	2,464487691	3,016423548	2,427545121	2,980973168

<i>A430088P11Rik</i>	2,594862812	2,484347132	2,929083084	2,660980751	3,38128895
<i>Prex1</i>	2,504287767	2,514618844	2,751399425	2,508248771	2,899829355
<i>Sema4d</i>	2,448329953	2,477366744	2,859264952	2,602392772	2,919837061
<i>Ppp1ca</i>	2,800427285	2,460429207	3,052911506	2,791914672	2,926304569
<i>Il4ra</i>	2,760510699	2,583939706	2,552873115	2,607669157	2,803931045
<i>Slc25a1</i>	2,671537829	2,653189581	2,502968217	2,567016689	3,153858635
<i>4930583K01Rik</i>	2,783169735	2,561631579	2,703556567	2,690433965	3,338688607
<i>N4bp3</i>	3,21545865	2,457873787	2,707186907	2,11229787	2,77196493
<i>Slc50a1</i>	2,98864926	2,534192532	2,842582194	2,264947017	2,847265273
<i>Esrp2</i>	3,221675102	2,384834972	2,635024253	2,295483068	3,036995593
<i>Adrbk1</i>	2,823417299	2,451685816	2,669970264	2,449646041	2,787362405
<i>E2f2</i>	2,748594679	2,387198734	2,732655867	2,453372017	2,886196451
<i>Pnma1</i>	2,801064524	2,188426853	2,803406995	2,421661714	2,745677827
<i>Tlr12</i>	2,878289135	2,553603381	3,106594367	2,367117167	2,988391939
<i>Gse1</i>	3,011061371	2,677074862	2,920175528	2,402061551	2,758157427
<i>Taf10</i>	2,713079983	2,649293699	2,824878748	2,373220879	2,763084966
<i>Ikzf3</i>	2,623243181	2,586293905	2,893403306	2,38024368	2,779935093
<i>Slc48a1</i>	2,653280628	2,652902127	2,910929241	2,169380631	2,825984938
<i>Zmynd10</i>	2,575328523	2,241808502	2,31394081	2,580394118	2,784112667
<i>Klf3</i>	2,603089796	2,265863358	2,546346491	2,562209469	3,237792937
<i>Fam89b</i>	2,569247087	2,339070179	2,565532489	2,584658056	2,688878197
<i>AI413582</i>	2,687618483	2,170662453	2,633687578	2,499614123	2,648681809
<i>Orai2</i>	2,407731361	2,069179109	2,566979725	2,457033631	3,011162503
<i>Rbm15b</i>	2,555147402	1,973517718	2,645803221	2,444642316	3,006856011
<i>Emp3</i>	2,958628534	2,181516335	2,549679595	2,659832986	2,62281332
<i>Pip5k1c</i>	2,473025146	2,365210739	2,419596099	2,314794833	2,575157273
<i>Bysl</i>	2,481868537	2,406107347	2,333561265	2,234516479	2,519375958
<i>1700097N02Rik</i>	2,542460337	2,538885682	2,411015116	2,271778012	2,682893149
<i>Hps6</i>	2,457497548	2,361451357	2,305707089	2,401928726	2,696320141
<i>Trim8</i>	2,416170533	2,328171404	2,521305523	2,300072426	2,725521477
<i>Zc3h12a</i>	2,410347209	2,282227268	2,540185725	2,418492744	2,710012385
<i>Gigyf1</i>	2,560450695	2,402919241	2,583327756	2,295303856	2,791985836
<i>Igtp</i>	2,333063103	2,571355273	2,513885402	2,239690848	2,355566046
<i>Pycr2</i>	2,390176454	2,323876171	2,48646963	2,358367917	2,373028029
<i>Plscr3</i>	2,282648483	2,516340478	2,480899081	2,434929932	2,526060986
<i>Egln2</i>	2,204865717	2,503345946	2,647333766	2,507719725	2,469185938
<i>Uck2</i>	2,32928204	2,399036949	2,670015369	2,344205739	2,568743421
<i>Ypel3</i>	2,531915549	2,622437977	2,714511121	2,3176513	2,500835285
<i>Kdm6b</i>	2,40133504	2,586636993	2,696628109	2,31727711	2,562251995
<i>Gm15880</i>	2,480476442	2,575300423	2,615917606	2,43727581	2,559601757
<i>Pxn</i>	2,442756597	2,510645684	2,61664772	2,365046614	2,61383541
<i>Nsmce1</i>	2,549519915	2,685706352	2,690487365	2,482659037	2,646745747
<i>Rem2</i>	2,577105782	2,725526677	2,629375368	2,369342513	2,683403985
<i>Glb1</i>	2,353030944	2,670753331	2,561791798	2,414712981	2,429936164
<i>Nrip1</i>	2,32304414	2,720877225	2,68147524	2,501383423	2,386441345
<i>Tnk2</i>	2,298001885	2,662941316	2,725782847	2,364909335	2,630478469
<i>Aif1</i>	2,285000833	2,558282764	2,947682744	2,293923863	2,620793606
<i>Fam105a</i>	2,319044571	2,542306192	2,735267707	2,589223751	2,881085583
<i>Akna</i>	2,304328674	2,529004942	2,766136108	2,65168419	2,872779623
<i>Def6</i>	2,332086332	2,623229561	2,766533468	2,645102418	2,836010729
<i>Grk6</i>	2,246007676	2,540878338	2,652644239	2,589728917	2,91498578

<i>Ldlrap1</i>	2,395882138	2,39324298	2,697283534	2,734937689	3,108551498
<i>Rnf113a2</i>	2,293188279	2,558097317	2,725090091	2,404374304	3,251657675
<i>Il17c</i>	2,363333651	2,517408961	2,862092107	2,395726218	3,419973274
<i>4930404N11Rik</i>	2,25114474	2,207606054	2,83033291	2,430898264	3,227025885
<i>Pnmt</i>	2,205020757	2,336923463	2,785611829	2,411268388	3,065450839
<i>Mxd3</i>	2,392189611	2,302610305	2,814012248	2,369812957	2,988920975
<i>Armc7</i>	2,314853742	2,401126677	3,061587453	2,378983858	3,003728433
<i>Tmem66</i>	2,198918744	2,237843415	2,84679767	2,425788668	2,802671967
<i>Srebfl1</i>	2,358965436	2,376166408	2,659378898	2,171474704	2,757625856
<i>Gm962</i>	2,369096222	2,38618934	2,78240311	2,179351052	2,922708519
<i>D5Erttd605e</i>	2,47468567	2,682848301	2,578992354	2,194805833	3,074904114
<i>Socs3</i>	2,59964547	2,723263044	2,894512737	2,919260071	4,07397012
<i>Gtf2i</i>	2,466504768	2,793077548	3,134924511	2,816425079	3,162716033
<i>Ubxn11</i>	2,795642967	2,699512027	2,984802049	2,696259187	2,938044642
<i>Rara</i>	2,776419349	2,817917896	2,993722366	2,656310472	3,078822697
<i>Gpr183</i>	2,588577829	3,379796969	2,985199642	2,676397204	2,945613577
<i>4930417013Rik</i>	2,478150362	3,131967316	3,031549127	2,616859454	2,902811253
<i>Gnai2</i>	2,599508073	2,885747626	2,921109399	2,75451206	2,883247218
<i>Gm9054</i>	2,695388394	3,376411395	3,74064222	2,810750893	3,285862668
<i>Rbm38</i>	2,722770473	3,161789127	3,263023387	2,754053903	3,201786332
<i>Hmga1</i>	2,723714926	2,93539474	3,175123077	2,624628696	3,006329007
<i>Hmga1-rs1</i>	2,730499878	2,949240716	3,182065235	2,623118303	3,006366838
<i>Rgs10</i>	2,637171237	3,087930176	2,83056452	2,724099086	2,707520792
<i>Dusp10</i>	2,58019481	3,113091231	2,8787521	2,725282765	2,789147872
<i>Hsbp1</i>	2,547864197	2,945465076	3,065932045	2,905485417	2,65387116
<i>Znrf1</i>	2,780260982	2,938694028	2,986819481	2,688551408	2,648078245
<i>Rab3ip</i>	2,534321079	3,065190457	3,258665462	3,223182715	3,376098928
<i>Vps37b</i>	2,516824523	3,418317853	3,688400662	3,356134296	3,749747026
<i>6430527G18Rik</i>	2,574909782	3,843740725	4,175225736	3,99620968	4,397273004
<i>Tap1</i>	2,445938979	3,103542023	3,325538301	3,233951423	3,775154354
<i>Mrpl52</i>	2,538038837	2,980123839	2,841915589	3,105594611	3,360181556
<i>Itpkb</i>	2,340955831	3,143597654	3,252734866	2,996573049	3,205419154
<i>Mex3b</i>	2,345209032	3,149301547	3,284495187	3,446009524	3,557269212
<i>Lef1</i>	2,388048049	3,835977566	3,871258002	3,512727276	3,848958009
<i>Lbh</i>	2,315598859	3,078737994	3,262165467	2,946625224	3,116174088
<i>Rac2</i>	2,40086424	2,905066386	3,104932179	2,901297617	3,079286222
<i>Fam176b</i>	2,599992238	2,903669087	3,08796945	3,0373575	3,316323236
<i>Ucp2</i>	2,621155205	2,855280217	2,972768814	3,012837103	3,112509215
<i>Klf13</i>	2,700469218	2,866862961	3,282490015	2,913907937	3,270361295
<i>Lat</i>	2,729326767	3,32130541	3,429354666	3,034984615	3,332174638
<i>E030018B13Rik</i>	2,693235672	3,338711108	3,682627011	3,506660787	3,519803253
<i>Nab2</i>	2,633727581	4,344160851	4,039224526	3,511261616	3,623417649
<i>Zbtb22</i>	2,654998795	3,223710059	3,478276105	3,680985437	3,636478701
<i>Eid3</i>	2,603161325	2,761364698	2,674491404	3,085710827	3,058823391
<i>Prr24</i>	2,364731485	2,998758365	2,871676899	2,513132095	2,722529596
<i>A430093F15Rik</i>	2,436907717	2,977599308	2,784074603	2,630332438	2,587041639
<i>Itk</i>	2,26742787	2,874264526	2,858374502	2,412736565	2,615949878
<i>Ppp1r16b</i>	2,331608303	2,763495569	2,867724634	2,45135061	2,666927691
<i>Rinl</i>	2,513140923	2,70635092	2,812950144	2,661006332	2,701604586
<i>D16Erttd472e</i>	2,577135489	2,765709794	2,855198304	2,616581827	2,856684272
<i>Mob3a</i>	2,417340954	2,677733309	2,848019543	2,435104349	2,815268804

<i>B9d2</i>	2,474192991	2,774908453	2,728093843	2,47643936	2,882055821
<i>Tapbp1</i>	2,508589165	2,842950437	2,846588697	2,587703607	3,077877244
<i>Rps6kb2</i>	2,372185531	2,834409445	2,869190733	2,622987456	3,032353855
<i>Cd3e</i>	2,502530145	2,751374518	3,060244966	2,64476621	3,065910173
<i>Selp1g</i>	2,365245206	2,726784735	3,460540206	2,6352879	3,165425802
<i>Scd2</i>	2,310896309	3,318723878	3,193778577	2,791784714	3,02716568
<i>Zap70</i>	2,283827055	2,902008292	3,0556285	2,651135758	3,048559046
<i>Nacad</i>	2,160740612	2,692259338	2,816487607	3,007363155	3,127784273
<i>Zfp703</i>	2,14776527	2,772272993	2,924917623	3,109659619	3,308725348
<i>Psemb9</i>	2,025108667	2,783214575	2,982746056	3,028376385	3,32694789
<i>Tubb5</i>	1,970939074	2,733908911	3,16571356	2,919063591	3,472339524
<i>Sept9</i>	2,225631927	2,754868467	2,906397563	2,720990697	2,923339317
<i>Cbx4</i>	2,215748992	2,783016325	2,87903755	2,702992679	3,051919061
<i>Anp32a</i>	2,098006667	2,741411997	2,836246133	2,80733114	2,926275138
<i>Ddit4</i>	2,095286164	2,758999495	2,935815463	3,061421306	2,534429683
<i>Gm5547</i>	2,257693655	2,690673931	3,07950242	3,057590132	2,528849735
<i>Cyba</i>	2,244456133	2,483858368	2,904644315	2,539785036	3,048223863
<i>A530088E08Rik</i>	2,303413383	2,582807217	3,260804196	2,58397964	3,005787153
<i>Gtpbp6</i>	2,255300349	2,575868659	2,828863965	2,7527478	3,209614535
<i>Mvd</i>	2,242352338	2,561063205	2,952558068	2,761937484	3,011320861
<i>Tmc6</i>	2,081342689	2,5810489	2,96086293	2,584372404	2,958266735
<i>Grap2</i>	2,032948676	2,5755143	2,94198813	2,601696099	3,197908359
<i>Gm128</i>	2,129914175	2,377407109	2,984446881	2,975792759	3,264954698
<i>Foxk1</i>	1,146471419	2,440760112	2,771795283	2,842750912	3,112458468
<i>Tgfbr2</i>	1,297448054	2,501811615	2,786105519	2,80665639	3,021583765
<i>Ddx5</i>	1,123184075	2,354129314	2,733732109	2,591111332	2,962479731
<i>Zc3hav1</i>	1,155460781	2,456551267	2,827545898	2,547154378	2,950438304
<i>Myl12a</i>	0,982222579	2,482083831	3,135272546	2,806353767	3,287088908
<i>Aip</i>	1,11962978	2,585225795	2,72035899	2,749771765	2,693704533
<i>Tuba4a</i>	1,149810575	2,62414013	2,846073265	2,645025845	2,638299701
<i>Wdr46</i>	0,889489562	2,59276915	2,482676482	2,822451915	2,724379501
<i>H2-T24</i>	0,998778531	2,726759015	2,540605692	3,042389608	2,828907229
<i>Zfp706</i>	0,787975837	2,341699033	2,540826852	2,461796746	2,593019667
<i>Skil</i>	0,687782199	2,462388396	2,496437764	2,560869326	2,55525154
<i>Pglyrp2</i>	0,966951093	2,585274786	2,402054827	2,512631089	2,674591381
<i>Arhgap30</i>	0,828275251	2,514108324	2,75489987	2,569582184	2,84846227
<i>Nfkbiz</i>	0,938774983	2,423080761	2,599536809	2,522843565	2,859849151
<i>Spsb1</i>	0,921396819	2,462327259	2,832833374	2,543007676	2,672352237
<i>Ptp4a2</i>	1,028100835	2,433986084	2,742597039	2,485287851	2,699955028
<i>Atxn7l3</i>	0,898599121	2,263106875	2,531605454	2,610051056	2,640144564
<i>Fam46c</i>	0,776031457	2,198017755	2,306456591	2,577445665	2,56241853
<i>Enc1</i>	0,983487488	2,174237634	2,341794085	2,711549659	2,768639601
<i>Med11</i>	0,890815621	2,314497018	2,324263887	2,820715331	2,720153959
<i>Clta</i>	0,84776774	1,969531773	2,635763692	2,312688547	2,774927273
<i>Rtp4</i>	0,662960366	2,117693515	2,663927647	2,403535377	2,723698037
<i>Tmem20</i>	0,669946405	1,881614757	2,583310922	2,545495903	2,901989304
<i>Ctsw</i>	0,833083929	2,105732935	3,333710916	2,292697443	3,435283319
<i>Irf9</i>	0,940996816	2,34325966	2,631868562	2,922700793	2,950572338
<i>Amigo2</i>	0,938252017	2,063317527	2,526509388	3,022414045	3,266237711
<i>Lrrc8a</i>	1,209666329	1,995673557	2,892106918	2,858696125	3,312845945
<i>Zfp280b</i>	1,475010659	2,556567845	2,608785339	2,542743382	2,68329899

<i>A130010J15Rik</i>	1,547417018	2,533168602	2,578822588	2,617402989	2,74785361
<i>Ywhab</i>	1,413641892	2,463240682	2,502204436	2,577751434	2,840590742
<i>Ado</i>	1,581463001	2,707214379	2,602998915	2,549156734	2,907207402
<i>Ptbp1</i>	1,446360626	2,487656654	2,747819539	2,650301026	2,882262669
<i>Stk24</i>	1,389438948	2,483552477	2,776855547	2,665128394	2,90761339
<i>Srsf3</i>	1,469548572	2,556943734	2,847743023	2,600189422	2,889656961
<i>Zbtb1</i>	1,412474645	2,479018283	2,744442869	2,499349453	2,869893422
<i>Tmbim6</i>	1,411628863	2,382959691	2,824287097	2,646345049	2,802339848
<i>Myc</i>	1,635145764	2,481897791	2,789932487	2,615062957	2,860672798
<i>Mbd2</i>	1,571605378	2,456727333	2,769558454	2,523693348	2,696115049
<i>Rcan3</i>	1,437720354	2,551353472	2,409101273	2,526570303	2,316951406
<i>Dusp1</i>	1,556456765	2,573992854	2,475000153	2,648662484	2,297680313
<i>Cmtm6</i>	1,604715525	2,5511804	2,417416369	2,531842229	2,541996491
<i>Gimap4</i>	1,618748711	2,526978522	2,526559038	2,709568236	2,445501778
<i>Mepce</i>	1,647207234	2,364677911	2,594136558	2,781254802	2,345266501
<i>Arf3</i>	1,094110711	2,372787662	2,599971735	2,134882422	2,530583961
<i>Itgb2</i>	1,156351899	2,413760718	2,474790644	2,206991075	2,400440421
<i>Ywhaz</i>	1,098461788	2,611378678	2,638521199	2,26229274	2,501979096
<i>Gimap3</i>	1,075931651	2,438658419	2,519183206	2,223971905	2,160553535
<i>Grap</i>	1,531084321	2,46669438	2,448613298	2,298050591	2,476575555
<i>Cela1</i>	1,483475881	2,382030506	2,386309013	2,219458959	2,441515874
<i>Scamp3</i>	1,434754953	2,455636566	2,449767346	2,237224338	2,603624247
<i>Myliip</i>	1,389044922	2,477817513	2,27245902	2,396023312	2,43711911
<i>Prkcq</i>	1,24512522	2,467434524	2,538416524	2,41259232	2,573402513
<i>Zbed6</i>	1,259244434	2,323495784	2,43285637	2,321237876	2,55258076
<i>Ldb1</i>	1,210402316	2,398943438	2,480748693	2,473579189	2,388923048
<i>Emg1</i>	1,436797891	2,339789049	2,558692668	2,447438629	2,512375737
<i>Siah1a</i>	1,24219263	2,328235752	2,704274218	2,24939625	2,548761949
<i>Arrb2</i>	1,224252036	2,395681864	2,895278366	2,366572328	2,669762127
<i>Mettl7b</i>	1,091641104	2,383222967	2,808578076	2,483027331	2,436078976
<i>Kbtbd2</i>	1,163687625	2,346238078	2,58817455	2,388156202	2,761181948
<i>Clk1</i>	1,055367272	2,315727424	2,541993901	2,340061658	2,674091549
<i>Ddx6</i>	1,094761623	2,259265888	2,554494131	2,452313304	2,864645222
<i>Tmed1</i>	1,095623057	2,169671019	2,660552815	2,291907777	3,147131839
<i>Vasp</i>	1,141671638	2,254613482	2,624227836	2,210987957	2,877123603
<i>Psme1</i>	1,200392736	1,904018565	2,814576093	2,492527112	3,141909297
<i>Tpst2</i>	1,380385598	2,061569321	2,84979335	2,215239554	3,12484936
<i>Dvl2</i>	1,428776779	2,029648182	2,651622511	2,377486237	2,927763222
<i>Twf2</i>	1,461199539	2,064380927	2,642567383	2,267442738	2,842389013
<i>Panx1</i>	1,276088446	2,127070273	2,557474059	2,303251101	2,788443981
<i>Gli1</i>	1,278039989	2,154443081	2,609094359	2,289387533	2,830482669
<i>Stk10</i>	1,538813137	2,087628009	2,564865016	2,535987928	2,877387341
<i>Ppp2r5a</i>	1,535499284	2,094957575	2,468274663	2,478583946	2,754416318
<i>Prkch</i>	1,63441851	2,237988838	2,665982044	2,473806154	2,876357507
<i>Ccdc88c</i>	1,639818949	2,329698327	2,604333971	2,507091882	2,799586629
<i>Npc2</i>	1,573237794	2,255148092	2,794263307	2,378767308	2,812792098
<i>Ankrd11</i>	1,595601125	2,291036681	2,541208976	2,304408936	2,644639822
<i>Elovl5</i>	1,572220892	2,206603309	2,54895766	2,346994534	2,728238916
<i>Ggn</i>	1,602448344	2,269105301	2,57499312	2,216461293	2,85536047
<i>Tmem189</i>	1,674767073	2,067086631	2,521415164	2,091750366	2,680450268
<i>Map4k2</i>	1,604414143	2,045108152	2,736191982	2,16969709	2,660718401

<i>Rab35</i>	1,461608886	2,147523406	2,49193663	2,160922497	2,590738927
<i>Rmnd5b</i>	1,436892926	2,181941626	2,45128904	2,242494663	2,509235963
<i>Cecr6</i>	1,44643066	2,198797133	2,596874256	2,195206418	2,523935453
<i>Cd37</i>	1,481587235	2,271814021	2,385471041	2,788299637	2,842635614
<i>Rpl13a</i>	1,522887093	2,047663369	2,32643176	2,972959509	3,493694236
<i>Nfe2l2</i>	1,512724897	2,186084513	2,681195727	2,699751723	2,9353225
<i>Cdc42se1</i>	1,528618293	2,20481394	2,62683379	2,960899709	3,135190348
<i>Thap3</i>	1,433914214	2,108133811	2,288686544	2,669540256	2,689248688
<i>Eef2</i>	1,403201369	1,954094326	2,307106892	2,662387061	2,829222276
<i>Arhgef1</i>	1,23806275	2,136109772	2,419992799	2,567918856	2,725058593
<i>Frmnd8</i>	1,365272828	2,12172655	2,442498262	2,5122427	2,681639301
<i>Cd79a</i>	1,19234886	2,242654539	2,564564373	2,665855503	2,820374491
<i>Aprt</i>	1,755655581	1,967492226	2,736165613	2,559389953	3,316951915
<i>Dtx1</i>	1,810037935	1,984424374	2,445073404	2,710791913	3,298600149
<i>Irf2bp1</i>	1,692244937	1,89034889	2,385021034	2,384290414	3,292581266
<i>Rpl18</i>	1,710803568	2,071185703	2,3062235	2,393248462	2,955064898
<i>Eif4a2</i>	1,320758134	2,710142227	2,957460789	2,652195771	2,963872345
<i>Chchd10</i>	1,411466882	2,685989684	3,033402273	2,692898017	2,842013975
<i>Arid1a</i>	1,464301245	2,695356039	2,854809308	2,601653008	2,776823549
<i>Cdk17</i>	1,479361025	2,657199522	2,789736512	2,527882386	2,853364995
<i>Itm2b</i>	1,585882247	2,727379235	2,779127927	2,721226202	2,828755139
<i>Etv3</i>	1,488576517	2,860034533	2,796413128	2,750793565	2,813817326
<i>Srsf9</i>	1,321205851	2,842916453	2,813938363	2,783231154	3,226226346
<i>BC024582</i>	1,254101868	2,748330437	2,701167215	2,832280291	2,928044613
<i>Gramd1a</i>	1,414043079	2,622235685	2,767899915	2,787995593	3,272386471
<i>Cd68</i>	1,578835201	2,887520711	3,059784072	2,49420398	3,502171974
<i>U2af1l4</i>	1,449650018	2,963721239	3,232302045	2,70667802	3,541128654
<i>Zfp281</i>	1,33214927	3,173109279	2,789850103	2,445045031	2,866377886
<i>Zfp36l1</i>	1,262703333	4,055934919	3,873741735	3,350449767	3,659360973
<i>B3galt4</i>	1,35616481	3,295089249	3,342967456	3,178998199	3,979971977
<i>Isg15</i>	1,153451103	2,995716033	3,373678743	3,806484762	3,177173687
<i>Gpr18</i>	0,905570096	3,570454413	3,794317792	3,49737786	4,055207518
<i>Tmem149</i>	1,025230617	2,948674931	3,425587645	2,975665712	3,339048697
<i>Cd7</i>	0,559154821	2,608282253	2,916815117	2,699129519	3,158840969
<i>S1pr1</i>	0,684437676	3,086182189	3,226308209	2,468793924	2,632414594
<i>4930502E09Rik</i>	2,164695808	2,40156596	2,724662519	2,760624491	3,407066136
<i>Plcxd1</i>	2,127681237	2,350113682	2,794676595	2,744694128	3,163798747
<i>Il21r</i>	2,147281299	2,265114868	2,900514975	2,626913727	3,030913421
<i>Coro1a</i>	2,068053347	2,203951265	2,714816872	2,724926702	2,961254028
<i>Pygm</i>	2,084264003	2,202905662	2,652276415	2,554891437	3,043762599
<i>Coro1b</i>	2,045640866	2,252417453	2,474961301	2,70301171	3,134168131
<i>Mfsd10</i>	2,053657741	2,267347252	2,368312233	2,577621713	2,916426731
<i>2410016O06Rik</i>	2,044933706	2,068722042	2,475879714	2,687961618	2,866060208
<i>Ncf1</i>	1,984506988	2,443792715	2,755247056	2,402788076	3,151118925
<i>Fam107b</i>	2,107391216	2,394709532	2,661100517	2,419351674	2,926139121
<i>Laptm5</i>	2,118707048	2,676633846	2,714971156	2,445419843	2,910288404
<i>Cd3g</i>	2,014776582	2,325427898	2,648674223	2,350716756	2,71607583
<i>Ptpn6</i>	1,981280329	2,440720639	2,73901741	2,327899969	2,727515503
<i>Keap1</i>	1,94802541	2,394496568	2,593993703	2,358439552	2,84234266
<i>Spns1</i>	1,970065964	2,481291774	2,495731873	2,467016254	2,776368082
<i>Gpr132</i>	1,953805654	2,467938361	2,471974553	2,376937068	2,695792059

<i>Wasf2</i>	2,054797169	2,459133739	2,554207112	2,394786222	2,669932104
<i>Cyth4</i>	1,819365454	2,229832151	2,752677792	2,277589239	2,845868061
<i>Acp5</i>	1,946119409	2,203561466	2,73440764	2,244390231	3,468904553
<i>Eef1a1</i>	1,863517037	2,27018953	2,748759708	2,408447425	3,080644538
<i>Sbk1</i>	1,908338252	2,246334887	2,686102331	2,461379887	2,903437417
<i>Hcst</i>	1,607506992	2,089395767	2,953219161	2,560775665	3,010741747
<i>2610019F03Rik</i>	1,679476806	2,175346575	3,223038572	2,573563425	3,2251831
<i>Zbtb7a</i>	1,696805696	2,215827253	2,802458318	2,513264791	3,232227761
<i>Sik1</i>	1,973310792	2,049833914	2,775751169	1,895982658	2,880215837
<i>Hdac7</i>	2,027213393	2,113943847	2,780858158	1,923683561	2,712238984
<i>Ly6g5b</i>	1,871664098	2,072315486	3,243388023	2,07735089	3,198226681
<i>Pmepa1</i>	1,736736936	1,969467319	2,923992652	2,094302244	3,003300791
<i>Grifin</i>	2,062222979	1,983609333	2,587257083	1,972952539	3,31249407
<i>Rras2</i>	1,805592438	2,029090994	2,658725628	2,15621519	3,061603316
<i>Cirbp</i>	1,984231695	2,016968989	2,568255051	2,389108793	3,418753614
<i>Bcl9l</i>	2,025181821	1,822678777	2,610607269	2,279173685	3,125049021
<i>Sh2b1</i>	1,770555287	2,359393941	2,508139313	2,345113484	2,42321701
<i>Snx18</i>	1,669565369	2,494773197	2,442413329	2,34751213	2,434170909
<i>Shisa5</i>	1,541455702	2,322879966	2,526915526	2,227880746	2,395031626
<i>Dedd2</i>	1,772365909	2,449468155	2,324980946	2,169082672	2,543714142
<i>Mlec</i>	1,842288584	2,518969897	2,425153689	2,133479556	2,398357245
<i>Tnfaip3</i>	1,658952045	2,510511993	2,672537864	2,135722476	2,595432609
<i>Elk3</i>	1,663061329	2,481126911	2,562391039	2,185458437	2,51913576
<i>Arf5</i>	1,585634606	2,691135067	2,632536092	2,280275832	2,54285575
<i>Vezf1</i>	1,699371951	2,565706861	2,589941479	2,303907489	2,587719211
<i>Ikzf1</i>	1,835055046	2,499111285	2,645998041	2,336473256	2,549555587
<i>Slc35b2</i>	1,713779336	2,402482078	2,382739546	2,373184622	2,703077811
<i>Gltp</i>	1,671678541	2,316378319	2,508042642	2,389212314	2,763785059
<i>Tle3</i>	1,673670108	2,372517996	2,521963861	2,407102978	2,657029718
<i>Rbfa</i>	1,642009906	2,415782909	2,551579662	2,469885432	2,622074863
<i>Sh2d2a</i>	1,63674509	2,407686065	2,616099718	2,359613616	2,586867081
<i>Gm20605</i>	1,818081047	2,204112988	2,497792431	2,32711689	2,572349058
<i>6530439I21</i>	1,742194322	2,184177366	2,533599355	2,259582282	2,59482976
<i>Elf1</i>	1,635872329	2,262431216	2,485012841	2,275020597	2,51947516
<i>Jak1</i>	1,726558473	2,287596825	2,517909224	2,259164805	2,510929075
<i>Kif21b</i>	1,773864665	2,328888197	2,350328053	2,29745189	2,529793416
<i>Pik3r1</i>	1,840052591	2,325680843	2,372056783	2,355172657	2,606325417
<i>Bcdin3d</i>	1,774550458	2,213708289	2,364079603	2,366537012	2,579421096
<i>Tob1</i>	1,864476485	2,281097631	2,486834242	2,251816803	2,64331567
<i>Rcc2</i>	1,853171586	2,296271868	2,47633479	2,311417485	2,722367545
<i>Fmn1l</i>	1,875820121	2,351301815	2,584500138	2,251761076	2,680346435
<i>Zfp513</i>	1,767579054	2,353053802	2,338146613	2,179383416	2,790060496
<i>1110038F14Rik</i>	1,653499821	2,322870555	2,154146292	1,997472877	2,783931548
<i>Ubc</i>	1,525259902	2,38767694	2,279624788	2,064584172	2,599817539
<i>Fam58b</i>	1,679484629	2,609211928	2,417257108	2,174129084	2,951270303
<i>Tctex1d4</i>	1,504973271	2,53358072	2,017392427	2,396836972	2,911720358
<i>Ptger1</i>	2,009085793	2,436370047	2,368050489	2,4543005	3,172145587
<i>Nme3</i>	1,864540947	2,453866364	2,132685808	2,429250245	3,340346505
<i>Tbx6</i>	1,724362346	2,490693069	2,493173512	2,658270352	2,99428266
<i>Slc39a7</i>	1,713189664	2,515637914	2,2555447	2,577727676	3,01838312
<i>Gm15706</i>	1,927200967	2,506574139	2,335795939	2,77253692	2,610622299

<i>Krtcap3</i>	2,156453739	2,575152939	2,224379811	2,685047245	2,612909294
<i>Vamp2</i>	2,135082039	2,291651222	2,198241253	2,598884877	2,588564708
<i>Cdca4</i>	2,09934855	2,378506567	2,527118779	2,485059847	2,517197802
<i>Lck</i>	2,166358232	2,356983744	2,612194636	2,479076998	2,533687072
<i>Dgkz</i>	2,017849868	2,518931804	2,571669743	2,487349757	2,540352424
<i>Cited2</i>	2,164952744	2,48276366	2,496905096	2,595544162	2,252981719
<i>4933411E08Rik</i>	1,936624271	2,418529851	2,40864602	2,353777089	2,424842122
<i>St8sia1</i>	1,961489043	2,410552657	2,348253226	2,355094448	2,409463813
<i>Degs1</i>	2,033877502	2,457791702	2,419540487	2,40522733	2,431811736
<i>Rrad</i>	1,976017068	2,334787792	2,417586625	2,493438288	2,276515707
<i>Stat5b</i>	2,083872178	2,478623157	2,557629225	2,206875054	2,364477973
<i>Adcy6</i>	2,054643113	2,403609049	2,657639517	2,366381098	2,327942502
<i>Gimap9</i>	2,043058758	2,6561782	2,573937075	2,347850919	2,213878266
<i>Cd28</i>	2,068652692	2,811901091	2,742126982	2,46855	2,385382712
<i>Gata3</i>	1,942721464	3,000542998	2,532465222	2,551014854	2,281510552
<i>Dusp7</i>	1,825536281	2,806000409	2,51111956	2,455703818	2,536278657
<i>Rps11</i>	1,80998932	3,216809223	3,652714232	2,302580551	2,383793571
<i>Klf2</i>	2,243219841	3,52062575	4,25334922	2,162286295	2,573150823
<i>Etnk1</i>	1,746704165	2,962548788	2,903272666	2,733202936	2,783605542
<i>Slc9a3r1</i>	1,811623071	2,917826088	3,162740256	2,76528396	3,103088196
<i>Ccr4</i>	1,719419875	3,080254306	3,098967139	2,469618054	2,764877023
<i>Tmem88</i>	1,800225652	3,174083216	3,052273187	2,739951938	2,509247514
<i>I730030J21Rik</i>	1,880777459	3,047093587	3,366263043	3,083500136	2,572319965
<i>Pnrc1</i>	1,475180367	2,999753003	2,965395909	2,835888122	2,729993045
<i>9330175E14Rik</i>	1,540993421	2,769398019	3,476713624	2,997053576	2,687340468
<i>Tnfaip8l2</i>	1,656596261	3,325150401	3,564797487	3,944892342	4,264367844
<i>Supt4h1</i>	1,670347294	3,349725128	3,489026895	3,248099438	3,309421847
<i>Sh3bgrl3</i>	1,715105352	3,006995502	3,182191556	3,019441522	3,324454048
<i>Rap1b</i>	1,62984363	3,117117172	3,202704589	2,895579104	3,256351032
<i>BC021614</i>	1,538872612	2,89625254	2,838438638	3,271187627	3,10426149
<i>Gpr146</i>	1,586977873	3,113071903	2,780474634	3,269200823	3,294176624
<i>Cd5</i>	2,009538456	3,459679735	3,129670664	2,753603507	3,224224638
<i>Arhgdib</i>	2,014613571	2,946592062	3,218300405	2,869691765	3,237167584
<i>Rhof</i>	2,07374911	2,974823801	2,928749553	2,727847951	2,914961464
<i>Rnf145</i>	1,986322756	2,89523035	2,790184346	2,863840621	2,908588198
<i>Midn</i>	2,003626177	2,911746485	2,83555434	2,915020161	3,02559653
<i>Isyna1</i>	2,134746834	2,99585502	2,92520689	3,391330888	3,675418077
<i>Cotl1</i>	2,03942199	3,035076413	3,48886248	3,151043288	3,720277284
<i>Cnn2</i>	2,19518978	2,884698837	3,407639671	3,205837946	3,883991997
<i>Dyrk2</i>	2,192274734	2,863469667	3,694917576	3,460230562	3,982033418
<i>Ski</i>	2,149799096	2,911105659	3,026933055	3,142285634	3,252808438
<i>Slc38a2</i>	2,217231203	2,918455464	3,341482692	2,956184204	3,311732568
<i>Csk</i>	2,187947211	2,960694333	3,108513599	2,968983361	2,994412217
<i>Kbtbd11</i>	1,908047312	3,011145135	2,870942274	3,226377228	3,220445879
<i>Abhd8</i>	1,920187847	2,982259536	2,922743624	2,920392142	3,269422222
<i>Galnt6</i>	1,910614373	3,01532968	3,016965484	3,034509417	3,10253725
<i>Egr1</i>	1,940757987	4,444837899	4,12518096	3,988595594	4,151245816
<i>Hnrnp1</i>	1,896308128	2,961424762	3,263688533	3,042231005	3,209523541
<i>Myh9</i>	1,945357445	2,967323659	3,33157232	3,018531591	3,357598225
<i>Sfn</i>	1,969240931	3,08198343	2,988120223	3,370810561	3,156710416
<i>Rln3</i>	1,864075549	2,981965612	3,428843544	3,051146742	3,847114581

<i>Trex1</i>	1,834039593	3,539964563	3,955872227	3,360379404	3,442653429
<i>Leprotl1</i>	1,801240802	2,983065978	3,108676194	3,085078919	3,289632775
<i>Ccr8</i>	1,811624015	4,33192073	3,528872639	3,850021927	3,544320516
<i>Ifngr2</i>	1,784352974	3,08292602	2,990057082	3,026805683	3,06179673
<i>Slfn2</i>	1,826297224	2,529632873	2,849572483	2,680414229	3,057457197
<i>Gnb2</i>	1,849480564	2,534494392	2,868696806	2,683932384	3,004413821
<i>Mdk</i>	1,942836485	2,516660967	2,887594748	2,663520028	2,92483859
<i>Itprp</i>	1,760033732	2,472723019	2,783513778	2,700029299	2,952929926
<i>Ddx39b</i>	1,781135233	2,369742677	2,758101918	2,748680893	3,015276475
<i>Hnrpd1</i>	1,637237415	2,609927842	2,755902099	2,792265113	3,115314813
<i>Gna13</i>	1,606124121	2,567949331	2,692230601	2,656572142	2,98559923
<i>Ccm2</i>	1,79481501	2,602444271	2,753648007	2,655427726	2,979064937
<i>BC100451</i>	1,838089133	2,630911386	3,10037828	2,538925119	3,007073133
<i>Cfl1</i>	1,698918588	2,718573313	2,968931014	2,627186247	3,262627626
<i>Mknk2</i>	1,94594482	2,604855695	3,050177091	2,823783986	3,705310285
<i>Vgll4</i>	1,94116326	2,761309033	3,024337131	2,792901983	3,069444381
<i>Zdhhc18</i>	1,825563345	2,688718567	2,976809838	2,730701353	3,056090829
<i>Eif2c2</i>	1,882246878	2,650845458	3,045382782	2,699659895	2,910101925
<i>Ppp1cc</i>	1,927386475	2,398588891	2,883908777	2,536853774	2,825222827
<i>Mylpf</i>	2,009091323	2,420579823	2,86450262	2,502693953	2,725732494
<i>Slfn1</i>	1,832101455	2,588872277	2,955253399	2,727981672	2,733601051
<i>Ft3l</i>	2,014216085	2,355642337	2,691844743	2,722380121	2,794737434
<i>Foxo4</i>	1,94961635	2,434350019	2,742196455	2,670585611	2,880539107
<i>Pbx2</i>	1,986066233	2,614915849	2,573741441	2,689468536	2,738047596
<i>Fam102a</i>	1,721175452	2,77458241	2,710402235	2,52710406	2,734047616
<i>Rasgrp1</i>	1,727912754	2,736775551	2,732571778	2,455959466	2,535721628
<i>Lasp1</i>	1,762420401	2,566365275	2,650935723	2,605551439	2,692557985
<i>Ubac2</i>	1,71695692	2,647271947	2,593716266	2,589089112	2,690271569
<i>Map4k4</i>	1,680615757	2,548539372	2,653252126	2,5044997	2,709703922
<i>Arhgap9</i>	1,858531313	2,614084016	2,692538493	2,406003456	2,848897468
<i>Grccl10</i>	1,843277932	2,713439582	2,706641497	2,376800232	2,872466663
<i>Nat9</i>	1,840281704	2,588575951	2,79048908	2,427794954	2,82158676
<i>Il6st</i>	1,947593978	2,71315279	2,766517509	2,526616121	2,688239451
<i>Mboat4</i>	1,86206657	2,650126667	2,688683223	2,460280673	2,652348667
<i>Cd6</i>	1,902035395	2,958453655	2,706135659	2,667404644	2,657319192
<i>Al847159</i>	1,961248731	2,790074092	2,73279191	2,694472547	2,68006176
<i>Tmc8</i>	1,804035614	2,8032433	2,765777237	2,694936162	2,836326349
<i>Dusp5</i>	1,810787846	2,742425342	2,762413917	2,629536665	2,731490921
<i>Map3k1</i>	1,82240747	2,74537486	2,640895266	2,734370212	2,756940172
<i>Ugcg</i>	1,871904725	2,870930437	2,632001426	2,734312304	2,911479074
<i>BC033916</i>	1,581823691	2,960647896	2,389010021	2,902571272	3,385790672
<i>1810010H24Rik</i>	1,965618079	2,893271246	2,533599826	3,069495447	2,884322586
<i>Daxx</i>	1,977410158	2,460037384	2,436907636	2,937146771	2,917479089
<i>Cdk2ap2</i>	1,97159933	2,623872851	2,585002764	3,503414912	3,808509798
<i>Sap25</i>	2,055175304	2,605941018	2,346487868	2,785809982	3,475677383
<i>Lfng</i>	1,686363407	2,565097042	2,957775791	3,290039731	3,739036061
<i>Foxo1</i>	1,689398214	2,509152781	3,033461988	3,134757499	3,359662063
<i>Ing1</i>	1,536612511	2,419096493	2,930330998	2,769183394	2,944990376
<i>Gm10345</i>	1,613985618	2,150070543	3,163895334	3,281353781	3,79060087
<i>Tnfrsf25</i>	1,324379257	2,780685355	2,96844238	3,201917624	2,97305516
<i>Rac1</i>	1,421346836	2,731640355	2,997118292	2,920058816	3,291541464

<i>B2m</i>	1,385288906	2,601058758	3,149737454	3,033651206	3,277566952
<i>Smad7</i>	1,149054905	2,710368351	3,4402401	3,401187585	3,75000711
<i>Irf1</i>	1,275795607	2,476064642	3,039118053	2,863012186	3,359967456
<i>Pik3cd</i>	1,327400693	2,38205278	3,333669751	3,036159258	3,720269046
<i>Sun2</i>	1,362369951	1,90971188	2,273399448	2,208468458	2,662194964
<i>Prkd2</i>	1,302579495	1,820341545	2,117491115	2,226420226	2,640892897
<i>Gramd4</i>	1,390904059	1,936847504	2,069178863	2,286681998	2,767975609
<i>Agpat1</i>	1,498958735	1,792218908	2,101293359	2,211835202	2,397605064
<i>Scml4</i>	1,340263038	1,806363671	2,089311679	2,233380753	2,467289574
<i>Athl1</i>	1,449726878	1,853438841	2,176968668	2,149679848	2,433260209
<i>Strn4</i>	1,428849833	1,913449293	2,266313984	2,157451213	2,445244683
<i>Cyth1</i>	1,361691935	1,90628322	2,191053288	2,210394	2,518329725
<i>Nudt3</i>	1,336459091	1,909776804	2,452764392	2,129380322	2,55255749
<i>Gm10640</i>	1,388025583	1,952928706	2,345744958	2,127594592	2,533472511
<i>Pcif1</i>	1,387346109	1,770408371	2,406414221	2,217062028	2,579102391
<i>Wbp2</i>	1,269538219	1,901507058	2,274308484	2,297958174	2,426500729
<i>Sf1</i>	1,235438039	1,848265861	2,262406774	2,199470028	2,428469561
<i>Ubtf</i>	1,721790122	2,058136727	2,209559431	2,278236062	2,567385999
<i>Il17ra</i>	1,77664682	1,948829027	2,128577849	2,210871399	2,535401673
<i>Dos</i>	1,736830417	1,88077769	2,201969806	2,242230434	2,591174766
<i>D4Wsu53e</i>	1,753470326	1,928086623	2,268512838	2,313049442	2,595147911
<i>Ctdsp1</i>	1,700935846	1,841948722	2,25470448	2,370966664	2,476088209
<i>Men1</i>	1,792957385	1,782622031	2,139296298	1,997231637	2,444055987
<i>Qtrt1</i>	1,715567388	1,715712615	2,192812896	2,12001332	2,418759054
<i>Cbx7</i>	1,868915668	1,821960933	2,080999928	2,155047074	2,490689874
<i>Ptpn1</i>	1,38810639	2,05344463	2,325467408	2,347158535	2,632089004
<i>Tet3</i>	1,453848134	2,077123558	2,398608613	2,296874686	2,604798745
<i>Gpr171</i>	1,491180843	2,103338723	2,308647635	2,368005378	2,632493234
<i>Neurl3</i>	1,432902852	2,114399754	2,306239281	2,31946041	2,667662607
<i>Il27ra</i>	1,454743623	2,013640248	2,469062593	2,324220791	2,698000604
<i>Srf</i>	1,597681374	1,982144353	2,272677407	2,240821016	2,588493417
<i>Nfatc1</i>	1,471485466	2,028307743	2,25768333	2,180168177	2,533261945
<i>Osm</i>	1,479602092	2,035427776	2,168257565	2,261873625	2,648045233
<i>Qprt</i>	1,640748161	2,148409669	2,369609783	2,333905609	2,496431349
<i>Irgm2</i>	1,55187864	2,143651784	2,385939754	2,257437001	2,531644031
<i>Itpk1</i>	1,489385537	2,060271964	2,398026712	2,186133663	2,491462026
<i>Pag1</i>	1,494642538	2,094803426	2,48578485	2,206556494	2,485760528
<i>Zadh2</i>	1,599964314	2,174325699	2,334830337	2,083007301	2,490415889
<i>Usp36</i>	1,748625663	2,138061685	2,333469583	2,174068298	2,564689602
<i>Adamtsl4</i>	1,684794442	2,077567332	2,467448424	2,146583332	2,410819876
<i>Yeats4</i>	1,701374076	2,140597988	2,462948786	2,160533422	2,534477589
<i>Ssbp4</i>	1,63710395	2,022416501	2,238498687	2,055494358	2,536693816
<i>B4galt1</i>	1,648155637	2,009067811	2,185506399	2,134864468	2,533676683
<i>Mbd6</i>	1,573093788	1,991254535	2,132371222	1,963642006	2,519770572
<i>Dnm2</i>	1,560220593	1,95612295	2,268851102	2,032914538	2,403370932
<i>Fbxl14</i>	1,663501767	1,882610426	2,283118873	2,06747933	2,418977301
<i>Gipc3</i>	1,566241916	1,777253219	2,335978202	1,958701059	2,655502323
<i>Dnajb1</i>	1,701270458	2,065410263	2,436156791	1,86386415	2,701761134
<i>Aldoa</i>	1,768826824	2,155925666	2,299695502	1,914487396	2,576117217
<i>Nbeal2</i>	1,638100205	2,115404426	2,376174022	1,993315211	2,430465658
<i>Plekhg2</i>	1,568155942	2,117286705	2,471834029	1,96250819	2,382087516

<i>Cd82</i>	1,6057931	2,040967428	2,248308393	1,964719921	2,373030376
<i>Gm10804</i>	1,577851756	2,110526336	2,255614205	1,898448286	2,347388208
<i>O610009L18Rik</i>	1,425208968	2,196394357	2,188410915	1,777596117	2,38061496
<i>Zbtb9</i>	1,511997512	2,279176939	2,201884768	1,930251028	2,453447227
<i>Mef2d</i>	1,495744294	2,033126243	2,278038933	1,993479065	2,316747727
<i>Usp7</i>	1,433214771	2,038225181	2,345975435	2,031183427	2,315936542
<i>Ablim1</i>	1,436980702	2,041443402	2,221242122	2,108365213	2,320365164
<i>Trim25</i>	1,452480822	2,029832977	2,133345775	2,043299843	2,432891943
<i>Rassf2</i>	1,424284504	1,983414362	2,185658993	2,041521433	2,386641424
<i>Ube2v1</i>	1,404821226	1,988528106	2,199897815	1,960090268	2,591265159
<i>Tubb4a</i>	1,334236802	2,009240118	2,21602817	2,056177622	2,58219815
<i>Gm10814</i>	1,437443971	2,191327765	2,219774821	2,017148751	2,621138375
<i>Mogs</i>	1,516120082	1,938116353	2,563463236	1,893918838	2,610938736
<i>D17H6S53E</i>	1,47313052	1,930640325	2,495855154	1,86372129	2,412477453
<i>Atp5a1</i>	1,277062749	1,8441191	2,440096167	1,990478501	2,452311599
<i>Btbd6</i>	1,67567949	1,993618801	2,078695884	2,676058018	2,509906066
<i>Myl12b</i>	1,824170892	1,991433177	2,267854242	2,498304865	2,62457907
<i>Trim56</i>	1,583149289	2,0323431	2,07496605	2,330343204	2,235786833
<i>Setd6</i>	1,550299974	2,067613728	1,985181458	2,500943086	2,27930389
<i>Calm1</i>	1,392762846	2,112433576	2,081607796	2,369660239	2,377692503
<i>Stk4</i>	1,464295427	2,212047779	2,406409209	2,428313803	2,646951127
<i>Ager</i>	1,486184579	2,18054197	2,383379374	2,485589739	2,608302783
<i>Fyn</i>	1,613036904	2,322387596	2,378467987	2,476620574	2,607209103
<i>A930015D03Rik</i>	1,562523491	2,289415139	2,328893589	2,472433961	2,433084139
<i>Galnt10</i>	1,439945274	2,267873191	2,345041931	2,508543379	2,477675312
<i>Sertad1</i>	1,665890308	2,124847487	2,279515079	2,552098721	2,564947825
<i>H2-Q4</i>	1,536863132	2,156213395	2,245708456	2,519818618	2,679147209
<i>Fbxl3</i>	1,404804643	2,134117927	2,302884987	2,25219098	2,574768419
<i>Hsp90ab1</i>	1,341421353	2,218634555	2,255276927	2,307018466	2,615954731
<i>Gimap8</i>	1,514985615	2,291056987	2,232097643	2,317145454	2,50927418
<i>Commd8</i>	1,589252152	2,28538502	2,225131079	2,303888578	2,527070281
<i>Il6ra</i>	1,28003303	2,262371854	2,084881269	2,484990631	2,734414253
<i>Tspyl3</i>	1,409642505	2,241812385	2,156152137	2,532129166	2,663371633
<i>Cd47</i>	1,242967201	2,176121256	2,212735917	2,579293369	2,489454645
<i>Pstpip1</i>	1,23389703	1,910827637	2,297770985	2,053576226	2,184884306
<i>Gm6793</i>	1,184464575	1,810028748	2,278352118	2,085625341	2,275461871
<i>Hnrnpa3</i>	1,107199769	1,746109927	2,276672981	1,915630009	2,142409685
<i>Rbmxl1</i>	1,130406187	1,86353299	2,309415692	2,143405811	2,032520516
<i>Hnrnpu</i>	0,97966924	1,8701812	2,43407234	2,023171224	2,162629277
<i>Eif4h</i>	0,931044823	1,988616497	2,369368424	2,122377916	2,206456134
<i>Gm11346</i>	1,158630481	1,82009695	2,613386494	2,034284604	1,842806788
<i>Clcf1</i>	1,593143733	1,837418647	2,584393866	2,360061717	2,327676986
<i>Actg1</i>	1,650727276	1,918640352	2,445502669	2,517181047	2,301690225
<i>Tspyl1</i>	1,437438753	1,938343769	2,597560983	2,421312028	2,184764797
<i>Irf7</i>	1,513574737	1,75222581	2,226592105	2,668317403	2,10682072
<i>Arl6ip4</i>	1,618081385	1,77061426	2,239083102	2,466216757	2,164572692
<i>Kif23</i>	1,354350798	2,145192191	2,100398776	1,815691046	1,936830201
<i>Mapk6</i>	1,402143977	2,083368276	2,206156596	1,903237532	2,027817268
<i>Kcnmb4</i>	1,176052718	2,16245472	2,252277245	1,81707825	2,035451248
<i>Stk17b</i>	1,265054703	2,241870085	2,019544926	1,612006561	1,809757271
<i>Lin37</i>	1,392748571	1,958550308	2,078681302	2,1092076	1,938096601

<i>Runx1</i>	1,49158697	2,030402096	1,954987075	2,04512961	1,844875526
<i>Lpcat3</i>	1,682572705	2,067463811	2,058268292	2,074124526	1,974783049
<i>Ccng2</i>	1,530235427	2,15283069	2,064304817	2,06522676	2,001361667
<i>Gm5069</i>	1,539705533	2,139379017	1,882105504	1,921936861	1,800186082
<i>1810026B05Rik</i>	1,50368163	2,196252787	2,038537602	1,903049427	1,717766913
<i>Cap1</i>	1,147881451	1,811839687	2,080924165	1,851669338	2,058068664
<i>Dlg4</i>	1,168643931	1,873463033	2,077349044	1,826253427	2,094520402
<i>Usp10</i>	1,195391075	1,903537552	2,055861623	1,887405649	2,10088408
<i>Sppl3</i>	1,198851835	1,866672011	2,036758727	1,894577033	2,160814787
<i>Nfkb1</i>	1,14352436	1,932499969	2,00628983	1,812945836	2,078562447
<i>Ppp1r18</i>	1,128924403	1,985653526	2,157386225	1,952877442	2,07941005
<i>Smad4</i>	1,103609163	1,845407068	1,992816227	1,971587724	2,164674149
<i>Rnf114</i>	1,220411792	1,785632871	2,036286536	1,972839335	2,069165815
<i>Card11</i>	1,364980075	1,893391574	2,036015097	2,049710557	2,157534168
<i>Tspan14</i>	1,29957965	1,910146905	2,025058247	2,01653117	2,138982856
<i>Max</i>	1,272833959	1,919089143	2,089594994	2,094471601	2,149578127
<i>Tctn1</i>	1,306286808	1,831719713	2,080830975	1,954891	2,152234945
<i>Ccdc64</i>	1,283531083	1,871523025	2,169235458	1,987092952	2,103190886
<i>Sash3</i>	1,321322959	2,026590499	2,157186671	1,965557498	2,112700133
<i>2310015A10Rik</i>	1,336921407	2,01327844	2,169968263	1,98798587	2,194633496
<i>Spred2</i>	1,366608902	2,004633791	2,06543582	2,00162565	2,153027878
<i>Tex2</i>	1,338244887	1,972089828	2,017382643	1,959967733	2,041828954
<i>Mypop</i>	1,216843133	2,032153979	1,991230548	2,015710966	2,118725916
<i>Itgal</i>	1,341227045	1,953853944	2,062237254	1,796514406	1,983144517
<i>Coq10a</i>	1,265037055	1,997743439	2,034757967	1,846341918	2,008488045
<i>Ikzf4</i>	1,327028736	2,016159366	2,064324994	1,692381354	2,073059451
<i>Ggta1</i>	1,404382069	1,976781979	1,989988217	1,806266639	2,028732574
<i>Srrt</i>	1,447714533	1,979485885	1,929463115	1,787254199	2,149969107
<i>Acap1</i>	1,185126056	1,686397862	2,068699582	1,844761373	2,108659282
<i>Fem1c</i>	1,187844765	1,680862414	2,089770749	1,737512452	2,043793003
<i>Sp100</i>	1,206195506	1,808231219	2,011180343	1,793494384	1,968600162
<i>Mbnl2</i>	1,238728256	1,823985335	2,022647473	1,774761973	2,067297724
<i>Git2</i>	1,238933729	1,742293881	1,893089412	1,76728498	2,040514462
<i>Mark2</i>	1,371005523	1,731271071	1,927816199	1,777683716	2,071552536
<i>Naca</i>	1,283037751	1,7838586	2,024464339	1,685029139	2,133204173
<i>Dtx2</i>	1,4122948	1,805600679	2,106979555	1,745011348	1,978349545
<i>Leng9</i>	1,279890687	1,709818879	2,146799987	1,775118274	1,932595887
<i>Ppia</i>	1,073152574	1,916578738	2,02258024	1,769231908	1,937289015
<i>Ywhah</i>	1,081773822	1,791376174	2,13667329	1,77516433	1,924317723
<i>Tesc</i>	1,113644538	1,895263713	2,038200098	1,948232311	1,958646326
<i>Gm20324</i>	1,156148018	1,900574387	2,073487327	1,906168329	1,839183924
<i>Plekhf2</i>	1,442065617	2,141140875	1,992884552	2,110887284	2,206306326
<i>Zfp260</i>	1,477347168	2,047463607	2,099034212	2,138392736	2,146012843
<i>Hivep2</i>	1,430361829	2,201911772	2,115758531	2,021782989	2,079629551
<i>Gm15401</i>	1,544456773	2,248420344	2,058237545	1,966847218	2,116984036
<i>Fmnl3</i>	1,364406632	2,153139596	2,129714426	2,093542307	2,051375194
<i>Lmbr1l</i>	1,362913167	2,066733208	2,155996163	2,081202521	2,041224133
<i>Tgif2</i>	1,277155059	2,210692453	2,13186522	2,127404314	1,989654208
<i>Klhl25</i>	1,246992474	2,245519091	2,129851025	2,101952951	2,324221279
<i>Cd274</i>	1,169021491	2,279816719	2,212068758	1,966071318	2,31923118
<i>Rassf5</i>	1,422058481	2,226604011	2,315747128	2,09439589	2,208503515

<i>Gm12250</i>	1,361944327	2,138496244	2,294354593	2,045201455	2,337730142
<i>Gabarap</i>	1,556126586	2,022857874	1,865016024	1,672939293	2,245338796
<i>Gm5083</i>	1,429871401	2,022889518	1,642758446	1,728994045	2,110276967
<i>Ppan</i>	1,217603222	2,033928909	1,893230528	1,643772681	2,229137556
<i>Rnf208</i>	1,416136374	1,977738296	1,600223955	1,880584486	2,521995458
<i>1700016K19Rik</i>	1,320291352	1,995032129	1,855314936	1,727554649	2,55252972
<i>Plk3</i>	1,275821308	2,086000586	1,569855608	1,980691367	2,132944949
<i>Zbtb25</i>	1,695021008	1,93965932	2,052417233	1,72926743	2,072743897
<i>2510012J08Rik</i>	1,7008773	1,925767745	2,046789929	1,831422371	2,100755004
<i>Dzip1</i>	1,562036721	2,036970218	2,025491995	1,793987476	2,090207039
<i>Khdrbs1</i>	1,589435587	1,959764899	2,092685069	1,821253621	2,039916288
<i>Kcnip2</i>	1,551619285	1,861561959	2,071608983	1,845530354	2,027067615
<i>A630001G21Rik</i>	1,532368284	1,8631615	2,142552337	1,746355065	2,098561172
<i>Obfc1</i>	1,862135723	1,872503772	2,020193259	1,762724039	2,051258325
<i>Arid3b</i>	1,808296199	1,825231389	2,001546035	1,831403629	2,048676669
<i>Fkbp5</i>	1,825567133	1,957011148	2,061163863	1,841189913	2,099646276
<i>Hipk1</i>	1,868256228	1,928580006	1,994360659	1,874999325	2,083013207
<i>Kctd17</i>	1,786188717	1,917136567	2,168553704	1,8037577	2,052777058
<i>Setd7</i>	1,842988665	1,87015911	2,138463356	1,797781971	2,176331748
<i>Nr1d1</i>	1,822226996	1,761277817	2,084062906	1,664954001	2,285213804
<i>Mical1</i>	1,883392429	1,730448485	1,990971863	1,720636113	2,355892931
<i>Mxra8</i>	1,639363424	1,753707539	1,917363301	1,822985332	2,40227263
<i>Rltpr</i>	1,61120737	1,751534667	1,977255291	1,815862903	2,340710513
<i>Smarcd2</i>	1,869706597	1,814976129	1,824795661	1,851916697	2,221854513
<i>Evi2a</i>	1,849931366	1,834607576	1,938726154	1,913649003	2,306693655
<i>Gm996</i>	1,44224654	1,760920817	2,046558147	1,970291313	2,142044301
<i>Dnajc7</i>	1,495490922	1,824414086	2,0040488	1,914570039	2,169279956
<i>Prr13</i>	1,457398118	1,707915041	1,991420681	1,926420575	2,239234757
<i>Chd4</i>	1,420609383	1,731590649	1,878937825	1,864326094	2,138324442
<i>Itpr3</i>	1,424489471	1,710069895	1,866462566	1,877583967	2,172970197
<i>Pacs2</i>	1,595872721	1,716364201	2,012223864	1,790399157	2,110082954
<i>Iffo1</i>	1,602690138	1,732305454	1,899793278	1,838090369	2,064221109
<i>Os9</i>	1,510254206	1,758929974	1,894385718	1,707557604	2,120851654
<i>Derl1</i>	1,618119276	1,873330509	2,168509352	1,951767395	2,216291684
<i>Erf</i>	1,608209319	1,78437741	2,104052539	1,919333161	2,189905235
<i>Pik3r5</i>	1,658532208	1,8094372	1,966016696	1,99051116	2,242341828
<i>Tspan13</i>	1,445709784	1,916795216	2,017196446	1,922804947	2,118372598
<i>Sigirr</i>	1,487608834	1,910246889	1,962450351	2,000323614	2,150964682
<i>Coro1c</i>	1,479576008	1,913852873	2,069062999	2,064856096	2,197722354
<i>Traf3ip3</i>	1,495552534	1,874304671	2,011644424	2,09024191	2,139126756
<i>Gng3</i>	1,741900332	1,608602743	2,428607843	2,060738175	2,240681156
<i>Spn</i>	1,556092285	1,612602223	2,273987336	2,225129678	2,223703214
<i>Klf16</i>	1,889052307	1,710764627	2,230852652	1,960542845	2,194070037
<i>Plekhg6</i>	1,690392011	1,625075414	2,19624385	1,872524148	2,088885237
<i>Kiss1r</i>	1,558081881	1,622036661	2,35956268	2,125852803	2,011479352
<i>Aup1</i>	1,520319057	1,742797429	2,473405268	1,9812136	2,05849322
<i>Wbp1</i>	1,447798126	1,837728864	2,373652977	2,100115808	2,200422685
<i>Lrch4</i>	1,401306051	1,832693017	2,249514904	2,08629544	2,138506156
<i>Rab11fip1</i>	1,289635641	1,974862373	2,229230939	1,791882684	2,283961972
<i>Anp32b</i>	1,18561646	1,882186217	2,157125844	1,834781394	2,244941697
<i>Gtpbp2</i>	1,238950168	1,798036718	2,164760416	1,555318479	2,363911928

<i>Gm10390</i>	1,576504183	1,665351356	2,298281643	1,602527224	2,294310272
<i>Bri3bp</i>	1,644399544	1,693255483	2,153159971	1,680273853	2,183097744
<i>Klhdc5</i>	1,474751623	1,66826755	2,086046886	1,72600447	2,185130479
<i>Calhm2</i>	1,551265494	1,756083275	2,08495386	1,670824552	2,153703735
<i>Dennd1c</i>	1,438281663	1,688935984	2,174811674	1,642516568	2,098697241
<i>Sgpp1</i>	1,387804478	1,879600845	2,021063987	2,005249735	2,258376926
<i>Lrrc33</i>	1,304943643	1,920447407	2,004385651	1,905490388	2,310443767
<i>Rnaset2b</i>	1,449446566	1,962587631	2,015221295	1,81792695	2,308301454
<i>Rnaset2a</i>	1,449461979	1,962607531	2,013851096	1,826242488	2,308323365
<i>Znrf2</i>	1,271496943	1,857993075	2,087078441	2,009467256	2,402233447
<i>Clic1</i>	1,361992274	1,922363447	2,175288889	1,931521919	2,489229025
<i>Slc38a1</i>	1,382157971	1,69529383	2,046214091	1,952691465	2,416183667
<i>Actn1</i>	1,466684411	1,675280815	2,074006599	1,988539815	2,431235019
<i>Arhgdia</i>	1,546958198	1,785115191	1,964772198	1,982862269	2,44776847
<i>Fam83f</i>	1,68289062	1,972232729	2,20774423	1,844584342	2,210108735
<i>Cend1</i>	1,664214908	1,907955808	2,058913527	1,816645934	2,241550238
<i>Ehd3</i>	1,793233338	2,048291845	2,07879193	1,767379273	2,279108143
<i>Wdr6</i>	1,817374793	1,904351271	2,297291845	1,789482369	2,239188267
<i>Hn1</i>	1,710768239	1,865074857	2,300301287	1,765974849	2,305835881
<i>Mex3a</i>	1,767348709	2,102015256	2,2885658	1,744436017	2,200035531
<i>Kcnk7</i>	1,759630573	2,142331904	2,359888763	1,803851508	2,21747645
<i>Fyb</i>	1,50682274	2,066290136	2,206098079	1,939324334	2,209533687
<i>Foxo3</i>	1,426705478	1,952427993	2,201347682	1,875447325	2,225800817
<i>Lpar2</i>	1,495537094	2,001025195	2,25209904	1,746599013	2,127467512
<i>C030046I01Rik</i>	1,555575654	1,877058527	2,208253419	1,787567664	2,406595158
<i>Jmjd6</i>	1,581699579	1,844628448	2,192244768	1,871566187	2,364788549
<i>Ppp2cb</i>	1,444101191	1,84059668	2,187532492	1,802298582	2,36063905
<i>Hspb6</i>	1,827977491	2,017122531	2,106404534	1,483095312	2,245069671
<i>AW112010</i>	1,524453995	1,969770483	2,041075748	1,427107734	2,396064197
<i>Traf4</i>	1,680199562	1,862218934	2,446679355	1,782953619	2,434808601
<i>Mast3</i>	1,658686733	1,876166444	2,406375235	1,720529296	2,409269106
<i>Cenpb</i>	1,72051261	1,842673155	2,311396183	1,64119731	2,61367476
<i>Mnt</i>	1,468776189	1,658441681	2,374070364	1,571914448	2,548712232
<i>Rab27a</i>	1,61760886	1,931455372	1,961616393	2,084145072	2,140739857
<i>4933426D04Rik</i>	1,727547903	1,837842757	1,919585834	2,163019857	2,061848555
<i>Il3ra</i>	1,783119796	1,725208022	1,69418398	1,975296153	2,10700803
<i>Ckb</i>	1,809715078	1,773827749	1,789953353	2,333122656	1,957935165
<i>Fkbpl</i>	1,690882022	2,000912598	1,630354043	2,197888804	2,08995651
<i>Sssca1</i>	1,658394105	1,660529614	1,854511796	2,161873586	2,229167877
<i>Rassf3</i>	1,612195747	1,771404975	1,774536329	2,276028071	2,232033029
<i>Fam108a</i>	1,568177019	1,669364007	1,862522075	2,13221658	2,440638081
<i>Bhlha15</i>	1,563350742	1,932653006	1,791470807	2,31395765	2,352891041
<i>Tmub1</i>	1,337082662	1,373522848	1,910342338	2,506525096	1,947950279
<i>Endog</i>	1,414924803	1,523362877	1,599292479	2,562165715	1,770734672
<i>Rps8</i>	1,54452783	1,736961569	2,019367584	2,599123588	2,635686399
<i>2900092E17Rik</i>	1,611104644	1,507956604	1,864792641	2,710001405	2,392327102
<i>1700066B17Rik</i>	1,322570319	1,623137648	2,048193787	2,067860865	2,125947356
<i>Amigo3</i>	1,330304525	1,629494852	1,882093648	2,075726927	2,1379343
<i>Klhl35</i>	1,368876675	1,796452646	1,906918973	2,151533227	2,218218927
<i>Ttyh3</i>	1,375099741	1,771486868	1,837854848	2,14373563	2,147865464
<i>Arhgef4</i>	1,38490571	1,865872741	1,988504051	2,215715863	2,244863113

<i>Rps6ka1</i>	1,370181001	1,799035959	2,050814612	2,15086015	2,335132087
<i>Dapk3</i>	1,422362694	1,707487929	2,045375489	2,176814202	2,231759507
<i>Prkag1</i>	1,155521724	1,808686698	1,88222154	2,181259018	2,26893797
<i>Sphk2</i>	1,115579341	1,731151149	1,872730824	2,081213107	2,400146862
<i>Kctd10</i>	1,213138357	1,662413703	1,88978416	2,236106802	2,332144173
<i>Rad9</i>	1,211500023	1,668635798	1,990186031	2,242181812	2,248071468
<i>Rabggtb</i>	1,178636416	1,591564765	1,873973756	2,201331761	2,211935845
<i>Tuba1a</i>	1,161322469	1,787020024	1,854151717	1,84009273	2,275636078
<i>Gga1</i>	1,2305244	1,785028372	1,948532896	1,882338195	2,390987756
<i>Pea15a</i>	1,070805236	1,781619236	1,911715243	1,846491776	2,423422371
<i>Yod1</i>	1,2038363	1,716191112	1,898829158	1,882539484	2,241179215
<i>Snx32</i>	1,219744582	1,70208659	1,862250555	1,895221816	2,257532747
<i>Tmpo</i>	1,237584185	1,660073398	1,891316166	1,955996445	2,176203474
<i>Fut11</i>	1,287895077	1,807279532	1,840569849	1,990505459	2,198766261
<i>Rab21</i>	0,968553737	1,665096456	1,940018885	1,9543115	2,235170637
<i>Tapbp</i>	1,055720155	1,701044197	1,911726122	1,928559308	2,241699453
<i>Csnk1g2</i>	1,010735802	1,622377227	1,908691759	1,860183187	2,242978069
<i>Ss18</i>	1,0025823	1,635174203	1,93799299	1,854673218	2,257159136
<i>Rbm14</i>	1,047923846	1,625333477	2,007571873	1,995090761	2,258695484
<i>Wipf2</i>	1,072614079	1,640894367	1,999628027	1,839443262	2,273631571
<i>Mmd</i>	1,060993773	1,733419407	2,013707312	1,79125903	2,224446362
<i>Mcart1</i>	1,199253955	1,641826529	1,965225479	1,86108358	2,131673733
<i>Tmppe</i>	1,116058461	1,651057884	1,947686151	1,893605674	2,179033424
<i>D4Ertd22e</i>	1,178792884	1,597097905	2,024596222	1,964856522	2,165066976
<i>Cdk4</i>	1,330193467	1,808610672	2,092014763	1,979310333	2,735639044
<i>Gale</i>	1,342506675	1,801105845	1,887853667	2,122466623	2,67814505
<i>Phf23</i>	1,363054187	1,604823735	1,891940569	1,856615819	2,631493541
<i>Prr7</i>	1,185462462	1,609307882	1,889468603	2,074803877	2,511164263
<i>Ppm1m</i>	1,232659654	1,691281672	1,905490826	2,137451405	2,5744440078
<i>Adcy7</i>	1,283294351	1,714124748	1,986763068	2,037060424	2,518864211
<i>Rps10</i>	1,235936657	1,602517077	2,045024201	2,169225874	2,708872136
<i>Dcaf15</i>	1,380521954	1,587461701	2,152233633	1,876739906	2,428620065
<i>4632428N05Rik</i>	1,351881295	1,524496382	2,217406606	1,92043855	2,53298287
<i>Plekho1</i>	1,195935554	1,625296326	2,221958979	1,841930542	2,612672769
<i>Lsm4</i>	1,377803064	1,560753574	2,404933797	1,851302267	2,430456928
<i>Dynll1</i>	1,324981079	1,585254722	2,430425335	1,874019798	2,418652613
<i>Rps17</i>	1,437694305	1,24164765	2,149611465	2,111492677	2,543832544
<i>Irgc1</i>	0,738640166	1,56167136	1,645431861	2,203023517	2,41158886
<i>Snx20</i>	0,856654404	1,782066352	1,68394636	2,094345646	2,471185353
<i>Atf4</i>	0,977169204	1,84321441	1,607975536	2,347167953	2,336010956
<i>1500002O20Rik</i>	1,130963428	1,445111027	1,608884711	2,272639336	2,392562393
<i>Gm10094</i>	1,133084957	1,450388513	1,627496799	2,229441834	2,362040923
<i>Rgl2</i>	1,16596795	1,611397705	1,589958277	2,129920507	2,215211762
<i>Ddx39</i>	1,086919034	1,536518619	1,75670947	2,235061319	2,617353008
<i>Fut7</i>	1,150390739	1,467423874	1,791678922	2,525220733	2,407153594
<i>Sh3bp1</i>	1,039583725	1,921073872	2,120858543	2,183104091	2,386179519
<i>Fam53b</i>	1,046314759	1,947590125	2,118150821	2,121908407	2,280244852
<i>Calm2</i>	1,060493473	1,947814476	2,182762082	2,29375613	2,33015093
<i>Brd2</i>	1,036722422	1,955633522	2,144663424	2,288638387	2,340413621
<i>Foxp1</i>	0,988997518	2,016388784	2,154808985	2,249053749	2,375654384
<i>Sec11a</i>	1,07048304	2,124322969	2,061759701	2,167298368	2,338088544

<i>Fam49b</i>	0,979715729	2,001952033	2,144936096	2,067269689	2,416889923
<i>Rhoa</i>	0,876643961	1,92913623	2,146321383	2,092761327	2,339701346
<i>Srsf7</i>	0,976687424	1,992294969	2,19097863	2,032851688	2,29664428
<i>Sbf1</i>	1,01636845	1,992952658	2,240995725	2,080188433	2,297046186
<i>Map3k11</i>	1,150609559	2,006483585	2,039339547	2,012815332	2,424590298
<i>Emb</i>	1,166025601	1,922164683	2,065301202	2,125621923	2,371481094
<i>Atf7ip</i>	1,245774856	2,005336026	2,22906409	2,062611738	2,357094487
<i>Anapc16</i>	1,240952208	1,96188939	2,1977029	2,062780457	2,376194177
<i>Prrc2a</i>	1,264079654	2,032737427	2,198078913	2,062449454	2,440680565
<i>Wipf1</i>	1,233321773	2,054698748	2,156200596	1,971121555	2,306835875
<i>Bcor</i>	1,204458192	2,008209493	2,151781412	2,042903476	2,312103704
<i>Vav1</i>	1,158183567	1,995027765	2,198306524	1,977339308	2,248653461
<i>Gmfb</i>	1,115577774	2,037077824	2,262716801	2,107074782	2,459157978
<i>Bcl3</i>	1,087403232	2,116807317	2,367642671	2,096338883	2,47260724
<i>Dyrk1a</i>	1,212029852	2,079621837	2,34055381	2,065107925	2,412329014
<i>Arhgef2</i>	1,115144012	2,138551033	2,398918533	2,043062363	2,603078771
<i>Arl6ip5</i>	1,142904678	1,859842264	2,339839707	1,994687394	2,596382882
<i>Arpc1b</i>	1,107385672	1,89988514	2,232801104	2,107497254	2,660037353
<i>Hnrnpk</i>	1,0152007	1,817950103	2,279933059	2,086870777	2,524887632
<i>Sema4a</i>	1,057565897	1,809965207	2,205536954	1,857318356	2,472136006
<i>Mtap7d1</i>	1,109148756	1,762779	2,300088644	1,860251816	2,445587292
<i>Zfp574</i>	1,127851722	1,731651541	2,137670095	1,819603683	2,430012732
<i>Slc44a2</i>	1,052118086	1,759208776	2,263688796	1,995444032	2,373908589
<i>Bcl10</i>	0,817221109	1,82554822	2,37757009	1,8738724	2,495230128
<i>2610524H06Rik</i>	1,282911473	1,575142918	2,353223583	2,25904301	2,440403177
<i>Tdgf1</i>	0,978794412	1,639272344	2,518068236	2,25465321	2,282375778
<i>Oaz1-ps</i>	1,010938719	1,550912595	2,437510364	2,012446353	2,623186856
<i>Oaz1</i>	1,082733543	1,564432642	2,438598475	2,072578889	2,640232596
<i>Atp1b3</i>	1,113737228	1,932634832	2,288342758	2,379285219	2,683026377
<i>Stat1</i>	1,098592277	1,978278667	2,384938398	2,413090258	2,672767238
<i>Atn1</i>	1,081829217	2,031184234	2,407413571	2,335528849	2,56605788
<i>H3f3a</i>	1,027635413	2,083412566	2,348759943	2,204693585	2,758009629
<i>Lysmd1</i>	1,082223114	2,098716442	2,329605982	2,12436275	2,761522806
<i>Prkar1a</i>	1,220549326	2,166331671	2,486650325	2,356441203	2,659223662
<i>Mllt6</i>	1,208485003	2,273605783	2,433406572	2,269157103	2,710915461
<i>Rasal3</i>	1,131819545	2,242044833	2,275651627	2,325696235	2,674972338
<i>Ctnnb1</i>	1,14425083	2,116751826	2,446401122	2,279941431	2,458698681
<i>Mbnl1</i>	1,166602531	2,175656211	2,458908414	2,304676943	2,537012516
<i>Adnp</i>	1,135607201	2,174818246	2,552642964	2,381490085	2,54469969
<i>Srsf5</i>	1,028327436	2,052741059	2,118210033	2,272672799	2,867914316
<i>Cdipt</i>	0,974987948	2,214720891	2,047308315	2,2906231	2,69123283
<i>Surf1</i>	1,183901431	1,953326169	2,430987784	2,353845029	2,91317392
<i>Rps26</i>	0,925151154	1,847904993	2,427340463	2,276723475	2,876031861
<i>1110008F13Rik</i>	1,257987265	1,927743585	2,486276055	2,188425221	2,758687911
<i>Rpl7a</i>	1,219830464	1,705563751	2,408035122	2,196718589	2,750825086
<i>Itgb7</i>	1,038212091	1,677915447	2,321399037	2,399961817	2,700579348
<i>Rasgrp2</i>	1,179583663	1,742046684	2,321001115	2,540777143	2,82184178
<i>Tagln2</i>	1,312523202	1,516523474	2,418532295	2,223917851	2,86533685
<i>H2-Q5</i>	1,115187198	1,485383017	2,299905611	2,22093611	3,676591747
<i>Cuta</i>	1,320296659	1,839669667	2,176821942	1,909676524	3,285515401
<i>Slc26a10</i>	0,863136994	1,831458254	2,29396973	1,942205351	3,033278326

<i>Ptgds</i>	1,748217133	1,634959384	2,221445948	2,022536129	2,974714511
<i>H2afj</i>	2,115867716	1,626703842	2,579365094	2,015477444	2,95574273
<i>C130039O16Rik</i>	1,537146561	1,904623455	2,537958947	2,227161638	3,041248934
<i>Fibp</i>	1,484264125	1,831518945	2,696917924	2,026163393	3,254791667
<i>Rps14</i>	1,627116193	1,916295426	2,408581877	1,981049647	2,956371897
<i>Mocs3</i>	1,611995448	1,2540303	2,851393591	2,037308202	2,702696719
<i>Runx3</i>	1,480681186	1,780406876	3,152912047	1,828986932	3,261900746
<i>Cldnd2</i>	1,133358455	1,707880479	2,878822963	1,54372384	3,378942705
<i>Dnajb12</i>	2,037724517	2,067592321	2,395466273	1,989538776	2,52270638
<i>Zfp957</i>	1,914977395	2,046961656	2,628594762	1,907010159	2,4956406
<i>Atp1b1</i>	1,808248277	2,005680931	2,40341372	2,080200869	2,431686496
<i>Sh3gl1</i>	1,791828119	2,058477818	2,414122243	2,084017539	2,477282421
<i>Abtb2</i>	1,857663515	2,208510818	2,500245192	2,125784176	2,364565253
<i>Egfl8</i>	1,954856878	2,429212034	2,450470348	1,944711046	2,23220977
<i>Zscan2</i>	1,941945415	2,465394156	2,437449223	1,953642487	2,382194849
<i>Lsm14b</i>	1,9943609	2,290854662	2,337097194	1,843362246	2,291973721
<i>Tmem185b</i>	2,185150839	2,005935992	2,447311606	1,75394311	2,569600933
<i>Ydjc</i>	2,122623127	2,389836672	2,186665054	1,605703064	2,499552732
<i>Fli1</i>	1,805007316	2,028213694	2,250216396	1,977055331	2,209109264
<i>Cnot2</i>	1,753365604	2,075950384	2,24464005	1,933908329	2,183754516
<i>Sox15</i>	1,867230925	2,024940222	2,211822679	2,033615822	2,243064274
<i>Msh6</i>	1,81122461	2,016273663	2,343807399	2,019218575	2,227614227
<i>Cd164</i>	1,822496653	1,997899525	2,35763025	2,126185242	2,270311879
<i>Tmie</i>	1,769305218	2,060273922	2,407848728	1,990262442	2,303105815
<i>Uba7</i>	1,830221999	1,925689016	2,223279601	2,09043715	2,333919066
<i>Timp2</i>	1,762113666	1,964758651	2,288831526	2,009462742	2,401801803
<i>Sipa1</i>	1,813987142	2,113285664	2,256855176	2,100599297	2,39670819
<i>Rcsd1</i>	1,743169214	2,098154834	2,171530641	2,174558866	2,431422266
<i>Sell</i>	1,834694345	1,973988117	2,148107226	1,994149543	2,42348661
<i>Frat1</i>	1,83012811	1,959292309	2,107368961	1,987086611	2,454167564
<i>Tnk1</i>	1,878599311	2,100130548	2,192643435	1,940644461	2,37148834
<i>Ptp4a3</i>	1,995623412	1,988034223	2,032620786	1,967796126	2,410774787
<i>Gm16157</i>	2,033681738	2,058721353	2,114421424	1,948871803	2,395669481
<i>Jakmip1</i>	1,832814649	1,978053396	2,008974547	1,956327507	2,288983571
<i>Sp2</i>	1,918716703	1,899949612	2,044646375	1,941074324	2,299167651
<i>Ppm1h</i>	1,982667763	1,906393303	2,174001456	1,916454355	2,338167911
<i>Tpcn1</i>	1,939465744	1,93458672	2,205170839	1,974910011	2,378155792
<i>Chst12</i>	1,970742516	1,846529756	2,236436815	1,947061635	2,299919032
<i>Sema4b</i>	1,782873295	1,90131529	2,25260692	1,879637476	2,347279205
<i>Ptov1</i>	1,883469754	1,936145438	2,301586257	1,900412646	2,301946077
<i>Pitpnm1</i>	2,119884103	2,109161561	2,083675921	2,045040184	2,365261981
<i>Ctsd</i>	2,12554452	2,050666251	2,210365694	1,993265752	2,39617349
<i>Irs3</i>	2,072695325	2,21516481	2,194730659	2,027558221	2,312549877
<i>Tap2</i>	2,243464726	2,145722177	2,120150438	2,033149259	2,314601479
<i>Rnf157</i>	2,267346813	2,111983941	2,231896656	2,086107052	2,288413659
<i>Scamp4</i>	2,256482903	2,073309399	2,158518251	2,192564281	2,358825433
<i>Nck2</i>	2,198735292	2,174144852	2,214439935	1,986126235	2,139566285
<i>Sidt2</i>	2,163979949	2,121903136	2,177675556	2,136986836	2,113876702
<i>Amz2</i>	2,052924625	2,176954473	2,157213738	2,182183637	2,288994439
<i>Commd3</i>	2,030781453	2,146319919	2,207935178	2,256364747	2,162355141
<i>Pop5</i>	2,026067942	2,16136793	2,372853283	2,324605204	2,337960713

<i>Park7</i>	2,079775787	2,180713587	2,34578421	2,216227873	2,350340203
<i>Cd101</i>	1,758810156	2,079677151	2,059191491	2,027072612	2,052614587
<i>Rpa1</i>	1,827886908	2,001557149	2,022085434	1,991814703	2,066159446
<i>Tsc22d4</i>	1,710471146	1,961481584	2,079055257	1,973224025	2,072367726
<i>Ccrn4l</i>	1,717865955	1,951353936	2,131527324	1,951436136	2,145319685
<i>Lcmt2</i>	1,984411433	1,893254732	2,145618837	2,115420628	2,138474835
<i>Ubash3a</i>	1,885568571	2,296239209	2,076193548	2,042996994	2,112398026
<i>Smad3</i>	1,888008142	2,153072739	2,087297784	1,999458421	2,094278144
<i>Zfp710</i>	1,871066457	2,18680886	2,078500233	2,201678167	2,14943206
<i>Dctn6</i>	1,681229111	2,204269023	2,031182246	2,101262242	2,077939853
<i>Mospd3</i>	1,736754528	2,160954653	1,952000061	2,172731217	2,124728335
<i>Snn</i>	1,765117069	2,189319303	2,192860579	2,115499644	1,915341592
<i>Sec22c</i>	1,880851015	2,125215518	2,221494249	2,131087524	1,99084667
<i>Hoxa4</i>	1,845169203	2,127477785	2,430604582	2,098235029	1,901019416
<i>Abcb9</i>	2,088846621	2,075974063	2,104597131	1,975931572	2,167260345
<i>Patz1</i>	2,164325653	2,03211752	2,116062065	1,96141228	2,10711274
<i>Stambpl1</i>	2,058147708	2,038884138	2,077261395	1,922563152	2,063651059
<i>H2-T10</i>	2,005749796	2,065778152	1,895371095	1,94536924	2,093798173
<i>Tbc1d2b</i>	1,936202871	2,11704754	2,199350238	1,892590942	2,185067811
<i>Rgs14</i>	1,997410663	2,118168969	2,215733216	1,926209216	2,147100155
<i>Cmtm7</i>	2,012457743	2,039830598	2,15926298	1,824061237	2,228898326
<i>Bloc1s3</i>	1,972115232	1,94437429	2,087717621	1,877194543	2,150785825
<i>Aff1</i>	1,927309622	1,972756743	2,165627798	1,88277228	2,099104933
<i>U2af1</i>	1,948899648	2,142664567	2,194518517	1,946068022	2,024569188
<i>Scarb2</i>	1,934822904	2,080009022	2,159385564	1,899735268	2,055598198
<i>Mafg</i>	1,932739151	2,196725433	2,087831711	1,868544626	1,970718949
<i>Gngt2</i>	2,009050918	2,101261574	2,232500855	1,817984365	1,882765343
<i>Psmc5</i>	1,904104124	2,043999113	2,056769133	1,634940435	2,072729823
<i>Unc119b</i>	2,084945943	2,066696141	2,118400344	1,623093604	2,132404851
<i>Tmem221</i>	2,117011785	2,16159918	1,925411797	1,625535145	2,058635502
<i>Ppp1r3b</i>	2,240045208	2,411553456	2,329450613	1,815771882	2,028789652
<i>Slamf1</i>	2,279633366	2,200881912	2,330974362	1,888603913	1,933732966
<i>Trib2</i>	2,080797415	2,302552901	2,312855633	2,005276731	2,003002748
<i>Gmfg</i>	2,203177674	2,284729839	2,253279716	2,012222515	2,247628607
<i>Poli</i>	2,191223185	2,244140182	2,323158428	2,118214047	2,245322237
<i>Csrnp1</i>	2,246056441	2,322223143	2,398397481	2,039541504	2,217638965
<i>Traf1</i>	2,173862074	2,167586629	2,349657538	1,975876755	2,264909354
<i>Pitpnm2</i>	2,400783432	2,190087765	2,309288494	1,983508907	2,214237118
<i>Ramp1</i>	2,306690781	2,109564	2,157910237	1,770219965	2,056378339
<i>H6pd</i>	2,236111107	2,043045244	2,218796839	1,789067136	2,289794122
<i>Lrrc1</i>	2,05879802	2,050228024	2,253688079	1,956067946	2,045060999
<i>2810408A11Rik</i>	2,114605345	2,005970914	2,218312881	1,978106815	2,155545489
<i>Gtf2ird1</i>	2,085583626	2,00337833	2,309134985	1,858226475	2,176895742
<i>Yipf3</i>	2,185690879	1,883370185	2,272193378	2,025497108	2,146538121
<i>Pdgb</i>	2,108275516	1,771886297	1,993748864	1,700674092	2,192669881
<i>Scn2b</i>	2,153376444	1,690500742	2,107321946	1,751529416	2,203521394
<i>Lrrc50</i>	2,291415545	1,864178779	2,044465725	1,793993764	2,182676218
<i>Gsk3a</i>	2,572835761	1,941454485	2,115246677	1,826055074	2,154667638
<i>Hyal2</i>	2,471809864	1,822740856	2,082265364	1,829317008	2,240316628
<i>Chchd5</i>	2,404955282	1,797786061	2,076779885	1,747882299	1,971262166
<i>Gpr152</i>	2,505623394	1,782663007	2,117611554	1,792377942	2,043404253

<i>Phlda1</i>	2,411944795	1,894794921	2,144652531	1,841061463	2,042032289
<i>Wbscr27</i>	2,345464822	1,749045021	2,104133607	2,197093492	2,213967358
<i>Trim59</i>	2,300983118	1,81278297	2,141582089	2,165196725	2,506941959
<i>Nudt16</i>	2,299473827	1,735549899	2,421257881	2,138195508	2,274803598
<i>Sla2</i>	2,453129033	2,194746421	2,514349939	1,932232153	2,525234034
<i>Adrb2</i>	2,506076438	2,226373179	2,660510031	1,946025505	2,502542749
<i>Fam65a</i>	2,291403883	2,185258031	2,590825937	1,840067593	2,308599052
<i>Psap</i>	2,494207036	2,147343016	2,374817017	1,814537551	2,432302843
<i>Slc16a5</i>	2,605653138	2,190810236	2,410284606	1,937746929	2,099685707
<i>Thy1</i>	2,531986509	2,00834984	2,441016488	1,892412853	2,178785267
<i>Rnf26</i>	2,453380508	2,181198202	2,733180385	1,876087812	1,905190729
<i>B330016D10Rik</i>	2,242609648	1,944951269	2,65779782	1,748801551	2,086733825
<i>Tob2</i>	2,281777889	2,24860955	2,386655009	1,971307185	2,56013505
<i>Ppp1r9b</i>	2,362125977	2,185971072	2,322514593	2,057192176	2,639033323
<i>Arpc3</i>	2,37280902	2,410782182	2,400498416	2,018730673	2,435420486
<i>Tmem104</i>	2,43309116	2,308069034	2,282240706	2,141448609	2,238382461
<i>Gm11529</i>	2,402412601	2,382004722	2,360899067	2,18569617	2,307577673
<i>1500031L02Rik</i>	2,360017949	2,322945666	2,208447233	2,267349033	2,394860874
<i>Chrac1</i>	2,181617253	2,132373205	2,306380569	2,177165719	2,448301779
<i>Ankrd13a</i>	2,172194567	2,221309563	2,192735176	2,130478182	2,45893156
<i>Gm7367</i>	2,24533006	2,228245085	2,335624602	2,17076159	2,553234462
<i>Fam100b</i>	2,2494362	2,187500511	2,299362817	2,126626903	2,53715632
<i>Pecam1</i>	2,261496744	2,095981118	2,172764956	2,344170597	2,573959409
<i>D19Wsu162e</i>	1,966756384	2,406897323	2,485459227	2,236006957	2,345748317
<i>Lcp2</i>	1,920882225	2,366670176	2,512549124	2,216148074	2,417281524
<i>Abcg1</i>	2,014392932	2,370198256	2,504183096	2,186179494	2,447263863
<i>Ppp2r5c</i>	1,929616748	2,290770297	2,470228452	2,235455956	2,476875676
<i>Slc20a1</i>	1,955236002	2,300505922	2,318802283	2,154296437	2,386127291
<i>Tram1</i>	2,121000148	2,312360956	2,315946652	2,163052644	2,407171042
<i>B3gnt2</i>	2,15650401	2,268423253	2,394728185	2,100558823	2,458341738
<i>Art4</i>	2,106480198	2,394807015	2,426715153	2,059358017	2,365352984
<i>Fam169b</i>	2,0845035	2,209096909	2,45277361	2,163198046	2,546887363
<i>Ifi47</i>	2,027623264	2,15329378	2,522629906	2,27088399	2,438326108
<i>Hvcn1</i>	2,099252668	2,1896862	2,425101378	2,418135512	2,534475236
<i>Klhl9</i>	2,016122678	2,053110083	2,49578458	2,20603717	2,879546317
<i>Ahdc1</i>	1,943619877	2,045144557	2,502785583	2,085912154	2,696402308
<i>Prrc2b</i>	2,056988663	2,305645467	2,648857065	2,203124391	2,697950064
<i>Galnt2</i>	2,175668144	2,229676413	2,612149134	2,237912248	2,621986949
<i>Tbxa2r</i>	2,416195459	1,967913394	2,765205467	2,091984254	2,647002356
<i>Smpd2</i>	2,443529284	1,960226225	2,567636863	2,190620279	2,529771518
<i>Fancf</i>	2,254047366	1,981276547	2,730572763	1,947726043	2,509205483
<i>Nfkbil1</i>	2,591088469	2,375211248	2,239257963	2,097335851	2,520797918
<i>Tmem191c</i>	2,611012427	2,39164718	2,159445035	2,038184855	2,441548434
<i>Ddx54</i>	2,592489104	2,293148031	2,310439859	2,192131025	2,440714191
<i>Fhl3</i>	2,735466925	2,246923867	2,198147092	2,043970824	2,371700059
<i>Trpt1</i>	2,528949515	1,97987797	2,046958363	2,029224028	2,465068801
<i>Cxcr5</i>	2,495141086	2,055849513	2,198434326	2,110313841	2,506602503
<i>Lym7</i>	2,649060104	2,171665574	2,490494223	2,095656043	2,446886146
<i>4930465M20Rik</i>	2,534372357	2,217154306	2,443437713	2,284301464	2,586708083
<i>Hes6</i>	2,694762884	2,000479669	2,409365852	2,275970157	2,608655191
<i>Pelo</i>	2,543078342	2,385704578	2,175140285	2,608183768	2,327605674

<i>Odf3b</i>	2,666714706	2,218842238	2,008537195	2,406174418	2,361909679
<i>2410075B13Rik</i>	2,217658664	2,122790725	2,119729877	2,528785178	2,354405354
<i>Pdlim4</i>	2,249899423	2,114884365	2,111318088	2,382643859	2,24487787
<i>Csf2ra</i>	2,318167473	2,330226568	1,999235545	2,507759856	2,345841837
<i>Prelid1</i>	2,208855351	2,062725503	2,279430285	2,798568568	2,346046024
<i>Otud1</i>	2,251688339	2,125292942	2,453548403	2,90001515	2,302393161
<i>6230427J02Rik</i>	2,058196908	2,145856158	2,472907851	2,844856034	2,451237587
<i>Sephs2</i>	2,341876505	1,950961841	2,331827932	2,594040585	2,62903752
<i>4930542H20Rik</i>	1,993145792	1,969942872	2,547687701	2,405185118	2,34180805
<i>Eif1b</i>	1,903421872	2,060953163	2,729518783	2,507963252	2,383249504
<i>Crlf2</i>	2,115975453	1,753430052	1,88627024	2,014384234	2,457072067
<i>Icam4</i>	2,235218724	1,740579576	1,855078004	1,90864149	2,467925161
<i>Mesdc1</i>	2,016804899	1,50845162	1,854292289	1,947682436	2,40113126
<i>2310047M10Rik</i>	2,42244952	1,684623692	1,574874127	1,943813681	2,569195533
<i>Sco2</i>	1,748740731	1,969202907	1,665600776	2,189168683	2,807653636
<i>Gfer</i>	1,838553541	1,742993213	1,741609682	2,281173293	2,616635185
<i>Rom1</i>	1,975673646	1,611838643	1,865463243	2,383659846	3,49081829
<i>Podnl1</i>	2,129068446	1,687651383	2,093808768	1,950086021	2,609061569
<i>Cd97</i>	2,177064061	1,690319967	2,075346823	1,970540824	2,543874734
<i>Gramd3</i>	2,063217998	1,781044096	2,095308998	2,164668876	2,626170688
<i>Lypla2</i>	1,921812142	1,954799999	2,032957962	1,948206023	2,738971832
<i>Fam167b</i>	2,002060414	2,278138992	2,034727519	2,013493025	2,683120266
<i>Psemb10</i>	2,038943094	2,239995396	2,016599445	2,081311926	2,604614606
<i>Gm10190</i>	2,150336966	2,286515785	1,985073007	1,872554117	2,710166658
<i>Thtpa</i>	2,087847219	2,242522604	1,939675744	2,153464148	2,452889708
<i>Cxxc5</i>	2,477931566	2,094534691	2,495267731	1,788007891	2,810432915
<i>Al837181</i>	2,568802837	1,844644665	2,394235082	1,813218579	3,138533798
<i>Mlf2</i>	1,587956691	1,67903965	1,797103726	2,067342138	1,59181838
<i>Tmem223</i>	1,737530219	1,697150678	1,970299259	1,904336835	1,430990988
<i>Fitm1</i>	1,442296477	1,482201575	2,333232834	2,109467459	1,496820862
<i>Marcksl1</i>	1,942835233	1,810752233	2,377659259	1,83708573	1,709769719
<i>Gpt</i>	1,744207732	1,781608801	2,247680434	1,974504695	1,803475425
<i>Gapdh</i>	2,071108614	1,518198769	2,369623043	1,826350047	1,945750388
<i>Spsb2</i>	2,334458354	1,202451704	1,813864612	1,88397813	1,33431647
<i>H2-Ke6</i>	1,946648916	1,387733907	1,82579613	1,938094155	1,51850867
<i>8430419L09Rik</i>	1,651877572	1,973763137	1,905066103	1,721047248	1,653389579
<i>Fbxw8</i>	1,677847949	1,843598303	1,935334541	1,714579655	1,659663364
<i>Neu1</i>	1,686876733	1,892194609	1,737952121	1,772259697	1,668195887
<i>4930415F15Rik</i>	1,731855604	1,866723322	1,797623161	1,746689872	1,634911627
<i>A830007P12Rik</i>	1,752494324	1,898032148	1,782619538	1,857517442	1,655566319
<i>Tnfrsf10b</i>	1,62837166	1,687028178	1,859353068	1,726388936	1,739643447
<i>Cpm</i>	1,522070088	1,761132448	1,89247704	1,816686591	1,796986999
<i>Dnajc3</i>	1,654002068	1,677154693	1,838999209	1,577682142	1,798935359
<i>Heatr2</i>	1,674275624	1,692836218	1,835960384	1,578007771	1,789997353
<i>Tcf25</i>	1,664367016	1,767134037	1,816492276	1,660398937	1,869861012
<i>Mier1</i>	1,724245853	1,814168272	1,885907241	1,529581594	1,727003942
<i>Stat3</i>	1,830305124	1,776954709	1,791951493	1,744913855	1,793300441
<i>Arid1b</i>	1,766119081	1,807316464	1,787977115	1,758545559	1,762949412
<i>Rcbtb2</i>	1,839043563	1,861157748	1,838617451	1,68412737	1,828248041
<i>Enthd1</i>	1,806742308	1,69261389	1,844850587	1,693058972	1,886157021
<i>Soat1</i>	1,819867484	1,782670342	1,819978945	1,648375111	1,92649131

<i>Atp6v0a2</i>	1,810640026	1,808138313	1,982521647	1,557728683	1,847508177
<i>Cacnb1</i>	1,884956691	1,730870159	2,065795823	1,644290954	1,806489088
<i>Pycard</i>	1,715714517	1,804433343	2,096011784	1,730374802	1,740603961
<i>1700122O11Rik</i>	1,759051169	1,699339674	2,066393512	1,830557432	1,858982127
<i>BC051537</i>	1,664877071	1,630558913	1,999545482	1,780775751	1,949944341
<i>Tradd</i>	1,79984095	1,724920515	1,894521107	1,853861461	1,953559525
<i>Rab11fip4</i>	1,825064853	1,707314851	1,981773851	1,816671387	2,031274799
<i>Abhd2</i>	1,423859943	1,699380407	1,818781552	1,733232351	1,95142812
<i>Cyfp2</i>	1,395119636	1,747812354	1,858187725	1,760983415	1,974662306
<i>Rrp1</i>	1,394829172	1,756673836	1,776249322	1,705556012	2,050358044
<i>Mtmr12</i>	1,50591819	1,716230795	1,763026731	1,785710429	1,91013314
<i>Tbcel</i>	1,526029796	1,744682586	1,780748888	1,815370136	2,002268648
<i>Spata2l</i>	1,513075535	1,767812472	1,786043914	1,664246316	1,943800854
<i>4921511C10Rik</i>	1,518955141	1,745441317	1,771395166	1,595428167	1,875045734
<i>3110082I17Rik</i>	1,447980569	1,756633455	1,712049995	1,685199056	1,896399807
<i>Cisd2</i>	1,378757336	1,649144646	1,746382906	1,646946104	1,887764407
<i>Churc1</i>	1,387176152	1,903029818	1,818395306	1,819185324	1,849186307
<i>Mfhas1</i>	1,358996514	1,862614213	1,860958151	1,757527256	1,83993871
<i>1110014N23Rik</i>	1,417894747	1,871724342	1,720262715	1,817315969	1,906905627
<i>1700003F17Rik</i>	1,591780984	1,922209338	1,96362924	1,898345707	1,860909129
<i>Zbtb38</i>	1,531237658	1,959520845	1,909990143	1,812180125	1,923971488
<i>Foxn3</i>	1,61914993	1,938241163	1,84822199	1,877014374	1,787789465
<i>Ppard</i>	1,643251079	1,880067903	1,988527523	1,757907483	1,952517096
<i>Klf7</i>	1,646627433	1,907191139	1,926151798	1,701197551	1,887231914
<i>Trak1</i>	1,493744375	1,841559377	1,801984893	1,934063635	1,857418518
<i>Zmiz1</i>	1,602525411	1,824385682	1,839210529	1,916816229	1,962185587
<i>Rgmb</i>	1,457654095	1,844687721	1,936364198	1,872288566	2,003413927
<i>Spata13</i>	1,793710591	1,905565945	1,973313116	1,713119403	1,902306871
<i>Rest</i>	1,829445292	1,944367144	2,0138698	1,631182563	1,952936167
<i>Cbr1</i>	1,735964087	2,020666174	2,044753487	1,568839379	1,79303526
<i>Klhdc7b</i>	1,751155439	2,03457054	2,201423341	1,593615926	1,964842134
<i>Gm614</i>	2,002679814	1,947041643	1,912794596	1,60476124	1,827569108
<i>Il12rb1</i>	1,991748049	1,797201296	1,904668076	1,486940733	1,872332341
<i>E130317F20Rik</i>	1,911402535	1,954666471	1,907360374	1,380004877	1,957649394
<i>Lmnb1</i>	1,751041507	1,756731361	1,971221671	1,58492202	1,973431972
<i>Rai1</i>	1,657569412	1,737111269	1,934139405	1,574588606	1,958829921
<i>Ptch1</i>	1,723327934	1,704530619	2,067580001	1,459362359	2,036214191
<i>Slc11a2</i>	1,789815318	1,696890434	1,948201572	1,454067325	2,064679391
<i>Rcor2</i>	1,769696142	1,713484418	1,855283434	1,477051502	2,019491636
<i>Pura</i>	1,610329541	1,944869421	1,861471342	1,518578757	2,013014997
<i>Unc13d</i>	1,642590955	1,60090854	1,654729956	1,615812627	2,060292387
<i>Haghl</i>	1,697050448	1,666122793	1,600503881	1,55495822	2,077655941
<i>Fam109a</i>	1,752679867	1,693858318	1,716596739	1,404673877	2,114702641
<i>Calm3</i>	1,800787431	1,589195897	1,780559085	1,673664359	2,102536475
<i>Trim14</i>	1,80331144	1,696341346	1,767291893	1,659342941	2,12185007
<i>Tom34</i>	1,869652374	1,668790307	1,826973672	1,670071519	2,038142118
<i>Anp32e</i>	1,737216495	1,561642092	1,892134874	1,602866013	2,16208155
<i>Mrps12</i>	1,831864907	1,476009692	1,601358105	1,674804272	2,100254817
<i>1700001G11Rik</i>	1,895411217	1,594038191	1,528890041	1,494553568	2,143298785
<i>Rhbd1l</i>	2,072646576	1,648250773	1,853885702	1,544754916	2,216180685
<i>Gamt</i>	2,075120528	1,615723199	1,722084978	1,514534755	2,142474216

<i>Dnajc15</i>	2,022404611	1,628656976	1,831810018	1,377735776	2,10249067
<i>Padi2</i>	1,996440148	1,6873642	1,808533623	1,619047349	1,723307747
<i>Agfg2</i>	1,957173142	1,62504623	1,919496691	1,675749284	1,805278413
<i>Hmbs</i>	1,942697971	1,460350103	1,789489766	1,705659239	1,778230895
<i>Mcam</i>	1,838095501	1,593383649	1,800794374	1,524673662	1,887258624
<i>Trpc4ap</i>	1,866946892	1,603457921	1,858791136	1,595162475	1,848940195
<i>Tmem50b</i>	1,942395341	1,631748289	1,753333088	1,67550667	1,93039428
<i>Idh2</i>	1,9852977	1,838259084	1,921796705	1,889613215	1,940227314
<i>Sft2d2</i>	1,968973104	1,912418938	1,919665384	1,870540022	1,903542428
<i>Crtc3</i>	1,839164429	1,848984313	1,895611745	1,81437672	1,914582178
<i>Tnf</i>	2,003258161	1,630456592	1,865608599	1,965315836	1,910757476
<i>Notch1</i>	2,090167559	1,819017388	1,87835783	1,812883342	2,124692371
<i>Med29</i>	2,036887598	1,778783283	1,889151052	1,835334589	2,056550932
<i>1190002F15Rik</i>	2,11655269	1,899953602	1,888589911	1,959042357	2,080026787
<i>Srebfb2</i>	1,937539423	1,779588321	1,976096706	1,809389166	2,100666851
<i>Gm19557</i>	1,927610889	1,825376656	1,860204004	1,795724328	2,082709032
<i>Fam117a</i>	1,925281108	1,740532022	1,968510174	1,683612607	2,141433514
<i>6330512M04Rik</i>	2,046493604	1,7166237	1,893193525	1,694892383	1,968590328
<i>Ifngr1</i>	2,162621966	1,783312395	1,822553568	1,668169503	1,775116003
<i>Gm15408</i>	2,134259405	1,774069451	1,848093102	1,612871652	1,854165176
<i>Poc1b</i>	2,071015809	1,827354878	1,782141327	1,641528441	1,81881248
<i>Reep4</i>	2,100242247	1,798202384	1,658123249	1,831797425	1,929540332
<i>Hmg20b</i>	1,685358454	1,560560837	1,853736547	1,573158633	1,980903514
<i>Tmem201</i>	1,669404152	1,617732702	1,861780428	1,687187269	1,960066301
<i>0610011F06Rik</i>	1,683990038	1,381569389	1,792007545	1,647998991	1,912082738
<i>Gm12216</i>	1,628603652	1,505731288	1,717241635	1,565873854	1,993141214
<i>Wdr24</i>	1,552281808	1,554882953	1,631815945	1,49417913	1,899260384
<i>Rftn1</i>	1,629281943	1,591648289	1,795576204	1,564336793	1,854565804
<i>Cdk2ap1</i>	1,605668476	1,598135795	1,788804137	1,461448932	1,812835234
<i>Etohd2</i>	1,653565667	1,663321534	1,763324207	1,550308637	1,910737818
<i>F12</i>	1,614801852	1,648303674	1,690946806	1,538630839	1,86302977
<i>Ankrd39</i>	1,641139103	1,714527152	1,764680134	1,631125288	2,176351552
<i>Rpl36al</i>	1,549566466	1,676918929	1,67394473	1,651721382	2,259040938
<i>2900010M23Rik</i>	1,487884184	1,773435563	1,763557302	1,592962612	2,074301821
<i>Fam100a</i>	1,72429409	1,723201196	1,459606426	1,844467806	1,855541541
<i>Hmga2-ps1</i>	1,711252744	1,592581739	1,449094245	1,699048457	1,991266004
<i>Rhbdf2</i>	1,826881434	1,647425605	1,611538379	1,738493877	1,84992387
<i>Tmem42</i>	1,836062024	1,606393094	1,571169781	1,710527499	1,805570009
<i>1700007I08Rik</i>	1,882724802	1,527526724	1,488575477	1,682477643	1,909307903
<i>Cdc6</i>	1,829587806	1,759475751	1,664594504	1,668157618	1,852232938
<i>Fam110a</i>	1,781793218	1,759935776	1,66087539	1,5686797	1,86432566
<i>Adora2a</i>	1,73600277	1,680125754	1,589264785	1,641480301	1,875599338
<i>Itga6</i>	1,524112805	1,665921414	1,598977413	1,881662612	1,852922365
<i>Cdkn1b</i>	1,721698592	1,612832976	1,722967674	1,796046085	1,841607798
<i>Abca7</i>	1,499333519	1,530629014	1,562459944	1,686932973	1,96955731
<i>Setd4</i>	1,506199385	1,568414416	1,604386339	1,700243037	1,849952709
<i>Gm19705</i>	1,460498496	1,544409262	1,695293266	1,757952947	2,025390497
<i>Tmem179b</i>	1,518886709	1,401991531	1,65646856	1,981137678	1,800688627
<i>Cilp2</i>	1,604818933	1,53758912	1,73488563	2,052678122	1,940888633
<i>Crip1</i>	1,423834365	1,471835069	1,587450944	1,961760319	1,997788527
<i>Ttc13</i>	1,486408909	1,539037817	1,673730904	1,919417363	2,016673359

<i>Rasal1</i>	1,560935013	1,477419349	1,616534257	1,945783158	2,091613767
<i>Dusp28</i>	1,717403297	1,298152611	1,693753338	2,089275232	2,018560912
<i>Gstt2</i>	1,683800558	1,370531964	1,7723294	2,038803264	1,91714566
<i>Insl3</i>	1,756360187	1,121067191	1,894574055	1,953336513	1,956166142
<i>Cbl</i>	1,608316853	2,134685705	2,230206044	2,093692934	2,23508985
<i>Dusp4</i>	1,708547679	2,191511095	2,138185333	1,985663823	2,189183764
<i>Fam160b1</i>	1,720932063	2,153782634	2,169613981	2,251078641	2,30537924
<i>LOC100859962</i>	1,671801902	2,182096179	2,040731747	2,264632014	2,213178267
<i>Cflar</i>	1,638649513	2,313309876	2,276370872	2,176890437	2,324174862
<i>Pip4k2a</i>	1,582572084	2,361594839	2,315473551	2,191968638	2,201689341
<i>Grb2</i>	1,700798912	2,230214743	2,296010402	2,211780657	2,452061245
<i>Orai1</i>	1,781910344	2,222422507	2,311864517	2,299000819	2,377743129
<i>2810432D09Rik</i>	1,844849294	2,24639941	2,198524693	2,341840807	2,416981639
<i>Gm11541</i>	1,879923929	2,509896839	2,333306212	2,260092727	2,253446231
<i>Extl3</i>	1,92598088	2,526935918	2,235609089	2,297808944	2,095663317
<i>2310033P09Rik</i>	1,897405087	2,525374665	2,19109929	2,495718642	2,250656589
<i>Mtss1</i>	1,975938358	2,315588092	2,135846179	2,31347744	2,033944256
<i>Lymr2</i>	1,578439232	2,393426359	2,478216432	2,011714469	1,905165578
<i>B230217C12Rik</i>	1,633512626	2,633388061	2,267427017	1,839311845	2,17170983
<i>Nr4a1</i>	1,365355909	2,731912748	2,512943153	2,224577487	1,96576933
<i>Zbtb7b</i>	1,586110668	3,391044633	1,950460272	2,620702305	1,772729675
<i>Gm15708</i>	1,791020458	2,506353895	1,750574803	2,534586157	1,936547822
<i>6430562O15Rik</i>	2,171532224	2,765715053	2,27770107	2,363642946	1,685392334
<i>Dusp6</i>	1,955915534	2,762664992	2,374217317	2,261858197	2,035421225
<i>Ppp1r35</i>	1,964712552	2,191881688	1,735078265	2,022600341	1,886600821
<i>Arhgef10</i>	1,852296977	2,043006735	1,792189529	1,979027734	1,683421059
<i>4931406H21Rik</i>	1,705638342	2,244291831	1,634866826	1,819857699	1,894227643
<i>Ptpn7</i>	1,557008666	2,138313151	1,627411756	1,918047145	1,79928199
<i>Gimap6</i>	1,679096657	2,265517947	2,033482769	1,906355582	2,078683684
<i>Nsg2</i>	1,746241892	2,12952579	1,869072785	1,931864628	1,965965431
<i>Tspan31</i>	1,911796335	2,308564886	1,962525465	1,91015037	1,908036576
<i>Med13l</i>	1,869698632	2,116221016	1,999834757	2,011941495	1,915640608
<i>Jund</i>	1,811248944	2,064724428	2,090319844	1,858489045	1,866446296
<i>Irf4</i>	1,812355383	2,266555767	1,845977923	1,821462446	1,680094741
<i>Chdh</i>	1,721484616	2,301444433	2,001239801	1,817767827	1,488621206
<i>Asb2</i>	1,696152582	2,480843444	1,899605024	2,026713358	1,490148474
<i>Il17rb</i>	1,540485524	2,443092051	1,997449469	2,244390329	1,57928896
<i>Gadd45a</i>	1,32129518	2,585010265	1,777549431	2,280364515	1,615783828
<i>4933427E11Rik</i>	1,319196642	2,080561669	2,40081713	2,720587181	1,431154013
<i>B4galnt1</i>	1,617504161	2,433623105	2,882933985	2,511359511	1,207820627
<i>2010016I18Rik</i>	1,735672183	3,078394915	2,656402316	1,315884215	1,401801073
<i>Limd2</i>	1,955228853	3,41325255	2,795574382	1,281069262	1,990316732
<i>Psenen</i>	1,62761086	2,643462888	2,646292616	0,870415915	1,992339032
<i>4930453N24Rik</i>	0,983619947	2,23115536	2,268927583	2,358055391	2,440426279
<i>Usp12</i>	0,830595752	2,286559873	2,392217807	2,301829892	2,501783147
<i>Apol9b</i>	0,618015113	2,359433438	2,190264544	2,500288213	2,286532043
<i>Ccnl1</i>	0,663624381	2,100970607	2,473607208	2,279288606	2,449612523
<i>Ppm1b</i>	0,619979754	2,200729387	2,315719292	2,244735139	2,382468868
<i>Elk4</i>	0,805254892	2,08246745	2,355101941	2,118595971	2,476897667
<i>Rpl34-ps1</i>	0,730352944	1,857332486	2,41073044	2,255058338	2,435964372
<i>Rpl34</i>	0,729143775	1,860090546	2,416705262	2,242389633	2,447110692

<i>Peli1</i>	0,720739603	1,886088679	2,457890374	2,275288935	2,36139382
<i>Hspa8</i>	0,786415561	1,880816231	2,286014284	2,253295733	2,228761371
<i>Vim</i>	0,411484779	2,161636972	2,085158115	2,389592944	2,597801792
<i>Rgs3</i>	0,668949546	2,244247276	2,335255764	2,376882014	2,723275434
<i>Hspa5</i>	0,392800634	1,977927811	2,406847795	2,342994503	2,457474594
<i>Egr2</i>	0,46644389	2,57732462	2,533227936	2,153941628	2,305315562
<i>Bcl2</i>	0,517468563	2,024966522	2,152563302	2,079690137	2,184272544
<i>Gpr65</i>	0,37015133	2,208993269	2,214691479	2,111274521	2,192007773
<i>Samhd1</i>	0,442259952	2,125150022	1,950971641	2,191159196	2,149378026
<i>Bach2</i>	0,256310906	2,17643525	1,966720325	2,224318063	2,086030069
<i>4932438H23Rik</i>	0,603463255	2,437631918	2,001265615	2,054679988	1,826977916
<i>Id2</i>	0,650512557	2,316483368	2,152438989	2,059020549	1,645207201
<i>1700064M15Rik</i>	0,614089311	2,130124771	2,427966566	2,435826953	1,66613442
<i>Yy1</i>	1,08628414	2,160514681	2,420294572	2,301233826	2,333989324
<i>Rhog</i>	1,029527828	2,189907277	2,411369078	2,162236619	2,340902288
<i>Fam168b</i>	1,049054281	2,242009203	2,274103821	2,217002632	2,320255696
<i>Pigx</i>	1,209126247	2,137195057	2,295212566	2,216044632	2,443138981
<i>Pgam2</i>	1,127092991	2,158346621	2,303350114	2,219736857	2,483734138
<i>Mgea5</i>	1,150599305	2,021544475	2,258905006	2,292033361	2,432292509
<i>B230319C09Rik</i>	1,232165219	2,139524502	2,4010075	2,481587208	2,290624328
<i>Zfp740</i>	1,138948968	2,03803081	2,455699359	2,513521307	2,456502571
<i>Rbm4</i>	1,181827353	2,442583864	2,24511779	2,199919144	2,23866618
<i>4732490B19Rik</i>	1,179248799	2,36410423	2,147730968	2,239337047	2,462228454
<i>Itgb3</i>	1,179142205	2,45146928	2,196690576	2,462588935	2,128181904
<i>Wibg</i>	1,142628806	1,880392018	2,126995588	2,37546852	2,446173155
<i>Dgka</i>	1,103419766	1,937322837	2,222835879	2,426740596	2,558596523
<i>Srpk1</i>	1,055676827	1,956012276	2,059570079	2,31667131	2,552293337
<i>Tecpr1</i>	1,137635454	1,983575012	1,917966573	2,40541039	2,340650576
<i>Herpud1</i>	1,205574342	1,859696887	2,010152905	2,397306172	2,338220904
<i>Tnfrsf4</i>	0,945070015	2,7124157	1,949876233	2,522649789	2,45423396
<i>B3galt6</i>	0,833865395	2,219965312	1,897033692	2,670990495	2,51469671
<i>1700030A11Rik</i>	0,729490293	2,095340666	2,299176614	2,103993208	2,056374721
<i>Sfpq</i>	0,937659213	2,060517384	2,213950652	2,09532316	1,981821601
<i>Gm11648</i>	0,905969274	2,097009062	2,209743868	2,361179534	2,229903731
<i>Tbrg3</i>	1,001716103	2,151860759	2,298396868	1,960044675	2,302028849
<i>Msl2</i>	1,056194186	2,091702541	2,281666535	2,082823938	2,283658848
<i>Arpc2</i>	1,085104032	2,161503471	2,289296952	2,059443931	2,101991503
<i>Ecm1</i>	1,104951079	2,242848506	2,380138499	2,068267913	2,12238249
<i>Hnrnph1</i>	0,841055259	2,136255114	2,154785332	2,03060197	2,19487211
<i>Cd69</i>	0,824415406	2,257170754	2,212196745	2,026632079	2,210600898
<i>Cytip</i>	0,935952419	2,216441477	2,112170048	2,081129793	2,253569906
<i>Mpdu1</i>	0,870643246	2,218096713	1,925885891	2,037468552	2,278724648
<i>Mapk11</i>	0,929031734	2,45973153	2,086675331	1,89959309	2,147675945
<i>Parp3</i>	0,890734305	1,912686901	1,959015704	2,327165987	1,930017482
<i>Tgfbr3</i>	0,920203791	2,197619029	1,954262888	2,334157304	1,982715377
<i>St6gal1</i>	1,222236233	2,145242221	1,89944056	2,082917242	2,000501427
<i>Chrm4</i>	1,188404046	2,158542911	1,821764802	2,337949299	1,909486416
<i>2700046G09Rik</i>	1,001626171	2,533244925	1,861099392	3,062008344	2,228550613
<i>Ptgir</i>	0,995464585	3,198637126	1,723099072	2,941584283	2,012165194

	Intragenic 5hmC (log2 CMS-IP/Input)					
Gene symbol	DP	CD4 SP	CD8 SP	naïve CD4	naïve CD8	
<i>Gm2933</i>	3,448326137	-3,724399252		0	1,976219967	4,325400807
<i>Gm3706</i>	3,267143236	-2,65882614		0	0	3,215164477
<i>Gm2913</i>	3,263841188	0		0	1,558883275	0

Cluster 4	Intragenic 5hmC (log2 CMS-IP/Input)				
Gene symbol	DP	CD4 SP	CD8 SP	naïve CD4	naïve CD8
<i>Olfr1392</i>	-0,223912088	0,858279175	0,90091131	0,464962906	1,271816676
<i>Cycs</i>	0,086803616	0,741634511	0,739809028	0,312252723	1,306362714
<i>Bcl2a1b</i>	0,021365981	0,745216589	0,697392728	0,463155105	1,020354199
<i>Acbd6</i>	0,074096635	0,654258587	0,691568729	0,474578972	1,051701791
<i>Mia1</i>	-0,036477438	0,765707337	0,545577577	0,536359831	1,199572622
<i>Tnfrsf12a</i>	0,021776509	1,33028447	0,767723423	0,077422136	1,152475264
<i>Cd63</i>	0,275049936	0,786134242	0,195991309	0,228111586	1,491290613
<i>Chchd1</i>	0,015717148	0,882763862	0,163340878	0,110860275	1,534338849
<i>Sra1</i>	0,086979919	0,823561072	0,283296107	0,324888332	1,155619142
<i>Spata25</i>	-0,107954733	0,654039232	0,230514875	0,637133023	1,569455003
<i>Ppcs</i>	0,400566022	0,679960269	0,642866745	0,398608075	1,638389472
<i>Cox7a1</i>	0,696612182	0,972026816	0,588722272	0,13548295	1,114641665
<i>Tacstd2</i>	0,927274844	1,268582923	0,683628594	0,151350949	1,184105432
<i>Hddc3</i>	0,542850533	1,226608063	0,421519301	-0,016835312	0,72263004
<i>Klrc3</i>	-0,367834538	0,074658987	0,118949908	-0,228592136	1,415945929
<i>Tmem181c-ps</i>	0	0	0	-1,921116374	1,320114931
<i>3000002C10Rik</i>	-0,121057007	-0,277806392	-0,22186403	0,217646651	1,318515862
<i>Dmrtc1c1</i>	0	-1,315398128	0	-1,660312573	1,731613379
<i>Dmrtc1c2</i>	0	-1,315398128	0	-1,660312573	1,731613379
<i>Adam1b</i>	0,364431904	0,033187154	0,383537947	-0,02423943	1,658781714
<i>Lrrc4</i>	0,252999287	-0,143501781	0,284109694	0,099913286	1,361929214
<i>Olfr30</i>	0,707859839	0,60229071	-0,641315138	-0,525571647	1,256223923
<i>Gm7092</i>	0,95647743	-0,3277396	-0,165361016	-0,118449599	1,169189414
<i>Vmn2r36</i>	-1,006477564	1,196298582	-1,128656339	0,050718971	-0,662300309
<i>Cngb1</i>	0	1,030124161	-0,712234786	0	-0,956267092
<i>2310081J21Rik</i>	-2,485566724	1,503465724	-0,899189035	-4,488302908	1,009098009
<i>A430092G05Rik</i>	-0,074909497	0,686086317	0,577925564	1,437498696	0,735113707
<i>Gdap10</i>	0,15677194	0,811763154	0,89034618	1,353672091	0,734256977
<i>Nkapl</i>	0,372475177	0,391447054	0,717900077	1,373849567	0,951530091
<i>Gm2518</i>	0,423645368	0,597718081	0,795575077	1,325888964	0,77622772
<i>Pja1</i>	0,099322464	0,575479744	0,825298272	1,132363301	0,55333631
<i>B130034C11Rik</i>	0,171286257	0,517437239	0,685399236	1,067538984	0,510706117
<i>9230116N13Rik</i>	-0,039070606	0,608324272	0,961536979	1,071941275	0,508987339
<i>BC003965</i>	0,606026845	0,576052225	0,698341598	1,003760918	0,823675509
<i>D930048N14Rik</i>	0,699196268	0,529757918	0,779968088	1,011541833	0,680203399
<i>Rgs9bp</i>	0,809013353	0,469831758	0,62640252	1,084259847	0,497820136
<i>Grhpr</i>	0,742829433	0,631444487	0,668694346	1,130116626	0,810859879
<i>Rpa3</i>	0,843187394	0,593747943	0,566113952	1,248718076	0,768972424
<i>Nle1</i>	0,783006393	0,645921227	0,540549675	1,099172386	1,009097514
<i>6530401N04Rik</i>	0,355420915	0,668776972	0,506185558	1,160082009	0,613120586
<i>Pacsin2</i>	0,313037713	0,73860902	0,435655279	1,022000311	0,720899637
<i>Pttg1</i>	0,558315283	0,727002886	0,351267662	1,077123914	0,758962675

<i>Prph</i>	0,586152257	0,602569691	0,242743023	1,143700329	0,403947415
<i>Ifnk</i>	-0,023066545	0,374692265	0,132681434	1,147889287	0,703333077
<i>Vpreb3</i>	-0,03648486	0,198404043	0,165193099	1,282315828	0,432256444
<i>B3gnt4</i>	0,279505912	0,409890914	0,149901917	1,465198406	0,588867076
<i>Rnase10</i>	-0,240935862	0,695578997	0,295041161	1,230841822	0,439992214
<i>St8sia6</i>	-0,056791956	0,726172834	0,348775609	1,019239635	0,353037078
<i>Arl4d</i>	0,07565439	0,738012813	0,180552235	1,006463931	0,634648046
<i>lbtk</i>	0,106502226	0,435735303	0,442072844	1,105120044	0,586569589
<i>Gpihbp1</i>	-0,511830038	0,679404188	-0,116793221	1,268423599	0,945428064
<i>Tmem120a</i>	0,513083195	0,907920931	0,595817012	1,059766787	0,612070722
<i>F730043M19Rik</i>	0,526958991	0,841169918	0,77950886	1,072093696	0,638356052
<i>Bcl9</i>	0,293372312	0,848078593	0,785594387	1,089609945	0,598629175
<i>Lgmn</i>	0,53538996	1,04700221	0,684076352	1,131790782	0,454695211
<i>Al317395</i>	0,434237591	0,940290894	0,583859205	1,180861703	0,398059559
<i>Atp1a2</i>	0,356364382	0,991914734	0,663529012	1,082481888	0,783791348
<i>Znrd1as</i>	0,381632519	1,023983231	0,557607312	0,900074363	0,713263529
<i>Cyp27b1</i>	0,566728144	1,038916878	0,548049653	1,073252718	0,851322617
<i>1700034O15Rik</i>	0,270875409	1,01253039	0,379218983	0,882944265	0,499784502
<i>Fcrl1</i>	0,289727509	1,042812746	0,424542944	0,959927334	0,624302628
<i>Cd200r1</i>	0,09773461	1,116162391	0,456813488	1,054230276	0,466018978
<i>Siah3</i>	0,262742723	0,809749031	0,432926117	1,016496785	0,415429752
<i>Stk39</i>	0,336468522	1,039975074	0,690479014	0,937612355	0,53143318
<i>Atp6v1e2</i>	0,312698947	1,110518153	0,620167682	0,868732714	0,619273249
<i>Spef1</i>	0,646046306	0,849950866	0,567416053	1,090507279	0,215132759
<i>Dbil5</i>	0,669056048	0,890269078	0,663585099	1,066733967	0,047723596
<i>Uox</i>	0,453468312	1,423270985	0,504453864	1,15000018	0,156623088
<i>4933406C10Rik</i>	0,237075031	1,026213123	0,427283422	0,857865944	0,29097803
<i>BC048562</i>	0,352034324	1,110541887	0,475127859	0,927459669	0,245490983
<i>Gm14718</i>	0,360937962	1,176321196	0,23263508	0,882999412	0,253768845
<i>Csf2</i>	-0,015693868	1,008831213	0,308351521	0,86962989	0,347825446
<i>Gm9958</i>	0,137607007	1,371628285	0,348337627	0,713782522	0,270529046
<i>Dcst1</i>	0,16867966	1,154822911	0,006305079	0,929858688	0,159574849
<i>Gm4971</i>	-0,294614927	-0,006421195	0,437954171	1,088718765	0,548367632
<i>Rpl22l1</i>	-0,391117434	0,091377457	0,399655221	1,042682534	0,531498309
<i>Hspe1</i>	-0,061858694	0,038452565	0,417213957	1,239010223	0,837849044
<i>Mrpl36</i>	0,535738093	0,211646329	0,534444634	1,233747344	0,299500071
<i>Gm2825</i>	-1,12409425	-4,788899698	0	1,431573527	-3,122884718
<i>Olfir697</i>	-0,08879425	-2,233755269	-1,290249076	1,08919416	-0,281289849
<i>Alpk2</i>	0,07667923	0,732118395	0,709998037	1,050901671	1,071609781
<i>Gm14446</i>	-0,224792961	0,740846257	0,646119965	1,033109662	1,089453503
<i>Thyn1</i>	-0,092031484	0,687555021	0,616688544	1,082257808	1,215048834
<i>Aqr</i>	0,109720376	0,678163113	0,738978298	1,254110263	1,247204233
<i>Malt1</i>	-0,0565527	0,653475012	0,782434824	1,151766577	1,25502622
<i>Mrps30</i>	0,107431231	0,566520026	0,874774138	0,948418271	1,120681538
<i>Serinc1</i>	0,076547739	0,638255776	0,929975575	1,039415999	1,076087401
<i>Snrpf</i>	-0,211114695	0,596610496	0,811889205	1,001115662	1,016586599
<i>Pydc3</i>	-0,205374486	0,515640554	0,798136419	1,031098872	1,114269375
<i>AU019990</i>	0,09574132	0,470087854	0,800276939	1,058366691	1,155438099
<i>Rnf138</i>	0,060971922	0,570334629	0,787318287	1,118655752	1,124804124
<i>Gatad2b</i>	0,095137612	0,644138896	0,625338746	0,731144032	1,314840013
<i>Rps5</i>	0,15629377	0,803154411	0,693132259	0,784877376	1,309160191

<i>Ctrl</i>	0,17362167	0,794067942	0,503127346	0,788630423	1,226590416
<i>Z410004N09Rik</i>	0,122292164	0,696430567	0,519329506	1,013362424	1,408520081
<i>PsmA2</i>	-0,042979423	0,709567742	0,88932185	0,850812775	1,294875887
<i>Xrn2</i>	0,050744235	0,616497942	0,859037922	0,815291059	1,359896447
<i>Pdcd10</i>	0,005492318	0,685409074	0,960309821	0,917407331	1,380662545
<i>Ctsc</i>	-0,094755762	0,716244489	0,977843488	0,91384961	1,373116174
<i>Ptp4a1</i>	0,122163228	0,811613907	0,874972421	1,031036455	1,454422411
<i>Psmc4</i>	0,164818399	0,978352653	0,737796935	0,620470331	1,36018622
<i>Hist2h3c2</i>	0,256890167	0,94013852	0,718276262	0,768124384	1,525305474
<i>Unc50</i>	0,454930061	0,655641745	0,742919486	0,921084079	1,384008378
<i>9430023L20Rik</i>	0,419088169	0,782730739	0,694906173	0,939461034	1,454022044
<i>Tfjp11</i>	0,35951895	0,709822159	0,693962105	0,758250722	1,426487286
<i>Slc25a2</i>	0,321999233	0,624888653	0,809640586	0,853590842	1,33410427
<i>Eef1d</i>	0,324831528	0,76268503	0,836727003	0,934062051	1,360113136
<i>Plac8</i>	0,472081961	0,675801015	0,830306584	0,780259474	1,267277967
<i>Spryd3</i>	0,441241564	0,58146777	0,852965041	0,821290027	1,277796675
<i>Fxyd4</i>	0,39594606	0,617852453	0,829740284	0,691240689	1,261228298
<i>Zfp259</i>	0,340493778	0,489598933	0,760250154	0,759934569	1,32837636
<i>Polr2g</i>	0,249191448	0,7268294	0,836478046	0,933529724	1,035796686
<i>Sf3b3</i>	0,225552915	0,676806177	0,905627308	0,9262934	1,042113278
<i>Zfc3h1</i>	0,188449046	0,751349379	0,889152422	0,873878815	1,000858926
<i>Bmi1</i>	0,214624124	0,741724281	0,932343965	1,013589431	1,000766848
<i>Cdc27</i>	0,229056525	0,786455453	0,925316957	1,015320196	0,954403232
<i>Nktr</i>	0,25497714	0,783292922	0,939781094	1,00345917	1,034512405
<i>Ubap2</i>	0,334052008	0,811408288	0,889501677	0,908237202	1,031785799
<i>Pcmt1</i>	0,323673568	0,758642173	0,849041073	0,914869568	1,041534018
<i>Appbp2</i>	0,317863339	0,724737491	0,909447703	0,969802226	1,005981039
<i>Cse1l</i>	0,359928814	0,817615494	0,896403333	0,973193221	1,11775303
<i>Eef1g</i>	0,32024867	0,764786454	0,933776302	0,980058809	1,151165762
<i>Phf3</i>	0,359092531	0,78747139	1,02356415	0,872104248	1,059476797
<i>Cdc26</i>	0,347807471	0,743828652	1,053006497	0,858248651	1,087507363
<i>4933425H06Rik</i>	0,298911157	0,725132485	1,035141401	0,823481785	1,002346307
<i>Acsl4</i>	0,250154731	0,821858266	1,077076456	0,856866111	0,995823944
<i>Dcp1b</i>	0,257919776	0,678354114	1,004127651	0,920173642	0,996326922
<i>Aftph</i>	0,412079214	0,817099429	1,017605749	0,913763136	0,958937561
<i>Galnt1</i>	0,406429808	0,802728538	1,002447332	0,89813111	1,017797458
<i>Samd8</i>	0,27284456	0,835370325	0,965988917	0,830248726	1,072190407
<i>Mllt10</i>	0,269470919	0,801914224	0,925644581	0,843478901	1,009723509
<i>Gspt1</i>	0,307585193	0,805234644	0,896215372	0,859528673	1,067718251
<i>8030462N17Rik</i>	0,249447068	0,809847083	0,899701596	0,877295303	1,090762804
<i>Arpc5l</i>	0,229536761	0,846652451	0,90125854	0,915427533	1,03895701
<i>Kif2a</i>	0,227021834	0,80347492	0,90868087	0,897256389	1,022394731
<i>Eif3j</i>	0,301054113	0,801297589	0,995913065	0,83313404	1,121723822
<i>Gm9781</i>	0,301056616	0,798752761	0,993759032	0,833132605	1,121719938
<i>Hemk1</i>	0,286105457	0,831647462	1,011334969	0,838555084	1,157660138
<i>Map3k2</i>	0,29634752	0,753781603	0,969932204	0,870155409	1,113360756
<i>Tiprl</i>	0,378885226	0,786795692	0,932615118	0,846103501	1,141022953
<i>Mlxip</i>	0,416756133	0,760927443	0,94789612	0,885638655	1,131968756
<i>Mettl11a</i>	0,383878047	0,85159982	0,888245364	0,834606574	1,10738687
<i>Insig2</i>	0,32307009	0,851635675	0,975918459	0,918685856	1,066937849
<i>Smg1</i>	0,357164822	0,843073323	0,943504502	0,891945257	1,054760764

Zmynd11	0,356031656	0,844340332	0,961757084	0,891601575	1,15200675
Arhgap17	0,398869846	0,920061114	0,989251794	0,911312193	1,104436904
Omg	0,123077763	0,825875852	1,035985912	0,938630122	1,02478325
Arih1	0,139737994	0,805657962	0,953063841	0,888980844	1,041042233
Nt5c3	0,143195437	0,80355331	0,937373328	0,989553306	1,032657693
Tbca	0,164972224	0,846745766	0,9448855	0,985896448	1,065056614
Mrrf	0,18746116	0,905140099	1,036195784	0,945658626	1,044032156
Nipbl	0,191757362	0,880840311	0,983294162	0,953493793	1,037005357
Setd2	0,255207273	0,896129438	0,991234432	0,977734314	1,05570853
Luc7l2	0,176652461	0,781676823	1,060898678	0,952174634	1,178557318
Crebzf	0,19381953	0,778223362	0,97393946	0,985211386	1,138567637
Abhd13	0,485649409	0,883856695	1,080458361	0,973638007	1,22419773
Mtmr6	0,422678639	0,827623139	1,083557695	0,935549703	1,16968939
Ctbp1	0,430286116	0,863434826	1,103620043	1,02446804	1,146002706
Cops4	0,4052837	0,879410219	1,034291863	1,022551744	1,152070256
Ube2k	0,418607817	0,863823033	1,057593983	1,089423926	1,177214087
Zc3h7a	0,422416796	0,923630812	1,075184712	1,051465677	1,165359873
Celf1	0,381780759	0,924985738	1,090580458	1,062508533	1,129637033
Sar1b	0,478613788	0,89389778	0,993649139	0,909095708	1,203268406
9530068E07Rik	0,484915736	0,965035064	1,014062432	0,88376332	1,180583455
Zbtb8os	0,420257488	1,002712452	0,991802054	0,985934076	1,142017095
Ppp2r5e	0,421223047	1,005190208	1,048949766	0,985889876	1,14159012
D10Wsu102e	0,389728583	0,949333579	1,02249178	1,009151194	1,124883949
Rbbp4	0,475645033	0,877572503	1,021462222	0,82580491	1,187662487
Tmem80	0,507286428	0,85554031	0,979010584	0,819656329	1,155220772
Wdr33	0,476887701	0,877084462	1,069587315	0,841560099	1,082549041
Sdf2	0,429332352	0,847432826	1,0968026	0,808847522	1,199862965
Ccdc59	0,335908221	0,784289911	1,086903938	0,867208445	1,234302652
Car2	0,372475612	0,792301487	1,058035608	0,84381572	1,275064946
Brpf1	0,30175678	0,877024401	1,021798698	0,82258383	1,223693364
Zfp263	0,478249698	0,968680742	0,875876937	1,001249449	1,042384558
Setd3	0,479882446	0,941642539	0,902841226	1,042360371	1,019042273
Ctse	0,452349326	0,919961668	0,926259731	1,067550753	1,071933877
Dcun1d1	0,408335526	0,989457237	0,935465018	1,029506837	0,990748249
Hmbox1	0,477888318	0,986836623	0,947198044	1,071535595	0,980747399
Tmem19	0,500281836	0,940212749	0,964014919	1,04356145	0,923905947
Rasip1	0,549749147	0,958513766	1,07299841	1,093214162	1,047011808
Xist	0,531484848	0,983548892	1,119829068	1,020460722	1,045054717
6530418L21Rik	0,54673592	1,050620146	1,071061066	1,04509122	1,00918955
Zcchc8	0,528850254	1,034506836	1,094798898	0,963609064	1,091256443
Sec63	0,47405324	1,027863915	1,056879068	1,01582424	1,092684088
Smarcb1	0,457112375	0,840039041	1,010417915	0,988038375	1,024239172
Uhrf2	0,442229517	0,860919663	1,017357153	0,948409504	1,057797769
Zfp326	0,451861774	0,895267419	1,008611572	1,042999649	1,021586363
Hif1an	0,463982708	0,892985521	1,020644042	1,022643599	1,033986899
Rmnd1	0,494362748	0,837530511	0,963405462	1,066527206	1,115818018
Terf2	0,462243028	0,784133213	0,965205072	1,018370168	1,125447452
Cetn3	0,394954189	0,8409754	0,935294311	1,027089945	1,018892156
Adss	0,340321657	0,853248535	0,973944295	1,051617108	1,067317129
Ubap1	0,38932851	0,910557864	0,937596389	1,029963144	1,028173389
Apc	0,342699398	0,916464604	0,909786243	1,033215339	1,056333882

<i>BC031781</i>	0,435169718	0,864001843	0,878761624	0,988101191	1,01521492
<i>Ubr5</i>	0,451039879	0,813872978	0,866940131	0,937792383	1,01042715
<i>Atxn2</i>	0,477689554	0,866305197	0,902195293	0,940967149	1,063177373
<i>Slc7a6os</i>	0,47027421	0,843018927	0,860851177	1,085105207	1,016002707
<i>Lats1</i>	0,373841358	1,001292984	0,96008133	0,917561445	1,173417189
<i>Med13</i>	0,388750693	0,971519643	0,942585992	0,952525194	1,121735157
<i>Rpl15</i>	0,372096989	1,0674976	0,937427641	0,896691642	1,105231592
<i>Higd1a</i>	0,35615077	1,10835867	0,864992909	1,019040185	1,103923664
<i>Traf6</i>	0,291037021	0,928285977	0,909330702	0,917079646	1,022763361
<i>Hcls1</i>	0,267069228	0,948595097	0,916214616	0,927107885	1,017296263
<i>Itsn2</i>	0,301316789	0,971347685	0,882678583	0,985083823	1,030010849
<i>Mgll</i>	0,280310011	0,958983374	0,835441047	1,000472165	0,951525849
<i>Snrpe</i>	0,259604431	1,034027097	0,886002055	0,848312721	0,93229495
<i>Tuba3a</i>	0,320916982	1,041474384	0,900479918	0,873293636	0,983231251
<i>Mettl17</i>	0,637762277	0,928307744	0,886610644	1,059760512	1,176168032
<i>Ccdc45</i>	0,611592821	0,842329151	0,856423124	1,054966183	1,186191624
<i>Vps52</i>	0,598296313	0,863819231	0,933930721	1,127499842	1,223111189
<i>Adsl</i>	0,556588575	0,936319062	0,904439493	1,1536377	1,13804939
<i>Gm15760</i>	0,566463723	0,928010156	0,881091715	1,162994489	1,174415575
<i>Oasl2</i>	0,504928869	0,877935414	0,939855425	1,132425471	1,153822838
<i>1110007C09Rik</i>	0,584212267	0,801735706	0,74774429	1,116547129	1,103476857
<i>Phf5a</i>	0,526438837	0,788106146	0,824186124	1,175344464	1,132703011
<i>Gm12669</i>	0,428148767	0,84944105	0,855829644	0,901252155	1,168739558
<i>Glrx3</i>	0,423767576	0,847741778	0,852698652	0,906519762	1,156996317
<i>Tfam</i>	0,406788565	0,851422168	0,842456201	0,981335619	1,182209209
<i>Bin1</i>	0,469573609	0,824233248	0,838217109	0,96390494	1,233248343
<i>Tcea2</i>	0,443898159	0,91193702	0,894407889	0,904893823	1,239578278
<i>Pdcl3</i>	0,499228243	0,865920537	0,784596132	0,989104743	1,149698481
<i>Il18r1</i>	0,507563654	0,897965383	0,837252009	0,951928209	1,175626013
<i>Phrf1</i>	0,519836464	0,870997211	0,833693315	1,023169647	1,092770943
<i>Dhrs7</i>	0,482223016	0,914100039	0,702986532	0,98865196	1,181609653
<i>Erh</i>	0,419099186	0,885526234	0,750763375	1,050358515	1,271317358
<i>Nars</i>	0,354753864	0,913110178	0,81297788	1,125497192	1,039383635
<i>2610528E23Rik</i>	0,343495612	0,992696133	0,894598446	1,071162959	1,048408782
<i>Capn2</i>	0,465398656	0,976447415	0,843386424	1,154604904	1,071688
<i>Prkd3</i>	0,345982513	0,970481696	0,911543417	1,131014899	1,149299223
<i>Gtf2a1</i>	0,386584805	0,949729674	0,867305217	1,060756507	1,209796323
<i>Ell3</i>	0,538951139	1,045902273	0,776347288	1,029920574	1,057200078
<i>Cog8</i>	0,479393745	1,135299047	0,799057497	1,029573085	1,073674628
<i>Acot2</i>	0,472261228	1,011527944	0,750545109	1,090550515	0,980970764
<i>Sltm</i>	0,412622298	1,012799147	0,824267711	1,046097366	0,96422879
<i>1500004A13Rik</i>	0,473306951	1,00901915	0,699548685	0,765889104	1,2591628
<i>Samd10</i>	0,474501747	1,060513183	0,75298237	0,768547197	1,261846347
<i>Ache</i>	0,532528192	1,198598838	0,788718568	0,896914035	1,219077901
<i>Psmc3</i>	0,501109113	0,966523607	0,810511693	0,811881275	1,124263169
<i>4930412O13Rik</i>	0,529860805	1,103604016	0,790382779	0,802390993	1,091665912
<i>BC090627</i>	0,510511591	1,117699827	0,946351688	0,798961249	1,166078171
<i>0610010K14Rik</i>	0,659270429	1,003066982	0,67643326	0,894163092	1,065730467
<i>Dtx4</i>	0,587145087	0,977189423	0,7467804	0,921366967	1,099048616
<i>Aktip</i>	0,556678297	0,967947047	0,731886014	0,723092356	1,052203308
<i>0610007P14Rik</i>	0,639056055	0,926831966	0,787675785	0,732776578	1,071467343

<i>Pogz</i>	0,49276884	0,872691491	0,952778466	0,920070722	1,012397818
<i>4933433P14Rik</i>	0,534944349	0,898126354	0,973202079	0,914918128	1,033199339
<i>BC002230</i>	0,525573852	0,893798686	0,859563725	0,962899172	1,028654415
<i>Cdc42ep3</i>	0,548152153	0,86619242	0,860692143	0,939762045	1,025605493
<i>Slc30a5</i>	0,628955324	0,88134989	0,921062052	0,97150894	1,050133561
<i>Actr5</i>	0,566249131	0,901664309	0,932745244	0,949479032	1,084248563
<i>Slc38a10</i>	0,641883111	0,888101123	0,929403861	0,90418516	1,101387532
<i>Tatdn1</i>	0,570127428	0,84202832	1,003210831	0,888224461	1,128203102
<i>AA960436</i>	0,555923793	0,84695645	1,009370041	0,963511909	1,099843433
<i>Zfp266</i>	0,609015439	0,90072748	1,005128038	0,859572601	1,092567225
<i>Txndc15</i>	0,609982588	0,904190941	0,996843625	0,879155738	1,093088976
<i>Faf2</i>	0,563125302	0,856675445	0,979129577	0,875136757	1,054192811
<i>Hsf4</i>	0,567725702	0,898495067	1,082340785	0,944943695	1,050140447
<i>2700029M09Rik</i>	0,662622865	0,927109167	0,951189998	1,090055012	1,078349316
<i>Prkag2</i>	0,66092892	0,937655257	0,920226207	1,04519702	0,992521562
<i>Dcaf8</i>	0,668225052	0,917027501	0,984922159	1,000453744	0,955170626
<i>Brwd1</i>	0,631656696	0,884537505	1,013608915	1,025755566	0,989178542
<i>Rcl1</i>	0,714511473	0,849553836	0,889651377	0,981528398	1,08467028
<i>Lmtk3</i>	0,746906977	0,862665089	0,911890035	0,990226876	1,090610227
<i>Acss2</i>	0,695840979	0,90665852	0,919164978	1,002732191	1,056677268
<i>1700086O06Rik</i>	0,689847056	0,851155316	0,95175541	1,030137887	1,108954463
<i>Fam114a1</i>	0,685925001	0,842749441	0,892557579	0,958917637	1,023063903
<i>Cldn14</i>	0,659405245	0,932682123	1,081570762	1,129999452	1,142112536
<i>Morn1</i>	0,670756028	0,938808413	1,023859448	1,120449641	1,174189964
<i>Dctn2</i>	0,67535303	0,938437003	0,949640409	1,0916646	1,168626532
<i>Aff3</i>	0,658826465	0,965208466	0,987410555	1,058118374	1,196965635
<i>Pear1</i>	0,769209439	0,841922209	0,915766662	1,127598215	1,135072593
<i>Cnnm3</i>	0,758671016	0,812315623	1,023251713	1,098859523	1,127224131
<i>Hbp1</i>	0,521164034	0,837205707	1,004213077	1,127941127	1,055813505
<i>Gpsm2</i>	0,579713699	0,847626059	1,010006398	1,034371655	1,022121882
<i>Ppp2r4</i>	0,599432991	0,835991104	0,902378481	1,087834196	1,12942157
<i>Ubr2</i>	0,557684107	0,807387263	0,927489136	1,042190478	1,147802827
<i>1110059E24Rik</i>	0,625595472	0,772991998	0,907324487	1,047352118	1,086832833
<i>Ndufa13</i>	0,494036454	0,707867973	1,02748373	0,969057279	1,092312789
<i>Sdhd</i>	0,545607054	0,698912985	0,904763721	0,990039513	1,114286002
<i>Pin1</i>	0,572695809	0,724676245	1,014614424	0,976860691	1,197295501
<i>Mlycd</i>	0,581764344	0,700942727	0,980729321	0,913623585	1,205971772
<i>Nhlrc3</i>	0,548628081	0,708286382	0,961080988	0,915199948	1,077525094
<i>Nudt9</i>	0,547362806	0,687443035	0,955579999	0,876456417	1,111304895
<i>4930555I21Rik</i>	0,495189318	0,692546003	0,958322805	0,857163594	1,114954215
<i>Tprkb</i>	0,516968529	0,67184523	0,919295453	0,83783437	1,118230529
<i>Nucks1</i>	0,597178719	0,618764833	0,899682051	0,854780036	1,101086324
<i>Gmnn</i>	0,608335146	0,591412377	0,895536531	0,942796029	1,1762846
<i>Zfp46</i>	0,643334252	0,58238851	0,955673712	1,033629908	1,149423224
<i>Tnfrsf26</i>	0,578698795	0,665969228	0,804716477	1,034713457	1,227945129
<i>4933421O10Rik</i>	0,595284648	0,649997181	0,776491976	1,061415969	1,174683423
<i>Prkaa1</i>	0,39074463	0,842447615	1,035398355	0,977126209	1,276184945
<i>Mtmr3</i>	0,346110232	0,83871491	1,01617476	0,962503662	1,225114945
<i>Dhx9</i>	0,396588041	0,805199849	1,068266349	1,043339272	1,267375782
<i>Pias1</i>	0,404584952	0,84728118	1,111668875	1,015743213	1,256364292
<i>Ube2l3</i>	0,360324151	0,762393524	1,071821097	1,01573664	1,33190004

<i>Eps15l1</i>	0,418431511	0,734002923	1,027700147	1,02096669	1,301950336
<i>Ip6k1</i>	0,39627682	0,837872304	1,073119578	1,049200826	1,398295705
<i>Clk2</i>	0,480437057	0,910549104	1,014799386	0,989771926	1,389705595
<i>Slc10a1</i>	0,494063483	0,852321961	1,042469157	1,160047364	1,239990751
<i>Fkbp3</i>	0,504646495	0,832250513	1,123104471	1,145921269	1,300087418
<i>Myst2</i>	0,431027585	0,872322933	1,068978929	1,064767622	1,271448883
<i>Eif3d</i>	0,451926956	0,930473401	1,069762865	1,05147919	1,299891791
<i>Trim26</i>	0,439897439	0,890664668	1,127876092	1,14766598	1,202845944
<i>Dido1</i>	0,424399284	0,851639495	1,14992676	1,113410632	1,23257971
<i>Tnks</i>	0,384556464	0,900942885	1,138688165	1,125107812	1,238298603
<i>Pigm</i>	0,447854366	0,865320878	1,161098295	1,182822652	1,243995646
<i>Adar</i>	0,50124133	0,902306177	1,199781143	1,113145162	1,248609359
<i>Dbnl</i>	0,543142477	0,767335019	0,903864754	1,110537713	1,332919173
<i>Sf3a2</i>	0,531245034	0,827538836	0,913568564	1,108847587	1,335264228
<i>D830031N03Rik</i>	0,504830382	0,747951092	1,003197972	1,056344283	1,334445298
<i>Rrp1b</i>	0,471665569	0,857430531	0,891810019	1,077929344	1,255171829
<i>Orm2</i>	0,436819332	0,778838092	0,933083869	1,15324674	1,287887994
<i>Krr1</i>	0,440168799	0,803342669	0,882149244	1,146143868	1,326021223
<i>Lonp1</i>	0,362775878	0,756900006	0,911260724	1,1926039	1,272008789
<i>Taf9</i>	0,542125214	0,865890257	1,132804147	0,90905746	1,322011673
<i>Prpf4b</i>	0,522073129	0,876382771	1,089573871	0,862535372	1,27764634
<i>Cacybp</i>	0,550249005	0,752542062	1,125688254	0,93017654	1,221407685
<i>Stat4</i>	0,579755095	0,842650612	0,989589842	0,957120818	1,337589587
<i>Xpnpep1</i>	0,502743909	0,836814772	0,96283231	0,978377825	1,253996298
<i>Nfrkb</i>	0,536279728	0,863684228	1,073944435	1,028596148	1,289152882
<i>Trim27</i>	0,52784294	0,830548411	1,049087708	1,011621273	1,335336706
<i>Necap2</i>	0,684902871	0,886875744	0,98971024	1,007957601	1,269306543
<i>Stat2</i>	0,663544349	0,931032509	0,989176355	1,026579317	1,264634678
<i>Extl1</i>	0,654525715	0,90860587	1,021744352	1,067289967	1,223834683
<i>Plekhh2</i>	0,60469605	0,920150871	1,010874782	1,069254318	1,15616672
<i>Dync1li1</i>	0,560302189	0,895008415	1,005877151	1,08588108	1,220720948
<i>Wash</i>	0,650986873	0,808186803	1,056570292	1,023370699	1,241194683
<i>Hadh</i>	0,609374253	0,829861612	1,033516362	0,940579671	1,244495667
<i>Mdm4</i>	0,624569378	0,79106814	0,960342711	0,995900733	1,15852188
<i>Clcn4-2</i>	0,624192408	0,832099863	1,026528539	0,991486607	1,130263032
<i>Sqstm1</i>	0,262586878	0,637795868	0,918288353	0,727899441	1,000565786
<i>Fam13b</i>	0,273127434	0,64270107	0,982099386	0,770518026	1,045885274
<i>Timm23</i>	0,168479402	0,589982994	0,898845835	0,783573582	1,077378935
<i>Otud4</i>	0,235938737	0,598072049	0,897624841	0,776674008	1,037083463
<i>Trit1</i>	0,292836535	0,58938152	0,854604971	0,662763635	1,028670808
<i>Car15</i>	0,324506765	0,539586996	0,854840156	0,722305594	1,083981038
<i>Med12</i>	0,217918047	0,748850924	0,915850719	0,655746278	1,000563759
<i>Itgb1bp1</i>	0,22063468	0,747592971	0,940222855	0,645954305	1,047205539
<i>Gabpb1</i>	0,237599296	0,733864449	0,899265196	0,730658146	1,041756065
<i>Dnajb6</i>	0,236991098	0,671904567	0,885338272	0,840590692	1,156525962
<i>9030617003Rik</i>	0,287895976	0,739391488	0,869882271	0,735675125	1,175053784
<i>Pfdn2</i>	0,286150346	0,761372465	0,785398873	0,773004998	1,242485399
<i>Wdr4</i>	0,294267804	0,687325036	0,747307838	0,778107722	1,198470275
<i>Naa16</i>	0,192921308	0,720065866	0,828216827	0,892976397	1,085627885
<i>Rpe</i>	0,185214832	0,711062272	0,820296651	0,81621815	1,105417505
<i>Zfp60</i>	0,176836934	0,660499929	0,882594499	0,834726561	1,050190283

Zfp868	0,140978087	0,684000102	0,840675524	0,806231301	1,0666615
Utrn	0,267362597	0,727326221	0,822855649	0,79424232	1,0093188
Med26	0,25485659	0,681301534	0,899766117	0,823065625	1,016773018
Ank	0,252756079	0,668220405	0,754367972	0,895476803	1,004713911
Scap	0,226776989	0,735900448	0,726936789	0,826664802	1,065690945
Rnf115	0,189741527	0,560469166	0,77107957	0,800529574	1,044452151
2310004124Rik	0,257775072	0,545909574	0,741422681	0,874195284	1,012072816
Eif3e	0,033190995	0,686467106	0,948542344	0,904025409	1,075144961
Cdk13	0,058854937	0,635365167	0,919968577	0,876438289	1,009903504
Wnk1	0,019876514	0,593133056	0,981126578	0,844060628	1,067078765
Ssb	-0,047453968	0,744168356	1,001806536	0,808064933	1,002507692
Zfx	0,056337925	0,746237207	0,978177995	0,785606139	1,086942628
Zfp958	-0,050026123	0,753868231	0,856218761	0,68859759	1,006473062
Ssbp1	-0,162312902	0,669122227	0,788152225	0,704917711	1,057353515
Ankrd61	0,135257115	0,655202487	0,84745199	0,783401428	1,159360109
Ociad1	0,126610405	0,698639322	0,806635953	0,828057047	1,162098553
Nol9	0,119358811	0,689811647	0,875490729	0,798906678	1,237268175
Eif3a	-0,072257816	0,647681972	0,846389359	0,803034605	1,195549053
Uqcrfs1	0,02439891	0,636421992	0,824978159	0,776196674	1,226244993
Ythdf3	0,024747623	0,637220594	0,79756186	0,852109162	1,056651705
Rbm33	0,098486955	0,640456248	0,793384683	0,902041989	1,05059942
Zcchc9	0,103491304	0,647403826	0,777777095	0,794767157	1,067019823
Zbtb11	0,081136593	0,686334535	0,723958394	0,90821207	1,116705975
Pcbp2	0,13413219	0,705250337	0,769531908	0,883882402	1,107423842
Cyp20a1	0,057762653	0,692062674	1,021378285	0,796934739	1,174777416
Sfrp2	0,05623765	0,759497958	1,015221163	0,827499856	1,218772204
Slc2a4rg-ps	-0,030618375	0,593640603	1,062741333	0,907083586	1,196700497
Rdh14	0,160004592	0,697653882	1,07606542	0,889809181	1,066771002
Ndufa8	0,150041813	0,624988911	1,08722486	0,964530246	1,130601814
Zfp91	0,12156254	0,613870233	1,002646862	0,922667464	1,128506891
U05342	0,118716367	0,621206789	0,958915656	0,901340586	1,084835994
Ggps1	0,184504411	0,6536397	0,966272491	0,886696807	1,123441319
Gm16853	0,16958951	0,594202996	1,1545018	0,770890158	1,18432861
Zfp566	0,172466398	0,62581123	1,040361484	0,723809037	1,250852085
Ppat	0,061497136	0,594085263	0,992859583	0,718377895	1,158097566
Chst2	0,118250422	0,871202625	0,9088917	0,914141421	1,165450896
Ptpn2	0,197936497	0,843455353	0,901936761	0,969908373	1,177299364
Ube2z	0,024021331	0,825874841	0,87855596	0,91607725	1,148357967
Dcun1d3	0,107458593	0,857442496	0,851907223	0,975761506	1,033822398
Ndufv2	0,126922994	0,85763099	0,792482972	0,948748154	1,03811859
1810031K17Rik	0,177615743	0,895609342	0,833519482	1,00733971	1,022856955
Gpr87	0,132055132	0,779340226	0,796759593	0,83988766	1,040801845
Fam108b	0,101836343	0,747206378	0,808209634	0,856252245	1,047046706
Pspc1	0,118741965	0,7596307	0,859113222	0,902507459	1,087129954
9330179D12Rik	0,152288273	0,736591628	0,915006411	0,800927911	1,062305176
Nptn	0,105354365	0,700155259	0,936541337	0,826933378	1,016969917
A430084P05Rik	0,136213862	0,819567706	0,751376808	0,794628724	1,074730502
Actr6	0,194911858	0,822316509	0,772270351	0,808619201	1,021874763
Sft2d1	0,215820423	0,807237877	0,82645279	0,860932445	1,130751129
Strn	0,194068397	0,785842118	0,850765798	0,812106682	1,132262686
Setx	0,036294899	0,766648375	0,846358872	1,103450398	1,103043811

<i>Seh1l</i>	0,063627081	0,860954399	0,80123238	1,080756765	1,002035395
<i>Elavl1</i>	0,094894445	0,745197698	0,882279587	0,979339561	1,021103468
<i>5830415F09Rik</i>	0,028736928	0,692449116	0,907735721	1,034448779	0,936697559
<i>Arf4</i>	-0,035673397	0,891029007	0,943039175	0,81855973	1,036557233
<i>Gnpnat1</i>	0,025640455	0,885423611	1,059720132	0,794176588	0,965953592
<i>Gm9895</i>	0,240738742	0,472975842	1,018672126	0,795182584	0,743690103
<i>Dolk</i>	0,276432771	0,483693485	1,089305252	0,824796937	0,934595396
<i>Acadvl</i>	0,488104068	0,508643652	1,023349223	0,851785025	0,941215422
<i>Eif3l</i>	0,303044769	0,4236025	0,862411419	0,898994573	1,051660532
<i>1700020D05Rik</i>	0,344922081	0,44128053	0,905573396	1,01999538	1,045345857
<i>Cox5a</i>	0,239519013	0,393101991	1,011790432	0,956826615	1,129423519
<i>Ogfr</i>	0,333100985	0,929042373	0,58126573	0,966626445	1,152904041
<i>Ppp1r11</i>	0,409030932	0,956916342	0,639442562	0,93620222	1,051567916
<i>Chrnbl</i>	0,241600006	0,910270122	0,534353902	1,027970855	1,013623443
<i>Grsf1</i>	0,197036327	0,939560014	0,658586807	0,817063989	1,098749081
<i>C530005A16Rik</i>	0,225923788	0,875972961	0,713572679	0,817934826	1,054962002
<i>Slu7</i>	0,110332388	0,790963418	0,66325097	0,819743798	1,104658964
<i>Ghrl</i>	0,223737666	0,911176592	0,793405196	0,972203037	1,213667939
<i>Slain2</i>	0,251865061	0,887406582	0,797853813	1,042181699	1,162047395
<i>Zfp384</i>	0,308125842	0,893963629	0,885393645	0,972037125	1,195332187
<i>Lrp6</i>	0,274666321	0,875345098	0,906308364	1,072624521	1,09152627
<i>Atxn7</i>	0,279472027	0,867882688	0,904484086	1,036003761	1,065159205
<i>Esyt2</i>	0,266808429	0,820005068	0,873483302	1,017337053	1,095125561
<i>4930549G23Rik</i>	0,224224645	0,869064104	0,823732305	1,099317282	1,075147863
<i>Gmpr2</i>	0,258112451	0,777335655	0,707350775	1,021468976	1,011795469
<i>Eif2d</i>	0,22148272	0,855647962	0,69564299	1,088240739	1,053280762
<i>Osbpl9</i>	0,283945674	0,815552468	0,781345342	1,10157658	0,978842358
<i>Psmg2</i>	0,253561822	0,812231042	0,80347365	1,065718109	1,027492132
<i>Pgd</i>	0,425414825	0,690616531	0,734824802	1,064791715	1,113449388
<i>Nipal3</i>	0,435845338	0,661896023	0,702924133	1,010375303	1,162169404
<i>Tti2</i>	0,479264494	0,704806751	0,61657981	0,983528701	1,18355673
<i>Cyp2s1</i>	0,403711967	0,623772298	0,590592777	1,077489458	1,070464768
<i>Mrpl41</i>	0,506284599	0,587745215	0,602627201	1,073964215	1,049835403
<i>Gatad1</i>	0,38465603	0,765247949	0,615485223	1,001148731	0,979627827
<i>Ssh1</i>	0,482723141	0,773225667	0,570591837	1,023578565	0,971822247
<i>Prmt6</i>	0,334742707	0,622407917	0,746846016	1,158234668	0,988202499
<i>Rnf123</i>	0,40617597	0,609196179	0,785630179	1,048368939	1,00795548
<i>Pofut2</i>	0,485158891	0,667129627	0,695872434	1,151664265	0,925495862
<i>Mlx</i>	0,315851725	0,704835413	0,704576311	1,019001182	0,91156451
<i>Acbd3</i>	0,390857085	0,706583773	0,733327124	1,002617289	0,900633955
<i>Ogdh</i>	0,408037872	0,727934176	0,85171804	0,836030851	1,089113834
<i>Smc3</i>	0,392853976	0,75388648	0,853445357	0,799968223	1,069195137
<i>Trappc10</i>	0,424700138	0,769722474	0,831250684	0,860929725	1,030244759
<i>P4ha1</i>	0,400557998	0,730622484	0,905806246	0,85283832	1,000713738
<i>Adipor1</i>	0,422280453	0,728665209	0,943257984	0,887089282	1,024024516
<i>Crcp</i>	0,418528781	0,697007489	0,937562595	0,848395792	1,060596265
<i>Ttc15</i>	0,5033271	0,689481259	0,804454475	0,822403685	1,0037364
<i>Ppargc1b</i>	0,500257363	0,70984444	0,876284314	0,75482106	1,035971566
<i>Kansl3</i>	0,341650602	0,736038844	0,868577194	0,739245447	1,032432927
<i>1110034A24Rik</i>	0,402729981	0,72627299	0,869707437	0,702114084	1,040031968
<i>Zfp828</i>	0,370432562	0,664223472	0,787922062	0,858673728	1,044458806

<i>9530027J09Rik</i>	0,383870143	0,697258805	0,757388573	0,831879525	1,040946511
<i>Numa1</i>	0,338605846	0,684056304	0,720049811	0,869907014	1,115458404
<i>Lsm11</i>	0,373878027	0,746867741	0,751306095	0,790959996	1,126299973
<i>Baz1a</i>	0,410502508	0,718944323	0,750252767	0,761851548	1,11752054
<i>Clpp</i>	0,508622394	0,686292013	0,732300608	0,888779762	1,109909393
<i>Kdelr2</i>	0,430213399	0,647698731	0,739118389	0,868709885	1,176318761
<i>Nudc</i>	0,369107701	0,58719988	0,814583246	0,887937023	1,15619901
<i>Scp2</i>	0,382432067	0,641925797	0,829714764	0,869212927	1,163803285
<i>Crim1</i>	0,337514878	0,596210558	0,913124565	0,857436448	1,140464889
<i>Mocs2</i>	0,376511707	0,672033407	0,827918685	0,896501031	1,101699336
<i>Exosc10</i>	0,370419532	0,651180073	0,817097744	0,871978332	1,105584574
<i>Surf2</i>	0,353497829	0,659422252	0,904173876	0,894307424	1,06997335
<i>Nub1</i>	0,362895982	0,546954382	0,856474977	0,827556299	1,032885858
<i>Rpain</i>	0,430010492	0,587490723	0,908367588	0,792163415	1,130821595
<i>Ywhaq</i>	0,391685454	0,516920283	0,896724355	0,928826716	1,117623996
<i>Pigw</i>	0,349569805	0,543919314	0,910198821	0,929167327	1,121630336
<i>Fam71f1</i>	0,378082934	0,570905741	0,959811575	0,956036489	1,026300121
<i>Azin1</i>	0,249491291	0,682620779	0,909393579	1,027054629	0,85409223
<i>Ntf5</i>	0,426671435	0,64442944	0,892303223	1,043316264	0,872239182
<i>Cdc5l</i>	0,475688213	0,809234613	0,886056126	1,000489778	0,925913194
<i>Cdr2</i>	0,475388633	0,719683725	0,803249832	1,027406435	0,945599327
<i>Fam60a</i>	0,364381741	0,646623075	0,868978313	1,028350108	1,138996477
<i>Reck</i>	0,34384198	0,640002128	0,842934992	0,989181115	1,066416739
<i>Zfp51</i>	0,283115283	0,691051726	0,818404148	1,003639175	1,121454432
<i>Hadhb</i>	0,233972834	0,665918213	0,923091184	0,97270247	1,125855432
<i>4933434E20Rik</i>	0,262170331	0,63823159	0,804772027	0,991594402	1,218693747
<i>Cpsf3l</i>	0,215264031	0,6990025	0,816399057	1,011032969	1,206599999
<i>Usp48</i>	0,375107068	0,669600814	0,885391657	0,882249853	1,252575239
<i>Ttf1</i>	0,376734536	0,738346225	0,819112988	0,974695426	1,238526264
<i>Gpcpd1</i>	0,411809152	0,572000047	0,83315924	0,991461687	1,208597519
<i>Zbtb39</i>	0,357073511	0,613898005	0,987154085	1,030650554	1,261287263
<i>Rhebl1</i>	0,366472102	0,659535075	1,001011237	0,966209509	1,235822496
<i>Naa30</i>	0,274826926	0,681245813	0,994344889	1,029009748	1,269958741
<i>Med18</i>	0,3771644	0,653933045	1,038756937	0,948248411	1,145582396
<i>Zyg11b</i>	0,371607048	0,833167057	0,949802877	1,0143205	1,228034701
<i>Akap8l</i>	0,369738418	0,793447998	0,938745785	1,015974761	1,270721892
<i>Atp2a2</i>	0,360817093	0,774505129	0,938511697	0,936683505	1,24879163
<i>1700026L06Rik</i>	0,366641354	0,744575373	0,922079531	1,07499534	1,209949097
<i>Psmc2</i>	0,281667044	0,794241805	1,031396629	0,95913413	1,213497768
<i>Ddx42</i>	0,239722391	0,796250024	1,018053226	0,913324564	1,190961209
<i>Ogt</i>	0,242653429	0,883333123	1,07400364	0,916161781	1,215808932
<i>Crkl</i>	0,263485872	0,894853366	0,960030481	0,884669423	1,28520876
<i>Uqcrc1</i>	0,229977559	0,928504531	0,96095256	0,962525144	1,236313416
<i>Rapgef2</i>	0,216958398	0,774406743	0,95826242	0,99902415	1,310296575
<i>Sec13</i>	0,209362982	0,762069611	0,984103867	1,043825319	1,240950774
<i>Wdr37</i>	0,115732091	0,730036035	0,951351621	0,961324533	1,280353423
<i>Atg14</i>	0,155416769	0,812790117	0,888702168	0,968555113	1,239367321
<i>Mtfr1</i>	0,160455742	0,798046485	0,888033038	1,043496272	1,231785877
<i>Axin1</i>	0,222225845	0,812034283	1,159070903	1,083114478	1,258119162
<i>Shfm1</i>	0,176030244	0,849856811	1,106088208	1,144796694	1,319312123
<i>Rad23b</i>	0,225693235	0,792040797	1,103923337	1,036682736	1,376759637

<i>Shoc2</i>	0,159619011	0,817219058	1,050772246	1,037623739	1,242670895
<i>Trim33</i>	0,205236879	0,756341141	1,062193234	1,084023278	1,300532865
<i>Arih2</i>	0,249492648	0,84436272	0,961575162	1,157095929	1,263908286
<i>Tnks2</i>	0,26469491	0,854889184	0,978109415	1,145412327	1,228784335
<i>Fam19a3</i>	0,271043935	0,823632856	0,929684863	1,07674239	1,230806037
<i>Naa15</i>	0,275030083	0,936066497	1,006903412	1,06963444	1,297023215
<i>Socs4</i>	0,294479541	0,917447718	0,990253616	1,115487653	1,312848101
<i>Sfr1</i>	-0,012243258	0,824500247	1,051011079	1,031640915	1,422165459
<i>Nxf1</i>	0,04216203	0,879270886	1,051883777	1,008452807	1,430424509
<i>Tle4</i>	-0,037192211	0,907312271	1,082968341	1,066495933	1,428646195
<i>Cd53</i>	-0,459056202	0,886506785	1,194537569	1,039089056	1,322666191
<i>B630005N14Rik</i>	-0,066451456	0,971659529	1,067349193	1,039563788	1,302362493
<i>Pold4</i>	0,091881098	0,99809451	1,000699333	1,108052085	1,323455894
<i>Smc6</i>	0,000527529	1,065465208	1,042418504	1,246344161	1,242314548
<i>Inpp4b</i>	-0,124317579	1,115122588	0,967625861	1,228656144	1,060900339
<i>Usp38</i>	0,116109339	0,995442517	1,09246583	1,160532961	1,118903199
<i>1110020A21Rik</i>	0,124119323	0,999799822	1,148356215	1,124932923	1,08595178
<i>Xpo1</i>	0,095595817	0,884840888	0,995058651	1,057086334	1,15144604
<i>Crebbp</i>	0,114364954	0,885531859	0,987715667	0,970275321	1,122842877
<i>Rasa1</i>	-0,105085716	0,892410417	0,974163812	0,990019346	1,146011931
<i>Sept7</i>	-0,016653665	0,898045671	1,026776802	1,097409685	1,122096253
<i>Plekha1</i>	0,034986339	0,897831184	0,984084415	1,134767041	1,104128812
<i>Gm13293</i>	-0,009135995	0,908880431	0,998042061	1,062480936	1,029313309
<i>Galc</i>	0,080624726	1,057006849	0,984563212	0,976535867	1,029646362
<i>4930573O16Rik</i>	-0,082551987	1,059224772	0,923476736	1,024557655	1,031117249
<i>1700110K17Rik</i>	0,045006224	1,159765869	1,133780449	0,933037666	1,205804447
<i>Tmem168</i>	0,073051932	1,040927134	0,987633625	0,917679278	1,175060245
<i>Tpm4</i>	0,076129463	0,750036817	1,014672499	1,122462367	1,336948914
<i>Fam103a1</i>	0,049518139	0,668688647	1,086590185	1,052266452	1,284875281
<i>Foxp3</i>	0,117265626	0,630303103	1,100587316	1,151154197	1,404226218
<i>Hnrnp2</i>	0,069826116	0,591465522	1,021083359	1,045220877	1,391521204
<i>Atp11b</i>	0,144787219	0,594375108	0,925996889	1,076436865	1,427885099
<i>Tatdn2</i>	0,004503102	0,691064785	1,082540853	1,382486476	1,445962795
<i>Rps2</i>	0,094237946	0,602612724	1,07677719	1,20849134	1,149462499
<i>Snhg1</i>	0,228482032	0,592957553	0,974248992	1,100098868	1,146895835
<i>Wac</i>	-0,013220658	0,819733898	1,027931994	1,080937474	1,155462676
<i>Dnaja2</i>	0,038795774	0,800268246	1,049799379	1,131022506	1,173388809
<i>Rcbtb1</i>	0,018683915	0,766967775	0,93348522	1,202382047	1,249851872
<i>Ndufa2</i>	-0,007277785	0,670760917	1,498347193	0,962546937	0,996923556
<i>Zbtb33</i>	0,037620645	0,96179871	1,035483582	0,954295345	0,838898773
<i>Cd200</i>	0,146296722	1,049574621	1,126000545	1,041939121	0,874997871
<i>Pfkfb2</i>	0,108392338	1,068379714	1,043530997	0,830318939	0,741275676
<i>Rsu1</i>	0,170413964	1,204428623	0,900868521	1,038015253	0,783121372
<i>Rcn2</i>	0,208146866	1,173474041	0,942803196	0,981625376	0,988692118
<i>8430436N08Rik</i>	-0,059761218	1,252211829	0,868688162	0,977645436	0,568727618
<i>Zfp619</i>	-0,001804528	0,834479689	1,019972763	0,582908009	0,691505678
<i>4930404I05Rik</i>	-0,02872643	1,032978614	0,690744295	0,838032707	0,911947201
<i>Zfp187</i>	0,087701652	1,029195581	0,780820745	1,055063382	0,882418609
<i>Sowahc</i>	0,25247866	1,22001751	0,655498484	0,910132648	1,032598216
<i>Xlr4a</i>	-0,000599646	1,070994442	0,448704542	0,868077418	0,691752193
<i>3110040N11Rik</i>	0,024473102	1,004479396	0,496112282	0,817229508	0,821291498

<i>Gpx2-ps1</i>	-0,258243753	0,429114363	0,628585522	1,384554927	1,231129834
<i>Foxe1</i>	-0,008525905	0,235886646	0,526685003	1,429305146	1,004411329
<i>Rps16</i>	-0,102338284	0,526301681	0,658239247	1,797910935	1,157477616
<i>9930111J21Rik1</i>	0,056701482	0,707320832	0,576674049	1,443961648	1,642464499
<i>1810006K21Rik</i>	-0,060652082	0,784641657	0,408466982	1,437271386	1,226078123
<i>Pdia2</i>	0,033902372	0,236606682	1,04002928	1,127291623	1,386964389
<i>Pydc4</i>	-0,594364347	0,298681314	0,945436015	0,992385504	1,109503915
<i>Xcl1</i>	0,124789852	0,453698168	0,855637099	0,933276992	1,429957981
<i>H60b</i>	-0,063954304	0,43314789	0,860155092	0,988666684	1,436066881
<i>Orm3</i>	0,035052989	0,348445718	0,705035082	1,05339119	1,369557477
<i>Usp28</i>	0,184781656	0,443946143	0,578057496	1,011976869	1,357332604
<i>Sele</i>	0,011611509	0,449427389	0,497374763	1,150626538	1,500920029
<i>Atp5g3</i>	0,18881503	0,570449378	0,787389966	1,072878934	0,850382665
<i>Apol9a</i>	0,109795924	0,584778112	0,755050699	1,011285553	0,856088303
<i>2310009B15Rik</i>	0,258468424	0,46474055	0,766470891	1,139364899	0,830097162
<i>Fcgr3</i>	0,027706418	0,437208682	0,593243015	1,213533244	0,872802107
<i>Mrm1</i>	0,202839307	0,249141897	0,714629958	1,001888684	0,950015801
<i>Cox7c</i>	0,107579843	0,23451043	0,607152384	1,056485024	0,969585103
<i>Zfp655</i>	0,124859018	0,601856343	0,532173555	0,919839775	1,049175263
<i>Nudt19</i>	0,127731677	0,553867484	0,565793471	0,815641848	1,046955559
<i>Smchd1</i>	0,052132014	0,629821446	0,630228954	0,88769147	1,028358584
<i>Jhdm1d</i>	0,033044486	0,556748071	0,530010668	0,995740171	1,098560476
<i>Khyn</i>	0,239565888	0,560515896	0,516559378	1,057266805	0,981457731
<i>Cpsf3</i>	0,196683265	0,534518893	0,509079935	1,018326398	0,98637204
<i>Kif1b</i>	0,161445794	0,494752922	0,517759874	1,018172381	1,056283864
<i>Mettl3</i>	0,209779683	0,621520491	0,698912	0,970375592	1,093781096
<i>Dock2</i>	0,271372592	0,629523762	0,75010216	0,958032995	1,143658263
<i>Trmt61a</i>	0,343458284	0,561939503	0,624566156	0,945430471	1,128667746
<i>Eif3c</i>	0,182231978	0,528104701	0,664010576	0,928920979	1,034931682
<i>Glud1</i>	0,223034657	0,504112324	0,650973856	0,965235337	1,060767403
<i>Pglyrp1</i>	0,646289554	0,990729549	0,69491797	1,036193983	1,223112275
<i>2310011J03Rik</i>	0,700947771	1,108742591	0,735046733	0,967596219	1,269410155
<i>Polr3d</i>	0,558230299	0,979784659	0,830881415	1,073422088	1,229101486
<i>Spry4</i>	0,564904133	1,109684365	0,83304539	1,071534999	1,26471801
<i>Adprh</i>	0,511193568	1,152832425	0,845108508	1,074118217	1,468922778
<i>Gm6537</i>	0,481656632	0,988357874	0,686054256	1,032155552	1,464626832
<i>Rbm43</i>	0,535059336	0,847038753	0,659817863	1,078081242	1,407001343
<i>Chmp1a</i>	0,542987759	0,858672914	0,689706285	1,187827552	1,322925761
<i>1110032F04Rik</i>	0,565916132	1,067084901	0,555388065	1,160053025	1,314968059
<i>Mrpl49</i>	0,671002068	0,930332433	0,769747363	1,184765674	1,310717186
<i>Apobr</i>	0,683977308	0,922689067	0,788680453	1,17044013	1,217843898
<i>Al848285</i>	0,785210406	0,931841583	0,627728607	1,164665627	1,331254876
<i>Ccdc126</i>	0,688879234	1,062959568	0,844588949	1,294301283	1,085133483
<i>Pla2g1b</i>	0,675150622	1,022568094	0,895704604	1,219241898	1,135607197
<i>BC013712</i>	0,607611953	0,973249495	0,816323623	1,221946397	1,151281139
<i>Al316807</i>	0,807715043	1,095113928	0,907794084	1,167017458	1,085486887
<i>Gypc</i>	0,746806857	1,168029569	0,920952816	1,247588343	1,15643506
<i>Ticam1</i>	0,846069122	1,140676325	0,805013375	1,127920791	1,369498469
<i>Gpx3</i>	0,858377441	1,090385088	0,792770325	1,308642721	1,394790641
<i>1700096K18Rik</i>	0,836895756	0,917132136	0,847726425	1,199625088	1,441912256
<i>Cdc7</i>	0,698441261	0,796372814	0,760732726	1,219793969	0,896515729

<i>2210039B01Rik</i>	0,602934913	0,844245405	0,825621232	1,190121466	0,839218939
<i>Adnp2</i>	0,643464444	0,85364238	0,811017037	1,072568819	0,976431812
<i>Ppapdc1b</i>	0,641262771	0,805414139	0,771834248	1,13760454	1,023720844
<i>Plekhg5</i>	0,63405869	0,863417203	0,715755867	1,118895154	0,940752449
<i>Gpr180</i>	0,716170444	0,82081823	0,859908183	1,047838736	0,951504198
<i>Tchp</i>	0,663308541	0,754171457	0,851663658	1,039869102	0,935485717
<i>Clptm1</i>	0,637653047	0,879845245	0,927717988	1,087330099	0,971479629
<i>H47</i>	0,645919253	0,837728064	0,908844177	1,100922887	0,94494375
<i>Lyrn5</i>	0,61096372	0,866084039	0,871999689	1,113900217	0,945014734
<i>Oas2</i>	0,535995573	0,718431062	0,739124092	1,305228199	1,036046967
<i>Lats2</i>	0,621268576	0,708787335	0,7243103	1,242201403	1,091814625
<i>Ntn5</i>	0,651645694	0,735373678	0,814426926	1,28421445	1,06402149
<i>Comtd1</i>	0,682197961	0,819854823	0,831158342	1,313832198	1,073693065
<i>Rab20</i>	0,750990657	0,817035358	0,766175913	1,02068289	1,069533869
<i>Ttc21a</i>	0,71437543	0,813874412	0,794002909	0,971720579	1,030076434
<i>Sat1</i>	0,723787397	0,834397649	0,676191621	1,022627484	1,140464525
<i>Deaf1</i>	0,727195072	0,824740715	0,868768161	0,943417596	1,098024869
<i>Pex11c</i>	0,697142571	0,766879413	0,847168754	0,933510143	1,121369297
<i>Spice1</i>	0,807367769	0,772489402	0,823638682	1,005946513	1,163486135
<i>Slc36a1</i>	0,650639731	0,69584094	0,830506412	0,938299062	1,029247118
<i>BC031361</i>	0,647469676	0,785283576	0,812364171	0,964905029	1,054837651
<i>Eci1</i>	0,742273964	0,686326653	0,759263254	1,039521334	0,951347557
<i>Fads6</i>	0,77946781	0,857977359	0,930592006	1,021903366	0,950778292
<i>Ramp3</i>	0,847013938	0,873519819	0,933325308	1,012432036	0,973175334
<i>Zfx2</i>	0,822893425	0,772231564	0,922095723	0,930201299	1,013571244
<i>Cnpy3</i>	0,767866397	0,793629855	0,888498258	0,941698498	1,032240094
<i>Prc1</i>	0,922726345	0,788989063	0,886001599	1,113082041	0,990494502
<i>Snhg4</i>	0,844118796	0,830986335	0,8879533	1,0908862	0,95004464
<i>H2-M3</i>	0,447165998	0,619311152	0,964228297	1,173396451	1,635419162
<i>Golm1</i>	0,359062588	0,637292439	0,787124851	1,253885111	1,696290601
<i>Sf3b4</i>	0,716442399	0,692063493	0,932140849	1,231391952	1,547024433
<i>Ap3m2</i>	0,654970509	0,769101041	0,908547971	1,372995444	1,63759153
<i>Ctsa</i>	0,659146434	0,572720216	0,982789261	1,359346882	1,613301209
<i>Rsl1d1</i>	0,358571164	0,68371362	1,073100995	1,270988869	1,360037727
<i>Ms4a6c</i>	0,429737641	0,677573916	1,012104147	1,223166658	1,412434785
<i>Prss50</i>	0,379731783	0,778333821	1,113743063	1,309915365	1,543434914
<i>Ddx21</i>	0,343976028	0,704620339	1,084335582	1,233178675	1,542181818
<i>Rae1</i>	0,407455912	0,801364837	0,982382298	1,228300864	1,545712599
<i>Arhgef18</i>	0,317021114	0,797367821	0,883603468	1,267096123	1,544180434
<i>2310014L17Rik</i>	0,492794305	0,563117183	0,826589704	1,44253846	1,253742369
<i>Gm9047</i>	0,572928879	0,522269973	0,838483766	1,382520395	1,287555334
<i>Tmed4</i>	0,657000012	0,598771896	0,883612659	1,338347985	1,376427801
<i>Fam65c</i>	0,481715416	0,500082574	0,822947006	1,269006839	1,289480432
<i>Nip7</i>	0,392308103	0,494686925	0,761764788	1,150656518	1,345274405
<i>Otop3</i>	0,378284759	0,695872282	0,707706903	1,284116834	1,214447231
<i>Madd</i>	0,227321228	0,541604998	0,743273886	1,164380857	1,297622066
<i>Lrrc61</i>	0,281555314	0,450206016	0,769545361	1,073849613	1,233540966
<i>Polr2j</i>	0,629295217	0,591466965	0,746594895	1,044078978	1,452530979
<i>BC031181</i>	0,585845474	0,680238251	0,758162783	1,148075893	1,360120635
<i>Tmem177</i>	0,4209987	0,528841996	0,680140713	1,04317715	1,463987499
<i>Hsh2d</i>	0,493743769	0,642237376	0,842902108	1,158067342	1,285742695

<i>Vasn</i>	0,446837993	0,675211685	0,846692517	1,069202399	1,263167967
<i>Pa2g4</i>	0,526284651	0,577000117	0,885853602	1,026522028	1,365801649
<i>Bola3</i>	0,422182089	0,705553052	0,880353819	1,042706267	1,440474943
<i>E130102H24Rik</i>	0,473719175	0,792344803	0,806099253	1,013276192	1,42330004
<i>Exosc5</i>	0,631598201	0,601957104	0,997366646	0,913634284	1,357848187
<i>Eif6</i>	0,576311729	0,616732166	0,976314547	0,89309183	1,379060449
<i>Ap3d1</i>	0,564578202	0,673265242	1,015004031	0,915117759	1,29106943
<i>Sharpin</i>	0,636997946	0,528629279	1,064238179	0,976827818	1,386503945
<i>Sc4mol</i>	0,425068392	0,478353634	1,003699872	0,766297349	1,264464005
<i>Mir17hg</i>	0,541231734	0,487153132	1,004493795	0,891174139	1,227143078
<i>Vars</i>	0,625991046	0,755892367	0,980151544	0,758629683	1,470535798
<i>Tomm5</i>	0,573626513	0,695852053	0,988628238	0,75381768	1,38628823
<i>Syf2</i>	0,513106032	0,767703515	1,052766365	0,905099185	1,443475081
<i>Med30</i>	0,601050191	0,78471081	1,096624754	0,879599374	1,403790695
<i>Twistnb</i>	0,495217929	0,709905693	1,063525341	0,80751406	1,281135951
<i>Gm11696</i>	0,58375715	0,785438538	1,123986914	0,737924015	1,293728134
<i>Hras1</i>	0,632377503	0,553916925	1,105516481	0,753127383	1,417484666
<i>Fkbp4</i>	0,66660608	0,686655783	1,105133944	0,740412232	1,490805381
<i>2810422J05Rik</i>	0,738537443	0,586843494	0,870717285	0,570879055	1,327909528
<i>Zfp296</i>	0,816203568	0,674047962	0,940010127	0,568682937	1,324194359
<i>Rxra</i>	0,701657811	0,553412396	0,96221438	0,555599483	1,174034095
<i>Rrp12</i>	0,843152935	0,629550293	1,160407605	0,554677973	1,376984599
<i>Stac2</i>	0,770427669	0,576904607	1,178900539	0,73325027	1,289491589
<i>Arsa</i>	0,732580302	0,878343269	1,071800077	0,536207476	1,257581685
<i>Tnfsf10</i>	0,795868295	0,80032409	1,093460547	0,627119757	1,259586837
<i>Ap2a1</i>	0,697338063	0,737870186	1,092464308	0,645293735	1,241947908
<i>Slc25a44</i>	0,661080973	0,774056447	1,116672273	0,641936468	1,328442517
<i>Spock2</i>	0,714529693	0,65723224	1,063498211	0,583668059	1,077753699
<i>Kdm1b</i>	0,717679827	0,712946519	1,122548251	0,660597705	1,069441287
<i>Pou5f1</i>	0,774654834	0,676222997	1,185794469	0,606590751	1,197272236
<i>D330012F22Rik</i>	0,746079716	0,807812574	1,209112748	1,098976274	1,341541243
<i>Rusc1</i>	0,733491281	0,73899435	1,16621227	1,13465615	1,356483753
<i>Pam16</i>	0,665184273	0,826016928	1,149777103	0,991032046	1,402376359
<i>Tmem222</i>	0,727759661	0,800327194	1,159522109	1,023102396	1,389385225
<i>Slc26a11</i>	0,702009951	0,729884882	1,040263468	0,941857737	1,284377522
<i>Med20</i>	0,686081947	0,800915672	1,078436943	0,961942053	1,298794256
<i>Slc6a6</i>	0,753306901	0,822235965	1,128333842	0,909487157	1,266006206
<i>Vps37d</i>	0,817825651	0,780327763	1,132664096	0,936738018	1,255456333
<i>6430531B16Rik</i>	0,790469785	0,643716641	1,012260228	1,078590859	1,419609862
<i>Llgl1</i>	0,864215385	0,624654385	1,019988167	1,024424539	1,374412667
<i>Ndufb9</i>	0,804012805	0,658746229	0,992988571	1,158833263	1,294689719
<i>Polr2f</i>	0,73409806	0,752004421	1,077651429	1,112751777	1,376351655
<i>Dpm2</i>	0,725913863	0,680324292	1,036439423	1,15808659	1,451320959
<i>Mri1</i>	0,802441991	0,798052854	0,923006905	1,017331502	1,385934689
<i>Fcer1g</i>	0,851125753	0,717357204	0,920208626	1,093799133	1,454968287
<i>Cln5</i>	0,56795394	0,667379393	0,974282483	1,061404274	1,311744133
<i>Ctu1</i>	0,601532157	0,638263257	0,926509161	1,11778326	1,291874847
<i>Amz1</i>	0,689601892	0,650390107	1,019615946	1,080360405	1,240494965
<i>Glo1</i>	0,685826263	0,765768843	1,001401117	1,033063352	1,375292622
<i>Rfxank</i>	0,61829759	0,695946524	0,91205504	1,057719525	1,4009434
<i>Cct8</i>	0,555705209	0,768362921	1,086146429	1,098122239	1,359892024

<i>Fkbp8</i>	0,543530627	0,816084705	1,048769351	1,123711154	1,364820457
<i>Ncl</i>	0,612822029	0,822187299	1,057753854	1,126066115	1,351293101
<i>Map2k2</i>	0,59433487	0,74239754	1,127465455	1,078751323	1,315243292
<i>Pknox1</i>	0,659493452	0,858326162	0,920272433	0,968317762	1,234609029
<i>Pcnxl3</i>	0,654305119	0,879557328	0,877223603	0,907666249	1,188667864
<i>Capns1</i>	0,630000426	0,883317618	0,936633649	0,861067457	1,299468266
<i>Chtf8</i>	0,720364652	0,907407555	0,832645555	0,946319356	1,328805007
<i>Z700038G22Rik</i>	0,752021572	0,95087654	0,885355001	0,902153712	1,324206236
<i>Tmbim4</i>	0,714804228	0,845105866	0,916015077	1,068467191	1,289639022
<i>Tanc1</i>	0,735808932	0,825655426	0,863086989	0,992670681	1,239957011
<i>Hcfc1r1</i>	0,653561451	0,974432418	0,821101448	1,062660536	1,424409322
<i>Atp6v1f</i>	0,614392011	0,79774866	0,853314089	1,025689389	1,486762368
<i>Polr3g</i>	0,755313531	0,752473971	1,032357245	0,929820004	1,161713162
<i>Muc1</i>	0,721858421	0,66765299	1,004069935	0,970643409	1,133666675
<i>Pink1</i>	0,694509401	0,706060863	0,945351342	0,954152163	1,214262284
<i>Surf4</i>	0,795465782	0,785493882	0,988590559	0,990138822	1,144536767
<i>Atad1</i>	0,810802459	0,786914849	0,951473536	0,918713321	1,109526858
<i>Sema4g</i>	0,786161742	0,80961601	1,036387926	0,761480143	1,068866894
<i>Acox1</i>	0,828485116	0,778459272	0,980779829	0,812984599	1,064090729
<i>Fbxl19</i>	0,821218372	0,693706466	1,043508326	0,826058185	1,16022203
<i>Slc25a33</i>	0,880042535	0,934459266	1,054015881	0,95212311	1,308875355
<i>Pigl</i>	0,942154197	0,938453045	1,115410089	0,954158719	1,28187812
<i>Zfp64</i>	0,85734422	0,940349227	1,076131972	0,943317969	1,200757639
<i>Aqp3</i>	0,829132165	0,90377868	1,116167106	0,930472053	1,250236867
<i>Foxd2</i>	0,929298521	0,845045433	1,071011199	0,88051167	1,266997103
<i>Rhoq</i>	0,90025386	0,921734972	1,12050862	0,824964182	1,261246629
<i>Scnn1a</i>	0,842920733	0,91226065	0,983535411	0,874911091	1,187562762
<i>Mark4</i>	0,830280177	0,901425779	0,986882603	0,907558998	1,211929839
<i>Sh3glb2</i>	0,897420122	0,815710636	0,929970658	0,944409721	1,216210421
<i>Ttc9c</i>	0,756132227	0,939602087	1,078581776	0,841884133	1,244871822
<i>Coro6</i>	0,82660462	0,90268818	1,034602292	0,847054066	1,339224544
<i>Acss1</i>	0,835259682	0,791985748	1,062972766	0,746608517	1,307872292
<i>Atp6v0b</i>	0,496059464	0,375856885	0,907310409	0,931596607	1,002957816
<i>Zdhhc7</i>	0,495044663	0,434117383	0,856943278	0,960956647	1,051708735
<i>Lin7c</i>	0,479837937	0,40849542	0,816619679	1,005320726	1,13666767
<i>O610031J06Rik</i>	0,638394942	0,479511071	1,021608734	1,051727018	1,120660151
<i>Hsp90aa1</i>	0,65742136	0,428988054	0,931746787	0,928882304	1,073614361
<i>Mgat2</i>	0,730529347	0,466344368	0,898080852	1,19724045	1,161548119
<i>Med25</i>	0,828502516	0,517033817	0,841517617	0,98298516	1,195336458
<i>Snhg3</i>	0,67645398	0,304560826	1,113937941	0,955027961	1,3804312
<i>Smcr7</i>	0,850993063	0,418478734	0,868884365	0,989891643	1,462954449
<i>A330009N23Rik</i>	0,676967177	0,279273959	0,752605218	0,948187355	1,450266869
<i>Tmem160</i>	0,587421672	0,36065845	0,88189367	0,774362531	1,486890621
<i>Cyhr1</i>	0,460500964	0,480773693	0,391565279	1,389739312	1,239361164
<i>Mterf</i>	0,617755535	0,370741132	0,263326195	1,135383181	1,594894738
<i>Drd4</i>	0,625269524	0,725200612	0,526679988	0,866351695	1,46001192
<i>Yipf2</i>	0,515729659	0,868517945	0,557624496	0,910344401	1,400500425
<i>Uba52</i>	0,856656198	0,818252287	0,512700806	1,004571955	1,37162105
<i>Ccdc74a</i>	0,753677101	0,710424315	0,542697306	0,964030344	1,160992277
<i>Pde2a</i>	0,895155811	0,586605769	0,562609234	0,910450383	1,22153909
<i>Uqcr11</i>	0,778153036	0,524116549	0,508851381	0,836045837	1,105464409

<i>Foxc2</i>	0,718515981	0,535836671	0,523316836	0,802179225	1,168472887
<i>A630076J17Rik</i>	0,780692638	0,339839018	0,608438552	0,931022936	1,246744868
<i>Phyhd1</i>	0,592593779	0,355365007	0,551360153	1,038106941	1,165366669
<i>Tstd1</i>	0,772232952	0,385946249	0,287259244	1,080667879	1,02079816
<i>Wfikkn2</i>	0,49284606	0,704148575	0,197513701	0,868441414	1,035306205
<i>Zfp764</i>	0,486307064	0,706525665	0,411459253	0,98609623	1,230035783
<i>Selm</i>	0,710820642	0,888371833	0,352068905	0,913078923	1,117129808
<i>1700047I17Rik2</i>	0,732771234	1,005439322	0,012908504	0,976386503	1,121370949
<i>Fam177a</i>	0,732771234	1,005439322	0,012908504	0,976386503	1,121370949
<i>Pfdn5</i>	0,397772427	1,120823321	1,16257336	0,916125535	1,288034459
<i>Hdac2</i>	0,371749627	1,088284151	1,282244784	1,003772023	1,320405753
<i>Vps26b</i>	0,380500621	0,891657449	1,109541353	0,919188241	1,33567759
<i>Prkrir</i>	0,381320207	0,906920579	1,081529674	0,915146671	1,32415628
<i>Ric8b</i>	0,38007846	0,937205336	1,122831289	0,838403245	1,289841049
<i>Tbc1d20</i>	0,399640538	0,874752685	1,169114109	0,965076098	1,330420453
<i>Ilkap</i>	0,508068346	1,014871288	1,252844527	1,069488747	1,355607068
<i>Ivns1abp</i>	0,565960918	1,031599726	1,234103586	1,064468243	1,36760534
<i>Rasa2</i>	0,468386649	1,019941673	1,204823337	1,096630834	1,338267612
<i>Arhgap4</i>	0,571035849	0,945792092	1,271350125	1,03352612	1,26654883
<i>Mms19</i>	0,559528759	1,011685927	1,324593543	1,004694654	1,316361729
<i>Nedd4</i>	0,48160699	0,953573955	1,237386113	0,924276392	1,374315383
<i>Isg20I2</i>	0,466415647	1,02204472	1,260893138	0,970215528	1,327893304
<i>Gpr97</i>	0,487280813	0,943917332	1,206091695	0,929351657	1,272353747
<i>Ffar2</i>	0,481760084	0,978271433	1,16620236	0,942126075	1,251599573
<i>Golt1b</i>	0,546150708	0,989374414	1,184285985	0,972523432	1,286289743
<i>Zfp664</i>	0,4921801	0,969337514	1,160172186	0,859414962	1,077227627
<i>Klhl11</i>	0,478312336	1,091316878	1,297096686	0,900684866	1,164801711
<i>Rab2a</i>	0,236341997	1,003838082	1,113216822	0,984705036	1,350361847
<i>Gpbp1I1</i>	0,30894805	1,021686205	1,103490151	1,003436853	1,390851995
<i>Vcpip1</i>	0,245633871	1,003346971	1,043362881	0,971051768	1,441091913
<i>Usmg5</i>	0,269735502	1,041574464	0,953806787	0,877502147	1,310826868
<i>Arhgap1</i>	0,431114675	0,994354909	0,952390248	1,0129516	1,28663232
<i>Ncbp2</i>	0,372420633	0,945171059	0,912667242	0,971087415	1,255994922
<i>Nt5e</i>	0,335434678	0,995990983	0,954165518	0,954811554	1,361044978
<i>Zfp809</i>	0,417994013	0,957975586	0,973718787	0,93412629	1,390616643
<i>Tra2a</i>	0,208450867	0,917731857	1,193214017	1,163183646	1,372560958
<i>Hspa4</i>	0,212619996	0,963814276	1,179004485	1,199300131	1,367529867
<i>Csde1</i>	0,142935957	0,97387922	1,257689985	1,166155651	1,443954733
<i>Caprin1</i>	0,140178561	1,027117597	1,242637286	1,254687613	1,330546578
<i>Csnk2a1</i>	0,187834918	0,917658128	1,157071064	1,126828936	1,272354258
<i>Qrich1</i>	0,200444183	0,910753803	1,104355434	1,116934183	1,293847664
<i>Mob4</i>	0,248649725	0,965810172	1,152813678	1,140798999	1,265767739
<i>Tnik</i>	0,175558344	0,986189792	1,188341461	1,081332816	1,274377029
<i>Fem1b</i>	0,138191415	0,964828247	1,216781558	1,079185387	1,24246955
<i>Clk4</i>	0,221080037	0,966616533	1,296669161	1,027474054	1,347063552
<i>Gar1</i>	0,129463083	0,99145929	1,29690537	1,021199823	1,353391837
<i>Ing2</i>	0,239168717	0,950927674	1,382480643	1,023367474	1,293494312
<i>Lman1I</i>	0,247999513	0,808930258	1,424404431	1,033056934	1,486585203
<i>Jmjd7</i>	0,114627095	0,774356427	1,334472779	1,01555118	1,395477724
<i>Wdr43</i>	0,210839809	0,855265795	1,178456792	1,143580962	1,496506763
<i>Calr</i>	0,244658389	0,790942852	1,225018531	1,182218607	1,494334252

<i>Pde3b</i>	0,164898609	0,800969178	1,223094448	1,109508258	1,550299978
<i>C030034I22Rik</i>	0,179006849	0,807337803	1,2221903	1,054266229	1,591447456
<i>Tssk2</i>	0,306898149	0,96406597	1,055089697	1,146567252	1,38256908
<i>Parp9</i>	0,328042965	0,877230804	1,095563273	1,138498944	1,469123138
<i>Rbm7</i>	0,189637439	0,945265743	1,075989263	1,139167248	1,487536994
<i>Uhmk1</i>	0,315514978	0,988932573	1,234317296	1,117537649	1,458576148
<i>Chchd2</i>	0,278948066	0,990044147	1,251547413	1,05787229	1,46085425
<i>Rnf146</i>	0,305398492	1,01311674	1,208676174	1,099553457	1,412062554
<i>Ybx1</i>	0,287766592	1,027173292	1,228760123	1,074432917	1,371595349
<i>Atp5j</i>	0,295149465	0,996966956	1,160077814	1,094277824	1,560798699
<i>Smek1</i>	0,272254828	1,0145934	1,225551398	1,126363731	1,520583203
<i>Hsp90b1</i>	0,291273501	0,998351591	1,190173969	1,057960734	1,642018185
<i>Mrpl33</i>	0,174185474	1,120657423	1,22856114	1,105336296	1,570355724
<i>Rnps1</i>	0,096952009	0,945845168	1,199614296	1,01070042	1,551059719
<i>Dleu2</i>	0,604069012	0,913551488	1,213157339	1,126299275	1,298835063
<i>E530011L22Rik</i>	0,611634178	0,973280771	1,175194343	1,151207338	1,277131484
<i>Cs</i>	0,592604101	0,990247044	1,25251496	1,160573952	1,296788361
<i>Z610301G19Rik</i>	0,691683487	0,932658901	1,332456336	1,145124986	1,250735431
<i>Zmym1</i>	0,609674074	1,066366563	1,318745643	1,086390442	1,217066947
<i>Ddx17</i>	0,650883059	1,121457097	1,286944163	1,145092243	1,290627221
<i>Nfe2l1</i>	0,571111855	1,079957477	1,404648321	1,067744096	1,294427662
<i>Tdp2</i>	0,486500408	0,875271575	1,246442142	1,206267846	1,471027427
<i>Wbscr16</i>	0,481768199	0,991451805	1,316417874	1,181232813	1,496502412
<i>Dnajc14</i>	0,443380302	0,908362919	1,278573854	1,200378344	1,304817385
<i>O610007L01Rik</i>	0,425544405	0,926518412	1,199928229	1,241553393	1,391533455
<i>Znfx1</i>	0,536565849	1,135289542	1,086776044	1,19243831	1,484296432
<i>Ube2q1</i>	0,549903541	1,116303679	1,094796264	1,224200881	1,567170286
<i>Rps19bp1</i>	0,497039124	1,139901749	1,094509669	1,007148681	1,506296625
<i>Wdyh1</i>	0,486353344	0,998584551	1,146503908	1,100591937	1,563592125
<i>Reep5</i>	0,469885213	0,998560752	1,198200814	1,125743759	1,499716355
<i>Anapc7</i>	0,526217078	0,97668275	1,179821977	1,037967564	1,492054852
<i>Eml4</i>	0,588526862	1,044134181	1,179529644	1,15762413	1,452715348
<i>Kif5b</i>	0,500661411	1,071613172	1,205335542	1,165751865	1,422453347
<i>Srsf12</i>	0,56575165	1,047772692	1,314680391	1,115231889	1,526040124
<i>Cyth3</i>	0,59943356	0,983762621	1,285662104	1,091248473	1,536946246
<i>4930581F22Rik</i>	0,597517871	1,105099492	1,189367293	1,118243265	1,576995781
<i>Eif4a3</i>	0,3928994	0,98175188	1,096755601	1,111370709	1,380249744
<i>Ahnak</i>	0,398280901	0,898720519	1,140269712	1,094570535	1,415064354
<i>Tmod3</i>	0,474514635	0,933215187	1,125813731	1,136665104	1,464201089
<i>Zswim6</i>	0,379834937	0,964471579	1,145575974	1,178420251	1,502200007
<i>Pds5a</i>	0,415170348	0,998398522	1,164913981	1,174642573	1,465881156
<i>Pcf11</i>	0,349017444	0,99598863	1,110829323	1,237517866	1,483607871
<i>Srpr</i>	0,497392812	0,86151184	1,019708148	1,138623564	1,54226625
<i>Rpl35a</i>	0,427503829	0,941937264	1,068428367	1,079528752	1,601400296
<i>Ttc3</i>	0,312851564	1,196697517	1,346127372	1,183652174	1,241178484
<i>Ube2b</i>	0,303804841	1,158218791	1,268125228	1,195943202	1,226041842
<i>Kdm5b</i>	0,401463331	1,213815203	1,288594382	1,196220887	1,17105267
<i>Cdc40</i>	0,385306259	1,247146051	1,250442693	1,183386676	1,21143953
<i>Stap1</i>	0,415498304	1,183282658	1,26384641	1,062445529	1,193879974
<i>Ranbp6</i>	0,4628357	1,253332868	1,243194339	1,068409804	1,25533178
<i>Tmem70</i>	0,389645281	1,310951554	1,413166309	1,209371754	1,376924492

<i>Sgk3</i>	0,472973772	1,226073551	1,363013988	1,18149102	1,329896769
<i>Gramd1b</i>	0,304651633	1,265787204	1,278424333	1,137073395	1,42610863
<i>4933426M11Rik</i>	0,289279044	1,244633909	1,26058862	1,218437492	1,368328085
<i>Capza2</i>	0,350936872	1,128218874	1,376205603	1,148657575	1,409258089
<i>Zfp53</i>	0,451437141	1,069128379	1,398114539	1,099182758	1,482639379
<i>Plekho2</i>	0,4499592	1,100024397	1,424987332	0,959568733	1,417080527
<i>Ifit1</i>	-0,315524156	1,047837612	1,263763268	1,320349372	1,347671465
<i>Tank</i>	-0,025645465	1,106476758	1,228494912	1,271078947	1,311418246
<i>Cnot6l</i>	0,00925747	1,174156215	1,264562922	1,38562513	1,386524083
<i>Nup153</i>	0,07309876	1,07871473	1,092156977	1,432552148	1,368593301
<i>Rod1</i>	0,164664669	1,13710007	1,221562554	1,293660637	1,369563351
<i>Pum2</i>	0,22940816	1,16695383	1,273221076	1,30952692	1,396442494
<i>Msn</i>	0,137661723	1,191969532	1,242685036	1,218052122	1,345343697
<i>Pon2</i>	0,236912184	1,138942885	1,170807501	1,241587263	1,225522497
<i>Tm9sf3</i>	0,275120476	1,13319804	1,13955289	1,249496633	1,359081325
<i>Arcn1</i>	0,120178762	1,005829638	1,287386366	1,229191839	1,589831504
<i>Dmtf1</i>	0,086363106	0,972815573	1,256941044	1,262235699	1,54392355
<i>2500003M10Rik</i>	0,05553287	0,998362895	1,191990893	1,229661722	1,517191645
<i>Atrip</i>	0,232189401	0,944233316	1,249017957	1,223629116	1,59425838
<i>Ipcef1</i>	0,161802088	0,994900715	1,196537123	1,233888477	1,645729625
<i>Zc3h15</i>	0,046292229	1,005287522	1,395746598	1,14707429	1,520716148
<i>Zfp622</i>	0,073924165	1,017431611	1,330030526	1,164111639	1,457764083
<i>Samd9l</i>	0,045091833	1,059698463	1,410986769	1,30478714	1,558948288
<i>Tmem9b</i>	0,154197577	0,979200671	0,963154866	1,254354355	1,457013247
<i>Filip1l</i>	0,12289361	1,084495453	1,057382427	1,190338091	1,404478453
<i>Dguok</i>	0,330141784	0,968508505	0,968033161	1,290706923	1,416833901
<i>Metap1</i>	0,298692242	0,973649259	1,014013747	1,280518274	1,328774546
<i>Nras</i>	0,182675812	1,108060269	1,055838292	1,318184286	1,386812188
<i>C030019I05Rik</i>	0,28247046	1,127777256	1,046445678	1,371219314	1,354654122
<i>Tmf1</i>	0,206510582	1,193979865	1,081293197	1,310232483	1,499009826
<i>Kpna4</i>	0,233491512	1,036926384	1,182564551	1,252744125	1,462797982
<i>Cpsf6</i>	0,279953105	0,987646365	1,174680711	1,272977398	1,441473752
<i>Arhgap39</i>	0,281786693	1,062215138	1,1608172	1,392567113	1,43841432
<i>Rnf4</i>	0,337691113	0,904231153	1,4134268	1,175650387	1,533977986
<i>Zcchc13</i>	0,327003195	1,022656323	1,452227209	1,133136732	1,476891195
<i>2900097C17Rik</i>	0,337029657	1,004945528	1,428990875	1,241855056	1,387774806
<i>Mitd1</i>	0,422005303	0,92994701	1,436240824	1,2444285	1,455667996
<i>Vapa</i>	0,362717222	1,014647988	1,351015005	1,251252467	1,638282271
<i>Trafd1</i>	0,379366479	1,06051132	1,487510128	1,294713048	1,616932519
<i>Matr3</i>	0,278678493	1,07015409	1,448228893	1,44379734	1,626087164
<i>Map3k3</i>	0,278138955	1,115039986	1,406232205	1,486814598	1,581777879
<i>5430416N02Rik</i>	0,315277504	1,046890313	1,405510173	1,417790937	1,524345028
<i>Zfp207</i>	0,425823918	1,036967346	1,410852429	1,474383954	1,589289092
<i>Hnrnpm</i>	0,331357386	1,120492806	1,447201892	1,344526818	1,432724268
<i>Kpnb1</i>	0,332990486	1,110370717	1,357817691	1,395830433	1,427850624
<i>Dcaf12</i>	0,515212576	1,216531417	1,24575522	1,316976869	1,475658034
<i>Usp25</i>	0,419582376	1,177978335	1,257300877	1,270065344	1,519882315
<i>Csnk1g3</i>	0,423634495	1,278521769	1,249575273	1,379082033	1,491530434
<i>Picalm</i>	0,341972363	1,218020773	1,385025882	1,293334204	1,489077765
<i>Papola</i>	0,367921017	1,229997737	1,38380112	1,330576887	1,50561757
<i>Gbbp1</i>	0,407104567	1,222579156	1,421279747	1,249178916	1,44889484

<i>Arpc1a</i>	0,416276107	1,258700252	1,350880064	1,335864662	1,469845267
<i>Rap1gds1</i>	0,456380355	1,228459278	1,374087346	1,333717161	1,491828664
<i>Abi1</i>	0,467522069	1,258233887	1,334653244	1,286030378	1,483341658
<i>Zzz3</i>	0,429249592	1,200999159	1,357503456	1,291811256	1,550939545
<i>Tmem30a</i>	0,376184562	1,015827339	1,239884481	1,284842149	1,512492789
<i>Lnpep</i>	0,343788865	1,056470657	1,267590875	1,274633717	1,53051991
<i>Eif3h</i>	0,328276509	1,119127549	1,278618809	1,224621432	1,491788672
<i>Snrnp70</i>	0,298886525	1,098765961	1,284342716	1,238694355	1,514157824
<i>Ppp1r12a</i>	0,404212045	1,100859496	1,244210725	1,261331279	1,496109682
<i>Ngdn</i>	0,374989439	1,068928938	1,255227316	1,247769032	1,436717487
<i>Zfp866</i>	0,38994758	1,118631072	1,300613249	1,289344052	1,447759285
<i>Rbm5</i>	0,398640031	1,125961852	1,208788976	1,212351745	1,458652022
<i>Prkacb</i>	0,435089803	1,099554834	1,258214748	1,185052554	1,476261753
<i>Paip2</i>	0,265571222	1,312687489	1,352950022	1,366182581	1,483896638
<i>Smarce1</i>	0,181804793	1,279694837	1,313227064	1,334297763	1,396238684
<i>Laptm4a</i>	0,180971457	1,203513038	1,347919272	1,275669073	1,536679422
<i>Ythdc1</i>	0,171705062	1,176642794	1,385929426	1,348347516	1,484732399
<i>Wdr26</i>	0,247660314	1,347124885	1,235814045	1,440183149	1,547725759
<i>Ncbp1</i>	0,223272159	1,3460609	1,330000741	1,484144536	1,576290102
<i>Rbbp6</i>	0,222912974	1,210627025	1,477585878	1,309918758	1,524086558
<i>5330426P16Rik</i>	0,148376377	1,22207562	1,50616136	1,402928092	1,555645469
<i>Gm20199</i>	-0,126524007	1,381303816	1,420921252	1,45598198	1,506478858
<i>Uchl4</i>	-0,227113452	1,432910066	1,373638343	1,465558303	1,414475383
<i>Nedd9</i>	0,310112837	1,483053503	1,542626033	1,438889689	1,488407991
<i>Hspb7</i>	0,219581195	1,522883374	1,657370361	1,222012052	1,348177578
<i>Rabgef1</i>	0,244069109	1,096496333	1,2031515	1,07453474	1,210709194
<i>Pdha1</i>	0,211000009	1,23292349	1,21025514	1,106921587	1,232641463
<i>Klk9</i>	0,198394337	1,196508624	1,315538413	0,953369403	1,367496714
<i>Morn2</i>	0,184810928	1,07843257	1,451114575	1,042258468	1,069679115
<i>Rap2c</i>	-0,00762213	1,422906389	1,412495114	1,196723608	1,156673839
<i>Plat</i>	0,289011685	1,085202458	0,692596073	1,66923266	1,645202487
<i>9930111J21Rik2</i>	0,065786798	0,963169256	0,965389085	1,818914896	1,829216875
<i>Ms4a4c</i>	0,23557824	0,871028805	0,985047339	1,480218442	1,576305592
<i>Rexo2</i>	0,339021743	0,88776816	0,929314091	1,416461993	1,618327016
<i>Aim2</i>	0,180748458	0,794894968	0,864709916	1,299107637	1,650659774
<i>Klhdc2</i>	0,363474064	0,851874533	0,76166209	1,482195309	1,657086492
<i>A430078G23Rik</i>	0,315344127	1,009000773	1,228083457	1,542872873	1,699930736
<i>Casp8</i>	0,297230556	1,068164168	1,237804765	1,387442103	1,649963464
<i>Smurf2</i>	0,230396042	0,866376381	1,133771151	1,34585417	1,592438482
<i>Gm8369</i>	0,272512849	0,892806949	1,178672128	1,493612508	1,603008082
<i>Mthfd2</i>	0,58698351	0,879529206	1,117712997	1,652337065	1,566446379
<i>Icosl</i>	0,497459385	1,016424612	0,995936439	1,619886391	1,522870757
<i>Mrpl27</i>	0,164168505	1,437389636	0,739335965	1,392114445	1,36129833
<i>Pigc</i>	0,056494179	1,162999247	0,736075632	1,354611022	1,532190409
<i>Arid5b</i>	0,210696646	1,311468673	1,039438745	1,470889846	1,361883518
<i>Rpl24</i>	0,228172113	1,27141441	1,156954634	1,459957701	1,450202147
<i>Fam134b</i>	0,046596156	1,255751562	0,964583224	1,513340883	1,340146184
<i>A030009H04Rik</i>	0,323841789	1,290918265	0,933535938	1,65366671	1,436779521
<i>Zfp579</i>	0,415285516	0,692479441	1,021653249	0,857394372	1,359857757
<i>Naa25</i>	0,37532585	0,741143833	1,022350574	0,924224782	1,374775357
<i>Rsl24d1</i>	0,467739619	0,591689799	1,093964401	0,855600498	1,402725955

<i>Mllt1</i>	0,465792874	0,642089924	1,044074643	0,844671966	1,434517304
<i>Slc52a2</i>	0,483709037	0,596758592	1,18583305	0,983865646	1,477823365
<i>Clstn1</i>	0,354311121	0,626715035	1,171704134	1,001942612	1,506074123
<i>Sars</i>	0,317426479	0,724899734	0,952641502	1,027242931	1,489905264
<i>Stx1a</i>	0,352270504	0,657843253	1,048478356	0,91748298	1,560451214
<i>C1qbp</i>	0,227226183	0,756776449	1,151145457	0,837497203	1,418150791
<i>Zfp87</i>	0,198949783	0,855208366	1,226078333	0,92560929	1,317977541
<i>Pdcd6ip</i>	0,267522869	0,757321378	1,072701058	0,917203837	1,311236993
<i>Fnbp4</i>	0,263214812	0,682925319	1,07636303	0,944728447	1,30506502
<i>1200014J11Rik</i>	0,16477397	0,699363163	1,12421971	0,916523244	1,278791406
<i>Dock10</i>	0,174410584	0,694438506	1,067131765	0,957959992	1,418153288
<i>Alkbh1</i>	0,157075981	0,724990792	1,129464734	0,983216545	1,35341144
<i>Sec61a1</i>	0,243417861	0,616958253	0,905403936	0,791056356	1,387921322
<i>Slc15a4</i>	0,290272601	0,61490909	1,011639834	0,752895514	1,358305416
<i>Gars</i>	0,279710646	0,529510812	1,048077446	0,680750677	1,450172263
<i>Adamts10</i>	0,42319272	0,64952432	0,9305828	0,760957048	1,42500973
<i>Fyco1</i>	0,437654838	0,571914952	0,990580114	0,677938656	1,462599738
<i>Rpa2</i>	0,350830627	0,509925035	1,134830322	0,848867479	1,228629227
<i>Slamf7</i>	0,363761195	0,532221075	1,209906839	0,739579828	1,338755738
<i>Gpd2</i>	0,215538635	0,788577527	1,14215663	0,6955651	1,229626851
<i>Sugt1</i>	0,254592229	0,690858219	1,138291166	0,739941093	1,304035939
<i>Pus3</i>	0,304378182	0,729174065	0,961741628	0,640355102	1,290899844
<i>Rps23</i>	0,458527805	0,855621177	1,516023722	0,828297935	1,228410182
<i>Apex1</i>	0,343856454	0,69795357	1,317610981	0,841038672	1,151074179
<i>Abhd14a</i>	0,352332824	0,606560541	1,557429592	0,714243828	1,478419538
<i>Ddc</i>	0,542267664	0,845238479	1,221366043	0,914716252	1,448127447
<i>Cdkl4</i>	0,559990003	0,821121819	1,267197973	0,856622971	1,429065965
<i>Chsy1</i>	0,45424542	0,862407972	1,282893603	0,774739387	1,56828855
<i>Chst15</i>	0,565055785	0,746996657	1,290937598	0,661127446	1,398122787
<i>Gm20257</i>	0,292109681	0,845649978	1,410885325	0,768366258	1,422954025
<i>Pou5f2</i>	0,447973789	1,049133344	1,336896455	0,745125496	1,435431835
<i>Ifng</i>	0,043321571	1,07852348	1,262253202	0,591014327	1,348711556
<i>2900076A07Rik</i>	-0,089220354	0,85069594	1,218005383	0,687181096	1,470064106
<i>Klk8</i>	0,056768767	0,987148165	1,516447781	0,61338935	1,823193376
<i>Rrp9</i>	0,530639076	0,642341768	1,275367811	1,274991544	1,767436984
<i>Cox6a1</i>	0,461061827	0,518822277	1,295748017	1,312335019	1,656786218
<i>1810034E14Rik</i>	0,234067417	0,380982674	1,289690913	1,189713568	1,864828504
<i>Appl2</i>	0,346309605	0,84119686	1,284577605	1,423762028	1,732101877
<i>Lipt1</i>	0,529658381	0,828983777	1,415735851	1,496203454	1,709468496
<i>Arpc5</i>	0,200337371	0,732879417	1,439047713	1,572340218	1,822996447
<i>Fam32a</i>	0,655075506	0,743132026	1,425643291	1,282334582	1,495030963
<i>Nob1</i>	0,525927395	0,835486681	1,542615607	1,22206449	1,440703504
<i>Plp2</i>	0,514293456	0,656768956	1,651235563	1,328729478	1,283233547
<i>Pus1</i>	0,251340633	0,561573327	1,401968762	1,23333037	1,33440779
<i>Rplp2</i>	0,379621079	0,728810684	1,326102272	1,312784406	1,33759014
<i>Ankrd34a</i>	0,218365837	0,541083172	0,875943638	0,341299324	1,184689254
<i>Cox5b</i>	0,124339418	0,298476918	0,927666529	0,243158498	1,227463067
<i>Klhl28</i>	-0,035345672	0,395185033	0,891619424	0,643041316	1,0177489
<i>Sec61g</i>	0,083192618	0,310524106	0,975012813	0,567634943	1,073882905
<i>Mki67ip</i>	-0,147071212	0,470525631	0,901639937	0,396675048	1,038447508
<i>Pim2</i>	0,153693704	0,011163911	0,809656683	0,643172659	1,276480508

<i>Crybb1</i>	0,251939235	0,115118809	0,81999563	0,610189252	1,383711263
<i>Lrrc14b</i>	-0,070329081	-0,03185025	0,929291821	0,508241789	1,328518508
<i>Olf51</i>	-0,108328527	0,142161941	0,637006086	0,431751528	1,472596069
<i>4930579K19Rik</i>	0,06504307	0,374991569	0,79883711	0,484071711	1,208293396
<i>2410002F23Rik</i>	0,124995051	0,353817683	0,932507595	0,573913264	1,267253658
<i>4933402J15Rik</i>	-0,079518298	0,201868728	0,813987239	0,515556175	1,150979488
<i>Spryd4</i>	-0,049513597	0,305069486	0,723980773	0,727930822	1,314203611
<i>Klk10</i>	-0,070583327	0,216641463	0,695786143	0,672163487	1,320815686
<i>Timm8b</i>	0,403828711	0,164634557	0,902142497	0,576782792	1,455136465
<i>Wnt8a</i>	0,389928672	-0,112065366	1,010190415	0,418456916	1,484591245
<i>Chpf2</i>	0,646293173	0,062217382	0,973682386	0,667809245	1,352493852
<i>1700020L24Rik</i>	0,573157708	0,130044292	0,759397655	0,328950903	1,145395985
<i>4930592I03Rik</i>	0,516619533	-0,165924276	0,738626028	0,168049312	1,24758703
<i>Taar5</i>	0,634890562	-0,12104075	0,371017876	0,513163261	1,245444274
<i>D230037D09Rik</i>	0,355920668	-0,044094525	0,650266284	0,765593633	1,210872659
<i>Gzmm</i>	0,593147138	0,255754874	0,38175949	0,503128782	1,052955266
<i>Nudt18</i>	0,540733928	0,131676013	0,403681645	0,669636852	1,013197556
<i>Man2b1</i>	0,554533918	0,405383576	0,40707372	0,779444464	1,003680138
<i>Tut1</i>	0,334648693	0,474030424	0,616639586	0,595865661	1,093008241
<i>Gpank1</i>	0,300528411	0,407486459	0,719727163	0,522820457	1,151713284
<i>L3mbtl2</i>	0,400692469	0,472121808	0,641560542	0,361512217	1,019104443
<i>S100a3</i>	0,19408061	0,332452758	0,430434376	0,28869475	1,19139545
<i>Zfp688</i>	0,21485792	0,407887084	0,436364089	0,363400566	1,376988995
<i>Clp1</i>	0,201267547	0,209775083	0,681750091	0,603830474	1,294536268
<i>Aen</i>	0,194118137	0,15601236	0,648547982	0,522015689	1,319205704
<i>5033406O09Rik</i>	0,325286148	0,165512045	0,708352146	0,402861228	1,213215525
<i>Aamp</i>	0,372252308	0,259407267	0,621518904	0,424327592	1,011612585
<i>4933430H16Rik</i>	0,294321714	0,249691126	0,664628117	0,367150885	1,064534283
<i>Cd320</i>	0,244262054	0,13381646	0,495512092	0,412776397	1,052356175
<i>Tlr1</i>	-0,269993202	0,081480892	0,242410833	0,71116714	1,043335485
<i>Ncf4</i>	0,126574761	0,232928283	0,344738026	0,621401982	1,022776386
<i>Piga</i>	-0,023626629	0,020127486	0,539072983	0,41970991	1,211595249
<i>1700029H14Rik</i>	-0,033513445	0,052782321	0,534100545	0,475124316	1,000050393
<i>Glyctk</i>	0,245481549	0,263491692	0,496018202	0,613569113	1,096938921
<i>Comp</i>	0,344314005	0,328962551	0,517212962	0,656083405	1,011042682
<i>Fam96a</i>	0,234909321	0,454690858	0,390923889	0,607155537	1,045401559
<i>Ddx41</i>	0,193614081	0,389443701	0,405282474	0,607883304	1,151899527
<i>1110018J18Rik</i>	0,15381206	0,34241387	0,497885564	0,7531896	1,266167221
<i>Sidt1</i>	0,233608124	0,403179709	0,548680071	0,7736272	1,302083967
<i>Nolc1</i>	0,372438561	0,475206458	0,403996532	0,695750854	1,020458137
<i>Trim39</i>	0,429929935	0,576251003	0,475497624	0,783698038	1,017119734
<i>Psmg3</i>	0,246414983	0,554143276	0,366283733	0,787300127	1,034393574
<i>Mrps14</i>	0,201820615	0,346395294	0,619588656	0,57191917	1,100702701
<i>Timm17a</i>	0,131591911	0,435085761	0,670474078	0,590829131	1,157823765
<i>Pars2</i>	0,128505021	0,407380654	0,626331808	0,421283616	1,062752221
<i>Vamp4</i>	0,04180089	0,486251558	0,736254247	0,595416158	1,060092416
<i>Grpel1</i>	0,000533244	0,434333723	0,656248037	0,487427657	1,004365558
<i>Pdcd6</i>	-0,11764126	0,268967268	0,462450518	0,588001273	1,013057993
<i>BC094916</i>	-0,563712122	0,273970909	0,487795257	0,698060075	1,019218111
<i>Naa38</i>	-0,193855027	0,362160701	0,508017257	0,561933163	1,142832965
<i>2700090O03Rik</i>	-0,116093146	0,494718565	0,435261474	0,586935301	1,004899435

<i>Cox18</i>	-0,201098134	0,423343787	0,476851544	0,682364369	1,02201413
<i>Wdr45l</i>	0,181466661	0,584745284	0,815620926	0,717987105	1,083644249
<i>Kars</i>	0,191338185	0,570784731	0,784331873	0,697553288	1,143134612
<i>Zfp472</i>	0,149935157	0,500564596	0,807810722	0,639591017	1,068582125
<i>Fosl2</i>	0,090375171	0,562111633	0,855014588	0,619812757	1,168717161
<i>Smad2</i>	0,197101432	0,669511203	0,790782157	0,680569622	1,085611996
<i>Prpf18</i>	0,141501909	0,649158102	0,786661986	0,664311882	1,021132669
<i>Adam17</i>	0,152682266	0,595509089	0,727911929	0,622195636	1,001424139
<i>Tspyl2</i>	0,182651386	0,562661313	0,6346069	0,625743624	1,056045396
<i>Hspd1</i>	0,164402673	0,469522202	0,693064516	0,609394983	1,02381144
<i>Klre1</i>	-0,711871032	0,557508089	0,748402585	0,556259882	1,239449173
<i>Ly9</i>	0,12159946	0,451813129	0,595845785	0,762011442	1,024012928
<i>Cript</i>	-0,016001538	0,425484255	0,634052639	0,731532143	1,039914437
<i>3110001I22Rik</i>	-0,113322711	0,472463285	0,673654572	0,802084172	1,052106849
<i>Kdm6a</i>	-0,147664673	0,521986609	0,708289032	0,843210549	1,005659804
<i>AW549877</i>	0,034565733	0,511327131	0,604129345	0,857587421	1,004741968
<i>Cct7</i>	0,089173509	0,39559606	0,689257099	0,706583361	1,061744582
<i>Napg</i>	0,10600329	0,383165034	0,774306566	0,696242739	1,006550554
<i>Nutf2</i>	0,161552805	0,433191328	0,688711307	0,783240748	1,048925767
<i>Smu1</i>	0,182266776	0,470955059	0,681292898	0,782160832	1,054319202
<i>Nutf2-ps1</i>	0,153825933	0,414793623	0,738098788	0,831494064	1,073950538
<i>Fam48a</i>	0,041752465	0,556578779	0,839271085	0,717475426	1,047769473
<i>Herc4</i>	0,064483753	0,530728706	0,745623695	0,790199958	1,01097818
<i>Dse</i>	-0,1606038	0,542616575	0,789801814	0,810654337	1,177044515
<i>Fbxw2</i>	0,089728591	0,508302388	0,766163189	0,811053696	1,149558903
<i>2810403A07Rik</i>	0,178635903	0,556750572	0,846602324	0,879664183	1,172924843
<i>Alkbh5</i>	0,193702312	0,534586486	0,750628277	0,835798787	1,202267256
<i>Mak16</i>	0,111966243	0,390888061	0,818374052	0,843440941	1,205223964
<i>Mob1a</i>	0,119797887	0,488486891	0,734529052	0,93110478	1,190406888
<i>Itga4</i>	0,067151962	0,557976725	0,758713906	0,987263364	1,2790474
<i>Zkscan14</i>	0,145351392	0,591248997	0,663423076	0,915867993	1,346378605
<i>Dhx16</i>	0,22774379	0,581175878	0,674681295	0,926188069	1,293864068
<i>Eif1ad</i>	0,261874626	0,585603941	0,622166712	0,816691591	1,240291323
<i>D630032N06Rik</i>	0,537506758	0,383748197	0,626608714	0,645541168	1,435476482
<i>Aoc2</i>	0,551946419	0,450570158	0,605486183	0,658970183	1,282124694
<i>Acap3</i>	0,475941999	0,382802219	0,538910491	0,577454664	1,190617995
<i>Mlst8</i>	0,610258412	0,486026305	0,700990647	0,459904329	1,371289445
<i>1600002H07Rik</i>	0,715511411	0,527090488	0,714964941	0,511390425	1,301048762
<i>Mblac1</i>	0,680632686	0,494143761	0,685382169	0,628034099	1,442220545
<i>Epsti1</i>	0,663983323	0,589204931	0,783362152	0,557426565	1,395718712
<i>Aph1a</i>	0,676419855	0,606553592	0,738751059	0,472626002	1,349062861
<i>3200002M19Rik</i>	0,626457242	0,680311888	0,775061317	0,523177776	1,3138225
<i>lqcg</i>	0,497394819	0,593431799	0,721840913	0,659398691	1,002349029
<i>Lsm6</i>	0,465977915	0,674455544	0,777670306	0,650272338	1,000718228
<i>Tpm1</i>	0,394982938	0,598842171	0,773654031	0,765614897	1,048022469
<i>Prkrip1</i>	0,354694304	0,597302454	0,746296758	0,738624189	1,01255092
<i>Hrh2</i>	0,497408374	0,704733769	0,691815206	0,75139965	1,119056704
<i>Afg3l1</i>	0,430462993	0,675498794	0,763941357	0,740699119	1,089649704
<i>Maneal</i>	0,397473736	0,666015335	0,668303351	0,778179299	1,125323605
<i>Eif2b1</i>	0,418747571	0,609217912	0,693673089	0,697046157	1,136981675
<i>Plod3</i>	0,406906019	0,581684257	0,648099419	0,640776815	1,020913202

<i>Gart</i>	0,370451833	0,637846508	0,570810889	0,691991304	1,001444517
<i>Serhl</i>	0,333708666	0,698185193	0,685973757	0,50151108	1,197380547
<i>Nfe2</i>	0,253785792	0,613054246	0,668960699	0,589503198	1,223259094
<i>Syt11</i>	0,327930014	0,605246017	0,729478295	0,477466024	1,077126748
<i>Arrdc1</i>	0,46660941	0,256002652	0,870026421	0,668685316	1,034303422
<i>Snip1</i>	0,328776703	0,386030482	0,956161368	0,675305692	1,065858294
<i>Ppp1r8</i>	0,490299736	0,494160046	0,914717385	0,761811009	1,074581897
<i>Raver1</i>	0,480139923	0,492389963	0,946253049	0,685849518	1,078678832
<i>Trpm4</i>	0,504663225	0,487017472	0,853725727	0,713028516	1,109505885
<i>Wdr90</i>	0,503996407	0,504542431	0,839547718	0,71286446	1,13583802
<i>Rangap1</i>	0,462514201	0,498879881	0,818724056	0,624574362	1,046096415
<i>Stx5a</i>	0,325877791	0,460008444	0,661580036	0,661584085	1,021318602
<i>Itpa</i>	0,362716299	0,499033096	0,649670972	0,741722943	1,04311767
<i>Taf1d</i>	0,416901417	0,43304761	0,688094439	0,640873179	1,026203865
<i>Dync1h1</i>	0,433530512	0,493911199	0,6528118	0,710053791	1,129756172
<i>Dph2</i>	0,437405048	0,433409103	0,634100916	0,768843585	1,074334681
<i>Ppib</i>	0,275883923	0,362679212	0,676506966	0,67310908	1,053873319
<i>Gm4566</i>	0,336578712	0,368641634	0,690785334	0,732877442	1,096137271
<i>1810006J02Rik</i>	0,335515866	0,397823805	0,832783962	0,6471974	1,139802878
<i>E330016A19Rik</i>	0,409084232	0,345251998	0,810706834	0,708527254	1,171248318
<i>Cdc34</i>	0,444516532	0,388335024	0,789620388	0,589003133	1,138531336
<i>Tkt</i>	0,427925375	0,400786096	0,724874636	0,557373903	1,123736715
<i>Skiv2l</i>	0,489326709	0,412457242	0,737208568	0,751906287	1,073764029
<i>Cpsf4</i>	0,471700674	0,411768994	0,771803156	0,833276126	1,04560241
<i>E4f1</i>	0,562853767	0,31976444	0,684964733	0,797414599	1,042314082
<i>Cks2</i>	0,421409704	0,340038954	0,629354338	0,79580345	1,144798583
<i>Mtx1</i>	0,411829742	0,372604056	0,62673272	0,824646951	1,133324856
<i>Armc10</i>	0,526852764	0,481210056	0,777910806	0,80578818	1,086914639
<i>Golga7</i>	0,55813362	0,539985326	0,778947358	0,823999813	1,056590434
<i>Fam118a</i>	0,551263993	0,576501275	0,717374719	0,773149916	1,006472466
<i>4930471M23Rik</i>	0,48930824	0,468814345	0,641601977	0,895561679	1,03904067
<i>Mrpl24</i>	0,438616891	0,413501584	0,846442023	0,816508964	1,23056805
<i>Opa3</i>	0,382729136	0,390936257	0,77430625	0,847362461	1,177494471
<i>Mrpl30</i>	0,452534751	0,428141293	0,759519486	0,936699998	1,284192873
<i>Ubxn1</i>	0,406634349	0,359015656	0,899156199	0,921935923	1,24595749
<i>AI646023</i>	0,409136697	0,403628553	0,685622602	0,818483839	1,410742513
<i>Tmed9</i>	0,503485178	0,318926599	0,745227189	0,885752164	1,403197188
<i>Myod1</i>	0,286335928	0,240993087	1,368643573	0,413551682	1,605496492
<i>Upk2</i>	0,237444969	0,202799896	1,222011682	0,892165384	1,517297859
<i>Rassf1</i>	0,39018125	0,707653349	1,166872008	0,826034369	1,610744599
<i>4930469G21Rik</i>	0,438279689	0,643475434	1,184924248	0,762395227	1,672659859
<i>Pex16</i>	0,459648233	0,683204831	1,26946188	0,837863422	1,530987615
<i>Ggt1</i>	0,387856263	0,526423866	1,220038024	0,823158778	1,728532331
<i>Kcna2</i>	0,409119715	0,692268773	1,360275038	0,638864107	1,710994561
<i>Ak1</i>	0,45169413	0,568378539	1,154650402	0,548924916	1,494486502
<i>Stx2</i>	0,51502135	0,363740862	1,152652292	0,656944446	1,614637291
<i>Psemb6</i>	0,053492289	0,152275187	0,861350771	0,711494606	1,601356892
<i>B4galt7</i>	0,158793633	0,258205476	0,848932085	0,533877484	1,628231902
<i>Mrps16</i>	0,1379808	0,313262046	0,99218176	0,696945527	1,383987489
<i>Gzmb</i>	-0,515866788	0,547774912	0,90871392	0,6919493	1,517635533
<i>Eomes</i>	0,072618571	0,531909198	0,804264673	0,452730385	1,599949478

4833427F10Rik	0,012912444	0,612767802	0,959577589	0,98826582	1,801348029
<i>Cd48</i>	0,117428274	0,67421631	0,919699421	0,938287399	1,688648494
<i>Art2b</i>	-0,091010672	0,133885853	1,115706112	1,35554031	1,853264978
<i>Klrd1</i>	-0,726679427	0,053920134	0,825651436	0,87264697	2,121676503
<i>Fam46a</i>	-0,081455861	-0,251097248	0,220499743	1,146876824	2,205951623
<i>Olfr372</i>	-0,049259239	-0,133641355	-0,095977412	1,004056451	1,30791255
<i>Hist1h2br</i>	0	0	0	0	2,39966057
<i>Hist1h2bq</i>	0	0	0	0	2,39966057
<i>Gm3750</i>	0	-2,989382464	0	0	3,563402221
<i>Aldh2</i>	1,40906633	1,059518292	0,825436079	0,962196822	0,854320924
4933400C05Rik	1,378155619	0,933839078	0,801888021	1,001525732	0,865412185
<i>Efcab8</i>	1,465739839	0,982774527	0,965860867	0,957398507	0,756359932
<i>Fabp5</i>	1,399894158	0,952130456	0,734299944	0,960645738	0,66559005
<i>Tulp2</i>	1,195102578	0,870020472	0,862083447	1,065510215	0,803022225
C130050O18Rik	1,319350359	0,770524024	0,885427503	0,970950923	0,713632964
<i>Dhcr7</i>	1,241506743	1,046796227	0,943786326	0,993429773	0,818543032
<i>Slc38a6</i>	1,203309296	0,98271722	0,876719137	1,030514099	0,796736915
<i>Efhc1</i>	1,176582493	1,139589559	0,866871305	0,97346796	0,691580534
<i>Accn3</i>	1,294346325	0,926898467	0,601911406	0,975145448	0,946030309
<i>Nudt14</i>	1,362156272	0,965986382	0,615168776	0,885393736	0,996821022
<i>Rnpepl1</i>	1,213650527	0,781188309	0,66556601	0,864152517	0,913132775
2310014F07Rik	1,030133662	1,065051246	0,985559316	1,244024828	0,805461045
<i>Ch25h</i>	0,964126986	1,023745149	0,948731269	1,280115826	0,697838699
<i>Cks1b</i>	1,028254688	1,15386423	1,014057644	1,350266539	0,704165818
<i>Mrps17</i>	0,868592823	0,933591441	0,834308582	1,342579366	0,804641226
1700020N18Rik	1,158313288	0,713342124	0,9482466	1,40249284	0,665873662
4930562F07Rik	1,135459856	1,109645073	0,945310482	1,329378454	1,088303932
1700066B19Rik	1,084287846	1,081583161	0,866932433	1,314959682	0,996777129
<i>Pard6a</i>	1,150565181	1,084213458	0,880823901	1,460893379	1,169092706
3110070M22Rik	1,041930246	1,2693647	0,658358204	1,284870365	1,1899658
<i>Vmac</i>	1,270469244	1,165538028	0,698546264	1,205785501	0,948578192
<i>Mrps7</i>	1,233642399	1,188781792	0,784934243	1,185218618	1,140669671
<i>Gm17762</i>	0,969757913	0,968689853	0,642453828	1,41752182	1,070589407
<i>Rabac1</i>	1,024748977	1,027416835	0,608921915	1,568423831	0,981868014
<i>Dap3</i>	1,014242852	0,894907178	1,017760676	0,982705815	0,991050063
<i>Brpf3</i>	0,995429421	0,882714373	1,051629689	0,906897515	0,933849245
<i>Csrp2</i>	1,020518102	0,974494369	0,97731491	1,007609332	0,949671766
<i>Ltbr</i>	0,994227656	0,99080047	1,002976783	1,033770328	0,865891951
<i>Ston2</i>	0,900373821	1,074688147	1,043088805	0,867838275	0,881474905
<i>Snx15</i>	0,931242313	0,991726383	1,028480446	0,957618583	0,766845783
<i>Coro7</i>	1,007505344	0,996803512	0,977980138	0,904456739	1,054654603
<i>Qrich2</i>	0,948384077	1,059082871	0,932081451	0,903715675	1,053645615
<i>Vamp5</i>	0,92800602	1,013423256	0,882045018	0,836749757	1,029616384
<i>Hivep1</i>	0,940906527	1,018746666	0,866731808	0,856541402	0,964434867
<i>Gys1</i>	0,797013005	0,967866645	0,962700767	0,945498403	1,02961222
<i>Acrbp</i>	0,831204582	0,935781654	0,948536387	0,930859164	1,006274649
<i>Pigp</i>	0,819977868	0,989971087	0,997194484	0,910088101	1,039238154
<i>Ccdc137</i>	0,878721487	1,022348768	0,940362379	0,913126863	0,994486837
<i>Cenpn</i>	0,781938372	0,943437015	1,151597148	0,910043205	1,022278419
<i>Alpk3</i>	0,84283351	0,969253868	1,061084346	1,023916596	1,037202315
<i>Pcdhgc5</i>	0,841049355	0,855796129	1,086880686	0,945206542	0,942301136

<i>Pcdhgc3</i>	0,876939558	0,868441057	1,023006713	0,936951929	0,920496078
<i>Myl2</i>	0,818719875	0,953231129	1,069345718	0,980101058	0,892707129
<i>Rexo4</i>	0,863667526	1,041443023	1,135435456	0,957140212	0,910177165
<i>Pcdhgc4</i>	0,94368275	0,947372428	1,15262551	1,009638788	0,925511729
<i>Dusp22</i>	0,946899605	0,942625538	1,109036898	0,918792835	1,073485522
<i>Dph1</i>	0,968043287	0,913171046	1,043941075	0,865356582	1,049793931
<i>Gpsm1</i>	0,933684932	1,03319359	1,113113549	0,903049273	1,024383311
<i>Akr7a5</i>	1,078120366	0,855949277	0,781960694	1,003627706	1,154662492
<i>Abhd11</i>	1,058237833	0,966348752	0,758117354	0,981305526	1,132659277
<i>Myh7b</i>	1,022310509	0,837400142	0,731438118	1,016235875	1,01546978
<i>BC017643</i>	1,064789219	0,87632856	0,897565313	0,860075477	1,030332688
<i>Aacs</i>	1,118204124	0,860802399	0,959893455	0,851947489	1,000350577
<i>March9</i>	1,142191574	0,8345699	0,989142028	0,969499354	1,026246835
<i>Sgta</i>	1,092058265	0,942735746	0,932034974	1,011949265	1,031478013
<i>Jrk</i>	1,097343636	0,937938972	0,828759777	1,064086081	0,981363181
<i>Gstk1</i>	1,11149188	0,953291082	0,934097508	1,048665551	0,907971773
<i>Clec3b</i>	1,104585046	1,061492362	0,896463642	0,975625978	0,998504924
<i>Gm166</i>	1,03478181	1,045728358	0,843618284	0,952784636	0,928906908
<i>Ethe1</i>	0,955318004	0,960158894	0,88412782	1,108498339	0,977246247
<i>Bsn</i>	1,022333494	0,96234632	0,878826795	1,089911787	1,066847886
<i>Inpp5d</i>	0,747873021	1,006538066	0,891463886	0,905095885	1,047752705
<i>Amigo1</i>	0,721657342	1,006146551	0,934019802	0,920273929	1,07840514
<i>Snx9</i>	0,80888487	1,139734559	0,899464767	0,891414315	1,10932875
<i>Slc25a35</i>	0,703060638	1,017624895	0,873856434	0,945934721	1,159181092
<i>Tada1</i>	0,685242654	1,038983099	0,932204724	1,008466477	1,130109324
<i>Erp27</i>	0,739207815	1,014503824	0,948807349	1,017316532	1,219582759
<i>Apc2</i>	0,785469829	0,97907998	0,804039057	1,067573192	1,197595115
<i>Cln3</i>	0,838736383	0,938839237	0,831612532	0,999797641	1,160025814
<i>H2-Eb1</i>	0,845398626	0,957739875	0,795119517	1,021283693	1,035765253
<i>Zc3h4</i>	0,857416132	0,927462277	1,053031782	1,030623785	1,253778716
<i>Gm1604b</i>	0,846652459	0,988909775	1,078181265	1,050811775	1,257436464
<i>Rpusd3</i>	0,805595241	0,972786769	0,968737608	1,133895635	1,192975839
<i>Mettl21a</i>	0,828690807	1,111115816	1,031409989	1,105674045	1,30342668
<i>Nr4a3</i>	0,826355	1,040348796	0,982231192	1,045534481	1,313129472
<i>Acyp1</i>	0,889839458	1,074756256	0,958561412	0,968849155	1,208432121
<i>Atg16l2</i>	0,873210233	1,061820917	0,988077222	0,931804516	1,18168516
<i>Gdgd3</i>	0,826339131	1,00202103	0,945881471	0,947019218	1,205277325
<i>Mob3c</i>	0,786739627	1,113447896	0,90795805	0,966069018	1,2771844
<i>Casc1</i>	0,997827841	1,144424879	1,042208677	1,047810332	0,999316081
<i>Mfsd7b</i>	0,918521183	1,111921043	1,075532921	1,073979139	1,00848941
<i>Slc25a19</i>	0,88717372	1,114503236	1,043282735	0,959979644	1,000727251
<i>Tmem217</i>	0,921665855	1,189156107	1,075572041	0,961208777	1,005491431
<i>Msrb2</i>	0,892095177	1,202643316	1,07110612	1,044658952	1,009977488
<i>Taf3</i>	0,887804955	1,203024889	1,062141043	1,130824165	1,057768949
<i>Cmtm3</i>	0,853788701	1,283684641	1,028102056	1,033080487	1,024329764
<i>Lmln</i>	0,863491463	1,084373328	0,894957353	0,998238378	0,995708165
<i>Eid1</i>	0,81059427	1,094385984	0,971809912	1,025289399	0,987021786
<i>Map3k5</i>	0,899031375	1,166822917	0,935482892	1,101554825	1,030943544
<i>Abhd16a</i>	0,85708442	1,12561509	0,912990298	1,117775777	1,004343814
<i>Selp</i>	0,689467298	1,195273749	1,029340513	1,096087971	1,12472768
<i>Tnnc1</i>	0,691199381	1,18374408	1,073929886	1,106978039	1,105603184

<i>Rnf103</i>	0,727474077	1,224175321	1,086182449	1,179638195	1,087018961
<i>Mgrn1</i>	0,729369344	1,214507727	1,09721765	1,079205407	1,153980531
<i>Rb1</i>	0,767359751	1,175091702	1,142621333	1,063617075	1,132578077
<i>Fndc7</i>	0,75933677	1,146346997	1,068648468	1,056947739	1,135367348
<i>Cap2</i>	0,7840132	1,106495287	1,071096091	1,011430589	1,084414948
<i>lpmk</i>	0,716668736	1,173664788	1,005705986	1,023946967	1,022014431
<i>Lass5</i>	0,898496658	1,055276679	0,956242376	1,077327738	1,161796231
<i>Xpot</i>	0,973276365	1,062378768	0,87598859	1,064829124	1,091822003
<i>Oit3</i>	0,971746353	1,054280645	0,927801571	1,196848007	1,08658448
<i>Caskin2</i>	1,006280914	1,007581402	0,956645883	1,03244447	1,171810266
<i>Gnmt</i>	1,108209352	1,001621245	0,987602133	1,072769914	1,120513667
<i>Tmem245</i>	1,054566152	1,030458948	0,987951627	0,952831443	1,127091415
<i>Tmco6</i>	1,066332107	1,091752028	0,967888461	0,975031894	1,094524494
<i>4933407K13Rik</i>	1,156195103	1,124338405	0,99052779	1,039164794	1,368255131
<i>Chmp6</i>	1,044621926	1,077768793	0,997855805	0,955643786	1,305365193
<i>Cdc25b</i>	1,228149962	1,126854844	0,914437259	0,94998541	1,215958745
<i>Rptor</i>	1,229854147	1,024440259	1,042577264	0,954787461	1,078228634
<i>Ndst1</i>	1,172006869	1,090763679	0,97828292	0,878746435	1,007972219
<i>Epas1</i>	1,229748055	1,014644352	1,027667879	1,058976256	1,038405307
<i>2900041M22Rik</i>	1,261915348	1,060890131	1,090260515	1,051999729	0,973713475
<i>Nt5c2</i>	1,218357483	1,153131521	1,110728858	0,984487981	0,95042476
<i>Pcnx</i>	1,16793225	1,135468638	1,154378437	0,97668691	0,989396378
<i>Smyd2</i>	1,205787896	1,163383709	1,176231841	0,990183188	1,095421115
<i>Senp1</i>	1,042047069	1,151994609	1,003915168	0,859239902	1,054003852
<i>Ddx28</i>	1,025859488	1,112654226	1,061207367	0,940615265	0,94120411
<i>Rabgga</i>	1,055785621	1,082148248	1,051339407	0,923247425	1,076321574
<i>Dcakd</i>	1,061738365	1,044044235	1,0929979	0,954795756	1,126825803
<i>Ucp3</i>	1,063772987	1,070109323	1,159885449	0,918339403	1,105557982
<i>Fam98c</i>	1,079984044	0,782285928	1,205682768	0,877984292	1,042238547
<i>Cdc42ep1</i>	1,128133582	0,844775465	1,295539558	0,917255994	1,145402763
<i>Pip5k1l</i>	1,134444064	0,940429422	1,159470413	0,850824779	1,192233461
<i>4833419F23Rik</i>	1,130982123	0,840699667	1,199398242	0,884064181	1,295325745
<i>Tmem229b</i>	0,997055816	0,806658679	1,103159659	1,017166584	1,294650061
<i>Fgfr1op2</i>	0,969235713	0,804337971	1,171104795	0,980135651	1,255356144
<i>Dot1l</i>	0,998838144	0,851985323	1,179170447	1,081324979	1,247875411
<i>Gna12</i>	0,918341495	0,833716358	1,186859814	0,96264905	1,16371963
<i>Agpat5</i>	1,003055985	0,936307491	1,044794418	1,029511619	1,123088836
<i>Mmp14</i>	0,955146644	0,892227425	1,02278122	1,079602025	1,165913359
<i>Rilpl1</i>	1,093688673	0,882566433	1,032193487	1,096111718	1,147834683
<i>Car9</i>	1,111287282	0,869459756	1,005087284	1,081578475	1,112068409
<i>Ddost</i>	1,099992237	0,867990242	0,912011706	1,052396295	1,263008934
<i>4833417C18Rik</i>	1,065909503	0,734487056	1,045665809	1,048390575	1,210420087
<i>Kank3</i>	1,094667904	0,796654153	1,004845498	1,032049043	1,183194858
<i>Dusp23</i>	1,025492854	0,739598783	1,020367739	1,033796428	1,112542501
<i>Arrdc2</i>	1,072401323	0,680184451	1,003448396	1,050782567	1,102153518
<i>Ndufs5</i>	1,169066235	0,730924719	1,06845965	1,119442677	1,094383172
<i>Usp21</i>	1,291071853	0,828828667	0,861668452	0,98842078	1,019765204
<i>2010011I20Rik</i>	1,253031485	0,964863606	0,801216702	0,941702066	1,066107443
<i>Rad9b</i>	1,172186174	0,943451688	0,898080825	0,974345448	1,120577765
<i>1700001O22Rik</i>	1,203795597	0,921188848	0,955415824	1,016683873	1,073427342
<i>Ntn3</i>	1,37617929	0,944608803	0,855129581	1,026844383	1,221155643

<i>BC022687</i>	1,299397715	0,924554629	0,895099653	1,076710732	1,242470133
<i>A430105I19Rik</i>	1,260016503	0,915734475	0,881845291	1,199796019	1,178541587
<i>2310061I04Rik</i>	1,208244738	0,829022591	0,895535066	1,198474605	1,232900903
<i>Aldh3b1</i>	1,228950083	0,828142674	1,127368444	0,854686189	1,121304505
<i>Tulp1</i>	1,174194857	0,897453178	1,046653543	0,846770635	1,080293168
<i>Phf19</i>	1,274393572	0,904340056	1,049271735	0,863762319	1,137405541
<i>Nrtn</i>	1,350047103	0,852880414	1,074864579	0,848252949	1,114594237
<i>Scn4a</i>	1,189636445	0,929365529	0,921774939	0,864069091	1,058979385
<i>Gsr</i>	1,258890484	0,919756935	0,970502509	0,773931936	1,114161429
<i>Ttll12</i>	1,440340832	0,961493673	1,084618228	1,142661197	1,197607508
<i>Tmem143</i>	1,407321013	1,015737989	1,115416431	1,055033292	1,218350809
<i>Aurkb</i>	1,384302955	0,850327157	1,054389017	1,172300453	1,292664297
<i>Acadm</i>	1,457807963	0,923510113	1,013047495	0,924365889	1,138990659
<i>Mixl1</i>	1,4902749	0,90434846	1,017815416	1,06397017	1,102210543
<i>Ccdc117</i>	1,53644581	0,855893052	1,12501202	0,972630778	1,188557732
<i>Metrn</i>	1,471314242	1,085345958	1,041798194	0,899959967	1,283153774
<i>2410001C21Rik</i>	1,429845377	1,018942313	1,169655732	0,834198688	1,28433308
<i>Tbc1d22a</i>	1,450318835	1,072025546	1,187826577	0,914426053	1,105204433
<i>Palm</i>	1,441053921	1,02178474	1,121886568	0,936072057	1,092657866
<i>Ccdc164</i>	1,487569445	0,934945949	1,224967659	0,9268632	1,272352622
<i>Plin3</i>	1,491696176	0,974702594	1,246734209	1,050049411	1,29294017
<i>Fes</i>	1,290107081	0,831775168	1,136337258	1,046351641	1,310758624
<i>BC051628</i>	1,198855731	0,821957577	1,180209141	1,084659348	1,2489544
<i>Ssrp1</i>	1,178466933	0,922669849	1,225511101	1,194182609	1,304734123
<i>Mki67</i>	1,261955095	0,901842791	1,064321135	1,014136675	1,164180197
<i>Adamts14</i>	1,248808415	0,840023131	1,143250191	1,129761607	1,129967319
<i>C2</i>	1,186486384	0,97732662	1,182487905	1,037927309	1,098401843
<i>Gm5148</i>	1,27205245	0,950470058	1,191418427	1,100150848	1,13839436
<i>Map1lc3b</i>	1,254278858	1,081245125	1,164771401	1,094690066	1,33692034
<i>D030056L22Rik</i>	1,29782047	1,039463157	1,13756103	1,023708542	1,248065855
<i>Cnga1</i>	1,127986037	1,100559516	1,154093751	1,050262878	1,216989503
<i>Phf20</i>	1,096218662	1,059722958	1,22771249	1,030139281	1,192164357
<i>Phc2</i>	1,171619968	1,086150836	1,245716919	1,04734826	1,260852006
<i>P2ry12</i>	1,338803834	1,176796098	1,227144586	1,15410987	1,053954994
<i>Tor3a</i>	1,297791446	1,132031439	1,164518929	1,091383211	1,148015868
<i>Ptpra</i>	1,387043521	1,216078729	1,15232149	1,257721939	1,1063092
<i>Taf1c</i>	1,452544791	1,132104674	1,145526835	1,258289857	1,282848537
<i>E130306D19Rik</i>	1,414780508	1,175353014	1,104759769	1,348379964	1,285397882
<i>Mfrp</i>	1,145844337	0,883665726	1,099826115	1,470840272	1,218043358
<i>C1qtnf5</i>	1,145844337	0,883665726	1,099826115	1,470840272	1,218043358
<i>Hmgb2</i>	1,100003357	0,840003661	1,143984366	1,387818329	1,134318992
<i>Scgb3a1</i>	1,340589129	0,958125605	1,115810437	1,420146767	0,98603589
<i>Bambi-ps1</i>	1,65318688	0,910131249	0,884710415	1,418144212	1,116507432
<i>Nudt8</i>	1,508826195	0,617355775	0,795257877	1,221997515	1,286786329
<i>Ascl4</i>	1,473551838	0,794195062	0,664753082	1,11424498	0,908276978
<i>Gstp2</i>	1,540868851	0,935153036	0,762363867	1,219383566	0,876052271
<i>Ctsl</i>	1,020810431	0,853598312	0,87180217	0,826232804	0,837240583
<i>Pif1</i>	1,04415434	0,935384582	0,897900579	0,850318841	0,919261055
<i>Zfp280d</i>	1,077106527	0,903519284	0,811469899	0,737461483	0,834597189
<i>Gm16515</i>	1,068351748	0,858440668	0,853409937	0,642783354	0,836925753
<i>Arrb1</i>	1,058588502	0,679439225	0,902874996	0,722838689	1,038462257

<i>Armcx3</i>	0,990205084	0,758330806	0,901639288	0,707380416	1,103412993
<i>Rad23a</i>	0,969165037	0,716001368	0,918507482	0,80424933	1,020321989
<i>Slc29a3</i>	0,983836978	0,850487181	0,962204349	0,780268886	1,026808135
<i>Ubxn8</i>	0,969331761	0,793868014	0,9384575	0,793631352	1,055196972
<i>Ccdc40</i>	1,030901501	0,803257083	0,911240778	0,839495624	0,969765307
<i>Smarca4</i>	1,041013437	0,778963976	1,021938869	0,782132074	1,010418058
<i>Ybx2</i>	0,848971629	0,833685802	1,024327518	0,745159086	0,78243207
<i>Lrrc43</i>	0,827879072	0,827871204	1,019347491	0,650811897	0,821685112
<i>Aldh4a1</i>	0,854153577	0,818741181	1,011126726	0,813727657	0,866068534
<i>Best2</i>	1,019842069	0,812042379	1,031140356	0,669513889	0,82470136
<i>Slc25a27</i>	1,012648707	0,801447588	0,929242822	0,692791706	0,737143043
<i>Slc7a5</i>	1,003929484	0,748578581	0,924503991	0,768757994	0,856839717
<i>Ubl5</i>	0,965547546	0,68588945	1,115448588	0,814814167	0,73984308
<i>Gcnt3</i>	0,825638935	0,642819788	1,11332326	0,787949339	0,816275193
<i>Ms4a4d</i>	1,007280164	0,80339442	1,113378586	0,885571274	0,830334264
<i>1700008J07Rik</i>	1,115441856	0,766776789	1,095547384	1,053875078	0,720348813
<i>Neil1</i>	1,209729281	0,643841664	0,898567325	1,012117988	0,796512831
<i>Sertad3</i>	1,104684582	0,551354675	0,898992438	0,937959207	0,890186162
<i>Dtl</i>	1,282851057	0,985590669	0,888003891	0,762831597	0,751591905
<i>Sdccag8</i>	1,266236528	0,956679692	0,827194623	0,772242642	0,764949511
<i>Eef2k</i>	1,185524026	0,951421114	0,826408313	0,783332095	0,704671007
<i>Ccdc63</i>	1,250977585	0,947304928	0,923676981	0,725809568	0,677185663
<i>Rtn3</i>	1,26275833	0,915386179	0,884803684	0,788854464	0,877413994
<i>Ptch2</i>	1,268013497	0,880490973	0,830876425	0,801978587	0,837322686
<i>Necab3</i>	1,202851113	0,924658883	0,835121579	0,742170735	0,87283893
<i>Macrod1</i>	1,265925188	0,792533003	0,974131679	0,718364187	0,814319945
<i>Prps2</i>	1,262681037	0,766851104	0,987867833	0,792119325	0,749942443
<i>Vps33b</i>	1,240500182	1,065396014	0,869273914	0,718193616	0,705828951
<i>3830408C21Rik</i>	1,240821633	1,05262708	0,907749231	0,653117477	0,801860597
<i>Prkar2b</i>	1,144497079	0,952050451	0,852747147	0,65397373	0,761071866
<i>1700027J07Rik</i>	1,139859075	0,98520877	0,877218468	0,641646346	0,694903943
<i>Cdan1</i>	1,276365854	0,917306826	0,929141744	0,620690431	0,761561334
<i>Dhrs3</i>	1,29333173	0,977059543	0,921531735	0,633092575	0,70083759
<i>Tmem235</i>	1,27417179	0,907845914	0,849348165	0,603433856	0,682587916
<i>Zdhhc23</i>	1,144555762	0,877887306	0,884564391	0,844837439	0,639400829
<i>Gm10653</i>	1,120867506	0,843501681	0,956916508	0,764521019	0,595935514
<i>Ctdspl</i>	1,034378505	0,933920812	0,841428444	0,738164581	0,643725401
<i>Ppp1r14a</i>	1,011951183	0,856979779	1,008406536	0,790084183	0,648465745
<i>4933433C11Rik</i>	1,189853132	0,708524594	0,832350638	0,493807961	0,761408148
<i>Antxr1</i>	1,160917258	0,736665326	0,8395941	0,502044973	0,684882168
<i>Lamc1</i>	1,234376324	0,856655713	0,859044125	0,463396762	0,664920127
<i>Gm6498</i>	1,25710632	0,795683857	0,888612439	0,557428867	0,749799786
<i>Sdc1</i>	1,277572655	0,765288703	1,002900651	0,513949405	0,746898446
<i>Bahcc1</i>	1,261585189	0,636754453	0,773663664	0,606035437	0,73599214
<i>Rhbdd3</i>	1,236069102	0,7185571	0,79566771	0,570093491	0,681294102
<i>Pddc1</i>	1,174226393	0,665476994	0,820698233	0,577654752	0,789308805
<i>1700027F09Rik</i>	1,210969578	0,879951871	0,917497108	0,528727472	0,830515513
<i>Ccdc85c</i>	1,239019891	0,821307679	0,93736011	0,599809092	0,941351321
<i>Serf2</i>	0,734889277	0,717120833	1,000701221	0,708504333	0,590856445
<i>Sgcb</i>	0,896509727	0,680395813	1,003782897	0,894724804	0,617406658
<i>Repin1</i>	0,691683883	0,521364838	1,029803644	0,853203329	0,709903148

<i>A230020J21Rik</i>	1,042553599	0,631853131	1,056523328	0,874900485	0,398259761
<i>1190007F08Rik</i>	1,041882535	0,424843381	0,862003443	0,765744137	0,890070623
<i>Fadd</i>	1,038618376	0,524421726	0,911684917	0,622426204	0,913986433
<i>Cdk1</i>	1,035513827	0,435459092	0,85722005	0,482949678	0,745035981
<i>Pnpla1</i>	1,041686879	0,693067235	0,827329295	0,681790131	0,669458201
<i>4933407L21Rik</i>	1,000066405	0,650400697	0,926028645	0,534417653	0,68263758
<i>Asphd2</i>	1,131804379	0,559249854	0,998415872	0,714873449	0,638601987
<i>Art5</i>	1,351661932	0,911401399	0,596319911	0,994013942	0,418534051
<i>Mrps34</i>	1,294668939	0,978757602	0,540035904	1,061912952	0,555384717
<i>Rhov</i>	1,210871274	0,477251128	0,626445865	1,020179621	0,376732963
<i>Papss2</i>	1,327693691	0,970025978	0,80461957	0,492046375	0,669339727
<i>Ppm1e</i>	1,338941642	1,062762933	0,769661918	0,558457905	0,680909105
<i>Kmo</i>	1,371176074	0,932576865	0,810807469	0,522392069	0,519871834
<i>Dpep2</i>	1,455657717	0,911475265	0,76152226	0,560344649	0,558987458
<i>Tox2</i>	1,259945019	0,964323222	0,626223939	0,590862273	0,47442959
<i>Pla2g12a</i>	1,117415375	0,861019933	0,744184131	0,689479097	0,694545002
<i>Aldh16a1</i>	1,124956869	0,851407569	0,744143943	0,801978712	0,677118993
<i>Glt8d2</i>	1,211535806	0,810375083	0,83082981	0,704766163	0,664485211
<i>Erbp3</i>	1,087626487	0,789579789	0,647135196	0,743161594	0,727312803
<i>Al661453</i>	1,127949763	0,779492741	0,647445206	0,628553932	0,683253399
<i>Tle2</i>	1,260771314	0,917844115	0,743039528	0,643515782	0,812211352
<i>E2f8</i>	1,211802418	0,836205514	0,789298901	0,669195154	0,816697242
<i>Vars2</i>	1,317811112	0,928777142	0,663860064	0,681381403	0,77861486
<i>Bambi</i>	1,176673619	0,77748566	0,678737555	0,773262494	0,391262124
<i>Poll</i>	1,176055487	0,707231279	0,589249755	0,806703512	0,509438381
<i>Wdr12</i>	1,316074118	0,691219149	0,699248977	0,749371883	0,580745361
<i>Lonrf1</i>	1,259041329	0,776814369	0,73913316	0,711915305	0,580738361
<i>Psap1</i>	1,234229997	0,671848134	0,753013111	0,659009007	0,597017092
<i>Lrguk</i>	1,41163594	1,011010997	0,756063966	0,720818614	0,36604911
<i>Gm4371</i>	1,308233699	0,878771855	0,849893285	0,737682434	0,293332949
<i>Btrc</i>	1,010377339	0,857191017	0,731418059	0,664839856	0,530779613
<i>Mpp4</i>	1,014154357	0,992860291	0,753313731	0,545912258	0,487683948
<i>Slc38a11</i>	1,09886618	0,840463764	0,781479101	0,555347321	0,705438733
<i>Vps13d</i>	1,137386648	0,848162851	0,738092818	0,589470824	0,641216451
<i>Nhsl1</i>	1,137878634	0,844255043	0,84974727	0,588897853	0,675549596
<i>Rpap2</i>	1,095968569	0,897601479	0,84878717	0,60009116	0,648445319
<i>Tshb</i>	0,893186714	1,105347759	0,71857495	0,479088942	0,803481259
<i>Dll4</i>	0,96566304	1,229370798	0,777530195	0,789591574	0,543561376
<i>Scg3</i>	0,961908007	1,15971076	0,871513738	0,64675158	0,486074774
<i>Dapk1</i>	1,191958825	1,076396202	0,818123314	0,79969295	0,608732472
<i>5830403M04Rik</i>	1,106381005	1,034786736	0,791420443	0,7532886	0,53542225
<i>Sestd1</i>	1,233597262	1,036353753	0,760387511	0,724642428	0,509902736
<i>1700040I03Rik</i>	0,372443448	0,601346402	1,149869859	0,905191232	0,676303626
<i>Prdx2</i>	0,500050107	0,774497856	1,010718589	0,935788183	0,660290916
<i>H2-DMb2</i>	0,7747158	0,760117445	1,02408975	1,131594393	0,70078181
<i>Asgr1</i>	0,56000478	0,673979689	1,02964979	1,192315599	0,716583064
<i>Apof</i>	0,626166278	0,284277134	1,356140986	1,377509	0,727084051
<i>G6b</i>	0,208389647	0,394846397	1,292511607	1,455733339	0,79255141
<i>1700013G23Rik</i>	0,88178809	0,539495816	1,307718474	1,334119282	0,438048617
<i>Ctxn1</i>	0,908520533	0,65020164	1,223727559	1,203505596	-0,198648369
<i>Duoxa1</i>	0,293623868	1,281555827	1,231771205	0,725042432	0,94768904

<i>1700063O14Rik</i>	0,514118393	1,355557474	1,084751517	0,723225401	0,944365381
<i>1700058G18Rik</i>	0,625845982	1,148274043	1,22410655	0,583700678	0,941909872
<i>Cd84</i>	0,458881586	1,135727301	0,953674221	0,942628087	1,067134824
<i>0610037P05Rik</i>	0,448151049	1,119170684	0,964785441	0,987585266	0,999769922
<i>Crot</i>	0,487651406	1,178112994	1,051905804	0,974291113	1,045127741
<i>Senp3</i>	0,524486629	1,143906676	1,072223992	1,018660131	1,080806921
<i>Tpp1</i>	0,399504399	1,297441941	1,102087253	0,951270599	1,080403332
<i>AI450353</i>	0,734528569	1,322877704	1,033498506	0,933625894	0,962838233
<i>Calr4</i>	0,609093432	1,448349048	0,930555794	1,021801881	0,946538392
<i>Cd83</i>	0,699173246	1,207173935	1,098046217	0,852157496	1,055021753
<i>Rfxap</i>	0,584093121	1,199406387	1,16017592	0,837865948	1,000186536
<i>Hnrnpa0</i>	0,650503488	1,081390319	1,196590009	0,955558703	1,062482195
<i>Dynlrb1</i>	0,594275845	1,057160587	1,144252758	0,859369544	1,113655119
<i>Rpl37a</i>	0,614513276	1,165898274	1,172302937	0,992955713	0,926010599
<i>Chrna9</i>	0,660205086	1,25727126	1,317620286	0,953125381	0,985163836
<i>Rsph3a</i>	0,646429328	1,063315492	1,123746863	0,715654017	1,074918948
<i>Psmg4</i>	0,653013131	1,034444563	1,218846181	0,717765346	1,075756625
<i>Syde2</i>	0,655588311	0,964265142	1,140934001	0,667519559	0,990479502
<i>Eaf1</i>	0,700999765	1,008417998	1,304221833	0,771811849	1,047167412
<i>Prss32</i>	0,758651946	1,084430933	1,15448106	0,843684667	0,892390787
<i>Runx2</i>	0,723311061	1,02594789	1,013182847	0,790140122	1,041152422
<i>Bzrap1</i>	0,697114336	0,960384692	1,009811393	0,832452927	1,070817916
<i>Epb4.1l2</i>	0,771737909	0,972131274	1,038884956	0,821514776	0,942786995
<i>2310044G17Rik</i>	0,762670723	0,911163424	1,094103505	0,775218562	1,064081095
<i>Trim47</i>	0,792900321	0,981248812	1,121577615	0,78174431	1,063891633
<i>Rsph3b</i>	0,778217657	0,966993217	1,085927056	0,719463431	1,009872399
<i>Itпка</i>	0,633593415	1,060215831	0,985842688	0,746220683	0,815621757
<i>Gprc5b</i>	0,502448911	0,934701671	1,046446373	0,820733261	0,814541983
<i>Lad1</i>	0,603917743	0,981975089	1,226247114	0,731105023	0,760119697
<i>Lztf1l</i>	0,612126269	1,205097684	1,002910205	0,751776299	0,616802404
<i>2010310C07Rik</i>	0,573745832	1,017544284	0,91564082	0,66817338	0,604549024
<i>Hap1</i>	0,759192162	1,022615755	0,829302004	0,696141439	0,848087793
<i>Astl</i>	0,602235458	1,015533741	0,798331629	0,76350709	0,896362502
<i>BB283400</i>	0,673730901	1,131039042	0,807774225	0,78386402	0,759817591
<i>Cmya5</i>	0,785149394	1,07364249	0,865585782	0,808193013	0,734673156
<i>Ptpn18</i>	0,585321762	1,049439947	0,928278009	0,988129742	0,879066131
<i>Baz2b</i>	0,663521046	1,011246226	0,904236548	0,954693359	0,874939835
<i>Prkca</i>	0,668132513	1,057657944	0,996750067	0,965016941	0,964868459
<i>Camk1d</i>	0,713999551	1,082400607	0,956538773	0,94055052	0,912811611
<i>Mfsd4</i>	0,377941381	1,153266946	0,894406664	0,996105138	0,828097184
<i>Tacc2</i>	0,367417062	1,189036008	0,878516074	0,921464387	0,761348037
<i>Rbm45</i>	0,353941508	1,115102452	0,7813285	0,921051433	0,807250838
<i>Pex7</i>	0,527410334	1,086954906	0,841264836	0,925461803	0,689530739
<i>1700063D05Rik</i>	0,558872138	1,010090145	0,890479493	0,915375784	0,708966986
<i>Mdfic</i>	0,437351672	1,039812108	0,894665818	0,739234012	0,740294232
<i>Armxc2</i>	0,307250729	1,089915852	0,970664987	0,71102719	0,84505521
<i>Secisbp2l</i>	0,812265134	1,032027893	0,875746672	0,984920701	0,854912966
<i>Dtnbp1</i>	0,825562068	1,006701139	0,927671068	0,947512269	0,888999121
<i>Micu1</i>	0,77405559	1,011309533	0,90016702	0,919949821	0,81888167
<i>Ubr7</i>	0,840466471	1,077843717	0,94354248	0,939752459	0,857730787
<i>Cyp2d22</i>	0,783755507	0,984530189	0,96692824	1,053669829	0,904756967

<i>Vegfb</i>	0,929396222	0,988551363	0,859740337	1,090539669	0,803712457
<i>Foxh1</i>	0,938303206	1,050435221	0,925784566	1,01873825	0,773109593
<i>Kcnj9</i>	0,707177032	1,188067098	0,751333986	1,083354053	0,78005054
<i>Sys1</i>	0,762570788	1,058669461	0,778757536	1,147474794	0,752937082
<i>Lysmd2</i>	0,847431879	1,182335858	1,071065747	0,944848647	0,816987489
<i>Tm2d3</i>	0,779784883	1,145637242	1,095149106	0,982097668	0,864192106
<i>Neu4</i>	0,714518991	1,243907239	1,112626987	1,041585049	0,732761563
<i>Ier5</i>	0,776937509	1,031918567	1,064750363	1,049007124	0,636377189
<i>Pik3c2b</i>	0,70005279	1,049257202	1,021864066	0,980215624	0,773557746
<i>Bod1</i>	0,506228784	1,007007673	0,965202549	1,182243818	0,670942814
<i>Dclre1a</i>	0,372478456	0,906609586	0,923565097	1,20909826	0,81960081
<i>Arhgap31</i>	0,548552244	0,97752516	0,892771714	1,089717783	0,770666929
<i>2610021K21Rik</i>	0,454505469	0,950516906	0,866305231	1,016831472	0,773784417
<i>Gng12</i>	0,465235973	1,079300363	0,868956866	1,017759685	0,803956596
<i>2400001E08Rik</i>	0,429336486	1,117501943	0,852339109	1,120127824	0,841217183
<i>Gm7616</i>	0,518827716	1,026669204	1,198712328	1,143166752	0,677840206
<i>Prnd</i>	0,449089476	1,105873563	1,160890545	1,242653998	0,654035251
<i>Cd40lg</i>	0,463756439	1,762833762	1,234602713	0,65748781	0,904301757
<i>A630066F11Rik</i>	0,44033473	1,434578985	1,062027684	0,553062676	0,670760592
<i>Shc1</i>	0,666947827	1,133582967	0,645300463	0,956168261	1,110594626
<i>Tmod4</i>	0,756016506	1,132765091	0,560530688	0,902544724	0,999655508
<i>Ly6a</i>	0,773542702	1,328927338	0,616632625	1,029966548	0,964814685
<i>Tmem95</i>	0,887998346	1,022335857	0,479449915	0,755266378	1,076578012
<i>Hspa1a</i>	0,923726743	1,075112011	0,4319303	0,709118419	0,960029839
<i>Gm17769</i>	1,047267079	1,141773589	0,60390635	0,669392723	1,059336545
<i>Lass1</i>	0,855201167	1,010323562	0,855614589	0,835473771	1,241356543
<i>Gdf1</i>	0,855197015	1,010324215	0,856434441	0,835471939	1,241354882
<i>Tmem91</i>	0,822312657	1,015604446	0,858870498	0,841716832	1,229150408
<i>Tst</i>	0,884618171	1,0110439	0,929452669	0,779199544	1,206696777
<i>Gm9776</i>	0,851725718	1,105363068	0,910786636	0,667145821	1,211490884
<i>Snhg7</i>	0,876956661	1,131287857	0,702203715	0,829912125	1,288330187
<i>Lxn</i>	0,940524161	1,236020934	0,815546566	0,837837695	1,243301618
<i>4933439C10Rik</i>	1,145206701	1,29923678	0,905530608	0,760180172	1,052832781
<i>Msl3l2</i>	1,141958066	1,244760663	0,801504222	0,810617322	1,196160532
<i>Abtb1</i>	1,0876957	1,097118327	0,873413023	0,77045793	1,141152479
<i>Ccdc142</i>	0,968679129	1,152970613	0,78148259	0,819888035	1,071126994
<i>Smo</i>	0,789651555	1,067305801	0,79280556	0,889831657	0,547767274
<i>Slc22a17</i>	0,735631546	1,046113644	0,837156277	0,916657897	0,588882415
<i>Swap70</i>	0,677493914	1,151528768	0,779959516	0,941367036	0,620559184
<i>Hbegf</i>	0,681076974	1,214840716	0,613330644	0,981283967	0,495179918
<i>Cxcr1</i>	0,776412483	1,107774621	0,677247701	0,996358787	0,462996607
<i>Vgf</i>	0,754642694	1,365301803	0,660964648	0,679852516	0,499055818
<i>Etv5</i>	0,741876581	1,341415289	0,843910371	1,048454829	0,602458757
<i>4921515J06Rik</i>	0,792245792	1,353547713	0,887119514	1,001561775	0,614231393
<i>4921511I17Rik</i>	0,848610121	1,184308901	0,829404598	1,056897574	0,651265415
<i>Hpn</i>	0,869368004	1,470422407	0,883488829	0,97755079	0,73907263
<i>Trp53inp2</i>	0,959622444	0,932744256	1,223470135	0,581675842	0,972478589
<i>Gm19434</i>	1,117649521	0,831156274	1,18958639	0,658777648	1,014542528
<i>Nxt1</i>	1,013170343	0,894071677	1,312841916	0,741446356	0,858591621
<i>Cbx2</i>	0,995214747	0,907600288	1,375967427	0,717515107	0,979846636
<i>Zdhhc19</i>	1,027693885	1,014841842	1,082323537	0,642194483	0,762847219

<i>Tsen2</i>	0,969999994	0,926766844	1,046507854	0,625409957	0,881192639
<i>Utp14b</i>	0,96639291	0,969647184	1,159405473	0,752336793	0,851943572
<i>Pcgf1</i>	0,925361161	0,918559214	1,211255003	0,701909335	0,823996478
<i>Mettl6</i>	0,994308389	0,906733983	1,175518256	0,577937645	0,725526528
<i>Mafb</i>	1,163797036	1,183673199	1,423762551	0,549876605	0,737174081
<i>Ttc30a1</i>	1,055487024	1,17599472	1,488059651	0,731504231	0,925934624
<i>Camkk1</i>	1,138664699	0,999564688	0,929851107	0,572937799	0,96842364
<i>Gm12409</i>	1,095781354	1,073979936	0,936614688	0,693855381	1,020065432
<i>Mthfd1l</i>	1,13142049	0,912707937	1,05079815	0,719437503	1,048900833
<i>Igf2bp2</i>	1,143721643	0,870688893	0,974267773	0,685038237	0,948385264
<i>1300002E11Rik</i>	1,192298986	1,132042332	1,034582465	0,563840149	0,932499043
<i>Cchcr1</i>	1,202969029	1,053557801	1,15639195	0,576166939	0,781104243
<i>5430411K18Rik</i>	1,249683187	0,956410575	0,947421867	0,763574435	0,861429488
<i>Zfp746</i>	1,214852607	0,926123925	0,950043858	0,826477717	0,853769079
<i>Sipa1l3</i>	1,268154287	1,007240342	0,96797863	0,815924424	0,841428299
<i>Ept1</i>	1,238785653	1,003135977	1,001420423	0,759834375	0,936062003
<i>Syk</i>	1,207972915	1,019391703	1,022333518	0,76455588	0,891306405
<i>Tnfrsf8</i>	1,144419688	0,963142206	0,970286593	0,768329318	0,772758769
<i>Tspan2</i>	1,176617878	0,923689161	1,025486746	0,751801819	0,784744936
<i>Zbed4</i>	1,128651063	0,910326376	0,944071051	0,797655851	0,858978313
<i>Pafah2</i>	1,142054947	1,064119494	0,968603645	0,758941353	0,840527146
<i>Slc44a3</i>	1,18874233	1,078547593	0,967625835	0,71722638	0,792643497
<i>Ergic1</i>	1,025968371	1,087883002	1,003249024	0,842299969	0,89246587
<i>S1pr2</i>	1,084502003	1,015178112	0,964103615	0,854952173	0,880984523
<i>Amhr2</i>	1,064086365	1,075098395	1,087852942	0,765880269	0,902709128
<i>Eij2b4</i>	1,120885657	0,970561096	1,089857049	0,901370918	0,892289892
<i>C330011F03</i>	0,875844526	1,184976444	0,95750102	0,741470378	1,003228189
<i>1600002K03Rik</i>	0,759283672	1,212052766	1,052777692	0,680333201	0,896298618
<i>BC025920</i>	0,941703072	1,247876657	1,162820325	0,756959535	0,865339142
<i>Galr3</i>	0,894729283	1,269438979	0,952684373	0,443607269	0,902022585
<i>Rab13</i>	0,923241201	1,219324531	1,001921253	0,585945669	0,802523936
<i>1700102H20Rik</i>	0,849242493	1,260199897	0,942304083	0,574186681	0,896435676
<i>Krtcap2</i>	0,897692365	1,275081425	0,989964368	0,616461868	0,998339864
<i>Dnlz</i>	1,133102924	1,394427657	1,065034067	0,434495085	1,139118513
<i>Prnt1</i>	1,086435918	1,038861698	0,876597903	0,274648841	0,670217933
<i>Tmem106c</i>	1,102310217	1,061900882	1,061749243	0,341918445	0,507334842
<i>Arhgap20</i>	0,875532441	0,915683385	1,019913532	0,393339553	0,523809556
<i>Sh2d5</i>	1,035166582	0,623216365	0,983339821	0,466533677	0,848067554
<i>Fgf8</i>	1,059202332	0,799240375	1,000038531	0,526688527	0,883537717
<i>Use1</i>	1,091931063	0,635589135	1,207627877	0,351040654	0,809350056
<i>Abca2</i>	0,995049503	0,655770523	0,839688598	0,721476071	1,274112483
<i>1110038B12Rik</i>	0,850156153	0,688456393	0,775094024	0,676387656	1,286279725
<i>Tmem147</i>	0,928403804	0,496208179	0,625780842	0,696507484	1,266278665
<i>Nhlrc4</i>	0,846585051	0,554763828	0,662264986	0,744192638	1,250679328
<i>Fam173a</i>	0,961588601	0,454774014	0,628495537	0,57270285	1,438557288
<i>Lrrc10</i>	1,065724048	0,60896835	0,64849955	0,704161016	1,416050857
<i>Pycr1</i>	0,926425577	0,349407192	0,833999486	0,679954413	1,289384116
<i>Zfp747</i>	1,12112912	0,216221669	0,8260189	0,587541872	1,400082743
<i>Pdcd5</i>	0,586520718	0,498979754	0,882651265	0,623852314	1,136275665
<i>A230050P20Rik</i>	0,600401596	0,439904314	0,852468903	0,540983886	1,254604543
<i>Timm8a1</i>	0,478622066	0,540588757	0,895497423	0,495481279	1,164745836

<i>Tmem198b</i>	0,678094761	0,501411155	0,907874953	0,44677073	1,011424889
<i>Efcab4b</i>	0,644901393	0,432441378	0,853829024	0,371223768	1,12996251
<i>Plekhj1</i>	0,687890455	0,309852595	1,036887435	0,625292778	1,137055143
<i>4930465K10Rik</i>	0,718607916	0,342938379	0,856208899	0,781634345	1,133978621
<i>Tysnd1</i>	0,774588014	0,382421659	0,684992109	0,345679571	1,15984548
<i>Mars2</i>	0,848440444	0,403971251	0,664373315	0,317356764	1,160558441
<i>Neurl2</i>	0,911624105	0,386814956	0,935186964	0,401100155	1,168564463
<i>Tlr9</i>	0,640943505	0,368164075	0,824900392	0,319706183	1,29999027
<i>Gm5475</i>	0,799704571	0,656260967	0,642867122	0,491752945	1,146985442
<i>Ankrd13d</i>	0,833014116	0,579031303	0,659775283	0,618580264	1,197781296
<i>Cenpm</i>	0,867594409	0,599577539	0,656435857	0,52732131	1,004172081
<i>Tas1r3</i>	0,903949023	0,561580598	0,73668001	0,583315313	1,031129085
<i>Galns</i>	0,798661965	0,617254394	0,830886707	0,517205609	1,118077271
<i>Bace1</i>	0,759722983	0,548777172	0,758128132	0,389055657	1,109025832
<i>H2afy3</i>	0,705950249	0,7609622	0,757289108	0,459397761	1,130684501
<i>Gba</i>	0,782846166	0,751468512	0,588536534	0,543049026	1,036491853
<i>Pycl</i>	0,741895031	0,400707803	0,74802003	0,687118202	1,083896979
<i>Rfx2</i>	0,745897904	0,421274644	0,678506995	0,589165574	1,010833705
<i>C230052I12Rik</i>	0,770257633	0,542736798	0,767838345	0,650274592	1,076760923
<i>Ipo4</i>	0,690017025	0,491066436	0,565984875	0,682363376	1,045059677
<i>Kcnh6</i>	0,691445313	0,49707882	0,654476829	0,616213882	1,133296848
<i>Cdc14b</i>	0,625605745	0,506668894	0,68395657	0,741134706	1,109806714
<i>Tsta3</i>	0,619881871	0,497912687	0,656066017	0,654514767	1,076393168
<i>Odc1</i>	0,549258824	0,634731206	0,499259719	0,464856022	1,195144996
<i>Klf11</i>	0,643695201	0,622566634	0,53125897	0,576465599	1,213606246
<i>3110056O03Rik</i>	0,748814393	0,539412344	0,502260491	0,414104284	1,010137457
<i>Tspo2</i>	1,04717324	0,696691266	0,405414646	0,552632816	1,105186855
<i>5430437P03Rik</i>	0,944962504	0,650393945	0,518090043	0,677482269	1,021320584
<i>Tmem30b</i>	0,998142146	0,674150378	0,292126953	0,745639482	1,143666148
<i>Lefty1</i>	0,916250007	0,529757253	0,494780575	0,528029652	1,258371633
<i>Cdc20</i>	0,88780531	0,406205755	0,314482287	0,633980047	1,142543322
<i>Alad</i>	0,904863352	0,907741918	1,081515603	0,803984912	1,139907912
<i>2410131K14Rik</i>	0,915651605	0,946728125	1,043467148	0,796452974	1,146011339
<i>Foxr1</i>	0,902720751	0,932395011	1,034400175	0,758356061	1,094129629
<i>Cdk6</i>	0,99148478	0,897187143	1,06036491	0,738373464	1,061529737
<i>Acox1</i>	0,965489786	0,929695248	1,035967681	0,683959478	1,049281681
<i>Arl3</i>	0,987671194	1,033223272	1,078604562	0,673565475	1,163794622
<i>Dmwd</i>	0,944276603	0,868902794	1,052800782	0,626100778	1,201377651
<i>Plekhg3</i>	0,944044474	0,807263206	1,050774529	0,684565764	1,241005863
<i>Hgsnat</i>	0,89704524	0,819846247	1,150453433	0,660395432	1,104059708
<i>Kif20a</i>	0,881681448	1,028592428	0,913519209	0,803764299	1,077860107
<i>Mrps11</i>	0,894838826	1,04273871	0,947952736	0,764722345	1,021075869
<i>Slc39a13</i>	0,848293854	0,970029702	0,988580664	0,815953726	1,034201445
<i>Hemgn</i>	0,806091581	1,017763923	0,993883732	0,771337881	1,040448014
<i>Phgdh</i>	0,83980605	1,006607655	0,854638616	0,784501192	1,059297196
<i>Srcrb4d</i>	0,870519166	0,952015029	0,943825401	0,67831326	1,121644036
<i>Tcp11</i>	0,982566337	1,029420796	0,942649994	0,704371695	0,96254373
<i>Jub</i>	0,936787272	1,085415773	0,979947982	0,635172716	0,980569631
<i>Pip4k2c</i>	0,819842827	0,751312171	0,831146653	0,64252891	1,144122051
<i>Sirt4</i>	0,843489557	0,804351823	0,771467208	0,637813175	1,179334292
<i>C8g</i>	0,797758219	0,891058123	0,784157292	0,651497531	1,165114472

<i>Tssk1</i>	0,703182034	0,804230233	0,840229365	0,574349319	1,288165243
<i>9130019O22Rik</i>	0,96614408	0,857838052	0,81692403	0,650560891	1,32838706
<i>Stac3</i>	0,92757273	0,903826645	0,855870252	0,485110982	1,29276447
<i>Ccdc96</i>	0,914720839	0,606226009	0,941711115	0,672209899	1,124511367
<i>Tlr2</i>	0,898723001	0,574860625	0,999103405	0,64359492	1,159230699
<i>Slc16a13</i>	0,857762738	0,534267005	0,91783353	0,612070429	1,095592988
<i>Atp2a1</i>	0,908855622	0,693238816	1,036267008	0,462782862	1,063217753
<i>Scyl1</i>	0,839379536	0,775375126	0,86975829	0,641897418	1,044877487
<i>Tarbp2</i>	0,786517425	0,751622616	0,987538022	0,591349224	1,105426368
<i>Rogdi</i>	1,124308496	0,5854136	0,896233839	0,535196091	1,105105292
<i>Rps6kl1</i>	1,148226128	0,789234073	0,909336098	0,483669569	1,101758597
<i>Tubg1</i>	1,042389552	0,710922295	0,758198524	0,46690968	1,189012642
<i>Fbxl15</i>	1,11285231	0,794498697	1,02151184	0,694174007	1,362292385
<i>Mrpl38</i>	1,005596128	0,65846637	1,009359117	0,579205307	1,43647193
<i>Ncapd2</i>	0,926563817	0,700846005	1,006680385	0,747623893	1,297101564
<i>Flii</i>	0,880286571	0,708835185	1,009766018	0,812392345	1,242703596
<i>Ninj1</i>	0,948773481	0,652832772	0,929672111	0,846446438	1,273368521
<i>Ccdc94</i>	0,691913222	0,80552151	0,782236283	0,800232424	1,260275
<i>Ccdc61</i>	0,732644315	0,717971184	0,832124828	0,729921059	1,209138255
<i>Zdhhc24</i>	0,70004121	0,620653788	0,855029508	0,903638403	1,322115654
<i>Soat2</i>	0,716569054	0,668070204	0,822514856	0,835449264	1,277689913
<i>Zfp12</i>	0,626159828	0,634174554	0,909196905	0,79099675	1,225765118
<i>Llgl2</i>	0,648961279	0,689331144	0,933654882	0,84220198	1,260804506
<i>Polr3h</i>	0,673292989	0,652178812	1,013943065	0,785566609	1,196250107
<i>Mrpl19</i>	0,65976225	0,532139172	0,733094754	0,862394025	1,187160362
<i>Lrwd1</i>	0,746086521	0,483836122	0,757563877	0,773006194	1,286446664
<i>Limk1</i>	0,596949091	0,599996515	0,817436071	0,747570621	1,199637414
<i>Pabpc4</i>	0,583333385	0,586465028	0,733610956	0,739969792	1,26844678
<i>4921530D09Rik</i>	0,767832086	0,649506245	0,817582212	0,901989883	1,214303709
<i>Gpd1l</i>	0,713526651	0,690041963	0,858503327	0,885360404	1,138828624
<i>Ell</i>	0,870914578	0,735210562	0,930859878	0,872348601	1,144967938
<i>Kdelr1</i>	0,827435813	0,674661581	0,897022688	0,858831512	1,073751289
<i>Fam132b</i>	0,883131573	0,639223584	0,845118328	0,888388684	1,166801784
<i>Sepr1</i>	0,886716137	0,620343182	0,810567124	0,836068747	1,188280866
<i>Zbtb42</i>	0,92902268	0,691236343	0,816629632	0,852121448	1,232988141
<i>C530028O21Rik</i>	0,816331798	0,846657619	0,806680586	0,871322681	1,294215057
<i>2410004P03Rik</i>	0,801797403	0,827496284	0,83468634	0,892973181	1,315367658
<i>Klhl36</i>	0,861468799	0,82379967	0,758464214	0,811577442	1,25792083
<i>Coasy</i>	0,828064456	0,751882895	0,706584839	0,990328876	1,289111081
<i>3110002H16Rik</i>	0,672837576	0,658089274	0,819844552	0,804107204	1,06145979
<i>Rtcd1</i>	0,645943012	0,67281496	0,772226569	0,838164207	1,003878039
<i>Flcn</i>	0,541351724	0,736643605	0,701203128	0,755661422	1,022550149
<i>Gusb</i>	0,529409462	0,704807897	0,69039453	0,760999703	1,00378097
<i>Inpp5e</i>	0,691072259	0,633032346	0,603117574	0,842313764	1,058403478
<i>Stoml2</i>	0,604312781	0,667760688	0,666055781	0,909351738	1,072175468
<i>Nomo1</i>	0,793413006	0,650616588	0,695747639	0,698665714	1,0032416
<i>Sars2</i>	0,744941417	0,614819865	0,741631086	0,730018177	1,006553036
<i>5031425F14Rik</i>	0,781670675	0,700829523	0,776133211	0,749585999	1,006399114
<i>1110021J02Rik</i>	0,876884575	0,639307011	0,778504	0,729208958	1,037279599
<i>Triap1</i>	1,014160886	0,697423124	0,783846915	0,626188324	1,074657863
<i>Apitd1</i>	0,972322664	0,647175974	0,763874197	0,645006668	1,023793064

<i>Prkcd</i>	0,881203008	0,811180376	0,853949678	0,788343757	1,007678035
<i>Gns</i>	0,933413818	0,848584306	0,857413843	0,842196027	1,048467036
<i>Ankrd24</i>	0,853377799	0,832366714	0,718228079	0,802840755	1,042032791
<i>Plcb3</i>	0,887059864	0,923897939	0,736833783	0,881092065	1,06997778
<i>Tmx2</i>	0,841464761	0,883039363	0,713576175	0,884392996	1,154626911
<i>Tmem41a</i>	0,913601726	0,871333058	0,807684308	0,923516427	1,162584078
<i>P2ry13</i>	0,881523754	0,980466265	0,698312823	0,700458619	1,029977851
<i>Lmnb2</i>	1,002319121	0,835938396	0,656847028	0,795743752	0,954587998
<i>Zfand2b</i>	0,59421551	0,7686231	1,300732583	0,839927661	0,96914226
<i>Celf5</i>	0,536833373	0,841272424	1,303128497	0,807269065	1,149009763
<i>Hspbp1</i>	0,660174164	0,778544623	1,212419568	0,843448754	1,072730888
<i>Usp22</i>	0,711586912	0,788032151	1,165617809	0,81744543	1,179027722
<i>Agpat9</i>	0,690095411	0,616016843	1,178536653	0,903166203	1,167272488
<i>Alyref</i>	0,639375272	0,658294018	1,258962869	1,035603222	1,040228502
<i>Mrpl18</i>	0,575916233	0,764332856	1,454502829	1,00942486	1,089684867
<i>Mycn</i>	0,944743745	0,633754757	1,538528422	0,541888356	1,033689859
<i>Ocstamp</i>	0,775628164	0,356296318	1,143518906	0,924426698	1,077818828
<i>Mmp11</i>	0,778383298	0,450740981	1,032536687	0,885061068	0,980992769
<i>2810428/15Rik</i>	0,882799471	0,446155282	1,049703051	1,015446056	1,136695472
<i>Ppm1n</i>	0,828121126	0,353932558	1,220458866	1,056857012	0,996005638
<i>Itgax</i>	0,770067317	0,69920468	1,002011389	0,815723243	0,977974498
<i>Scarf1</i>	0,711555586	0,687517134	1,012590066	0,936431699	1,022468808
<i>Mrpl28</i>	0,691814885	0,699983144	1,107019089	0,959396345	0,90634734
<i>2900002K06Rik</i>	0,864471629	0,599232118	1,03686733	0,901481891	0,867764518
<i>Mcrs1</i>	0,885265927	0,609374583	1,003110001	0,951790074	0,939404633
<i>Rbm19</i>	0,908379348	0,693637747	1,182983463	0,736242034	1,210897151
<i>Ceacam16</i>	0,918788823	0,673459159	1,127109697	0,749900949	1,118149353
<i>Tmem161a</i>	1,000967582	0,676779856	1,048244423	0,84329995	1,121144184
<i>Gm505</i>	1,005230644	0,619623735	1,224903116	0,710989282	1,033350161
<i>Foxj1</i>	1,092561801	0,621223315	0,982710354	0,960426889	1,007802829
<i>Cdhr5</i>	1,018319601	0,565566193	0,999078618	0,945858842	1,041367866
<i>Lrrc25</i>	1,028909708	0,534320977	1,101257433	0,992493192	1,021617801
<i>1700021N21Rik</i>	1,162515667	0,591040977	1,087253338	0,827640421	0,946383163
<i>Gm7325</i>	1,269609871	0,454016299	1,349633841	0,965065985	1,040910655
<i>Islr</i>	1,073667572	0,432286676	1,453598064	0,772673878	1,296224782
<i>Atp5e</i>	1,05783284	0,416646959	1,400216937	1,003568914	1,464954212
<i>Cyc1</i>	1,0147318	0,32428805	1,251461986	1,062410427	1,463647334
<i>Zscan12</i>	0,361213414	0,918188827	0,840454934	0,749631009	1,189036117
<i>Was</i>	0,386116793	0,923733718	0,95531133	0,635017961	1,120742087
<i>Uqcrh</i>	0,320665148	0,939227726	0,935202163	0,796102666	1,061220306
<i>Rc3h1</i>	0,291708439	0,902517905	0,914461084	0,79052648	1,139950274
<i>Ltb4r1</i>	0,243073371	0,937960177	1,003724694	0,740582701	1,073890576
<i>Ddt</i>	0,280279765	1,193918511	0,906640483	0,709662884	1,212780763
<i>Cldn7</i>	0,401935181	1,22671748	1,009966174	0,715076633	1,276457645
<i>Epha1</i>	0,481873737	0,925466184	0,995099117	0,611027024	1,391715342
<i>Kazald1</i>	0,418550937	0,930143986	0,956491855	0,657668533	1,315084906
<i>4933416M07Rik</i>	0,414672148	1,07668706	0,872362704	0,533041277	1,267742743
<i>Tmem79</i>	0,649436743	1,104285033	0,973476576	0,583609556	1,328827923
<i>Gabbr1</i>	0,568567536	0,824995464	0,746531275	0,402552463	1,01716662
<i>Gm216</i>	0,453077165	0,771752806	0,760441821	0,416548821	1,037987264
<i>Olf750</i>	0,435527662	0,889569402	0,880890453	0,437332866	1,023018858

<i>Armc5</i>	0,433424393	0,798834692	0,781527908	0,57697254	1,061398605
<i>Alg2</i>	0,481414085	0,75173168	0,800737063	0,500438339	1,173655143
<i>Sdf2l1</i>	0,518096721	0,859487116	0,768109533	0,308726999	1,257928515
<i>Actr1b</i>	0,531785345	0,82058234	0,682707754	0,466746584	1,22387306
<i>Pfn4</i>	0,700348904	0,957528092	0,856656076	0,4652008	1,077303676
<i>Hipk4</i>	0,686731888	0,80656652	0,980215139	0,375743559	1,197226484
<i>Wdr31</i>	0,618107907	0,873998964	0,999952962	0,909720691	1,130702982
<i>Agbl5</i>	0,635535184	0,859813452	0,96923523	0,906139852	1,158779914
<i>1700054N08Rik</i>	0,60683269	0,887079599	0,984177921	0,85461988	1,183425455
<i>Nfu1</i>	0,66441097	0,859110429	0,951872552	0,814326795	1,109921818
<i>lqce</i>	0,596682722	0,729164213	1,022194169	0,815002266	1,14593115
<i>l830077J02Rik</i>	0,607930849	0,723863181	1,016850895	0,839647181	1,113109501
<i>Hdac4</i>	0,617936568	0,743070096	1,042711197	0,807876468	1,185701774
<i>Dek</i>	0,589927252	0,788777669	1,09845784	0,819506272	1,134606351
<i>Ccdc101</i>	0,540223059	0,864933765	0,989160356	0,782167481	1,014437863
<i>Rapgef4</i>	0,596875834	0,903164897	1,021443324	0,847099782	1,000692479
<i>Mef2a</i>	0,648187335	0,896085803	1,012693613	0,772949178	0,977654921
<i>Tmem63b</i>	0,669659182	0,854124636	1,012017632	0,759902738	0,980895754
<i>Gbp6</i>	0,657336553	0,847250242	1,024578132	0,823484065	0,93133684
<i>Nsmaf</i>	0,734719244	0,907990669	0,899858411	0,790917133	1,043215844
<i>Taok2</i>	0,747898427	0,866066898	0,941915578	0,815951102	1,046092567
<i>Al846148</i>	0,79994829	0,933772744	0,989165218	0,859212877	1,111260828
<i>Trak2</i>	0,74536665	0,926884627	1,01381893	0,855257897	1,094119256
<i>Mkrn2</i>	0,70062515	0,856257197	0,908836429	0,833053612	1,158227876
<i>Jph4</i>	0,725410559	0,839725959	0,871627767	0,825176954	1,191744515
<i>Msh2</i>	0,744038133	0,794377723	0,901671513	0,795641073	1,139788692
<i>Rcc1</i>	0,765596539	0,792915789	0,915521901	0,777418811	1,123763234
<i>Rnf215</i>	0,710411573	0,859718659	1,058714837	0,680720564	1,114653389
<i>Nt5dc3</i>	0,576529577	0,858179344	0,975066845	0,643130472	1,144233478
<i>Tgoln1</i>	0,535227647	0,949306343	1,036154298	0,707048604	1,022160582
<i>Ncoa4</i>	0,59146213	1,012539265	1,043351997	0,711223196	1,135867545
<i>Arsg</i>	0,590912525	1,039692118	1,055034094	0,826539425	0,983066646
<i>Rab6b</i>	0,592532303	1,063042301	1,009725614	0,774478168	1,023222861
<i>Pabpn1</i>	0,514233958	1,051622091	0,927983777	0,810760482	0,978510305
<i>Nsf</i>	0,485818742	0,987463173	0,892069246	0,885466736	1,006794587
<i>Kdm4a</i>	0,47646509	1,00301056	0,898981559	0,844204544	1,012869044
<i>Zfp410</i>	0,48754617	0,932990008	0,910463844	0,866395225	1,077150506
<i>Ykt6</i>	0,40746353	0,926251127	0,928984283	0,797494292	1,050318973
<i>Zfp236</i>	0,404188272	0,929767348	0,958706001	0,86659473	1,018935046
<i>Gcn1l1</i>	0,540637195	0,695701598	0,893121625	0,859475667	1,18342068
<i>Coq2</i>	0,60032004	0,712492723	0,869802234	0,82922502	1,19869875
<i>Fscn2</i>	0,629311992	0,776521339	0,863605552	0,852982112	1,131206455
<i>Brap</i>	0,544388818	0,789464896	0,777055801	0,881786161	1,18039933
<i>Bloc1s2</i>	0,534854632	0,792777967	0,859785452	0,910974747	1,33599895
<i>Rfc5</i>	0,583947227	0,782579349	0,869936524	0,92064105	1,240014954
<i>Cbr3</i>	0,520642232	0,708139737	0,823005801	0,947986535	1,268547748
<i>Ptpmt1</i>	0,612688706	0,799355855	0,648501995	0,856705488	1,251832474
<i>Enox</i>	0,534842862	0,758005825	0,665812921	0,723416607	1,236776311
<i>Snhg5</i>	0,422846821	0,821061635	0,938470287	0,799303154	1,341594979
<i>Zfyve27</i>	0,481797595	0,86623958	0,969431422	0,754202022	1,285633027
<i>Isca2</i>	0,549514831	0,775191984	0,862359221	0,824196608	1,237295205

<i>Dctn3</i>	0,562611805	0,803292002	0,862580175	0,780430611	1,297124563
<i>Lamtor2</i>	0,479229282	0,814289992	0,896910904	0,718375989	1,226968061
<i>Hyls1</i>	0,400251242	0,769142564	0,844810623	0,764134065	1,236305149
<i>Rab9</i>	0,447833602	0,710721146	0,858634742	0,717640848	1,147635541
<i>Ubp1</i>	0,397389721	0,72843382	0,839890406	0,688182892	1,182531194
<i>Rnf144a</i>	0,555110674	0,844931085	0,724293256	0,948754105	1,060388342
<i>Pcgf2</i>	0,548819317	0,866166558	0,78463586	0,962406226	1,041969854
<i>Sirt1</i>	0,471685888	0,820998698	0,727924274	0,909370758	1,023879655
<i>Nol12</i>	0,422427445	0,829039694	0,711492098	0,889195172	1,061266048
<i>Zfp346</i>	0,526843289	0,740830873	0,779692782	0,93948923	1,041766387
<i>Mto1</i>	0,515770227	0,746111117	0,827410757	0,986347444	1,025747061
<i>E130307A14Rik</i>	0,503860111	0,798741246	0,867703878	0,928878915	1,047727773
<i>Zfp507</i>	0,493852604	0,805431301	0,87569547	0,878769227	1,067348084
<i>D17Wsu104e</i>	0,508189497	0,776367869	0,845166335	0,923434509	1,158293482
<i>Ccpg1</i>	0,455147246	0,769657635	0,842178683	0,918554336	1,104570779
<i>Cdc3711</i>	0,451813292	0,766377074	0,791980135	1,001155907	1,140624774
<i>Slc9a8</i>	0,409010718	0,774980497	0,815678895	0,901930451	1,197416705
<i>Gnpat</i>	0,45218388	0,735885883	0,781446062	0,891153251	1,154332942
<i>Ptpn23</i>	0,581616281	0,808622706	0,833748647	0,792252331	1,030690994
<i>Ddx47</i>	0,589939846	0,762200002	0,785493893	0,748700467	1,045473591
<i>Gm16062</i>	0,608864865	0,789850098	0,72025605	0,78332656	1,107237865
<i>Urgcp</i>	0,561307829	0,869467739	0,841942909	0,838600289	1,087824335
<i>Pomgnt1</i>	0,509481655	0,799692377	0,838459827	0,784481309	1,083184197
<i>Mon1b</i>	0,478609166	0,611986239	0,86103541	0,695270663	1,087877302
<i>Sec61b</i>	0,507505864	0,639927655	0,879475123	0,667192678	1,058486927
<i>1300001I01Rik</i>	0,518352273	0,602307397	0,854655536	0,746448573	1,095933385
<i>1200011M11Rik</i>	0,522369669	0,635219025	0,792883255	0,637617476	1,150391438
<i>Dlk2</i>	0,53683867	0,642850428	0,777593127	0,677988127	1,162280586
<i>Adcy3</i>	0,602165306	0,666784388	0,927948139	0,634467444	1,048900015
<i>Nudt21</i>	0,580794074	0,705162127	0,906038563	0,698782513	1,074691405
<i>Trip10</i>	0,597185079	0,714969977	0,824102078	0,65532665	1,067272954
<i>Fam129b</i>	0,489961133	0,636707607	0,961716014	0,667663616	1,155139398
<i>Clasrp</i>	0,501844277	0,6066332	0,885124412	0,672672633	1,160024369
<i>Cltb</i>	0,480609437	0,673871222	0,87655902	0,618298755	1,088626579
<i>Manbal</i>	0,554634319	0,686115801	0,992533022	0,577654192	1,091428193
<i>Fam83a</i>	0,596578369	0,611823885	1,012952537	0,637913064	1,28227611
<i>Atic</i>	0,543277145	0,628730777	1,059835078	0,576002638	1,289910774
<i>4933424G06Rik</i>	0,480479111	0,603138259	1,0147176	0,622324686	1,196934276
<i>1110054O05Rik</i>	0,433670042	0,828548215	1,036127673	0,767009323	1,096120152
<i>Get4</i>	0,402419794	0,765480936	1,008407322	0,801644656	1,0892091
<i>Tiparp</i>	0,479153959	0,809046949	0,966924598	0,761542387	1,081745407
<i>Zfp444</i>	0,457201774	0,762413244	0,964236616	0,670938359	1,100676998
<i>Ranbp3</i>	0,434819939	0,716747544	1,003196284	0,768193417	1,200437455
<i>Pdhh</i>	0,419848095	0,695694052	0,94224335	0,776788223	1,15985732
<i>Zfp7</i>	0,459133878	0,690613868	1,022310013	0,835276331	1,117497176
<i>Erich1</i>	0,536403802	0,771204901	1,13565839	0,697928299	1,124405487
<i>Wdr67</i>	0,53198585	0,674290329	1,102506012	0,758590362	1,067852869
<i>Adamts15</i>	0,476553558	0,736525658	1,135049845	0,760281102	0,990075543
<i>4930513N10Rik</i>	0,475382773	0,771456485	1,109381131	0,837629659	1,015630292
<i>Kctd6</i>	0,434220714	0,834720921	0,899635723	0,733774859	1,009469383
<i>Notch2</i>	0,540156625	0,80261378	0,903588652	0,735343689	1,02461006

<i>Actn2</i>	0,50716498	0,833806346	0,989754718	0,680104659	1,032043731
<i>Gch1</i>	0,545448813	0,784051095	1,0283065	0,637766871	1,000445536
<i>Mosc1</i>	0,474304381	0,756929158	1,01566207	0,718193021	0,995158608
<i>D630039A03Rik</i>	0,518711135	0,750758607	1,29627133	0,567277581	1,11644321
<i>Ccdc106</i>	0,556883216	0,719231116	1,256377703	0,58424651	1,06895696
<i>Rims3</i>	0,443996652	0,792958934	1,418979249	0,466548602	1,034562177
<i>Rps27l</i>	0,238095108	0,817920965	1,211953007	0,657888543	0,865953462
<i>Pmp22</i>	0,271367855	0,724190482	1,272410624	0,633804748	1,015502582
<i>Per1</i>	0,471828393	0,666385532	1,036678998	0,69519887	0,917591796
<i>Tmem55b</i>	0,398834682	0,713285697	1,065267152	0,561639838	0,879458712
<i>Enpp4</i>	0,364874869	0,65093062	0,958230725	0,518321888	1,083696931
<i>Basp1</i>	0,3701561	0,586554654	1,002381948	0,50553111	1,006888873
<i>Maf</i>	0,531126932	0,623013203	1,136704564	0,458518568	0,986273057
<i>Metrn1</i>	0,515825916	0,522782131	1,111328779	0,482566572	0,989004124
<i>Pdzk1</i>	0,577058818	0,624194522	1,05358001	0,359707684	0,910548001
<i>Gm10584</i>	0,706419599	0,444652592	1,306972307	0,264657651	1,055893874
<i>Gpr124</i>	0,515614913	0,465610417	1,262541941	0,368439656	1,108441683
<i>LOC171588</i>	0,471865466	0,61377671	1,486787715	0,092527258	1,288448071
<i>Zfp580</i>	0,876864142	0,710728381	1,055497433	0,122865954	1,423506217
<i>Mcl1</i>	1,453166408	1,401367892	0,884950227	0,393749129	-0,448628892
<i>Arl4c</i>	1,228526156	1,490983975	1,749864074	0,060854615	-0,300005795
<i>Rnaseh2c</i>	1,854386943	0,680186188	2,004098374	1,140659301	0,572100984
<i>Dppa5a</i>	1,171863037	0,54945845	2,25276875	1,154110772	0,220403157
<i>A430071A18Rik</i>	1,806579642	0,964071501	0,991645906	0,916974305	0,691887367
<i>H2-Q1</i>	2,007655613	0,996570597	0,943473992	1,004613071	0,707165263
<i>Prodh</i>	2,055827235	1,250116316	0,888284775	0,74134416	0,552947798
<i>Fam122a</i>	1,897504528	1,113300609	0,862713901	0,816764285	0,712737242
<i>P2rx1</i>	2,004521823	1,121965065	1,005662713	0,875985022	0,736850925
<i>1700072O05Rik</i>	1,890555347	1,173725649	0,920929962	0,753326343	0,885321269
<i>Tnfrsf17</i>	1,813059209	1,115754867	0,999216911	0,769834476	0,856116377
<i>Ada</i>	1,891855566	0,988238134	1,106435056	0,583601528	0,779461972
<i>Tert</i>	1,884600699	1,153662546	1,119625088	0,623311028	0,859093134
<i>Mfsd6l</i>	1,903359563	0,941131871	1,008375948	1,283748697	0,564698937
<i>Pgp</i>	1,939747699	1,129461453	1,108366774	1,349171846	0,722776863
<i>4930474N09Rik</i>	1,981926657	1,221054596	1,231351707	1,145992289	0,533521848
<i>Il2ra</i>	1,607438726	1,319752382	1,193853153	1,037381129	0,982471929
<i>Diexf</i>	1,560595738	1,252926687	1,189753927	1,089109417	0,982536267
<i>1110008L16Rik</i>	1,515314662	1,264685488	1,12340086	1,022729846	0,964501124
<i>Tg</i>	1,498951382	1,27674185	1,124597437	1,032107464	0,98084309
<i>Pnck</i>	1,489991372	1,271905837	1,160230969	0,994537773	1,010943577
<i>Parp16</i>	1,504424571	1,190043117	1,177691537	1,100156986	1,059357169
<i>Gemin5</i>	1,524703322	1,154097791	1,14478081	1,012903479	1,038055035
<i>Stard10</i>	1,634371369	1,303933352	1,278240858	1,027072535	1,077581155
<i>Ap3s1</i>	1,559971996	1,346592502	1,280372264	1,089034266	1,052492188
<i>2010015L04Rik</i>	1,790444534	1,285084544	1,247435932	1,056905561	0,806219151
<i>B930018H19</i>	1,845001154	1,351418047	1,264377256	1,024301603	0,929859862
<i>Padi4</i>	1,769394314	1,251735598	1,141361904	0,945384601	0,893167282
<i>4930447K03Rik</i>	1,67702197	1,227960728	1,165606404	1,035340296	0,885257599
<i>Hist1h2ac</i>	1,865762649	1,20432602	1,005693938	1,038329193	1,04323552
<i>Gpr19</i>	1,832886945	1,221417651	1,016440006	0,943500688	0,901432217
<i>Grasp</i>	1,851514184	1,233237487	1,069381274	0,746613021	1,078556417

<i>2410057H14Rik</i>	1,947833504	1,280838838	1,104346297	1,135872871	1,10223523
<i>2010001M09Rik</i>	2,100312633	1,195928628	1,160218085	1,130937386	0,884571946
<i>4930473A02Rik</i>	1,740316319	1,261607683	1,144538199	1,164917828	1,0009658
<i>Fam125a</i>	1,746038547	1,219876704	0,986394048	1,327697043	0,954296238
<i>A530013C23Rik</i>	1,866429005	1,254739712	1,103896032	1,183587749	0,866096016
<i>Ly6g6e</i>	1,869658595	1,257920883	0,978046043	1,229179744	0,89721534
<i>Gm16039</i>	1,754738355	1,215524106	1,080750333	0,813792458	0,728687622
<i>Stx8</i>	1,690858155	1,275668199	1,035667872	0,852848648	0,749423047
<i>Gm16197</i>	1,628066283	1,143523488	0,998452714	0,806266622	0,83954359
<i>Lman2l</i>	1,549463438	1,340499459	1,15175363	0,871360838	0,796615819
<i>Arpp21</i>	1,549941825	1,236436369	1,228191757	0,879906036	0,820763411
<i>Ii9r</i>	1,506810186	1,370783038	0,940115311	0,874827447	0,621354822
<i>Ankrd37</i>	1,460328273	1,236670676	0,837681185	0,607007045	0,868866227
<i>Camk2n2</i>	1,446309855	1,254107368	0,99331314	0,642920663	0,89129816
<i>4930405A21Rik</i>	1,479729043	1,441027046	0,918359707	0,622658929	0,883427625
<i>1700065J18Rik</i>	1,742912576	1,724888579	0,819850807	1,015143787	0,644237152
<i>Cpxm1</i>	1,709869736	1,025993933	1,160987397	0,239540166	0,340669827
<i>Olfr313</i>	1,745747808	0,550128676	1,175449098	0,317456875	0,388337597
<i>Chrna10</i>	1,708313447	0,770840327	1,000283582	0,708132498	0,436284403
<i>Gm3086</i>	1,546254052	0,792329463	0,897767546	0,799123252	0,364660774
<i>Ccdc93</i>	1,457683594	0,880863102	0,912823345	0,729437065	0,645411329
<i>Rimbp3</i>	1,461141401	0,849706889	1,022353269	0,801495552	0,544996957
<i>Jazf1</i>	1,701233642	1,099112042	0,878292499	0,613907956	0,40700665
<i>2010107G12Rik</i>	1,592029835	1,026239946	0,798253124	0,527118657	0,488782107
<i>Pnmal2</i>	1,526693925	1,1433996	1,014570167	0,545393011	0,414124194
<i>Mgp</i>	1,342218411	0,665200482	1,106401497	0,600396711	0,829259254
<i>Ccdc8</i>	1,395347414	0,749621246	1,166523406	0,5542727	0,550125193
<i>Cbfa2t3</i>	1,54752474	0,850633455	0,835407493	0,474336529	0,668400965
<i>Ephb2</i>	1,441850942	0,887774504	0,904885783	0,549124229	0,70155403
<i>Hfe</i>	1,607223607	0,763281249	0,936344876	0,500946339	0,741412723
<i>Crispld2</i>	1,489923284	0,991878448	1,06318471	0,55873161	0,73495811
<i>Slc10a5</i>	1,451784493	0,876696037	1,074783322	0,497023311	0,643253639
<i>Pla2g6</i>	1,518865524	0,934259015	0,947376191	0,649935442	0,759457449
<i>Engase</i>	1,398618956	0,880809378	0,94448559	0,698846494	0,817170094
<i>Dclk2</i>	1,324759949	1,045375767	0,99142529	0,711935327	0,744768965
<i>Dpf1</i>	1,372710459	1,020919857	0,992100272	0,714955692	0,857224862
<i>Cpsf4l</i>	1,572330163	1,037359789	0,86734251	0,58536251	0,714344736
<i>Rasa4</i>	1,696401957	0,938680207	0,913288751	0,676924847	0,885001824
<i>Card10</i>	1,584526711	0,856179311	0,967887938	0,751285715	0,865645042
<i>Spib</i>	1,725295755	0,790377223	1,10483177	0,747412745	0,740250156
<i>Six5</i>	1,737741985	0,674708626	0,914530929	0,940536999	0,824135112
<i>Gm889</i>	1,740662453	0,893184659	0,785109905	0,490087274	0,6051465
<i>Recql5</i>	1,730420092	0,832491936	0,740762767	0,364934876	0,656602427
<i>4930447A16Rik</i>	1,844400552	0,960316338	0,959719337	0,476871388	0,711012243
<i>Nccrp1</i>	1,74189701	0,723962859	0,919335311	0,339831841	0,896705637
<i>Hspa1b</i>	1,336715345	0,817017321	0,25356152	0,786749454	1,2584768
<i>Fam203a</i>	1,168320136	0,835436318	0,427749746	0,515966522	1,22013009
<i>1700019O17Rik</i>	1,568095247	0,81955771	0,640179406	0,576805917	1,591020993
<i>Ube2c</i>	1,291043826	1,040241594	0,917959853	0,697272715	1,333194035
<i>Pi16</i>	1,270506003	1,075255166	0,725588258	0,595852906	1,243067332
<i>Ccl4</i>	1,484640248	1,09420072	0,770602161	0,46610336	1,065715779

<i>Tff2</i>	1,319101186	0,866644118	0,913343309	0,478162145	1,275901755
<i>Cdkn1c</i>	1,36980525	0,81279689	0,867628981	0,646497336	1,302283148
<i>Heyl</i>	1,444843149	0,752719619	1,041953125	0,433976781	1,172328189
<i>2210416O15Rik</i>	1,369335506	0,827946078	0,900917424	0,758975708	1,18562678
<i>Gtpbp5</i>	1,289758514	0,824227358	0,844626458	0,716740533	1,138206746
<i>Arl2</i>	1,268947826	0,754725281	0,831821377	0,637712184	1,008877921
<i>Rnf187</i>	1,130328286	0,833454231	0,847636415	0,54674057	1,004951368
<i>Slc35e2</i>	1,03711946	0,866412087	0,83556192	0,611436714	1,058942649
<i>Uap1l1</i>	1,046027997	0,832793245	0,712544711	0,55350207	1,045664886
<i>C230035I16Rik</i>	1,093507229	0,989068815	0,688201576	0,461139792	1,029663559
<i>Spag8</i>	1,208601956	1,310019551	0,235519019	0,368195038	1,257262435
<i>Ldhal6b</i>	1,270207253	1,586885904	0,462821922	0,258192676	1,513296021
<i>Bfsp2</i>	1,458521912	0,94734508	1,157849482	0,708893466	0,972723325
<i>Lrrc42</i>	1,406580721	1,030484902	1,044773089	0,748690325	0,982579672
<i>Snx30</i>	1,433848836	1,016956947	1,004944027	0,877882067	1,009286468
<i>Ptprv</i>	1,435847706	0,999003669	0,952243917	0,89359911	1,041477928
<i>Mr1</i>	1,413645858	1,086891812	1,009794708	0,822485195	1,072022828
<i>Clns1a</i>	1,532469308	1,207449067	1,177664967	0,920897706	1,121951037
<i>Wnt10b</i>	1,576468718	1,166675983	1,180353961	0,882437868	1,089043392
<i>5830418P13Rik</i>	1,646061364	1,128001072	1,249633606	0,86282797	1,044700368
<i>4930588N13Rik</i>	1,552175561	1,111993107	1,143037965	0,96523034	0,862227242
<i>Vav2</i>	1,573335921	1,196716938	1,127819685	0,848548458	0,916769748
<i>Ankrd6</i>	1,467457446	1,110715044	1,131708434	0,883786394	0,939957292
<i>Rapgef1l</i>	1,534719602	1,063825885	1,080485456	0,909762443	1,007844437
<i>Pppde2</i>	1,694288786	1,060865224	1,303127215	0,937052473	1,135108082
<i>H1foo</i>	1,671310993	0,993820638	1,296172591	1,053270696	1,115956465
<i>Dus2l</i>	1,66421344	1,007260364	1,15737488	1,062087453	1,2416043
<i>Siva1</i>	1,595601501	0,982209775	1,421279394	1,027139205	1,131359414
<i>BB014433</i>	1,503819285	1,088327271	1,330339478	1,072735475	1,159981881
<i>A830010M20Rik</i>	1,461427959	1,368546051	1,108057697	1,18073236	0,9526424
<i>Slc35b4</i>	1,502637526	1,271199836	1,003845277	1,21491857	1,053694987
<i>Map4k5</i>	1,441314798	1,240908048	0,994189636	1,026326292	0,910170947
<i>Padi3</i>	1,416100855	1,19403597	1,092808672	1,211324891	0,766166079
<i>Tnfrsf13b</i>	1,074736978	1,018559448	1,333692279	1,013855208	1,080459422
<i>Slc27a1</i>	1,121401246	1,058844005	1,373308554	0,908914104	1,090887298
<i>Hist3h2a</i>	1,131054989	1,063362325	1,244833073	0,88171609	1,105629026
<i>AA474331</i>	1,231081974	0,98493068	1,375382109	0,997982481	0,952720996
<i>Xirp1</i>	1,251618032	1,018654848	1,394289245	0,834734252	0,996663207
<i>Prdm11</i>	1,282205276	1,082139269	1,162903407	0,951273661	1,104220484
<i>Mettl8</i>	1,307701958	1,058540176	1,165652597	0,90946812	1,163576363
<i>Wdtdc1</i>	1,248648309	1,093036875	1,215244401	0,878701797	1,204895161
<i>Fam166a</i>	1,237211141	0,958569272	1,160126829	0,929052662	1,208432697
<i>Pkn3</i>	1,320716609	0,97392304	1,17720556	0,93468211	1,129761407
<i>Pdlim7</i>	1,221004307	0,961928226	1,187423428	0,874031191	1,10171641
<i>Tctn2</i>	1,388980471	1,104526537	1,363201279	0,925194418	1,314070436
<i>Emid1</i>	1,396352675	1,115585398	1,346559278	0,898674411	1,232660597
<i>1700028I16Rik</i>	1,321565705	1,173108205	1,32953991	0,904128142	1,307382247
<i>Ppp1r37</i>	1,35415317	1,160141134	1,277780264	1,055137837	1,206045696
<i>Myo18a</i>	1,31073205	1,145080388	1,347306039	1,066116339	1,274351078
<i>Cd96</i>	1,190399694	1,188742795	1,385508197	0,964393545	1,213838806
<i>Ptprs</i>	1,25991713	1,001970717	1,305177287	0,950091868	1,202497008

<i>Rsph1</i>	1,248975488	1,048515643	1,297787128	0,939808995	1,194254829
<i>Ctcf1</i>	1,198338379	0,978445103	1,251131904	1,003148516	1,263968806
<i>Fxyd7</i>	1,301700728	1,044671961	1,377636782	1,056444429	1,330312387
<i>Tom1l2</i>	1,394184431	1,058616571	1,008896873	0,804287249	0,874383886
<i>Dbh</i>	1,380661616	1,100912423	1,051121818	0,855205324	0,855970392
<i>Fam83d</i>	1,370470838	1,109900163	0,941722358	0,803654138	0,947042729
<i>Gm19897</i>	1,324309735	1,121507682	0,995167519	0,835753871	0,928297649
<i>Dio1</i>	1,220223214	1,139781782	1,030369852	0,83992704	0,815832006
<i>Il12a</i>	1,217965979	1,099626452	1,060987993	0,825614121	0,909802607
<i>2010012005Rik</i>	1,247747207	1,109889631	0,986975541	0,914044035	0,854097558
<i>Ly6i</i>	1,244288783	1,087448452	0,966920393	0,888507641	0,882927654
<i>Lrrc27</i>	1,371152636	1,131944244	1,166117579	0,992414221	0,794079492
<i>Lass6</i>	1,393988103	1,187810943	1,13836997	1,014953101	0,909125754
<i>Dnajb4</i>	1,36992013	1,027865277	1,045479929	0,951197679	0,861330395
<i>Slc35d1</i>	1,321631705	1,061766045	1,039110892	0,934389733	0,890271293
<i>Coro2b</i>	1,331161909	1,075571401	1,040310714	0,880589032	0,890814202
<i>Prep</i>	1,368656718	1,068533208	1,06005599	0,899248893	0,919462083
<i>C2cd2l</i>	1,309430805	0,960207248	1,183071241	0,904783124	1,002638275
<i>Akap12</i>	1,307130966	1,120020401	1,153561815	0,868903003	0,944883208
<i>Cdr2l</i>	1,123490478	1,011419261	1,127001302	0,846157727	0,977836227
<i>Cux1</i>	1,156219307	1,093948285	1,186587454	0,836841674	1,015707158
<i>Myl10</i>	1,228904975	0,946513914	1,195472735	0,813571096	0,816778487
<i>Tigd3</i>	1,416737156	0,765621614	1,168451897	0,771798889	0,926443847
<i>Fbxo6</i>	1,38407683	0,784313102	1,204663	0,929063343	1,031427517
<i>4930524005Rik</i>	1,510278785	0,853865615	1,176163337	0,971480597	0,892941107
<i>Efcab4a</i>	1,341081663	0,730823672	1,157855013	1,106794115	1,003573256
<i>Pnp0</i>	1,276853227	0,78578161	1,058611	1,035104166	0,905243432
<i>Gpr84</i>	1,240027534	0,716391936	1,219947223	0,978189249	0,858166211
<i>Mageb3</i>	1,38495854	0,960036534	1,445002166	0,733026959	0,616889157
<i>I730028E13Rik</i>	1,454084333	1,098864143	1,387168399	0,87568929	0,743344858
<i>Btnl10</i>	1,6543412	1,019394552	1,199772995	0,845051579	0,59050855
<i>Lrrc32</i>	1,560886412	0,958509475	1,218736077	0,727028818	0,723255998
<i>B930041F14Rik</i>	1,648445223	0,929693528	1,24934993	0,437731286	1,336585062
<i>Tnni2</i>	1,552209989	0,960939829	1,305295216	0,562681282	1,322519472
<i>Tmem111</i>	1,608169249	0,973948713	1,029892855	0,62090674	1,220103111
<i>Tssk4</i>	1,937924258	1,009485876	1,075548135	0,556228328	1,346262691
<i>Gm826</i>	1,758715195	1,156148312	1,374637198	0,692566578	0,963916727
<i>BC055111</i>	1,771461407	1,19756277	1,252842041	0,673530025	1,050209184
<i>Reep1</i>	1,668950515	1,079172522	1,473604979	0,805372937	1,172072992
<i>Cd24a</i>	1,444846023	1,033345686	1,316371638	0,658828509	1,072276799
<i>Tagln</i>	1,310034207	0,925963823	1,279406476	0,626812252	1,09960303
<i>Tmem8c</i>	1,321965798	1,036117072	1,297416073	0,474011521	0,974169439
<i>Rasl10a</i>	1,326836679	0,756696237	1,420279795	0,639144742	1,066698105
<i>Gsg2</i>	1,200081874	0,876039699	1,158690774	0,681524761	1,405548648
<i>Fzd5</i>	1,304852951	0,908415528	1,147588812	0,546278399	1,352888267
<i>Gpx4</i>	1,469558735	1,14900384	1,098308709	1,242345686	1,559338717
<i>Tnfsf14</i>	1,385794596	1,128984708	1,216334575	1,134578892	1,588295827
<i>Fam109b</i>	1,46127409	1,144477771	1,142811546	0,957403736	1,623341858
<i>Slc29a1</i>	1,560368177	1,107638387	1,27924892	1,003331827	1,552711895
<i>Uhrf1</i>	1,596929026	1,030867338	1,329016608	1,019489637	1,46193766
<i>Ccdc124</i>	1,626890603	1,029739029	1,17428394	1,138956495	1,506750358

<i>Pim1</i>	1,568688711	1,052781937	0,954084695	1,127369838	1,497169603
<i>Ldoc1l</i>	1,760933203	0,99257605	0,945149555	1,15792836	1,411477339
<i>Wdr5b</i>	1,418259517	0,845351498	1,175517244	1,011158433	1,438596205
<i>Hirip3</i>	1,349511354	0,850676689	1,246533744	1,121920244	1,528021575
<i>Reep6</i>	1,421304123	0,846121134	1,153842264	0,894399157	1,587454011
<i>Nrarp</i>	1,458079419	0,75231374	1,489712681	0,901416275	1,424334423
<i>B3gnt1</i>	1,476812046	0,941932274	1,510766262	1,090975639	1,701821076
<i>Tnfrsf13c</i>	1,38248526	0,90935379	1,411352561	0,891300156	1,648249177
<i>Maff</i>	1,553126796	1,056075515	1,487110615	0,827600771	1,53971201
<i>Tmem52</i>	2,072712318	0,601450697	1,09886551	0,969842921	1,335438596
<i>AA467197</i>	1,535395451	0,470043105	1,020058951	0,756810084	1,219142796
<i>5830403L16Rik</i>	1,660071438	0,968415954	1,634440739	0,009459712	1,601091432
<i>Cxx1b</i>	1,291026559	0,930583018	1,954627031	0,183272925	0,936884937
<i>Ntn1</i>	1,526767587	0,941278541	0,6867841	0,576928997	0,392006896
<i>Lrrc15</i>	1,598658539	0,816680446	0,648834566	0,525904766	0,46042341
<i>Wnt8b</i>	1,473400724	0,818365066	0,691443441	0,515526197	0,284825499
<i>Slc43a1</i>	1,374487297	0,848364597	0,699353039	0,44855846	0,386657344
<i>Dgcr6</i>	1,507305144	0,754912172	0,564744464	0,441082582	0,193434619
<i>BC048355</i>	1,548394699	0,7780617	0,461031387	0,659395625	0,576338544
<i>Gm8909</i>	1,512277266	1,027923031	0,54916918	0,619043059	0,317698409
<i>Foxb1</i>	1,38775167	1,096087178	0,438225348	0,407533519	0,16594836
<i>1110054M08Rik</i>	1,413706432	0,618745253	0,846103914	0,713955004	-0,154944198
<i>Tff3</i>	1,086257748	0,602106122	0,322650408	0,6761416	-0,125798708
<i>Fam64a</i>	1,051317734	0,487925491	0,34697188	0,576735116	0,146649891
<i>Ly6g6c</i>	0,975300938	1,065661375	0,331263844	0,605084848	-0,135455107
<i>C2cd4a</i>	1,086506532	1,097881786	0,223145041	0,568270068	-0,084753494
<i>Kctd18</i>	1,197711363	0,74719847	0,667682135	0,460185872	0,750190684
<i>Ggnbp1</i>	1,144056844	0,677554477	0,648043238	0,445418056	0,680933841
<i>Spsb4</i>	1,272541099	0,723792107	0,701311736	0,465336596	0,589244798
<i>Klhl23</i>	1,198444404	0,62157722	0,663810745	0,59839383	0,631040786
<i>2010300C02Rik</i>	1,240543243	0,696436825	0,672669995	0,548246844	0,658761397
<i>E2f1</i>	1,168186443	0,678104136	0,676375368	0,575212411	0,733834698
<i>Msh4</i>	1,065437652	0,677392668	0,633261671	0,550706058	0,602109124
<i>Dclre1c</i>	1,111281127	0,683295699	0,579217146	0,46260711	0,564855209
<i>Aars2</i>	1,029642477	0,588265449	0,705515609	0,425108651	0,735721978
<i>Chadl</i>	1,038933043	0,553837876	0,597596477	0,440571053	0,698672173
<i>Srsf2</i>	1,035488343	0,521519767	0,706987528	0,485259339	0,766391243
<i>Itgb4</i>	1,045233332	0,532119913	0,668209772	0,489014133	0,829237728
<i>Ppp2r5b</i>	1,097562732	0,590687956	0,526705061	0,433914062	0,856984117
<i>Klhl33</i>	1,273378938	0,717008887	0,671457884	0,643392292	0,85572322
<i>Fam76a</i>	1,134433437	0,794594706	0,684897909	0,589712321	0,803204931
<i>Cort</i>	1,138563457	0,617886804	0,724736122	0,603694404	0,889469922
<i>Ogfod2</i>	1,089164215	0,635659852	0,595523153	0,592821195	0,877850189
<i>Ctf1</i>	1,080688798	0,680359515	0,490596358	0,61815374	0,724475644
<i>Trmt1</i>	1,036975962	0,572188505	0,442805664	0,733835879	0,724547915
<i>Guca2a</i>	1,035795197	0,643971584	0,555808354	0,7538298	0,605090109
<i>Synpo2l</i>	1,153017543	0,665412982	0,531200885	0,697257081	0,625983196
<i>Aanat</i>	1,383652825	0,61439223	0,628678662	0,374772204	0,803137549
<i>Ccdc78</i>	1,474428875	0,689907495	0,548156937	0,504704004	0,730727581
<i>Kis2</i>	1,461224841	0,517759374	0,548487563	0,708662361	0,797480414
<i>Iscu</i>	1,373216854	0,717756617	0,696436494	0,506601628	0,748368494

<i>Atp1a3</i>	1,421414891	0,802521479	0,714778162	0,591534515	0,66697572
<i>Cyp11b2</i>	1,380831333	0,516651921	0,739062006	0,641246472	0,571122729
<i>Pld6</i>	1,198828518	0,775904093	0,42844725	0,329024534	0,980656792
<i>Sac3d1</i>	1,383625757	0,750614483	0,26735195	0,19187049	0,852651932
<i>2610306M01Rik</i>	1,406180139	0,577440033	0,625429228	0,137536562	0,858033321
<i>Syt6</i>	1,163920019	0,616459037	0,579377636	0,297646117	0,638174404
<i>Mapk8ip1</i>	1,024554956	0,568927607	0,53943724	0,351246854	0,572050544
<i>Kcnk5</i>	1,025711973	0,586681835	0,736857123	0,266778211	0,665356218
<i>Vwce</i>	1,040474927	0,626354502	0,65426222	0,325743963	0,391420797
<i>Scube3</i>	1,005304998	0,605508115	0,713886883	0,226643597	0,420800365
<i>4931402G19Rik</i>	1,26317998	0,718105096	0,908952245	0,200313677	0,567551936
<i>Mrgpre</i>	1,117281485	0,642810373	0,63831833	0,5406159	0,385089807
<i>Ltbp4</i>	1,274904451	0,590716548	0,62029334	0,471622037	0,347817535
<i>Chst3</i>	1,275318283	0,682757436	0,770475201	0,502060816	0,423968656
<i>Cebpe</i>	1,332201037	0,71827503	0,734409077	0,600240388	0,439459354
<i>1700047M11Rik</i>	1,232320942	0,743753936	0,641138174	0,449897587	0,406920205
<i>Mab21l3</i>	1,267666067	0,750715129	0,685552695	0,457831898	0,48688913
<i>Cyp11b1</i>	1,262737722	0,75736001	0,61470755	0,384083381	0,494915513
<i>Ganc</i>	1,208346972	0,778360426	0,643811235	0,343323809	0,352061354
<i>Wisp3</i>	1,122236945	0,818641994	0,732442523	0,415381673	0,427488386
<i>Bcat1</i>	1,162898279	0,814175369	0,706514235	0,500110106	0,418761213
<i>1810041L15Rik</i>	1,070575051	0,722399857	0,744152228	0,484946444	0,475249519
<i>Il17re</i>	1,193633732	0,779831287	0,573645431	0,498535303	0,166149358
<i>Sec31b</i>	1,128666597	0,678956526	0,593557808	0,444395045	0,18477048
<i>Slc7a11</i>	1,167893699	0,687826669	0,489888611	0,368703708	0,226353104
<i>Osbpl1a</i>	1,017612553	0,768360855	0,609306747	0,380524954	0,289821607
<i>Camkv</i>	1,186361643	0,529078428	0,44616953	0,372004746	0,613720425
<i>Acbd7</i>	1,104697648	0,423983148	0,39627731	0,364482702	0,554217317
<i>Gm6320</i>	1,172892671	0,62474515	0,451189594	0,366984227	0,415194109
<i>Parvb</i>	1,081906662	0,596318746	0,590183603	0,469653595	0,477105156
<i>Pkig</i>	1,000686451	0,627503629	0,553526383	0,495866456	0,490887789
<i>1110058L19Rik</i>	1,016503783	0,514614893	0,511268201	0,537789097	0,411423262
<i>Tdrd1</i>	1,02348855	0,76012458	0,304097135	0,428327942	0,622350366
<i>Gh</i>	1,13618456	0,64894684	0,287330568	0,176718927	0,432267649
<i>Sdc4</i>	1,110052007	0,60278344	0,421929497	0,148232593	0,355409095
<i>Slc45a3</i>	1,007673676	0,538017594	0,405256878	0,074855215	0,536897623
<i>Lypd2</i>	1,318622853	1,032553643	-0,468483653	-0,305583646	0,236582301
<i>Gpr27</i>	1,233207005	0,89581586	-0,530103931	-0,038380791	-0,49419847
<i>Cxx1c</i>	1,2469941	1,207897461	-0,005782963	-0,36517501	0,465210392
<i>Lor</i>	1,298716192	-0,015971668	0,007508525	0,21513228	-0,101012349
<i>Ltb4r2</i>	1,41868426	0,152073544	-0,425865458	-0,056816403	-0,483603232
<i>Xlr5c</i>	1,160452858	-0,335315797	0,256295843	-0,701554571	-0,708996674
<i>Nog</i>	1,29088323	0,136840784	0,166109535	-0,460273159	-0,137735534
<i>Xlr5b</i>	1,113400334	-0,554831707	0,030185247	-0,392926427	-0,104955056
<i>9930005F22Rik</i>	1,433959717	0,159680225	0,034742074	0,14574205	0,203193912
<i>Kif12</i>	1,441753768	0,173954814	-0,076219837	-0,136190979	0,312166126
<i>H2-BI</i>	1,001223704	0,265855999	0,012607063	-0,256156598	-0,503143985
<i>Rtn4r</i>	1,007579964	0,315025676	0,054415029	0,039636502	-0,106461029
<i>Gltpd2</i>	1,122171187	0,355331339	-0,0580801	-0,32641762	0,137931008
<i>Gfi1b</i>	1,115505071	0,364270553	0,319009822	-0,127887431	0,048410176
<i>Nwd1</i>	1,13995077	0,420726397	0,31534818	-0,014642042	0,025020935

<i>Hmgcs2</i>	1,154804366	0,354938702	0,33962522	0,103875331	-0,151653007
<i>Olfr543</i>	1,152520591	0,241603499	0,402992576	-0,173690542	-0,159570455
<i>Tomm40l</i>	1,019117894	0,301564466	0,407397065	0,298503758	0,333093139
<i>Ptges</i>	1,006657674	0,423322613	0,241965731	0,259868444	0,358095558
<i>6430571L13Rik</i>	1,041473097	0,459642293	0,353394136	0,153241417	0,308340073
<i>Espnl</i>	1,099148967	0,325303544	0,393124945	0,147788682	0,240960436
<i>Rgl3</i>	1,256834564	0,272934872	0,255095754	0,267258086	0,251834118
<i>2410017I17Rik</i>	1,405523701	0,497669484	0,431318211	0,372540946	0,381121611
<i>2610109H07Rik</i>	1,346677839	0,568182663	0,462681082	0,232264232	0,259433446
<i>Gpr156</i>	1,053826422	0,555563309	0,434763891	0,222032386	0,113212381
<i>Acsf3</i>	1,150824428	0,511030505	0,400297046	0,193287147	0,156782158
<i>Pde10a</i>	1,030954191	0,483538684	0,329843427	0,203318655	0,032082373
<i>Rnf222</i>	1,176079788	0,543028181	0,292809375	0,266012596	0,208248062
<i>Lcn6</i>	1,132566716	0,508469469	0,345898515	-0,050666409	0,153478009
<i>Trim29</i>	1,187104918	0,639044865	0,284478703	0,031109315	0,108378221
<i>Fam159b</i>	1,291003204	0,507680676	0,550504862	0,184150552	-0,100579828
<i>Vmn2r35</i>	1,759849146	-0,481012472	0,26592269	-0,999830918	-0,795559046
<i>Gm5464</i>	1,638860031	-0,203672325	0,263734739	-0,274635472	0,202748853
<i>5730577I03Rik</i>	1,869099238	0,300565	0,365305702	0,063951319	0,174595952
<i>Pfn1</i>	1,885181462	0,773433639	0,422111414	-1,149228458	-1,197865009
<i>1700012D01Rik</i>	1,722612267	0,800494146	0,520765145	-0,416811483	0,162668962
<i>Pole3</i>	1,061526179	-0,511633115	0,317507989	0,015742615	0,489015154
<i>Cdkn1a</i>	1,094759675	0,050305186	0,335483395	0,268261068	0,633025196
<i>Gpr30</i>	1,112599737	0,358967786	0,497543665	0,103119536	0,445693884
<i>Podn</i>	1,045348283	0,279631436	0,365008923	0,153032239	0,503378608
<i>Slc35e4</i>	1,086186637	0,274689106	0,471818792	-0,140077802	0,693469463
<i>Tubb3</i>	1,188017024	0,256506946	0,764889242	0,098472736	0,963453661
<i>Timm13</i>	0,877578418	0,031706649	0,629180201	-0,890254333	1,007412093
<i>Gnb3</i>	1,09136042	0,364100946	0,511874527	0,470210819	0,332879142
<i>Rccd1</i>	1,245424667	0,400894405	0,628547632	0,386880113	0,437181664
<i>Pdcd2l</i>	1,000796603	0,317249291	0,622382544	0,499280043	0,497347577
<i>1700110C19Rik</i>	1,038377614	0,460871856	0,714065662	0,452563944	0,469752915
<i>C1ql4</i>	1,030288054	0,016448223	0,45244053	0,537518147	0,550473833
<i>2510003D18Rik</i>	1,236728078	0,470076087	0,203126458	0,55983281	0,76676967
<i>Hist2h3c1</i>	1,241734014	0,253500536	1,161075138	0,614409023	0,793099877
<i>Mafa</i>	1,604625524	0,142738752	1,1348607	0,475788731	0,805745574
<i>Ankle1</i>	1,182441842	0,242709334	0,7526657	0,634859167	0,606153305
<i>BC029214</i>	1,223048148	0,029473688	0,921346824	0,787856431	0,672761228
<i>Gm6682</i>	1,105460037	0,137813682	0,828402851	-0,719062401	0,476121385
<i>Socs1</i>	1,138230795	0,22141355	0,908243199	-0,061381652	0,61728293
<i>1110017F19Rik</i>	1,529626644	0,242435528	0,99881583	-0,043369589	0,402527424
<i>Hrh3</i>	1,344896405	0,495568116	0,715528997	0,184480811	0,283285916
<i>Mrgprg</i>	1,374643371	0,356702771	0,738680895	-0,114030252	0,341617076
<i>Gzma</i>	1,225708835	0,547646779	0,66175966	0,079602792	0,321579027
<i>Wnk2</i>	1,200766147	0,470542622	0,570299595	0,101514197	0,41505025
<i>1700029P11Rik</i>	1,023556815	-0,34923827	0,672192106	-0,45136214	0,043262992
<i>Lrfn4</i>	1,14832188	0,555207598	0,387451768	0,924275182	0,98672076
<i>Lrrc45</i>	1,007677932	0,406781347	0,544663756	0,845626243	1,072234104
<i>Rpp21</i>	1,000786213	0,554942971	0,644783293	0,836782856	0,835016572
<i>Hoxa7</i>	1,067563754	0,52991528	0,572868378	0,84934589	0,63328855
<i>Tnnc2</i>	1,036350912	0,357383864	0,641142227	0,963921592	0,697760287

<i>Prr2</i>	1,077623414	0,692594414	0,788791482	0,987776479	1,164942838
<i>Z810006K23Rik</i>	1,052761167	0,604157244	0,882109913	0,904856919	1,176847654
<i>Itgam</i>	1,180329699	0,73201128	0,805677792	0,855008833	1,120341996
<i>Gm3230</i>	1,129884697	0,391330745	0,806668326	0,977625529	1,119710301
<i>Car11</i>	0,880760414	0,638962473	0,630267453	0,92790901	1,028706927
<i>Angptl6</i>	0,882993409	0,568089575	0,716512146	0,950724481	1,010720744
<i>Thoc6</i>	1,035749257	0,582434714	0,780441811	1,015474797	0,992002245
<i>Crip2</i>	1,032585807	0,558520751	0,712800359	1,135710617	1,071097808
<i>Tha1</i>	1,075619815	0,519803181	0,711232737	1,102028587	1,132703612
<i>F2rl2</i>	0,982944832	0,642221573	0,712708618	1,12401464	1,191990286
<i>Pdf</i>	1,518751569	0,266030649	0,53595834	1,116772476	1,140043865
<i>Z010001M06Rik</i>	1,254419661	0,120516194	0,836515315	1,330133242	0,909803004
<i>Tusc1</i>	1,352648842	-0,006416271	-0,021689469	0,778884611	1,172684926

Cluster 5					
Intragenic 5hmC (log2 CMS-IP/Input)					
Gene symbol	DP	CD4 SP	CD8 SP	naïve CD4	naïve CD8
<i>Npw</i>	0,866460018	-0,022867889	1,582037553	0,165103004	0,725713275
<i>Tmem107</i>	1,031723714	0,278149933	1,508816361	0,135041594	0,942714393
<i>Elof1</i>	0,501393707	0,372784311	1,60595263	-0,134218477	0,673694912
<i>Tppp2</i>	0,536193238	0,732137573	1,147221551	0,402735721	0,342514221
<i>Krt24</i>	0,592458239	0,651558582	1,01029578	0,386591468	0,427715643
<i>Lpar6</i>	0,335356745	0,23714321	1,095218387	0,47437323	0,309847294
<i>Gm3264</i>	-1,50227093	-0,117780831	1,27505239	-5,049556714	-0,923851679
<i>Gm10408</i>	0,174226685	-0,511824	1,035391652	-0,606468875	-0,602155527
<i>Nkg7</i>	-0,224550139	-0,393087354	1,408657061	-0,666034833	0,668145891
<i>Gm10731</i>	0,180213817	-0,021342598	2,556563194	0,925175985	1,020105087
<i>Gm5071</i>	-0,606572773	1,801203706	3,473033553	-0,886116132	-1,188767731
<i>Gm14685</i>	-2,379928652	0,463008843	2,600738363	-1,780499086	0

Cluster 6					
Intragenic 5hmC (log2 CMS-IP/Input)					
Gene symbol	DP	CD4 SP	CD8 SP	naïve CD4	naïve CD8
<i>Sub1</i>	0,469281964	1,516062842	1,529968245	1,394425749	1,32337901
<i>Myst4</i>	0,601885195	1,442982231	1,51028172	1,404238992	1,364297067
<i>Rbms2</i>	0,649391542	1,556734097	1,445212009	1,26121799	1,185220912
<i>Man1a</i>	0,719104312	1,307739727	1,466202348	1,342228501	1,486033279
<i>Med7</i>	0,611542001	1,240938197	1,429804356	1,339900202	1,454859311
<i>Actr1a</i>	0,696823918	1,313549874	1,399648259	1,255478316	1,446605716
<i>Klc1</i>	0,677210487	1,316575751	1,327090494	1,298087731	1,450750756
<i>Fkbp11</i>	0,700826723	1,392043026	1,422826193	1,402207069	1,360218939
<i>Mrps6</i>	0,674460687	1,347720538	1,397395936	1,300325395	1,343873331
<i>Nek7</i>	0,522019015	1,31279036	1,380187824	1,4073177	1,484111428
<i>Mapk1</i>	0,488474178	1,304842808	1,420685425	1,354850453	1,451792552
<i>Tet1</i>	0,539719687	1,377120186	1,474466009	1,413334259	1,47809019
<i>Ppm1a</i>	0,587020672	1,266109774	1,341693403	1,374642435	1,493619171
<i>Reps1</i>	0,546693377	1,289357646	1,310144258	1,395435934	1,439953065
<i>Mat2a</i>	0,562401381	1,227478584	1,359879742	1,388810122	1,321880417
<i>Mynn</i>	0,545302707	1,232384925	1,444708624	1,326463342	1,286759983
<i>Myeov2</i>	0,487348691	1,500921712	1,186516486	1,649038353	1,169433664
<i>Ap2a2</i>	0,413869178	1,492888398	1,232393497	1,635887851	1,275708222

<i>Gm11981</i>	0,587032411	1,4201671	1,144041484	1,73850139	1,241331943
<i>Znr1</i>	0,718048662	1,43792884	1,346727234	1,722730956	1,257144455
<i>Rab1b</i>	0,736874362	1,429638374	1,313253175	1,637476115	1,209841387
<i>Zer1</i>	0,600965097	1,480058789	1,287023216	1,451205309	1,440188782
<i>Rnf122</i>	0,609522332	1,447490065	1,295285753	1,485693712	1,43265569
<i>Ext1</i>	0,639762659	1,532241644	1,365835015	1,479156691	1,33262286
<i>Ppa2</i>	0,613464132	1,422830404	1,245181169	1,453287849	1,294884199
<i>Zcchc10</i>	0,788171067	1,545982926	1,105816969	1,43169441	1,326628103
<i>Tmem154</i>	0,920442505	1,535303395	1,440441012	1,383339448	1,306364542
<i>Stim2</i>	0,914356273	1,508926466	1,479592556	1,376809235	1,40257689
<i>Rbm4b</i>	0,765167974	1,487920852	1,429152639	1,44411406	1,253301208
<i>Ccdc109a</i>	0,958647551	1,496370301	1,253464444	1,384935386	1,149539887
<i>Mical3</i>	1,053458685	1,597151686	1,344374123	1,499293774	1,201097406
<i>Ccrl2</i>	1,026089195	1,386649875	1,297603177	1,425843597	1,240385543
<i>Tbc1d30</i>	1,037400687	1,398039307	1,304379613	1,589053642	1,252898171
<i>Arl8a</i>	0,921986019	1,263555805	1,239063328	1,472519827	1,221789657
<i>Ip6k2</i>	0,915108051	1,623399061	1,233414741	1,225948756	1,341400039
<i>Wfikkn1</i>	1,051331376	1,508469576	1,243627079	1,214721189	1,406178608
<i>1700020M21Rik</i>	0,868499191	1,481469313	1,393570172	1,137403734	1,271501993
<i>Cry1</i>	0,960249338	1,459604902	1,384762445	1,184732844	1,30676361
<i>Il12rb2</i>	0,863006765	1,426069294	1,430588747	1,196532289	1,36765694
<i>Il10ra</i>	0,762292122	1,72062392	1,406366535	1,584358733	1,35371184
<i>5730419I09Rik</i>	0,776908138	1,603506327	1,365083886	1,601804882	1,295393263
<i>Tspan32</i>	0,951583522	1,586475838	1,423399179	1,555875625	1,411577288
<i>Gsdmd</i>	0,887019315	1,62672637	1,33263729	1,524790747	1,475448006
<i>Fam136a</i>	0,961872175	1,753508428	1,244602232	1,521344877	1,260496364
<i>Rgs2</i>	1,007950624	1,737461171	1,317813886	1,629076473	1,294527222
<i>Bzw2</i>	0,931875549	1,684650624	1,56211407	1,492121917	1,412163623
<i>Sall2</i>	0,922214924	1,779571002	1,455703267	1,508191309	1,370250581
<i>RbmX</i>	1,109613044	1,723603076	1,363803017	1,427691111	1,452912965
<i>Bri3</i>	0,63422418	1,353964417	1,122761017	1,83422207	1,452415476
<i>Pygo2</i>	0,851137704	1,499171232	1,191020651	1,80214076	1,470233341
<i>Vipr1</i>	0,76083124	1,284477745	1,122447632	1,751200226	1,615563054
<i>Gm15008</i>	0,87419901	1,402404952	1,162060459	1,756970105	1,682877365
<i>Fermt3</i>	0,814361273	1,181640939	1,288610623	1,609000305	1,481105767
<i>Vhl</i>	0,885354861	1,277442818	1,317423273	1,645907661	1,399448787
<i>Izumo1</i>	0,847032551	1,223604365	1,303645633	1,799783415	1,315860186
<i>Slc41a3</i>	0,801224818	1,42300489	1,451536339	1,518754215	1,568551045
<i>Stub1</i>	0,784024052	1,410321735	1,417488912	1,532997587	1,497496942
<i>Psip1</i>	0,701234069	1,328254109	1,479034092	1,487479181	1,529743135
<i>Casc3</i>	0,892946146	1,319188398	1,492765886	1,565052257	1,564034384
<i>Batf</i>	0,877323375	1,310731838	1,449318188	1,601318481	1,580323889
<i>Trappc6b</i>	0,873308454	1,342895713	1,484156834	1,534982751	1,650286939
<i>Sdcbp</i>	0,640799751	1,251239802	1,54004926	1,455738756	1,588919486
<i>Rnf10</i>	0,68159816	1,233059985	1,491808138	1,438011875	1,65182345
<i>Serinc4</i>	0,658684423	1,205327327	1,542433616	1,581122249	1,534643087
<i>Fubp1</i>	0,512194065	1,451939444	1,483584072	1,681285148	1,528512229
<i>Vrk1</i>	0,528779224	1,532987202	1,440877709	1,633742116	1,528782862
<i>Mapkapk3</i>	0,586027514	1,41543877	1,338090602	1,632331707	1,455707812
<i>Pgrmc2</i>	0,586284587	1,412719945	1,261009019	1,660625746	1,422494869
<i>Ddit3</i>	0,692360316	1,557871767	1,395796132	1,53747683	1,485658674

<i>Klhl6</i>	0,596941591	1,567385431	1,326317724	1,607015519	1,503031902
<i>Atp2b1</i>	0,498077735	1,453642428	1,499813976	1,486570954	1,648841582
<i>Raly</i>	0,484564981	1,410405543	1,555346307	1,459583667	1,635287221
<i>Eif4b</i>	0,49991054	1,352539169	1,572145193	1,498484131	1,684314925
<i>Srrm1</i>	0,501282772	1,374223534	1,503747659	1,494158039	1,604499394
<i>Kcmf1</i>	0,524003643	1,312625274	1,473043064	1,532479729	1,580846695
<i>Bclaf1</i>	0,467878709	1,363620671	1,474869066	1,500188889	1,699456346
<i>Csnk1d</i>	0,500077397	1,368101491	1,448544677	1,426543095	1,698978278
<i>Stxbp3a</i>	0,5462176	1,3701809	1,396135923	1,473300725	1,663426745
<i>Rbx1</i>	0,559913073	1,277727042	1,477830065	1,460034798	1,727301568
<i>Mtif3</i>	0,554622583	1,368816992	1,413419283	1,546355553	1,708896031
<i>Add1</i>	0,570112576	1,31090958	1,360387838	1,56829415	1,693829786
<i>Hnrnpul2</i>	0,501088775	1,260655939	1,457395083	1,604078121	1,705318069
<i>Zfp592</i>	0,686735641	1,439046794	1,425227138	1,520371168	1,643021894
<i>Plagl2</i>	0,659899358	1,471055968	1,448492918	1,485563945	1,648840038
<i>Sp1</i>	0,530003588	1,485412733	1,374413504	1,533523384	1,633264094
<i>Nab1</i>	0,525373335	1,51297052	1,503904567	1,546650854	1,684158342
<i>Mex3c</i>	0,565675173	1,54471392	1,556747687	1,538424407	1,591457138
<i>C430048L16Rik</i>	0,520567387	1,356979464	1,365330794	1,309370855	1,58173725
<i>Lrch3</i>	0,561365336	1,355716112	1,422294032	1,33518798	1,635122628
<i>Trim13</i>	0,574722408	1,467649411	1,360223767	1,3574895	1,658290222
<i>Dnmt3a</i>	0,667364696	1,29414767	1,662017748	1,323096211	1,659786096
<i>Ilf3</i>	0,671639523	1,369828485	1,662080587	1,364839483	1,602646983
<i>Chic2</i>	0,558574133	1,340318776	1,630733251	1,338728702	1,649859652
<i>Creb1</i>	0,704349647	1,344355221	1,497998837	1,339079907	1,605288011
<i>Gnai3</i>	0,690685907	1,335120839	1,497155738	1,332335054	1,578973624
<i>Gnb1</i>	0,702367574	1,430889278	1,522111041	1,322829459	1,515999572
<i>Pttg1ip</i>	0,8066947	1,389808091	1,46236482	1,411651726	1,640476603
<i>Cnot3</i>	0,74398291	1,328886299	1,425938193	1,408704167	1,676688591
<i>Lman2</i>	0,781702474	1,333678453	1,462476579	1,458581698	1,741508051
<i>Fbxo28</i>	0,782165184	1,313809851	1,493737732	1,427966575	1,745750314
<i>Vps37c</i>	0,771659114	1,291111261	1,484288509	1,473991491	1,66646627
<i>Sf3b2</i>	0,711760662	1,369890881	1,494430923	1,46066992	1,669160544
<i>Acap2</i>	0,708319458	1,393435272	1,496178602	1,423620906	1,731443713
<i>Crk</i>	0,715984129	1,313058833	1,529509903	1,408046669	1,702481267
<i>Wbp7</i>	0,619792622	1,357185796	1,551349114	1,440362897	1,670390991
<i>Kras</i>	0,551705672	1,312610153	1,190692601	1,401678468	1,390855864
<i>Mxd1</i>	0,556101977	1,322569897	1,238173338	1,389761071	1,471326472
<i>Pgap2</i>	0,571524435	1,271391162	1,149884887	1,260843284	1,492742857
<i>2010109K11Rik</i>	0,54390897	1,329594124	1,304494756	1,281969871	1,458663387
<i>1700012D14Rik</i>	0,466036778	1,377705455	1,294567612	1,258143831	1,434729167
<i>Chchd8</i>	0,4762895	1,338746448	1,24077014	1,272153151	1,514334116
<i>Ypel5</i>	0,457089054	1,190056907	1,339220988	1,439691046	1,531741052
<i>Usp15</i>	0,48236092	1,244509494	1,376753984	1,386907576	1,533053278
<i>Slc26a2</i>	0,507705764	1,267028836	1,32880598	1,390853616	1,62767891
<i>Mzt1</i>	0,526251874	1,263028037	1,334038435	1,471637382	1,607583999
<i>Cox17</i>	0,572618795	1,213182379	1,267500071	1,317146148	1,582732033
<i>Dock8</i>	0,551867659	1,208608976	1,29973972	1,355617931	1,520985762
<i>Hectd1</i>	0,512386111	1,190862384	1,296942698	1,3087093	1,593677246
<i>Cdc37</i>	0,495695221	1,151702435	1,258353577	1,336771275	1,592582366
<i>Gm1332</i>	0,386606031	1,406609287	1,141006762	1,543423144	1,602655066

<i>Romo1</i>	0,324205119	1,307925574	1,107347223	1,423087829	1,677123426
<i>Arid4a</i>	0,577684774	1,229397618	1,381263186	1,496962265	1,6178029
<i>Rbms1</i>	0,587337183	1,23278209	1,346979451	1,44293208	1,659197691
<i>Bag6</i>	0,639916724	1,28864985	1,285475127	1,495407561	1,616770951
<i>B430306N03Rik</i>	0,560287594	1,248265632	1,306345418	1,587027718	1,667001854
<i>Gatc</i>	0,595353075	1,32867572	1,311526444	1,512981421	1,469722822
<i>Txk</i>	0,581987304	1,269280195	1,29865192	1,49567096	1,484096557
<i>Ctdnep1</i>	0,583874933	1,310245483	1,312152254	1,450405816	1,508861059
<i>Fbxo33</i>	0,566943219	1,312696471	1,397145336	1,563897972	1,520782463
<i>Tead2</i>	0,641196294	1,201483982	1,323834959	1,390486651	1,542418085
<i>Atf1</i>	0,610385299	1,220485229	1,287579052	1,41404179	1,544695946
<i>Txn14a</i>	0,620512711	1,222837316	1,322132083	1,467790918	1,565619755
<i>Spnb2</i>	0,653271326	1,159377754	1,341909379	1,496658699	1,519347493
<i>Mpv17l2</i>	0,646076378	1,384185657	1,149435412	1,607277127	1,484388412
<i>Snx21</i>	0,63096686	1,199414673	1,124432742	1,555153522	1,513091965
<i>Ccni</i>	0,348550433	1,274507153	1,466351644	1,429473073	1,499866003
<i>Dhx15</i>	0,313876716	1,208120628	1,470547022	1,405855638	1,573825114
<i>Rsrc2</i>	0,316912793	1,325791793	1,403851573	1,402811815	1,652786404
<i>Scaf8</i>	0,378572197	1,291083675	1,464058024	1,438107333	1,616014619
<i>Slc2a1</i>	0,44751366	1,269878122	1,394274407	1,46765884	1,707727458
<i>Poldip3</i>	0,436931209	1,294371816	1,359237072	1,391842393	1,686774206
<i>Mll5</i>	0,416307871	1,277133465	1,393637703	1,542433462	1,665231985
<i>Gdi2</i>	0,441848546	1,315462667	1,372816048	1,530496928	1,642799728
<i>Ubl3</i>	0,400324962	1,316915831	1,359140527	1,4928222	1,677567564
<i>Ctss</i>	0,380696419	1,211263722	1,292413646	1,535123433	1,506320678
<i>Morc3</i>	0,334035346	1,183200991	1,398933056	1,517400926	1,616806436
<i>Bbip1</i>	0,413726374	1,207519208	1,279161475	1,649106026	1,624846822
<i>Pomp</i>	0,426066825	1,513431995	1,224074658	1,407635673	1,498566848
<i>Cab39</i>	0,438836749	1,476588135	1,399774645	1,411870299	1,499696291
<i>Xpo6</i>	0,389077468	1,327123913	1,32787026	1,440831815	1,447664861
<i>Rprd2</i>	0,409047755	1,332524926	1,380273979	1,441987618	1,450563421
<i>Suv420h1</i>	0,448748296	1,305846617	1,344273957	1,345819104	1,411429033
<i>Pdia3</i>	0,323726109	1,320993515	1,329581774	1,44359491	1,334049769
<i>Ptplad1</i>	0,368468207	1,351169952	1,327765555	1,420651569	1,318882639
<i>Psm3</i>	0,600908371	1,226850176	1,404956473	1,300511061	1,758060728
<i>Tcp11l2</i>	0,614806071	1,135528248	1,415109665	1,254185579	1,748815399
<i>Snrpd1</i>	0,548910677	1,131293835	1,514213989	1,328821878	1,699882254
<i>Tmub2</i>	0,474294167	1,140205919	1,429625747	1,177062654	1,764608339
<i>Pde12</i>	0,472414318	1,102697381	1,379629066	1,284685201	1,730167412
<i>2010107H07Rik</i>	0,59222735	1,138106723	1,417400284	1,190758754	1,603456449
<i>Akirin2</i>	0,53609459	1,126119896	1,39370552	1,220931922	1,557862654
<i>Nck1</i>	0,56371481	1,149005265	1,431197436	1,277536229	1,601114211
<i>Ube2r2</i>	0,496788946	1,213652299	1,458361588	1,328185184	1,567238654
<i>Gba2</i>	0,533896481	1,278247486	1,443221295	1,283977916	1,555963799
<i>Ube2i</i>	0,610829903	1,256363432	1,574260705	1,152839933	1,707897371
<i>1810026J23Rik</i>	0,65337064	1,228440677	1,652537823	1,140938033	1,592227251
<i>Reep2</i>	0,590540886	1,29049295	1,442936858	1,004094078	1,657756466
<i>Dedd</i>	0,546664094	1,243258779	1,268028644	1,11686898	1,472283341
<i>Tex261</i>	0,553507461	1,266836997	1,32885423	1,111971409	1,552988024
<i>Lrrc58</i>	0,45457672	1,208819562	1,343512275	1,184063355	1,47060125
<i>Sfxn3</i>	0,597534657	1,199929456	1,242373145	1,23266962	1,427941165

<i>Bdh1</i>	0,626131905	1,238177418	1,273064289	1,232999526	1,462361021
<i>Snx5</i>	0,6825585	1,17415084	1,268794143	1,269568318	1,459991752
<i>Nmt1</i>	0,594860094	1,193547304	1,371340069	1,241889378	1,492491677
<i>Gsk3b</i>	0,611494428	1,190310254	1,373617472	1,235574309	1,39978652
<i>Csrnp2</i>	0,708691246	1,221423894	1,326695889	1,195316815	1,429947984
<i>Tbpl1</i>	0,643475813	1,206098127	1,326069944	1,18568082	1,424350165
<i>Axl</i>	0,788896895	1,143265967	1,464726721	1,118321651	1,402693703
<i>Mosc2</i>	0,795767829	1,134271802	1,441608742	1,219623862	1,428418232
<i>D930015E06Rik</i>	0,794218055	1,212255815	1,514465542	1,133969867	1,494750618
<i>Prrc2c</i>	0,689108094	1,25293779	1,438244895	1,233616311	1,491782821
<i>Dip2b</i>	0,736088091	1,22264988	1,395262243	1,163858159	1,43379362
<i>Ing4</i>	0,740827135	1,211591543	1,366022896	1,143188887	1,564664853
<i>Map4k1</i>	0,692306089	1,202301686	1,399522833	1,108460352	1,499707574
<i>Ndufa4l2</i>	0,711172453	0,908731193	1,382925223	1,485951054	1,521644498
<i>4930507D05Rik</i>	0,755204287	0,902267896	1,311809679	1,573009209	1,421935333
<i>1700123O20Rik</i>	0,80984544	1,019945611	1,391827294	1,484410822	1,366737705
<i>Prr3</i>	0,675630869	0,959778903	1,223053813	1,414649146	1,474739499
<i>Usf2</i>	0,621532124	1,026234525	1,240573607	1,399353115	1,458643268
<i>Ttc36</i>	0,737556974	0,914520662	1,243629838	1,408912267	1,387268135
<i>Polr2d</i>	0,756852174	0,944177115	1,264848599	1,400839312	1,384860114
<i>Rps7</i>	0,57979749	1,038396342	1,38453165	1,404735126	1,554207977
<i>Cebpg</i>	0,566525603	1,072791464	1,312588714	1,410441391	1,569493257
<i>Stk11</i>	0,690455346	1,020677815	1,361500033	1,354558379	1,476341775
<i>2410003K15Rik</i>	0,698775404	1,008135097	1,383552622	1,36220359	1,4810695
<i>Ccnt1</i>	0,54360432	1,136443572	1,4632822	1,366875098	1,496655864
<i>Dnajc8</i>	0,615790593	1,15160169	1,440387963	1,332968521	1,463551516
<i>Sumo3</i>	0,615569442	1,060032116	1,466206214	1,458483667	1,4256095
<i>9430008C03Rik</i>	0,67981495	0,850480283	1,34533596	1,348809298	1,653346828
<i>2310044H10Rik</i>	0,705355404	0,876506013	1,221568783	1,294394738	1,672922159
<i>Tmed2</i>	0,538503872	0,812639437	1,313089433	1,333572582	1,533281519
<i>Ovca2</i>	0,601753251	0,794471807	1,322854815	1,43936749	1,577233169
<i>Sbds</i>	0,617398754	1,110581352	1,277372156	1,303862869	1,373614212
<i>Ppp6r3</i>	0,564321441	1,104426355	1,308826557	1,224011303	1,326845656
<i>Scaf4</i>	0,528955076	1,140868372	1,240361087	1,269355377	1,422757472
<i>Stx16</i>	0,499646941	1,165617892	1,226317624	1,260714014	1,376878492
<i>Vdac2</i>	0,579421495	1,165689958	1,211887815	1,282347442	1,398232671
<i>N4bp1</i>	0,529553357	1,08475641	1,261782843	1,371775892	1,351497347
<i>Rabepk</i>	0,49383783	1,039372505	1,264206973	1,317534422	1,416384945
<i>Klhl2</i>	0,40709106	1,205342373	1,194098638	1,302976701	1,383708855
<i>Asap1</i>	0,461679634	1,253226398	1,236680617	1,354335408	1,393761219
<i>2400003C14Rik</i>	0,449997308	1,156349519	1,220345244	1,320215542	1,305795126
<i>Heca</i>	0,440903731	1,160799422	1,278718695	1,401646945	1,406861896
<i>Zfp1</i>	0,577905902	1,027702566	1,284162006	1,260099509	1,293104808
<i>Zfp748</i>	0,564184275	1,022343349	1,260980959	1,264214678	1,354628106
<i>Phf12</i>	0,516751311	1,035891422	1,240938292	1,196318666	1,312026404
<i>Vapb</i>	0,55184983	1,052367462	1,251504299	1,193778389	1,299333302
<i>Zfp212</i>	0,47618303	1,014868341	1,362910942	1,281826241	1,284001851
<i>Smarca2</i>	0,517386135	1,130203074	1,300954132	1,169914485	1,412797514
<i>Tsr1</i>	0,57898789	1,098590858	1,342799324	1,225496726	1,427370183
<i>Kansl1</i>	0,467346961	1,13876447	1,332197552	1,29658287	1,382985409
<i>Zfp148</i>	0,46419501	1,151492314	1,342094285	1,269519856	1,398147094

<i>Snopc3</i>	0,506020709	1,118873736	1,343576055	1,290752314	1,359710992
<i>Z810002N01Rik</i>	0,600991517	0,987215917	1,206840945	1,310460356	1,406478802
<i>Nfya</i>	0,579340943	1,065442044	1,188842612	1,303010684	1,400711108
<i>Eif4g1</i>	0,687940004	1,047016482	1,140020211	1,371688572	1,383094883
<i>Mdh2</i>	0,569765652	1,065893832	1,185736213	1,359109755	1,245240045
<i>Nrbp1</i>	0,578251825	1,03288163	1,137180509	1,32497911	1,276083898
<i>Kat2b</i>	0,591704239	1,093805851	1,114574182	1,319362503	1,339093623
<i>Nup50</i>	0,453170886	1,034219519	1,228815379	1,311901458	1,55233212
<i>Tmed10</i>	0,496794071	1,108548074	1,242135297	1,352266731	1,545543625
<i>Twf1</i>	0,445959106	1,099058058	1,191629221	1,414251141	1,519494323
<i>Nufip2</i>	0,372471994	1,109102346	1,338901506	1,373700091	1,516033813
<i>Akap8</i>	0,381835115	1,088370603	1,315841548	1,355646747	1,548690335
<i>Epn1</i>	0,538854146	0,98857867	1,277283032	1,367497501	1,486899469
<i>Ntan1</i>	0,459514941	0,964755084	1,219804177	1,387919332	1,464386502
<i>Atp6v0e</i>	0,481728841	1,053927749	1,103470426	1,334364089	1,417237563
<i>Cmas</i>	0,497991918	1,077387612	1,168196326	1,274562474	1,388717441
<i>Btbd1</i>	0,436938686	1,058671304	1,119524151	1,212986878	1,475695349
<i>Stim1</i>	0,467012199	1,063940852	1,135930731	1,281750705	1,524601297
<i>Trim12c</i>	0,440733811	1,027541678	1,214862525	1,224467103	1,382119617
<i>Nrbf2</i>	0,501704175	1,026809435	1,229848786	1,2206901	1,418354677
<i>Whsc1l1</i>	0,485334315	1,063045139	1,09960621	1,399527296	1,572784841
<i>Polr3c</i>	0,549556915	0,987729139	1,146561802	1,361534046	1,598639951
<i>Zdhhc20</i>	0,442866901	1,056715029	1,161442228	1,392894881	1,592850438
<i>Zfp84</i>	0,431528712	1,015507816	1,215815151	1,400486607	1,626049972
<i>Pprc1</i>	0,512552877	1,08737729	1,204722044	1,430053876	1,814439275
<i>Puf60</i>	0,568851405	1,071036484	1,241678554	1,394237313	1,818317749
<i>Snx4</i>	0,526490658	1,147950866	1,264296691	1,447470153	1,804404117
<i>Rpl11</i>	0,584516728	1,109700331	1,240012264	1,331784641	1,863413063
<i>Idnk</i>	0,537239618	1,26027786	1,24977098	1,268960135	1,798431575
<i>Eif3b</i>	0,511394537	0,946556984	1,402609683	1,239497578	1,759352997
<i>Bop1</i>	0,621924579	1,001706524	1,272441467	1,190340931	1,796418657
<i>Lax1</i>	0,512323807	0,970915108	1,257496161	1,351910652	1,813492869
<i>Ppp1r12c</i>	0,721887996	1,092852634	1,388996989	1,381582103	1,660928085
<i>Taf8</i>	0,740305253	1,094822932	1,486228412	1,415538392	1,63989476
<i>Hnrnpd</i>	0,678789203	1,123576132	1,424861654	1,382970312	1,549914349
<i>Ubqln2</i>	0,66344988	1,073640451	1,440478673	1,387367729	1,752553032
<i>Pde6h</i>	0,657002754	1,082706503	1,51698552	1,359840932	1,699172109
<i>Atxn7l3b</i>	0,651874854	1,0614238	1,303502809	1,26306346	1,605828068
<i>Gosr1</i>	0,70461224	1,11029852	1,331664053	1,269280761	1,71529975
<i>Capn1</i>	0,574112468	1,136626196	1,304849147	1,403360832	1,629183527
<i>Ppm1g</i>	0,63680078	1,186031966	1,32446813	1,363780895	1,698763245
<i>Raf1</i>	0,731874129	1,165919693	1,313456642	1,213486374	1,546793755
<i>Oasl1</i>	0,76854565	1,153518434	1,37739847	1,208585801	1,556639857
<i>Sec24c</i>	0,7111013435	1,171860974	1,329020828	1,27351164	1,609459754
<i>Ndst2</i>	0,833721369	1,100411534	1,351361208	1,203460578	1,660098381
<i>Lmf2</i>	0,858561848	1,168441869	1,317076629	1,24529284	1,681332779
<i>Fam120a</i>	0,759840606	1,226939079	1,389363794	1,310284549	1,558990306
<i>Olfir56</i>	0,746599021	1,184146555	1,410833007	1,294628049	1,620691761
<i>Fbxo21</i>	0,804575309	1,177920506	1,38588968	1,364546746	1,58616204
<i>Sbno2</i>	0,807454666	1,161745367	1,312321858	1,382145135	1,661271862
<i>Pgam1</i>	0,773380842	1,211386676	1,307423531	1,342901762	1,697804502

<i>Fau</i>	0,41813159	1,53630033	1,271407473	0,933874011	1,72420006
<i>Rbm12b</i>	0,37243345	1,617768456	1,187480286	1,158390211	1,799811163
<i>Klhdc4</i>	0,425273161	1,639379954	0,576752548	1,263640421	1,674755908
<i>Rps29</i>	0,876106715	1,441987218	1,076558999	1,353634675	1,876180679
<i>Gm19710</i>	0,987054035	1,549656595	1,156008903	1,480786706	1,813558907
<i>Kbtbd7</i>	0,958253996	1,640160497	0,687012074	1,236890095	1,841175216
<i>Trp53inp1</i>	0,896000237	1,269865551	1,369614522	1,192568172	1,203305847
<i>Mad2l1</i>	0,871110915	1,256883489	1,359422774	1,110012093	1,223502423
<i>Gsg1</i>	0,880786969	1,283893577	1,374784658	1,029787613	1,147371496
<i>Ublcp1</i>	0,849791394	1,246041998	1,207291011	1,107227724	1,197821089
<i>Osbpl11</i>	0,897720082	1,210752571	1,230991804	1,085232383	1,168051948
<i>Inpp1</i>	0,87292758	1,333378053	1,249563445	1,07277131	1,105779578
<i>Tmc4</i>	0,943125767	1,306155398	1,34477174	1,261326869	1,235226747
<i>Sertad2</i>	0,96557894	1,269850439	1,311688197	1,247711685	1,279548371
<i>Mfsd2a</i>	0,977372958	1,303768882	1,305394594	1,281742497	1,183079336
<i>Usp6nl</i>	0,72416437	1,36419786	1,278705502	1,229550433	1,226554281
<i>Rab22a</i>	0,743315825	1,382579321	1,312972962	1,275002618	1,269580119
<i>Fbxw11</i>	0,807747725	1,30513036	1,353642009	1,248731517	1,26416923
<i>Utp11l</i>	0,754403421	1,415062735	1,419265964	1,259246914	1,290566394
<i>Nr1h2</i>	0,783716927	1,396331472	1,258497504	1,189341442	1,359400753
<i>Dpysl2</i>	0,843150794	1,26528901	1,25984985	1,271107254	1,364677845
<i>Rybp</i>	0,808005522	1,247076222	1,215982068	1,220745091	1,369735434
<i>1300018J18Rik</i>	0,874303904	1,17561435	1,156603211	1,299815976	1,372600115
<i>Hdac10</i>	0,925297904	1,26802224	1,153919274	1,172530109	1,296330058
<i>2310067B10Rik</i>	0,957325945	1,244269582	1,165900754	1,171381849	1,338508702
<i>Diap1</i>	0,845882781	1,202604087	1,38143002	1,179812484	1,35322048
<i>Camk2g</i>	0,864408091	1,180247961	1,378911138	1,228165209	1,355738642
<i>Slc39a14</i>	0,933715868	1,210884833	1,287932586	1,16615665	1,317187806
<i>Akr1a1</i>	0,806837862	1,100500297	1,302457472	1,149495362	1,332724187
<i>Zeb1</i>	0,789757565	1,192316352	1,30679631	1,110519313	1,366108462
<i>Cox4i1</i>	0,751249802	1,209323038	1,32218801	1,327932061	1,381010791
<i>Ccdc47</i>	0,755677136	1,131104381	1,36333208	1,361034898	1,358684355
<i>Mapk14</i>	0,735393618	1,146788866	1,272051392	1,325955313	1,325031739
<i>Ppp2r1b</i>	0,682763634	1,231630461	1,304139586	1,326089069	1,251488498
<i>BC030336</i>	0,73442954	1,197382837	1,342150874	1,186190823	1,361067952
<i>Stx1b</i>	0,746662434	1,187458183	1,355756135	1,23508475	1,34215521
<i>Zfp644</i>	0,794206404	1,141194965	1,343711346	1,254274965	1,357278291
<i>Man2a1</i>	0,732172183	1,158751756	1,316472893	1,217344256	1,269784849
<i>Asf1a</i>	0,706172565	1,138545391	1,240949841	1,209360927	1,293268362
<i>Pcgf5</i>	0,731440941	1,121627207	1,21920822	1,218847878	1,36377242
<i>Ssu72</i>	0,646944226	0,995898232	1,082860543	1,140710541	1,348526831
<i>Fdxr</i>	0,653495822	1,033503026	1,110365393	1,086849925	1,318063348
<i>2310009A05Rik</i>	0,644429355	1,074092764	1,04495966	1,054740023	1,360083838
<i>Tmem63a</i>	0,688242068	1,081379215	1,09997229	1,180353365	1,403080437
<i>lqgap2</i>	0,616615823	1,002920237	1,066426809	1,213601309	1,307254805
<i>Tnpo1</i>	0,608774575	1,047696492	1,151413019	1,201437775	1,321557306
<i>Ifit2</i>	0,600950646	1,039148058	1,106486301	1,143277477	1,173460107
<i>Pfkfb4</i>	0,565702282	1,005058534	1,079817999	1,187619877	1,151636943
<i>Lpin1</i>	0,570409153	0,969980569	1,189334048	1,187098815	1,193162133
<i>Gm17745</i>	0,674182681	1,044312468	1,130324982	1,09861857	1,193809281
<i>Exoc2</i>	0,640522374	1,052695392	1,156563285	1,084248188	1,189448034

<i>Tnnt1</i>	0,699711632	1,013671317	1,171024205	1,138393632	1,143337425
<i>Clip1</i>	0,803021884	1,017705073	1,17097531	1,082310538	1,243540993
<i>Usp3</i>	0,814537603	1,117649548	1,181328509	1,110612914	1,232404392
<i>Gm13807</i>	0,758563267	1,078471304	1,205363262	1,053188669	1,148469188
<i>Pex14</i>	0,644659717	1,114104263	1,042819295	1,169976979	1,13411536
<i>Gpatch3</i>	0,685480228	1,150859168	1,028887733	1,15739603	1,156196981
<i>Fbxl20</i>	0,694768534	1,107091642	1,065635595	1,177171328	1,193111106
<i>Trim35</i>	0,637273591	1,182171386	1,02114048	1,206029209	1,159881196
<i>Ino80c</i>	0,595858438	1,159760281	1,159986823	1,032158351	1,121513479
<i>Ostc</i>	0,614649927	1,182220238	1,15899962	1,085016554	1,154899558
<i>Ezh1</i>	0,677727254	1,176377859	1,155059758	1,046456491	1,086236602
<i>Ccnj</i>	0,691886113	1,199837495	1,211590753	1,227143586	1,190463692
<i>Cdyl</i>	0,666245028	1,203730504	1,157313208	1,153156514	1,197063113
<i>Gnl1</i>	0,750889365	1,129710402	1,209767183	1,169350003	1,096681784
<i>Zc3h8</i>	0,623466998	1,202678621	1,200460433	1,291474745	1,093591061
<i>Ankmy2</i>	0,584147203	1,218809589	1,24704066	1,257994559	1,13964226
<i>Sec24b</i>	0,80238845	1,116907867	1,123554538	1,150821222	1,359377432
<i>Mpzl3</i>	0,838044849	1,140741262	1,142472241	1,13791727	1,403654219
<i>Krt10</i>	0,807151038	1,237013751	1,143915775	1,138943693	1,408350893
<i>Fam160b2</i>	0,819249891	1,234093446	1,080433292	1,027350889	1,297983766
<i>Dap</i>	0,708561383	1,185863677	1,24074661	1,067606253	1,408149326
<i>Phax</i>	0,746736376	1,173574319	1,233897951	1,044725534	1,371227064
<i>Gemin4</i>	0,7426077	1,221582081	1,282857269	0,985556597	1,346677957
<i>Ankrd55</i>	0,746808997	1,15101263	1,244161235	1,07791614	1,281244087
<i>Stk40</i>	0,712569183	1,20263013	1,273158174	1,061363291	1,321715252
<i>Mrps36</i>	0,752496948	1,25949209	1,228575192	1,09785265	1,325627346
<i>4930515B02Rik</i>	0,898100024	1,229882093	1,077878057	1,201428967	1,180804382
<i>Actr8</i>	0,800929035	1,287005199	1,121885462	1,281593634	1,204967183
<i>Ccr10</i>	0,935668691	1,300963183	0,907140524	1,165710384	1,267076861
<i>Rab25</i>	0,956532039	1,387365408	1,035848709	1,153434589	1,467421553
<i>N6amt2</i>	0,766547513	1,363256914	1,124235013	1,07956943	1,452410302
<i>Ube2j1</i>	0,566598105	1,296507004	0,997145884	1,305444586	1,231192727
<i>Dusp27</i>	0,626576878	1,350505553	1,139180407	1,251453372	1,251860452
<i>Fos</i>	0,710393132	1,342226783	0,889407476	1,363889422	1,319064365
<i>Gm4262</i>	0,647399519	1,189517497	1,025003892	1,251498657	1,438986573
<i>Mars</i>	0,664624519	1,163469123	0,959423046	1,21200862	1,337095196
<i>Smarcc2</i>	0,726799376	1,160686609	1,097768535	1,30594584	1,425148849
<i>Mmab</i>	0,7551819	1,171807445	1,041855134	1,398011887	1,408257968
<i>Golgb1</i>	0,474598526	1,499416852	1,222389901	1,165866479	1,046240246
<i>Ap3m1</i>	0,470755568	1,436457512	1,128049576	1,284844188	1,120574201
<i>5730460C07Rik</i>	0,552694875	1,477816567	1,032890941	1,071122444	1,237252207
<i>Mum1</i>	0,63806672	1,464321164	1,084614723	1,085311419	1,136279465
<i>Arhgap33</i>	0,557755335	1,338341052	1,335365821	1,110376269	1,198005233
<i>Gm4278</i>	0,57244872	1,400533009	1,352097615	1,192355009	1,33064431
<i>Zfp784</i>	0,484020441	1,384770474	1,218438606	0,985618199	1,311547166
<i>Psm4</i>	0,502728547	1,447012844	1,148059259	1,20821034	1,327250376
<i>Gm20337</i>	0,41137435	1,557483821	1,058681579	1,134822787	1,44186344
<i>Rbl1</i>	0,354526357	1,291934576	1,230028979	1,297350294	1,203280834
<i>Zbtb34</i>	0,400719959	1,327709684	1,299014074	1,284147084	1,156982542
<i>Leprot</i>	0,382555175	1,303761364	1,119128433	1,30928217	1,220365297
<i>Mboat1</i>	0,511097263	1,500429312	1,147301963	1,464945844	1,182977527

<i>Arl5a</i>	0,465251726	1,477501222	1,086369691	1,440617785	1,236650873
<i>Gm5434</i>	0,429068953	1,534726551	1,324525669	0,919314895	1,115108597
<i>Rab19</i>	0,37507938	1,44528327	1,35620026	1,162874263	0,983329194
<i>Kctd14</i>	0,731139524	1,413329305	1,396234792	0,849014732	0,964494076
<i>6330403K07Rik</i>	0,674329637	1,339542743	1,511997698	0,943284358	0,975013967
<i>Cybrd1</i>	0,849738407	1,404237961	1,115343034	1,208100473	0,943810041
<i>5033414D02Rik</i>	0,752893411	1,453876109	1,046188693	1,128209863	1,02092611
<i>1700010I14Rik</i>	0,670372152	1,355188621	1,334441032	1,172346453	1,046959248
<i>Pdcd1lg2</i>	0,68946999	1,447024827	1,253483803	1,087981362	1,081179639
<i>Elac1</i>	0,705667579	1,330729893	1,276930371	1,332352129	1,102411911
<i>Hnrpl1</i>	0,635530976	1,417561064	1,19582215	1,391418905	1,043512193
<i>Cd81</i>	0,744418289	1,435620438	1,289452059	1,46415339	1,003539077
<i>S100b</i>	1,38715833	1,612223599	1,099868961	1,329205313	0,987895388
<i>8030423F21Rik</i>	1,225316653	1,63958581	1,336360074	1,31739324	0,990055436
<i>Nrn1l</i>	1,160019631	1,298890075	1,303055012	1,402149368	0,830096191
<i>Cd44</i>	0,988252296	1,243036403	1,008411901	1,070028473	0,881782481
<i>Nsmce2</i>	0,942630138	1,202607572	1,076589694	0,98624542	0,901683379
<i>Hivep3</i>	0,968804442	1,293966712	0,977479859	0,944413023	0,82793313
<i>Osbpl3</i>	0,95182958	1,249287449	0,987844351	0,972702625	0,892233225
<i>2010109A12Rik</i>	1,059035013	1,276324706	0,978278404	1,00385069	0,991001337
<i>4930455F23Rik</i>	1,135984775	1,344661171	0,964604888	0,838593784	0,779537582
<i>Sh3rf1</i>	1,210848221	1,339319027	1,075032065	0,968119189	0,790402154
<i>1810062G17Rik</i>	1,066346796	1,433990217	1,188665332	0,960331977	1,068481863
<i>Zfp770</i>	1,047735671	1,407439737	1,115998347	1,001264815	0,976951739
<i>Serpib5</i>	1,140126288	1,346346818	1,153710646	1,102762641	0,959089386
<i>Ephb6</i>	1,132105887	1,380455631	1,350702583	1,092626662	0,84467079
<i>Cnot10</i>	1,03681321	1,298985987	1,167294315	1,243698023	1,091637864
<i>Atxn10</i>	0,981889048	1,246107211	1,091538679	1,161913518	1,063067836
<i>Fanci</i>	1,014526299	1,308837619	1,188875761	1,318481459	0,955435075
<i>Slc45a4</i>	0,869126086	1,244770699	1,005898433	1,143984229	0,955439449
<i>Zfp870</i>	0,808342896	1,1779209	1,081727099	1,159592446	0,942520863
<i>Bmp2k</i>	0,839670517	1,256755432	1,083191237	1,281277567	1,008541237
<i>Gpr179</i>	0,901359064	1,155920356	1,006843858	1,21844686	0,951789991
<i>Sox13</i>	0,982564189	1,172942345	1,053261234	1,257167131	0,96651513
<i>Wdfy2</i>	0,934904702	1,142407038	1,218309357	1,045627666	1,041914811
<i>6030440G07Rik</i>	0,95945831	1,185308017	1,187834876	1,002350159	1,028308266
<i>Tespa1</i>	0,851745703	1,183279868	1,165210015	1,03474964	1,104927818
<i>Ndrp3</i>	1,009283582	1,228537782	1,165731411	1,007619549	1,108499645
<i>Zswim1</i>	1,007581108	1,258886348	1,324757502	0,973235542	1,05020273
<i>Itga9</i>	1,050851796	1,137642073	1,168243032	1,047341804	0,924490774
<i>Sall3</i>	1,026381339	1,254318312	1,223603391	1,004796301	0,936146937
<i>Slc25a25</i>	0,952326407	1,181208023	1,133088041	1,11262137	1,216811148
<i>Tm7sf3</i>	0,974050291	1,188576001	1,135402085	1,130926654	1,225496548
<i>Slc25a12</i>	1,018232643	1,127925005	1,098249041	1,100938506	1,160949211
<i>Trim71</i>	1,007340536	1,189730901	1,23007426	1,102449583	1,201185256
<i>Tpm2</i>	1,015406119	1,120505726	1,148619746	1,059730583	1,199934704
<i>Ptprn</i>	1,027610573	1,100302048	1,167146254	1,015426192	1,146843709
<i>Fzr1</i>	1,043888666	1,116004757	1,161108678	0,987926604	1,249550809
<i>Acot13</i>	1,034919362	1,044662068	1,143959457	1,023173689	1,19589779
<i>4833420G17Rik</i>	1,009497114	1,02989151	1,073752453	1,028801181	1,188138726
<i>Cand2</i>	1,128011024	1,076171292	1,223541842	1,220707074	1,281552837

<i>Med24</i>	1,059480145	1,098531891	1,224205379	1,178812647	1,250388105
<i>Nfe2l3</i>	1,127767225	1,144088389	1,235673912	1,249718634	1,170562114
<i>Cpne5</i>	1,125561338	1,213075783	1,075365903	1,138131399	1,146907239
<i>Kidins220</i>	1,167197506	1,181580676	1,049689345	1,110435806	1,104616311
<i>Fam129c</i>	1,160594419	1,198869934	1,157840412	1,172983353	1,114899587
<i>Polrmt</i>	1,244816204	1,2401396	0,990658644	1,128929265	1,117434784
<i>Fbxo17</i>	1,135281943	1,121675046	1,024846877	1,223847338	1,18761511
<i>Ap2s1</i>	1,147652625	1,111689273	0,982602516	1,141813891	1,153904451
<i>8430406I07Rik</i>	1,068660581	1,233253564	1,025403536	1,147589408	1,1599899
<i>Uhrf1bp1l</i>	1,020084335	1,303774895	1,169150493	1,114024413	1,167658518
<i>Dnajc25</i>	1,066602561	1,316110002	1,233623411	1,150081439	1,125581624
<i>Ppt2</i>	1,151374902	1,239360053	1,172855526	1,087052233	1,225619752
<i>Gdf11</i>	0,986917368	1,426662629	1,187895217	1,11425353	1,212010998
<i>Galt</i>	1,087180542	1,414029211	1,077738588	1,125387813	1,266296372
<i>Gabarapl2</i>	0,474557033	1,23184309	1,197761678	1,489193688	1,245362407
<i>Aim1</i>	0,623189602	1,2244352	1,202273748	1,507489816	1,320698968
<i>Slc22a1</i>	0,540735387	1,183390409	1,156600099	1,349041633	1,276892249
<i>Micall1</i>	0,580916583	1,214918408	1,149714917	1,390935462	1,257936547
<i>Yaf2</i>	0,568546561	1,274939071	1,140308371	1,404306246	1,295352331
<i>Ranbp10</i>	0,573111088	1,204598726	1,006787987	1,508463645	1,196369224
<i>Nr2e3</i>	0,415243628	1,158937942	0,978295381	1,566187071	1,22127899
<i>Gpnmb</i>	0,566002154	1,136783271	1,018291803	1,284573682	1,130418815
<i>Dpf2</i>	0,536514735	1,04164435	1,014430989	1,304086669	1,096469101
<i>Fam84b</i>	0,461594565	1,070750359	1,092312966	1,409443332	1,059328665
<i>Fam55c</i>	0,586847155	1,05369746	0,903895579	1,376990996	1,142782844
<i>Zfp623</i>	0,539088638	1,130124818	0,880498167	1,452410738	1,116348119
<i>Kifc5b</i>	0,664259518	1,231094571	1,145194846	1,359396098	1,088414198
<i>Gm129</i>	0,650638856	1,200048549	1,011604678	1,317310341	1,045069107
<i>Myo10</i>	0,736283184	1,11491913	1,01925319	1,447906107	0,918355829
<i>Tssc4</i>	0,722852671	1,235707745	1,032356873	1,415972626	0,89403782
<i>Apoa5</i>	0,831642631	1,157657509	1,009671551	1,498888899	1,176222893
<i>Lpar5</i>	0,809973242	1,107073977	0,91616377	1,445768686	1,143674942
<i>Espn</i>	0,718297319	1,237780281	0,91328793	1,561651144	1,129914318
<i>1600012H06Rik</i>	0,539113725	0,831416939	1,065142824	1,326978615	1,060526594
<i>Gfod2</i>	0,52589656	0,820228472	0,995796466	1,33152904	1,065792279
<i>Trmt12</i>	0,625563837	0,887665721	1,058405007	1,46890295	1,142546762
<i>Rnf5</i>	0,751049575	0,777594354	1,164030133	1,373833019	0,98412361
<i>P2ry14</i>	0,808447942	0,918976059	0,919802941	1,21992226	0,97020425
<i>Asprv1</i>	0,745212447	0,900504886	1,086897035	1,23315668	0,882420136
<i>Snrpb</i>	0,585724864	0,874454044	1,092335736	1,242941811	1,016797393
<i>Igf2bp3</i>	0,657572713	0,853754482	1,091173054	1,119562895	1,007713443
<i>4831440E17Rik</i>	0,886580455	0,832081413	1,040245882	1,19836665	1,172155157
<i>Bckdk</i>	0,918255044	0,868930296	1,104831907	1,337311095	1,182461474
<i>Commd6</i>	0,861931484	0,916205098	0,924691586	1,330790346	1,23385785
<i>Slc25a45</i>	0,836675009	0,945532914	0,85400768	1,242748018	1,201203087
<i>Ddx3x</i>	0,826143077	1,086756851	1,095351373	1,196790171	1,235573888
<i>Tbc1d1</i>	0,770785787	1,017349098	1,022920449	1,247190638	1,236913414
<i>Fam49a</i>	0,809081447	1,128258981	1,099373451	1,360681089	1,237157505
<i>AI480653</i>	0,847840146	1,053096637	1,082673235	1,213953602	1,06654877
<i>Tmc3</i>	0,437798899	1,029463488	1,059051427	1,044225963	0,94841641
<i>Grhl1</i>	0,34999505	1,111560263	1,058313907	1,055752526	1,005833957

<i>Nit1</i>	0,35729484	0,972856794	1,045623588	1,108553439	1,029119496
<i>Kdm1a</i>	0,348061148	0,982841202	1,004113503	1,013892286	1,01621619
<i>Wasl</i>	0,372050837	1,012879356	1,110442631	1,076913416	1,139833167
<i>Hmox2</i>	0,374780034	1,023187565	1,153584435	1,121689433	1,166077906
<i>Nono</i>	0,322483459	1,025506685	1,095470257	1,157081583	1,102671158
<i>Dock9</i>	0,361248281	1,016912735	1,217694831	1,084581316	1,091062431
<i>Man1a2</i>	0,357550803	1,108275197	0,994233826	1,147348927	1,096831911
<i>Ankrd12</i>	0,233406023	1,039777711	0,920146342	1,135845408	1,101021043
<i>Tbc1d15</i>	0,331154018	0,919758155	1,056650572	1,15673714	1,160815399
<i>Dicer1</i>	0,35681133	0,974939669	1,01614901	1,180913532	1,136494121
<i>BC017647</i>	0,296456189	0,964229707	1,030367425	1,148872099	1,222319912
<i>Ggnbp2</i>	0,407637951	0,92415134	1,223991059	1,052152579	1,171098553
<i>Arhgap11a</i>	0,315634294	0,891130167	1,211890688	1,125392983	1,216118699
<i>Mapre1</i>	0,315200857	0,954435075	1,247073838	0,934504723	1,204375913
<i>Tox4</i>	0,229329612	0,977795049	1,12087101	1,031234047	1,233051207
<i>Lsm12</i>	0,311344113	1,014352738	1,191974006	1,029100865	1,236489106
<i>Psmc4</i>	0,359510967	0,979848067	1,154208313	1,035982392	1,328454257
<i>Rchy1</i>	0,374129019	1,032735709	1,10510656	1,055518013	1,323610983
<i>Gtf2b</i>	0,315540247	0,785448031	1,054305015	1,026281874	1,129261688
<i>Eif1a</i>	0,348409093	0,776112046	1,112546722	1,109402586	1,153555705
<i>Psen1</i>	0,348679113	0,829307862	1,046118667	1,126752153	1,119448301
<i>Rsbn1</i>	0,373378072	0,862310667	1,022909439	1,125206688	1,112865446
<i>Tnrc6a</i>	0,290845209	0,925873283	1,051487345	0,98614158	1,1738528
<i>Ndfip2</i>	0,258822423	0,934634171	1,036497128	1,018720699	1,149237843
<i>Rsf1</i>	0,323555229	0,924408799	1,05906307	1,010807252	1,120200178
<i>Gm7244</i>	0,420855047	1,013680845	1,098171265	1,247506856	1,101840898
<i>Lpcat1</i>	0,463768988	0,976057712	0,987838029	1,265108397	1,039810129
<i>Tgds</i>	0,447729758	1,020370239	1,035645885	1,165852405	1,139855525
<i>Ttc28</i>	0,447249322	0,9710465	0,975536653	1,144363701	1,130932438
<i>Zfp14</i>	0,466499	0,99165277	0,982548422	1,232323553	1,137361667
<i>Itpr1</i>	0,466110017	1,082431689	0,973635131	1,158951453	1,007971573
<i>Faft1</i>	0,562584727	1,059662501	1,011858756	1,170514173	0,941128606
<i>Heatr5a</i>	0,572531515	1,107727505	1,063822536	1,12937997	1,050179946
<i>4930579G22Rik</i>	0,587412856	0,999076927	1,136975518	1,281182641	0,941697232
<i>Srrd</i>	0,535365286	1,071506057	1,172785805	1,17634075	0,897097087
<i>Polr2a</i>	0,444783837	1,112987376	1,202684824	1,189891267	1,318815758
<i>Cnot1</i>	0,431122848	1,152569099	1,283711771	1,142342341	1,348099743
<i>Gmeb1</i>	0,445960204	1,076468372	1,279053767	1,115721834	1,239414169
<i>Riok3</i>	0,446310677	1,052975972	1,293577743	1,181194682	1,295824188
<i>Ino80d</i>	0,41729825	1,095638987	1,105392014	1,088493194	1,320809609
<i>Eif4g3</i>	0,431295559	1,064122374	1,145640873	1,14861869	1,2916721
<i>Atp6v1d</i>	0,354888744	1,141096166	1,107954981	1,176269087	1,311553685
<i>Lims1</i>	0,313462899	1,046157711	1,110691693	1,210607097	1,20667787
<i>Nap1l4</i>	0,327867336	0,948888729	1,134676017	1,218830475	1,247026421
<i>Cltc</i>	0,284324887	1,08927062	1,149544041	1,157362398	1,287905905
<i>Supt6h</i>	0,283072889	1,076961302	1,162222483	1,154352863	1,318095288
<i>Zc3h11a</i>	0,323912248	1,075580081	1,140576945	1,131895221	1,295873574
<i>Erbp2ip</i>	0,315166589	1,039075581	1,215222935	1,134949969	1,243396391
<i>Epc2</i>	0,320293812	1,066963411	1,184440049	1,211918669	1,328917393
<i>Cct6a</i>	0,355366866	1,027274658	1,180542595	1,165341829	1,395476281
<i>Scaf11</i>	0,344558744	1,083333528	1,139053886	1,30342516	1,356321999

<i>Asxl1</i>	0,384699879	1,063343232	1,210287949	1,275231189	1,339984716
<i>Ptpn12</i>	0,455089685	1,164069159	1,123565398	1,265349257	1,331660615
<i>Ddx46</i>	0,496975676	1,159536406	1,087847914	1,30249778	1,316228518
<i>Zbtb32</i>	0,458422432	1,106821569	1,063051857	1,255873799	1,327113996
<i>Serp1</i>	0,395291082	1,107598012	1,081350653	1,255738867	1,321863878
<i>Pdcd2</i>	0,449240618	1,185474895	1,150541844	1,259860849	1,212824722
<i>Mfap4</i>	0,464507194	1,150665938	1,088510188	1,292228739	1,19980623
<i>Polr1d</i>	0,40002843	1,041180259	1,131586361	1,318207687	1,254713468
<i>E330009J07Rik</i>	0,378375376	1,05436201	1,033239131	1,340577712	1,211322758
<i>Pigo</i>	0,560408664	1,045030537	1,019253988	1,11017815	1,229819212
<i>Herc3</i>	0,541280105	0,998181787	1,035001909	1,077817327	1,147537167
<i>Specc1l</i>	0,503786593	1,087718413	0,982160294	1,098618852	1,121971359
<i>Rab40c</i>	0,508864509	1,062516038	0,99423329	1,02557807	1,144617739
<i>Bcl7b</i>	0,409949086	1,114754897	0,982310652	1,005613592	1,182363061
<i>Nmi</i>	0,377336813	1,086789602	1,03196228	1,035255163	1,221741412
<i>Polr3gl</i>	0,421581542	1,048944103	0,962011988	1,221532472	1,204693108
<i>Tk2</i>	0,425255257	1,033751049	1,047882262	1,20080966	1,239350879
<i>2010002M12Rik</i>	0,505497746	1,062858615	0,95658564	1,139419505	1,296542516
<i>March6</i>	0,404482224	1,121011257	1,147084011	1,192485739	1,10563671
<i>1700052N19Rik</i>	0,433956734	1,174199586	1,123959724	1,106464333	1,084291372
<i>Jak2</i>	0,445177445	1,196308811	1,14328906	1,161500681	1,228932177
<i>Suclg1</i>	0,466866047	1,166065935	1,149698572	1,194879736	1,214806768
<i>Mtap</i>	0,471358509	1,147686851	1,080014777	1,127291799	1,182488886
<i>Zdhhc17</i>	0,489966735	1,147003477	1,072646869	1,146782973	1,186338311
<i>Jmjd1c</i>	0,494031355	1,02405477	1,126626781	1,125570376	1,205714152
<i>Trp53bp2</i>	0,467963005	1,017503812	1,142343229	1,142442053	1,215993912
<i>Tmem165</i>	0,472763031	1,052363226	1,193782195	1,034249597	1,178421174
<i>Hmg20a</i>	0,551654477	1,077736905	1,081998752	1,018244277	1,226073305
<i>Rbm24</i>	0,589255165	1,020867771	1,139907298	1,036175212	1,191598413
<i>Fez2</i>	0,464649277	1,000993004	1,044746072	1,126045364	1,305287284
<i>Hnrnpr</i>	0,493801927	0,989777436	1,042912124	1,129345978	1,262623536
<i>Gorasp2</i>	0,480886071	0,960295977	1,108276018	1,113188529	1,298645288
<i>Nsd1</i>	0,521809452	1,033751154	1,108929576	1,149963323	1,294129045
<i>Thnsl1</i>	0,244098151	0,966365434	1,3219147	1,254908824	1,250630792
<i>Rps4x</i>	0,324844979	0,979179105	1,335109066	1,146300678	1,209157321
<i>Rnf19a</i>	0,275464938	1,108443227	1,331319736	1,328084511	1,217896985
<i>Rab10</i>	0,222843277	1,079219011	1,271912557	1,330361037	1,259359023
<i>D1Bwg0212e</i>	0,345163044	0,810950099	1,295211803	1,185156187	1,099052627
<i>Tns4</i>	0,248754039	0,82329675	0,936836798	1,223670902	1,380461822
<i>Bzw1</i>	0,23922166	0,710848742	1,064939843	1,275140933	1,35371096
<i>Gm2447</i>	0,315997317	0,743407733	0,973062499	1,410856508	1,203842671
<i>Tnfsf8</i>	0,307239093	0,861485006	0,946528048	1,454801777	1,294292154
<i>Ensa</i>	0,36781461	0,914947623	1,124127506	1,343457503	1,404850652
<i>Hnrnpa1</i>	0,282953762	0,898273318	1,108215008	1,372218408	1,398238153
<i>Gm10052</i>	0,298908168	0,893097935	1,122696551	1,297206829	1,329579669
<i>Tmem60</i>	0,385632921	0,890080934	1,164985993	1,427600524	1,291564281
<i>Syncrip</i>	0,29747098	0,895201796	1,217869116	1,330101351	1,341214862
<i>Smndc1</i>	0,238968399	0,922579066	1,266268905	1,369778111	1,360213169
<i>Gm12191</i>	0,408880528	0,787495979	1,102009264	1,541732187	1,075463594
<i>Rpl30</i>	0,408641885	0,759929876	1,101985417	1,534197276	1,075433208
<i>Tmem93</i>	0,229143751	0,745872371	1,151044358	1,428037989	0,951683232

<i>Csrp1</i>	0,758925995	1,048757149	1,493286992	1,140544393	1,191036796
<i>Rab7l1</i>	0,746932464	1,07059353	1,536090219	1,088689234	1,292126695
<i>Npm3</i>	0,791010922	0,885106973	1,566933347	1,025972459	1,135861114
<i>Taldo1</i>	0,795396615	0,987137509	1,338566067	1,188199489	1,103134773
<i>Chaf1b</i>	0,816040457	1,124292673	1,33727617	1,188291156	1,04673777
<i>Naa10</i>	0,704674648	1,023367693	1,419284743	1,0987453	1,02627856
<i>1700064J06Rik</i>	0,912486084	0,902467845	1,429170616	0,990457224	1,354723314
<i>Fem1a</i>	0,92566511	0,941900152	1,382890357	1,01432768	1,354124387
<i>Slbp</i>	1,035740599	0,853334003	1,339658435	1,047694926	1,324974431
<i>Cic</i>	1,087665375	0,81792089	1,404365009	1,143068769	1,112976781
<i>H3f3b</i>	0,769225609	0,802937061	1,576502797	1,583819785	0,987315711
<i>Mrps2</i>	0,409664821	1,090576755	0,64045755	1,47084722	0,743234104
<i>Cdhr3</i>	0,338321707	1,152853224	0,709355507	1,411690519	0,700747341
<i>Flad1</i>	0,526807241	1,115589192	0,707204732	1,293907319	0,589352266
<i>Polr1a</i>	0,229718336	1,218027378	0,817692368	1,301056622	0,775861051
<i>Pyroxd2</i>	0,325051464	1,163863861	0,737250207	1,198485955	0,685656099
<i>Paqr8</i>	0,174681986	1,039931355	0,684820322	1,18407011	0,703553144
<i>Zq16</i>	0,420150531	1,243739006	0,454853826	1,323823458	0,92233785
<i>1110028F11Rik</i>	0,480354469	1,100215352	0,723109711	1,229912243	0,944362864
<i>Trub1</i>	0,623812595	1,024654309	0,820374619	1,339151149	0,893146978
<i>Ctdsp2</i>	0,42763651	0,960209459	0,833712717	1,32322949	1,102728307
<i>A330049M08Rik</i>	0,413963111	0,918708873	0,696572074	1,465685328	0,851834632
<i>Timm8a2</i>	0,294634662	1,298976054	1,000311593	1,393584897	0,969715073
<i>1700025G04Rik</i>	0,394933451	1,297618554	1,056707287	1,295800843	0,986260229
<i>Gcfc1</i>	0,374004058	1,252776334	0,996835205	1,307048659	1,18131085
<i>Zfp330</i>	0,367855406	1,217651516	0,997911212	1,248039713	1,102970252
<i>Vrk3</i>	0,34991414	1,15730311	0,809542366	1,194351592	1,061002562
<i>3230401D17Rik</i>	0,20494482	1,141360324	0,806888155	1,239491451	1,013324525
<i>Drosha</i>	0,542930238	1,235374354	0,869194842	1,310544555	0,852686469
<i>Mmp9</i>	0,438985646	1,302801957	0,804516524	1,256252152	1,028217653
<i>Litaf</i>	0,436652864	1,486454275	0,858043854	1,496074413	1,193827953
<i>Ccdc87</i>	0,365715111	1,357367509	0,864728438	1,507582576	1,05670058
<i>Slx4</i>	0,462865309	1,419982014	0,984269851	1,209371261	1,038989795
<i>Lbx2</i>	0,403560377	1,496732848	0,874091761	1,192130694	1,149965379
<i>2010010A06Rik</i>	0,324136771	1,685136091	1,02187587	1,526411293	1,544823932
<i>Btla</i>	0,212056225	1,623003232	1,214282054	1,692575588	1,543844126
<i>Tceb1</i>	0,244592369	1,820200526	1,45177008	1,627243276	1,541694743
<i>Ddx24</i>	-0,010610521	1,78657445	1,357210124	1,653949862	1,605725332
<i>Itm2a</i>	-0,340927139	2,060976849	1,414564037	1,302307852	1,141071734
<i>Il18bp</i>	0,542986912	1,844760758	1,533485366	1,430467856	1,376655827
<i>Tox</i>	0,475382605	1,804648344	1,74366172	1,608096	1,541879684
<i>1810032O08Rik</i>	0,460788149	1,683900202	1,397623603	1,784177242	1,496827988
<i>BC027231</i>	0,646770809	1,807227307	1,432129045	1,702600664	1,504201489
<i>2810001G20Rik</i>	0,287698997	1,815536573	1,745379473	1,791372438	1,303456855
<i>Acot7</i>	0,611320809	1,741386167	1,19634608	1,548023978	1,126233356
<i>Thap2</i>	0,615187415	1,708259618	1,305111537	1,383436971	1,216427352
<i>Zfp446</i>	0,457467217	1,847024556	1,211957696	1,232857691	1,227607829
<i>Gm766</i>	0,481798625	1,521479679	1,026388068	1,205765318	0,880889238
<i>Tnfsf11</i>	0,405652043	1,697535494	1,076355983	1,262728425	0,785627862
<i>AA986860</i>	0,545768052	1,499650465	1,353181049	1,319957593	0,796091216
<i>Mpi</i>	0,664074416	1,820654774	1,437869842	1,66030712	0,988742374

<i>Sypl</i>	0,559148801	1,847909918	1,363023098	1,638181972	1,213994116
<i>1700121N20Rik</i>	0,763125096	1,60536738	1,47473628	1,636745229	0,848498062
<i>Npc1</i>	1,262985741	1,256177952	1,413028148	1,375218953	1,449866031
<i>Klc3</i>	1,274043581	1,330826387	1,334089731	1,484494163	1,443859668
<i>Impa1</i>	1,245905016	1,379985991	1,394542378	1,411992764	1,43916746
<i>Atp6v1g3</i>	1,251206502	1,428695159	1,428550405	1,424802712	1,466827809
<i>Tex9</i>	1,261781801	1,458255433	1,357871187	1,385395762	1,37020621
<i>Tuba1c</i>	1,194616117	1,33847184	1,352283933	1,321856976	1,573977837
<i>Ehmt2</i>	1,172363062	1,394453731	1,325911235	1,334528681	1,496088277
<i>Btbd19</i>	1,257327877	1,406098941	1,24958313	1,348459967	1,547639235
<i>Sesn1</i>	1,166449792	1,37992582	1,213534861	1,386513708	1,445495614
<i>Isg20</i>	1,140728945	1,449126839	1,239744959	1,373534689	1,529487477
<i>Mapk7</i>	1,002467158	1,497084644	1,228236829	1,507286938	1,533759098
<i>Hdac5</i>	1,024375347	1,532104248	1,299043237	1,456377746	1,483629869
<i>Zfp414</i>	1,143153406	1,581692841	1,236537963	1,314412316	1,580421239
<i>Dapp1</i>	1,279974106	1,581205477	1,507335025	1,410891292	1,619556939
<i>Hmgn1</i>	1,22886531	1,495826991	1,543212444	1,334524282	1,660002172
<i>Gm16907</i>	1,185625025	1,587066377	1,459006199	1,246336652	1,498553921
<i>Camk4</i>	1,255177798	1,462740887	1,639349688	1,33288557	1,433920558
<i>Eif2ak3</i>	1,174400326	1,475646139	1,629124243	1,402346524	1,446032596
<i>Hs2st1</i>	1,144622914	1,476050844	1,624446279	1,283036503	1,418931529
<i>Manba</i>	1,23384196	1,57709948	1,614851472	1,3239018	1,516843018
<i>Ift80</i>	1,155161875	1,427607536	1,429322556	1,316129897	1,480841032
<i>Zfpm1</i>	1,186733349	1,447463813	1,42408165	1,327821355	1,535704156
<i>Lrrc8d</i>	1,226403157	1,432304515	1,448226059	1,373063146	1,505303929
<i>Mcoln3</i>	1,220391267	1,455883931	1,461692455	1,302697446	1,426819631
<i>Themis</i>	1,182183873	1,312543392	1,50901126	1,242004203	1,518007242
<i>Ppp1r10</i>	1,186785678	1,413424958	1,482961447	1,264290755	1,566654063
<i>Hdc</i>	1,015316651	1,489275849	1,428654193	1,300547308	1,528650783
<i>Slc16a10</i>	1,041365011	1,474491239	1,439712463	1,376499229	1,43430023
<i>Tec</i>	1,079979302	1,530493531	1,538805667	1,30580154	1,45279785
<i>Impdh1</i>	1,310581359	1,421093993	1,529766284	1,438049781	1,678536123
<i>Rufy2</i>	1,273704802	1,434797813	1,560522615	1,436146688	1,711688567
<i>Dda1</i>	1,237280452	1,316325272	1,566100989	1,416411939	1,735874699
<i>Nt5c3l</i>	1,109282482	1,398061988	1,630881287	1,412306531	1,58458695
<i>Arid2</i>	1,097446461	1,42930248	1,576545404	1,416649948	1,578954887
<i>E330020D12Rik</i>	1,161773277	1,424505297	1,588822133	1,454345219	1,557954232
<i>Zfp395</i>	1,110793872	1,341217756	1,614489065	1,369500259	1,555413461
<i>Zbtb3</i>	1,35512873	1,665472012	1,325156735	1,251036069	1,567766772
<i>InsI6</i>	1,306000883	1,566121985	1,241105558	1,085605203	1,574447432
<i>Rraga</i>	1,168461899	1,672182748	1,503630334	1,043184365	1,642041738
<i>2610002D18Rik</i>	1,179673622	1,259552201	1,301916685	1,289525139	1,534009154
<i>Avpi1</i>	1,116788514	1,318277031	1,247893678	1,242057535	1,539522964
<i>Cabp1</i>	1,083195557	1,280959617	1,412840949	1,224378028	1,571013724
<i>Rundc1</i>	1,094442558	1,348246357	1,354070454	1,250318325	1,560129079
<i>Ppcdc</i>	1,213846936	1,277650265	1,355466093	1,14459253	1,561158224
<i>Ech1</i>	1,261674146	1,349509818	1,401134315	1,151174879	1,525980584
<i>Slx1b</i>	1,128426365	1,366228929	1,400905968	1,156596315	1,519767956
<i>Tigd2</i>	1,175323231	1,351927753	1,429246003	1,157093222	1,514340965
<i>Nup62-il4i1</i>	1,098695363	1,278353735	1,476645519	1,214117034	1,756867398
<i>Zfp687</i>	1,120769341	1,265198778	1,50249217	1,321017638	1,773616571

<i>Kif3b</i>	1,002908973	1,253135174	1,514640783	1,174702538	1,730674917
<i>N4bp2</i>	1,104568746	1,228150551	1,561074284	1,297943418	1,584726364
<i>Dlst</i>	1,082268526	1,266626689	1,524720406	1,343058699	1,637805107
<i>4930429B21Rik</i>	1,19596494	1,224566654	1,487204982	1,281608277	1,596580234
<i>Slc24a6</i>	1,279148162	1,206158767	1,452806229	1,239733081	1,565558155
<i>Ppp1r15b</i>	1,269618951	1,28123011	1,457069111	1,317699707	1,635185997
<i>Mex3d</i>	1,187136935	1,239621902	1,411496316	1,235972333	1,653176768
<i>Tead3</i>	1,354736436	1,165030647	1,459547839	1,270010839	1,691793008
<i>B3gnt9-ps</i>	1,266446116	1,132831089	1,407808957	1,282347476	1,730132832
<i>Fam38a</i>	1,244266302	1,090545845	1,330803124	1,19727641	1,731510141
<i>Fbxl8</i>	1,202311003	1,089823041	1,387439844	1,149447089	1,695467011
<i>Ankrd9</i>	1,36617688	1,202424579	1,405123475	1,357696487	1,804145778
<i>4933403G14Rik</i>	1,367786196	1,180367016	1,368026077	1,286991035	1,831098038
<i>Esrra</i>	1,300727218	1,283548123	1,382080538	1,353225469	1,786729011
<i>Bst2</i>	1,263515178	1,241561168	1,447513693	1,230477955	1,894070751
<i>Rxrb</i>	1,256401235	1,167919938	1,479588347	1,306368892	1,870312316
<i>Zmiz2</i>	1,253472087	1,351119785	1,428997651	1,235260015	1,830797909
<i>Fcho1</i>	1,315286914	1,270151413	1,446702971	1,248194676	1,780106755
<i>Slc11a1</i>	1,208906934	1,231095054	1,544985111	1,029161054	1,671893158
<i>2310061C15Rik</i>	1,249491661	1,288841971	1,606753266	1,116745339	1,682850247
<i>Pgpep1l</i>	1,34412764	1,276026707	1,496305041	1,119129613	1,64808359
<i>Map3k8</i>	1,265674219	1,290193269	1,453108614	1,0513989	1,66915126
<i>Tmem120b</i>	1,406305625	1,305361653	1,64989325	1,12266525	1,692632281
<i>Hilpda</i>	1,384891029	1,351223239	1,619401705	1,250083557	1,683454743
<i>Cbx6</i>	1,413644985	1,380694663	1,513468541	1,148347578	1,746767927
<i>Gas2l1</i>	1,389467176	1,209471171	1,430682167	1,206557476	1,44109221
<i>Lrrc8b</i>	1,38328978	1,249826139	1,467468552	1,276720121	1,485930157
<i>Slc12a3</i>	1,429535517	1,235466476	1,423791915	1,248212021	1,525908283
<i>Hs6st1</i>	1,397667221	1,219760738	1,395616624	1,219885568	1,543860897
<i>Nek8</i>	1,356352276	1,357744897	1,477027099	1,194934083	1,581809652
<i>Pkm</i>	0,720364082	1,240114422	1,378937922	1,418555039	1,354055096
<i>Itpr1l1</i>	0,72124365	1,211400908	1,329519748	1,519978682	1,339033868
<i>Ankrd46</i>	0,772663066	1,329745526	1,306716206	1,538429475	1,290650177
<i>Ctage5</i>	0,868863255	1,374742308	1,24500382	1,505272578	1,442949009
<i>Cyp4f17</i>	0,782372696	1,265841874	1,188713294	1,4200169	1,509984544
<i>Twsg1</i>	0,975596362	1,350717167	1,329139389	1,416343815	1,346478054
<i>Hspbap1</i>	1,01260578	1,326561701	1,24251212	1,439534114	1,417515624
<i>Lclat1</i>	0,919332119	1,346705996	1,315200137	1,347155971	1,403073272
<i>Aak1</i>	0,883909482	1,344811729	1,27978343	1,418878798	1,442074008
<i>Tlk1</i>	0,99152782	1,281374492	1,302312177	1,300745264	1,36178368
<i>Gm1647</i>	1,019384489	1,310939487	1,28420076	1,302257042	1,344558326
<i>Anks1</i>	1,050441272	1,344085501	1,318222937	1,344230936	1,378178682
<i>Lif</i>	0,990122006	1,16902254	1,239387613	1,309094386	1,440464166
<i>Top2a</i>	0,981256489	1,125522078	1,235150355	1,391034338	1,358930248
<i>Atf6b</i>	1,037375605	1,255974429	1,13833056	1,379664561	1,366345873
<i>4930539E08Rik</i>	0,97648419	1,15217232	1,394044709	1,267233382	1,277039252
<i>H2afv</i>	0,884536353	1,005430768	1,428455505	1,309606044	1,316614098
<i>Actn4</i>	0,944670211	1,105345699	1,351709926	1,180741308	1,37847961
<i>Papd7</i>	0,948091743	1,102145983	1,406491272	1,259660399	1,454588981
<i>Grina</i>	0,984290255	1,072723604	1,365677505	1,422120923	1,428826365
<i>1600027N09Rik</i>	0,997415993	1,078118509	1,428958022	1,383001857	1,494419158

<i>Gabbr2</i>	0,860911537	1,149681013	1,38842663	1,431260115	1,45350008
<i>Stmn1</i>	1,047256003	1,098159512	1,377647113	1,312594407	1,398215921
<i>Letm2</i>	1,083966781	1,0834433	1,271148166	1,301754952	1,395249811
<i>1700029G01Rik</i>	1,14121096	1,167688434	1,414190769	1,322723591	1,449481771
<i>Fbxo42</i>	1,135285612	1,152362063	1,360608315	1,290664438	1,476567253
<i>Impdh2</i>	1,131450893	1,062825116	1,307426413	1,459039098	1,358292881
<i>A630072M18Rik</i>	0,975675777	1,436397628	1,430367877	1,574128835	1,638322835
<i>Mapk3</i>	1,028761297	1,391680459	1,508291101	1,505563256	1,665785175
<i>Cstad</i>	1,136984381	1,437934815	1,361472839	1,554242798	1,618201697
<i>Thada</i>	1,063148098	1,338471847	1,457489127	1,396584821	1,606450407
<i>Prps1l3</i>	1,02536191	1,322178654	1,379742288	1,450251715	1,694697056
<i>Pdlim2</i>	1,010925797	1,335954821	1,545496037	1,620313667	1,579115519
<i>Gatsl3</i>	0,936262863	1,308355607	1,516595131	1,653064074	1,462365805
<i>Sardh</i>	1,056966593	1,27466123	1,555527613	1,274906784	1,457324435
<i>Birc2</i>	0,976427862	1,3391856	1,585620114	1,312027878	1,556757188
<i>Map3k12</i>	0,930605717	1,41947238	1,579748368	1,275446056	1,441877112
<i>Mxi1</i>	1,080072779	1,422949031	1,567220435	1,431353205	1,393472413
<i>Ccnb1</i>	0,981877382	1,368309462	1,669322991	1,395451406	1,435013245
<i>Upb1</i>	1,008081286	1,255711447	1,368870201	1,387695718	1,438376563
<i>Traf2</i>	1,006695626	1,288186965	1,386977202	1,382102472	1,403334467
<i>Arl16</i>	1,010997501	1,295503901	1,34444426	1,395849814	1,4804601
<i>Nisch</i>	1,014970183	1,326185054	1,369665682	1,353820795	1,399836946
<i>Unc45a</i>	1,032956486	1,318555936	1,37026635	1,372762833	1,442196282
<i>Ctsb</i>	1,001617003	1,391222412	1,380513456	1,343399629	1,440996682
<i>Fbxo25</i>	0,971442167	1,264671885	1,472534615	1,368499447	1,389597979
<i>Zfp668</i>	1,028844073	1,408709745	1,50344986	1,352116975	1,507855022
<i>Sdhb</i>	1,000634368	1,387368669	1,526716421	1,374955538	1,489672992
<i>Cdkn2aipnl</i>	1,042399956	1,37722771	1,482014022	1,41465837	1,472761149
<i>Taok3</i>	0,974706735	1,405759564	1,448607602	1,437181917	1,554416076
<i>Zfp553</i>	1,050252162	1,159511637	1,316603227	1,32320238	1,5210489
<i>Srpk2</i>	1,089322009	1,177480898	1,319697449	1,362620004	1,632197854
<i>Syvn1</i>	1,068017241	1,205589867	1,316449274	1,524705579	1,573667576
<i>Mrps24</i>	1,060726739	1,186408082	1,270534723	1,465793639	1,627492356
<i>Rnf139</i>	0,916297764	1,306354329	1,281717997	1,378766044	1,594356205
<i>Zc3h12d</i>	0,953403109	1,251782824	1,280254471	1,384600384	1,669995944
<i>Pml</i>	0,882328134	1,193558489	1,293978704	1,377526634	1,580083471
<i>C80913</i>	0,819832755	1,245020292	1,497746569	1,406147966	1,666621534
<i>Plekha2</i>	0,800177505	1,196195285	1,434481206	1,414486561	1,683256303
<i>Rnf2</i>	0,874997487	1,196703805	1,529553904	1,378419378	1,704728874
<i>Acot8</i>	0,878957871	1,252001757	1,404359548	1,394911576	1,751825595
<i>Ap1m2</i>	0,932107763	1,253638631	1,38709393	1,430812937	1,689927803
<i>Bahd1</i>	0,881003422	1,274390765	1,528815721	1,367028953	1,655795561
<i>Wdr20a</i>	0,942929112	1,258827737	1,499643973	1,314730278	1,6549675
<i>Preb</i>	0,882804763	1,232044099	1,476996821	1,333477245	1,581421693
<i>E2f3</i>	0,947923647	1,330130611	1,401353643	1,27456327	1,505591227
<i>Tac4</i>	0,943418623	1,307373807	1,382451493	1,27809311	1,500317094
<i>Iffo2</i>	0,933401365	1,37089187	1,411576492	1,289911388	1,456286313
<i>Uvrag</i>	0,930331934	1,374372788	1,413342382	1,305849484	1,443264948
<i>Reep3</i>	0,830901929	1,280670027	1,397799229	1,292564147	1,54420929
<i>Lta4h</i>	0,816916126	1,33063484	1,370920066	1,25802106	1,550036259
<i>Scamp2</i>	0,901869431	1,263125522	1,322841142	1,202954933	1,491737715

<i>Slc23a2</i>	0,831339481	1,256360609	1,327787765	1,19746652	1,449000851
<i>Ece1</i>	0,930406698	1,254837434	1,360459988	1,270998738	1,387035498
<i>Itm2c</i>	0,8911206	1,328886147	1,138297354	1,380114103	1,547449258
<i>A330035P11Rik</i>	0,924602464	1,365427055	1,235415809	1,341437589	1,500516797
<i>Mrps21</i>	0,813033104	1,406218634	1,125680002	1,255095259	1,494311906
<i>Trim21</i>	0,762286645	1,439229729	1,332099997	1,246665147	1,6337304
<i>2610035D17Rik</i>	0,674502479	1,356681065	1,323359351	1,374398716	1,620757041
<i>Dennd4b</i>	0,873133463	1,350719414	1,306694414	1,373012355	1,652602114
<i>Lmna</i>	0,820405836	1,327689259	1,329173807	1,405587708	1,62663354
<i>E430018J23Rik</i>	0,786804373	1,431975789	1,282721165	1,389128358	1,600417205
<i>Atp6v1e1</i>	0,777160134	1,36556996	1,403082773	1,353441684	1,46862886
<i>Enoph1</i>	0,732365438	1,364596783	1,396939169	1,363436891	1,506554647
<i>Ppp1r13b</i>	0,778797618	1,322146478	1,331079828	1,37834647	1,4597434
<i>Tbc1d10a</i>	0,837130231	1,359774886	1,449835334	1,363443325	1,494266279
<i>Sufu</i>	0,87558031	1,389203497	1,371529701	1,396317733	1,463818144
<i>Atg12</i>	0,833281971	1,345019465	1,499037534	1,092338357	1,592619235
<i>Zfp839</i>	0,930889294	1,252981219	1,489150608	1,096381931	1,552138908
<i>Tmed7</i>	0,96847072	1,350564308	1,430529787	1,090912502	1,585443123
<i>Gfod1</i>	0,947278563	1,388857292	1,485588831	1,149573254	1,632787666
<i>Erc2</i>	0,930046605	1,412173315	1,233644353	0,99458634	1,524102921
<i>Il4i1</i>	0,830068085	1,337111177	1,3132114	1,007034151	1,585146975
<i>Scaf1</i>	0,844402007	0,981254799	1,279670623	1,215782957	1,597656582
<i>Gga3</i>	0,8336519	0,997644094	1,376607267	1,188798699	1,60810174
<i>Eno2</i>	0,853896772	0,89782469	1,437804147	1,206533907	1,592994495
<i>Tenc1</i>	0,787160708	0,956170469	1,347754836	1,240937318	1,485606298
<i>Apeh</i>	0,778136067	0,972040761	1,292397599	1,234183246	1,497654756
<i>4930486L24Rik</i>	0,856240781	0,8810765	1,27262611	1,263948301	1,464610277
<i>Bsg</i>	0,863313136	1,037118986	1,390149188	1,283357865	1,51325667
<i>Serinc3</i>	0,91372381	1,066526783	1,332516305	1,285663299	1,517592519
<i>Apbb1ip</i>	0,840511404	1,112469475	1,412496509	1,296254548	1,501157004
<i>Zfp879</i>	0,901689011	1,030752815	1,403195391	1,18542842	1,509966612
<i>Tfap4</i>	1,089955333	0,975351326	1,209771577	1,144026089	1,487639289
<i>Dnmt1</i>	1,011427112	0,945571667	1,209872636	1,159126382	1,474438298
<i>Tinf2</i>	0,985253449	0,954144007	1,254410976	1,205058085	1,379120684
<i>Lass2</i>	0,99607966	0,926915326	1,217649094	1,377585352	1,448930577
<i>Arid3a</i>	0,961223263	0,970126953	1,282128274	1,283845761	1,51934591
<i>Pigv</i>	0,86576891	1,15475286	1,144981963	1,298457709	1,696559377
<i>Pkn1</i>	0,912562533	1,25722393	1,181473435	1,257197105	1,645955328
<i>AK010878</i>	0,947507181	1,073413195	1,212724315	1,288073948	1,646962787
<i>Tmem134</i>	0,947772142	1,086639432	1,170739946	1,247640868	1,584782909
<i>Pias4</i>	0,982363907	1,145764637	1,191916661	1,193750719	1,728541928
<i>Slc39a1</i>	0,886509464	1,12369175	1,240579596	1,196896798	1,801841411
<i>1110008J03Rik</i>	0,947971793	1,13260226	1,141053517	1,24211685	1,794648497
<i>Sgsh</i>	0,972589069	1,0836595	1,163278897	1,306628692	1,780652637
<i>Ctsz</i>	1,004467576	1,041672949	1,399501757	1,24243064	1,566266407
<i>Hnrnpf</i>	1,075691193	1,10061419	1,426389821	1,230605058	1,600590635
<i>Gm5868</i>	1,033187947	1,087005284	1,306787386	1,24271246	1,550780311
<i>Akirin1</i>	0,972515521	1,086681609	1,308489107	1,18220565	1,579938052
<i>Tmem86b</i>	1,042624187	1,10866622	1,377762636	1,090914816	1,597554008
<i>Rexo1</i>	1,109293066	0,996394499	1,272946998	1,226239418	1,632350837
<i>Gm11974</i>	1,01671312	1,045645945	1,234444719	1,133562307	1,639748994

<i>Atp5h</i>	1,167460139	0,981902312	1,739835523	1,205518186	1,426092878
<i>Arl4a</i>	1,29508748	0,916567781	1,647685854	1,292409283	1,325280882
<i>Zfp161</i>	1,094453885	0,938882057	1,518848868	1,1866037	1,440495369
<i>Cfl2</i>	0,87387098	0,975179816	1,718385302	1,198461857	1,418414728
<i>Srp14</i>	0,980107776	0,866158561	1,684113878	1,22235612	1,258916026
<i>Rnf126</i>	0,984783493	1,108391165	1,547756907	1,153684614	1,555286212
<i>Nop56</i>	1,041358722	1,199087101	1,564331418	1,234316899	1,592176075
<i>Capn12</i>	1,186417783	1,082219796	1,515892277	1,179301388	1,624443793
<i>Gp5</i>	1,143672699	1,132409969	1,440278448	1,137015838	1,596754638
<i>Lypd3</i>	1,131354898	1,135666039	1,637279254	1,108782149	1,55762992
<i>Prss53</i>	1,158235887	1,18950866	1,697949434	1,120479329	1,538580056
<i>Arf6</i>	1,09010166	1,133085854	1,535704628	1,05950267	1,464430256
<i>Fbxw4</i>	1,106046079	1,094804822	1,498394915	1,148980315	1,413024174
<i>Prkcb</i>	1,175741185	1,190392297	1,441423657	1,048636447	1,464246032
<i>Ntpcr</i>	1,36083068	1,068410848	1,503075074	1,289116393	1,406208904
<i>Tmem102</i>	1,377926241	1,091809163	1,546048297	1,304211225	1,401666441
<i>Tigd5</i>	1,44035263	1,032551871	1,581949571	1,403222493	1,516760743
<i>Cd3eap</i>	1,379739578	1,120606485	1,639443942	1,505341471	1,249430408
<i>Dnajc4</i>	1,277007849	1,084631968	1,52355879	1,595433106	1,316828507
<i>C030044B11Rik</i>	1,321755463	1,178798293	1,921790996	1,421489714	1,52631489
<i>Ino80b</i>	1,238472307	1,139774774	1,865459471	1,449310308	1,346805383
<i>B4galnt4</i>	1,047135727	1,437671461	1,506498906	1,251291136	1,869736622
<i>Plec</i>	1,081048928	1,40187956	1,449958278	1,421479906	1,901946387
<i>Klf6</i>	0,988574647	1,356736688	1,526733421	1,395367844	2,009659506
<i>Zfp646</i>	1,014319059	1,348127901	1,653776565	1,388988722	1,946892133
<i>Tmem200b</i>	1,146058206	1,503647666	1,398570581	1,355012267	2,063429022
<i>Dnajb13</i>	1,013641803	1,259837004	1,338259309	1,230466269	1,816685479
<i>Cmah</i>	0,98097063	1,221743326	1,388339951	1,277171726	1,795161225
<i>Psmc3ip</i>	1,013702658	1,395437169	1,377965964	1,222286824	1,791626973
<i>Cnih</i>	1,006796271	1,367357717	1,332259777	1,276186331	1,807994077
<i>Gnptg</i>	0,854523259	1,300320397	1,385089046	1,288850274	1,872313549
<i>Pank4</i>	0,876335092	1,243423639	1,38761272	1,315734947	1,845722417
<i>Pdp2</i>	0,891946223	1,324760419	1,405666327	1,3660021	1,940814083
<i>Snrpd3</i>	0,857526414	1,376965378	1,53079037	1,486487558	1,880329769
<i>Slc37a4</i>	0,875614089	1,478606276	1,50446565	1,471577051	1,94433192
<i>Mcmbp</i>	0,887717884	1,397097741	1,571967363	1,666042247	1,917312504
<i>Usf1</i>	0,954953146	1,357455161	1,506033194	1,624483485	1,939013303
<i>Ssh3</i>	1,144471766	1,43989755	1,513859996	1,603020031	1,93619245
<i>Leng8</i>	1,098108629	1,397706811	1,412582057	1,632046021	1,946073996
<i>Msto1</i>	1,111786242	1,299831952	1,438897916	1,55958417	1,932237639
<i>Rtp3</i>	1,068120692	1,356966398	1,479591108	1,625860442	1,752978723
<i>Gipc1</i>	1,049469091	1,290021861	1,469856093	1,601290811	1,799131234
<i>Pdk1</i>	1,078590225	1,326475094	1,563659445	1,610415276	1,714549507
<i>Psmb3</i>	0,899769936	1,341131305	1,524080937	1,657629128	1,738286035
<i>Prkab1</i>	1,012309063	1,216348666	1,434378799	1,459878552	1,739447427
<i>Agxt2l2</i>	1,006502533	1,26750819	1,42106261	1,49456556	1,81544559
<i>Tnfrsf14</i>	0,98754789	1,183252939	1,51254546	1,487822238	1,796866974
<i>Mppe1</i>	0,970020272	1,296452332	1,527652516	1,395747547	1,703999842
<i>Tmem206</i>	0,983017086	1,279031449	1,511053074	1,37052274	1,757988301
<i>Ccdc69</i>	1,023676512	1,285391445	1,475257922	1,426918776	1,710291205
<i>Pld3</i>	1,192708565	1,390320169	1,768683502	1,36938151	1,842010614

<i>Ninj2</i>	1,191017856	1,419463774	1,754317665	1,46029043	1,834393981
<i>Irs2</i>	1,081903742	1,488374326	1,79757915	1,316903197	1,823943034
<i>Ube2d1</i>	1,111189288	1,525263093	1,632363707	1,477323978	1,85529407
<i>Ralbp1</i>	1,111817292	1,415000263	1,620155159	1,447805408	1,823823824
<i>Doc2a</i>	1,022493515	1,386781308	1,609010548	1,31688502	1,836676172
<i>Zcchc2</i>	1,003499715	1,368444515	1,655638943	1,291479918	1,717041519
<i>Exosc2</i>	1,068606062	1,291176266	1,660059775	1,375246521	1,759856843
<i>Ccdc12</i>	1,124534442	1,317191146	1,571414025	1,40179858	1,773606115
<i>Tyropb</i>	1,14987006	1,397727983	1,75003118	1,203456282	1,726067398
<i>Mxra7</i>	1,168365157	1,317676628	1,668727916	1,19772363	1,755972163
<i>Gtf2ird2</i>	1,230195122	1,324115071	1,799917508	1,244769556	1,707976396
<i>Aagab</i>	1,29817903	1,422195504	1,72037151	1,169361844	1,835451439
<i>Txn1</i>	1,248627769	1,223333804	1,613007687	1,305150615	1,834214635
<i>Glrp1</i>	1,116979333	1,255358418	1,70525923	1,252594525	1,837642498
<i>Wbp11</i>	0,960233793	1,181152512	1,833443638	1,285947184	1,743213832
<i>Dhps</i>	1,054469057	1,017874069	1,696457802	1,365139604	1,886682088
<i>Nosip</i>	1,059626892	1,232578426	1,745113193	1,21027172	1,999352538
<i>P2rx7</i>	0,977177481	1,509460801	1,467810169	1,461140674	1,581800235
<i>Slc7a1</i>	1,066166128	1,564422324	1,466008143	1,487922651	1,60783944
<i>Por</i>	0,989938003	1,670996291	1,516182106	1,492179187	1,544808121
<i>Rere</i>	0,993491997	1,493830959	1,455596145	1,454405397	1,494722876
<i>Sik3</i>	0,920602212	1,498397127	1,484367242	1,465073853	1,460801018
<i>Hbs1l</i>	0,913044382	1,519781969	1,566886466	1,390880577	1,54286586
<i>Mkrn1</i>	0,906808464	1,502683161	1,562034994	1,447771363	1,521083503
<i>Cand1</i>	1,053291186	1,500435622	1,605728571	1,544958746	1,63243526
<i>Jmjd8</i>	1,037760176	1,491894796	1,59699136	1,482081829	1,580677004
<i>Slc5a3</i>	0,93234223	1,555202877	1,601010984	1,524666726	1,616895362
<i>Ndufb4</i>	0,91825098	1,522895567	1,702932102	1,533663381	1,596078408
<i>Arl8b</i>	0,996482838	1,478173666	1,687455187	1,556252794	1,558835476
<i>Rapsn</i>	0,997559674	1,619319386	1,661260528	1,532403289	1,643218037
<i>Ccdc90a</i>	1,025633509	1,643937211	1,727877343	1,543039518	1,649026588
<i>Susd1</i>	1,081588938	1,686482885	1,536631913	1,464229721	1,591894825
<i>Lrp10</i>	1,169871564	1,657727095	1,573953203	1,439243751	1,589866265
<i>Tufm</i>	1,060459937	1,662885119	1,528733001	1,509850602	1,768243055
<i>Donson</i>	0,9605881	1,754039969	1,486737152	1,354490183	1,623775105
<i>Creb3</i>	0,616694946	1,649097098	1,616174918	1,410972823	1,538731241
<i>Spcs3</i>	0,719371883	1,709747067	1,550664161	1,525153976	1,54193561
<i>Qsox1</i>	0,786070587	1,641857711	1,631799965	1,387284078	1,392699361
<i>Z810046L04Rik</i>	0,802919976	1,588325524	1,625464905	1,38632044	1,664418593
<i>Slc3a2</i>	0,803568404	1,524579172	1,622677088	1,337386062	1,643098003
<i>Jarid2</i>	0,695665395	1,491840137	1,562403315	1,431382048	1,62127426
<i>Ppp6r1</i>	1,049823257	1,492366917	1,67356069	1,287716432	1,710630933
<i>Foxj2</i>	1,008993656	1,496746751	1,597499368	1,407649933	1,676048244
<i>Alkbh2</i>	0,924061543	1,618909228	1,590788096	1,336918355	1,756233163
<i>Rxfp4</i>	0,857283118	1,559973953	1,537658241	1,132651957	1,785718632
<i>Cstf2t</i>	0,877146996	1,588426773	1,504303634	1,215189878	1,792024925
<i>Pex12</i>	0,962181257	1,699809716	1,634201668	1,359737633	1,913958818
<i>Z1810046J19Rik</i>	1,019844787	1,734884138	1,733850422	1,272594936	1,883470967
<i>Tcap</i>	0,526147611	1,445428375	1,51746602	0,603252346	1,315169412
<i>Rpl10a</i>	0,540244352	1,45398933	1,321843428	0,751634599	1,438461736
<i>Ikzf2</i>	0,749240762	1,200011108	1,754992201	0,627558779	1,639558618

<i>Cnpy2</i>	0,883110239	1,35503134	1,617231331	1,177737419	1,327666752
<i>Mxd4</i>	0,742385558	1,360598233	1,532815148	1,13420921	1,327262854
<i>Ifi27l2a</i>	0,707365611	1,462042702	1,626181844	0,933982273	1,208578882
<i>Atat1</i>	0,698447764	1,395465198	1,72240155	1,014051735	1,61747302
<i>Chmp1b</i>	0,848323867	1,327636655	1,750482387	1,145329961	1,59278935
<i>Myo1c</i>	1,150811199	0,99022696	1,354540343	0,815957226	1,405227685
<i>Ankrd60</i>	1,247168122	0,958493543	1,39147285	0,846211754	1,411252111
<i>Rgs16</i>	1,155959301	1,171535856	1,564399564	0,701911877	1,514476462
<i>Dnajb3</i>	1,067393595	0,904849171	1,470550168	0,629887656	1,570843392
<i>Gja8</i>	0,834768694	0,918371422	1,48954383	0,619168031	1,456763708
<i>Exoc3l</i>	1,027286741	1,060361676	1,492107139	0,798460511	1,41566829
<i>Gpr55</i>	0,874094023	0,944665259	1,5389218	0,870918905	1,487118362
<i>Afap1</i>	0,963259272	0,928806385	1,389601012	0,772674972	1,141667994
<i>Hsd17b11</i>	1,033802621	0,948881019	1,279288029	0,74743216	1,150926688
<i>Hsd17b1</i>	1,152011528	0,965587695	1,425695882	0,756351136	1,132425676
<i>Atp5k</i>	0,931174916	1,15364057	1,464292075	0,837093252	1,177034123
<i>Gm17746</i>	0,96618381	1,933270484	1,785630569	1,137257816	1,03568502
<i>Il2rg</i>	1,072335476	1,843258122	1,778962074	0,951134593	1,159116254
<i>Clec2d</i>	0,400028296	1,594121919	2,172525002	1,246186623	1,471146182
<i>Arl14</i>	0,783322636	1,634202539	0,815568312	1,772697743	0,895581493
<i>1810009A15Rik</i>	0,737501388	1,277802564	0,805200771	1,766637948	1,038116769
<i>Gdf9</i>	0,883999875	1,451339997	1,11460111	1,886140102	1,085217772
<i>Nudt17</i>	0,851113262	1,474361407	0,971628947	1,686975074	1,154511247
<i>Dnajc30</i>	1,424922728	1,174847377	0,930136449	2,18009489	0,829836087
<i>St3gal2</i>	1,068928177	2,24558042	1,352588392	1,978798857	1,055532519
<i>Abra</i>	1,006754953	1,863119791	0,99850936	1,725722672	1,098649522
<i>Il21</i>	0,079159271	1,656981238	0,207825734	2,009452603	0,494316196
<i>Tmem64</i>	0,253253533	1,722974554	0,74093015	1,862838946	0,954934439
<i>Hs3st3b1</i>	0,02797027	1,408320904	0,641548792	2,342141579	1,575706731
<i>Igfbp4</i>	0,314397516	1,330663066	1,102341179	2,709337401	1,955122682
<i>Dynlt1f</i>	-2,239046644	1,757586556	0	2,484424321	2,989876519
<i>Dynlt1c</i>	-2,258084694	1,774612081	0	2,504256813	3,010974929
<i>Cul3</i>	0,211038531	1,41149022	1,470830538	1,514192002	1,589743527
<i>Xaf1</i>	0,11156157	1,461922862	1,451544062	1,590741341	1,657862877
<i>Golph3</i>	0,353273053	1,394955555	1,466321061	1,633091049	1,725343675
<i>Birc3</i>	0,365363451	1,387968356	1,460453452	1,573146937	1,673849687
<i>Gt(ROSA)26Sor</i>	0,344536429	1,446218733	1,471742603	1,598194388	1,603580517
<i>Pabpc1</i>	0,154122748	1,200465495	1,507031605	1,765739305	1,674910069
<i>Sfn8</i>	0,216966907	1,11855472	1,564239651	1,538513511	1,825971892
<i>Trim34a</i>	0,260998571	1,119027955	1,48440293	1,547858493	1,73730812
<i>Rpl27</i>	0,296652946	1,030114906	1,475720052	1,514793833	1,824946888
<i>Ythdf2</i>	0,408945652	1,236612578	1,561121176	1,524759567	1,7403443
<i>Mat2b</i>	0,455341508	1,241590686	1,543575722	1,580282798	1,784372186
<i>Ifi35</i>	0,351699741	1,204539408	1,463042633	1,580711433	1,73800277
<i>Marveld1</i>	0,419893297	1,288583448	1,480522162	1,551400754	1,827874896
<i>Tm9sf2</i>	0,379302716	1,284973896	1,456016009	1,545869119	1,818255383
<i>Glipr1</i>	0,249354291	1,252428846	1,500537169	1,522639452	1,710554947
<i>Actr2</i>	0,288398401	1,238328607	1,568453636	1,482478722	1,790728782
<i>Btf3</i>	0,163981631	1,197364728	1,580157944	1,440193284	1,660105882
<i>Cbfb</i>	0,267094362	1,109008687	1,440405796	1,384572484	1,696709653
<i>Zgpat</i>	0,335344011	1,140312664	1,490388526	1,427675445	1,751240374

<i>Pde7a</i>	0,300043682	1,340280627	1,645007504	1,412272238	2,149737444
<i>Rpl5</i>	0,208350132	1,204454719	1,57891112	1,617678976	2,004383567
<i>1700001K23Rik</i>	0,208315911	1,052641185	1,213109075	1,694010569	1,956634794
<i>Rcn1</i>	0,211991429	0,963529616	1,095783764	1,643969187	1,869864964
<i>Dph5</i>	0,071670626	1,179831669	1,279142252	1,67083308	1,982779002
<i>Rapgef6</i>	-0,068977719	1,168917327	1,21316063	1,50218883	1,687657346
<i>Sos1</i>	0,245101154	0,967477284	1,478454229	1,13670147	1,769064628
<i>Nlrc3</i>	0,357284596	1,041243347	1,282796446	1,143890606	1,80688269
<i>Zfp869</i>	0,259335412	0,962105387	1,47764598	1,346679699	1,977729587
<i>Gm12657</i>	0,16541241	1,097604421	1,441951573	1,409321961	1,874885153
<i>Crtam</i>	0,031344538	1,039233876	1,649929073	1,091751435	1,856584853
<i>Rab8a</i>	0,353506415	0,79639134	1,501460123	1,594784432	2,080581197
<i>Sike1</i>	0,313626347	0,62399317	1,293920967	1,606575652	2,212038588
<i>Adam19</i>	0,035864605	0,818446652	1,727218139	1,533163156	2,203834196
<i>Arpc4</i>	0,559612471	1,021411193	1,471802166	1,544923256	1,654715778
<i>Mov10</i>	0,553144174	1,134073813	1,502472657	1,568124111	1,781546487
<i>Ube2j2</i>	0,489137249	0,989425179	1,456916126	1,469916042	1,814773927
<i>Oas1b</i>	0,445285545	1,075953656	1,637511394	1,58137442	1,683455194
<i>Rpl35</i>	0,473202774	0,986981033	1,658322825	1,444909339	1,679857243
<i>Ccnt2</i>	0,400515948	1,169152482	1,599616944	1,418525571	1,647204463
<i>Wdr1</i>	0,437817443	1,186200256	1,535882106	1,358202034	1,71673684
<i>Ejf4e</i>	0,43993249	1,241100017	1,538549316	1,416003824	1,608220829
<i>Sfrs18</i>	0,43347101	1,199536308	1,534677889	1,430783888	1,567965791
<i>Ube2n</i>	0,497638024	1,235273579	1,456035168	1,430258934	1,5902968
<i>Rpl22</i>	0,518115849	1,130867035	1,435997096	1,433155094	1,745492115
<i>Capza1</i>	0,455673401	1,203569898	1,453961189	1,453772883	1,721258818
<i>Atp8b2</i>	0,641874643	1,197274157	1,561920004	1,493966746	1,902999313
<i>1810008A18Rik</i>	0,63216647	1,190481057	1,597946956	1,487166501	1,836824891
<i>Il10rb</i>	0,691314263	1,171901885	1,570195526	1,441844015	1,856674114
<i>2810407C02Rik</i>	0,68512843	1,157944832	1,607564978	1,535042134	1,799237135
<i>Tdg</i>	0,640070489	1,277857206	1,54874781	1,49657423	1,744625016
<i>Gm9855</i>	0,64252409	1,298945552	1,550031865	1,512649212	1,753009677
<i>Itfg3</i>	0,616404202	1,270871364	1,626116641	1,533405266	1,746350632
<i>Ube2g2</i>	0,660379848	1,237687325	1,539384281	1,589217674	1,776469555
<i>Atp5l</i>	0,500190935	1,256902804	1,705786597	1,519853282	1,876556938
<i>Plcl2</i>	0,478226977	1,200277329	1,612650328	1,554983027	1,867101107
<i>Cct5</i>	0,526871243	1,261770458	1,648659063	1,514853369	1,82064409
<i>Dnajc5</i>	0,548927017	1,274004417	1,644181255	1,569852308	1,793761414
<i>Cib1</i>	0,596342054	1,065682539	1,598499482	1,448852762	1,896923474
<i>Zfp386</i>	0,562644644	1,110245453	1,494117125	1,388717303	1,926974749
<i>Slmo2</i>	0,584561513	1,152904032	1,695804687	1,302850941	2,047051179
<i>6720483E21Rik</i>	0,591206109	0,933525848	1,6558977	1,46901605	1,83483332
<i>AW011738</i>	0,543009241	1,056508173	1,691571347	1,519847503	1,97475301
<i>Polr2e</i>	0,46018857	0,98130319	1,584788353	1,317841686	2,094206116
<i>Nod1</i>	0,425404713	0,866223131	1,506204679	1,322844104	2,014386459
<i>Klhdc3</i>	1,03486124	1,143288452	1,426615168	1,291403813	1,984324858
<i>2510039O18Rik</i>	1,019007547	1,067727374	1,467391087	1,27992118	1,849207564
<i>Cbx8</i>	0,916636164	1,122241344	1,548756313	1,001706052	1,905596305
<i>Slc12a7</i>	0,762992871	1,056934068	1,424493509	1,311286529	1,90625885
<i>Gmppb</i>	0,706896463	1,127870396	1,460237447	1,180654166	1,907471541
<i>Adam1a</i>	0,704968448	1,186041751	1,332586602	1,059239534	1,937357228

<i>Tacc1</i>	0,863180205	1,165556315	1,512620654	1,202093149	1,689415663
<i>Ring1</i>	0,801417521	1,192085608	1,488048302	1,177842552	1,606634977
<i>Ndufs8</i>	0,852073112	1,137363985	1,43883151	1,275232728	1,634771221
<i>Zfp598</i>	0,736791937	1,151984373	1,434136793	1,198484345	1,700485555
<i>Mpnd</i>	0,960852356	1,144167317	1,348740337	1,196951195	1,689841652
<i>Oas3</i>	0,960789191	1,173469252	1,434918894	1,266082633	1,732245781
<i>Nmb</i>	0,92667401	1,109421368	1,349295871	1,310941124	1,706792225
<i>Lphn1</i>	0,86110695	1,080184284	1,439705943	1,130290923	1,590483686
<i>Adrm1</i>	0,829389389	1,111605185	1,412825702	1,138463254	1,690127059
<i>Pltp</i>	0,899714583	1,032240306	1,358309465	1,117105689	1,742643156
<i>Fiz1</i>	0,960897444	1,03706509	1,411382804	1,138171707	1,746080701
<i>Z510049J12Rik</i>	0,991884956	1,065160569	1,556597886	1,133832023	1,72566189
<i>Tmem186</i>	0,701071896	0,870187617	1,40823358	1,195637603	1,814115746
<i>Rpl38</i>	0,797042193	0,860075686	1,542680341	1,138946982	1,718020444
<i>Zfp62</i>	0,75289827	1,279503783	1,540337238	1,239448699	1,592803875
<i>Ppp5c</i>	0,812677407	1,291938916	1,617379961	1,334387154	1,568372438
<i>N4bp2l1</i>	0,80313455	1,122801538	1,534285527	1,262802897	1,553256173
<i>Slc25a3</i>	0,67846437	1,131867733	1,688389047	1,300466064	1,793731198
<i>Sdccag3</i>	0,699325579	1,125545292	1,688126767	1,321035486	1,636274855
<i>Slc25a30</i>	0,82089354	1,23308488	1,578863657	1,383231728	1,929579173
<i>Pgm1</i>	0,834527816	1,347646764	1,605523238	1,385732521	1,847883655
<i>Evl</i>	0,897666431	1,269062448	1,532720268	1,454579808	1,787790953
<i>Mta2</i>	0,856703917	1,221263773	1,512867502	1,426409035	1,830270025
<i>Z1810013D10Rik</i>	0,818795237	1,31877158	1,626656782	1,426691732	1,716545215
<i>Stau1</i>	0,761985454	1,330209413	1,620961856	1,452388911	1,743916917
<i>Sart1</i>	0,775705152	1,232640985	1,599036272	1,400505965	1,781678137
<i>Srsf1</i>	0,87644394	1,172495854	1,508253996	1,276416353	1,866036965
<i>Hip1r</i>	0,867967251	1,268717527	1,589781957	1,275176239	1,8074673
<i>Khsrp</i>	0,774938984	1,124151387	1,538326154	1,259054464	1,789477562
<i>ZAl854703</i>	0,689764659	1,046180999	1,753049565	1,062261992	1,492545596
<i>Tspan9</i>	0,505760231	0,871268059	1,684816558	1,139688946	1,713907414
<i>Eng</i>	0,600224325	0,805259942	1,501757101	0,825740164	1,836308451
<i>Fbll1</i>	0,607090787	0,929918178	1,631274979	0,763313926	1,768073612
<i>Eif1</i>	0,582776044	1,000748581	1,522343137	0,980610565	2,005039181
<i>Z1700016G22Rik</i>	0,564751868	1,013795687	1,540990287	0,957707507	1,920537548
<i>B3gnt3</i>	0,751787243	1,318422917	1,419037877	1,546236337	1,807643086
<i>Nat15</i>	0,655008084	1,379027122	1,425844166	1,575877313	1,761550321
<i>Kin</i>	0,647762214	1,322636516	1,397929397	1,436469386	1,788759941
<i>Rps24</i>	0,597680865	1,184834765	1,347466971	1,494642264	1,815288203
<i>Tbrg4</i>	0,710727321	1,176039972	1,44297045	1,465622903	1,784617664
<i>Irak2</i>	0,920031545	1,287876521	1,284285571	1,539221747	1,756611515
<i>Cyb561d2</i>	0,942733171	1,32510468	1,386604016	1,540745633	1,815077074
<i>Ndufa6</i>	0,871065195	1,317002134	1,253366202	1,432165361	1,784570238
<i>Gm16675</i>	0,855593925	1,408460031	1,323688866	1,573840455	1,679577374
<i>Ikbkb</i>	0,762952429	1,044657992	1,305354815	1,493431616	1,745446407
<i>Stip1</i>	0,791184931	1,138711356	1,331116916	1,545987748	1,628176378
<i>Pole2</i>	0,69579716	1,041248977	1,157574666	1,553126477	1,631367053
<i>Fndc5</i>	0,634384613	1,137143741	1,371849476	1,661396134	1,691184284
<i>ZGm19589</i>	0,840890676	1,163557937	1,314741146	1,360565892	1,89768494
<i>Ckap4</i>	0,874514369	1,112400174	1,324969702	1,437479557	1,80652003
<i>Mfng</i>	0,793381343	1,192839729	1,302865944	1,51623727	1,848945578

<i>Ilk</i>	0,85048145	1,234230425	1,246426471	1,539852046	2,008157934
<i>Myd88</i>	0,788273138	1,065265653	1,077749205	1,470436766	1,884257043
<i>Gltscr1</i>	0,725304269	1,097644214	1,313755	1,470149007	1,977207579
<i>B3gat3</i>	0,766481077	1,070911733	1,495787057	1,48272554	1,984019507
<i>Tceb2</i>	0,675242006	1,245451337	1,441879854	1,510258955	1,933371201
<i>Polg2</i>	0,68696089	1,269860031	1,405139056	1,389248644	1,924030083
<i>Slc30a1</i>	0,811252874	1,300474696	1,392691451	1,467907216	1,996924654
<i>Klhdc1</i>	0,644019157	0,99350036	1,279584389	1,643775251	1,872540973
<i>Rps6</i>	0,54457486	1,103628084	1,38700689	1,518776985	1,958060162
<i>Rpl31</i>	0,482896253	0,994902871	1,135651008	1,589909863	1,967383374
<i>Palm3</i>	0,640848569	1,055793966	1,320000204	1,478644083	2,173327066
<i>Rhoc</i>	0,66694951	1,115461021	1,208315521	1,683905925	2,076246515
<i>Dtx3l</i>	0,4391903	1,286229534	1,328561713	1,556412598	1,805221705
<i>Tmem173</i>	0,346484479	1,277021753	1,24126167	1,528505114	1,855453374
<i>Myo1g</i>	0,425557925	1,187448651	1,380701611	1,713609093	1,927128205
<i>Rpl19</i>	0,339808054	0,983054523	1,310979306	2,021605075	1,808176634
<i>Ppm1j</i>	0,531074542	1,199340395	1,158702412	1,971537547	1,786830157
<i>Tmem141</i>	0,549980073	1,036297671	1,386955339	1,957596144	1,971928947
<i>1110038D17Rik</i>	0,636575533	1,088538836	1,510473733	2,006936533	2,056192322
<i>Fam101b</i>	0,809169904	1,057576772	1,292096035	1,924543839	2,082539013
<i>D630010B17Rik</i>	0,573249716	0,994643724	1,300477836	1,784601831	1,526773338
<i>Ppp1r27</i>	0,688902003	0,842200409	1,466422276	1,847633022	1,54714347
<i>Tor1a</i>	0,840207492	1,282763185	1,744487038	1,531482577	1,582640732
<i>Prss43</i>	0,783743194	1,187424473	1,78213392	1,57581077	1,663269069
<i>Cdkn2aip</i>	0,56606786	1,365102732	1,641852582	1,550662544	1,423662695
<i>Ppp1r3f</i>	0,751388579	1,485452319	1,719679207	1,488031139	1,588537718
<i>Ndufa4</i>	0,796275713	1,39883445	1,737410312	1,511277828	1,544328704
<i>Srsf4</i>	0,779885355	1,396725499	1,905469533	1,426509245	1,71209836
<i>Polr2m</i>	0,685427479	1,485017034	1,67857312	1,352811557	1,703352448
<i>Chmp2a</i>	0,750264707	1,442486743	1,666978003	1,379920141	1,647423743
<i>Slc16a6</i>	0,767031153	1,36899788	1,741615787	1,330480331	1,713701484
<i>Smap2</i>	0,717786165	1,34310587	1,716740282	1,317131866	1,726782136
<i>Eif3g</i>	0,457450351	1,182177685	1,680945108	1,12334512	1,917207265
<i>Cd226</i>	0,471103641	1,239122477	1,833053641	1,142933194	1,753289027
<i>Il2rb</i>	0,624736409	1,407672602	1,74973044	1,085097543	1,889007103
<i>Txn2</i>	0,678356661	1,380602584	1,575268142	1,375591599	1,86773244
<i>Smcr8</i>	0,629270269	1,373346096	1,535508721	1,268033291	1,947983452
<i>Csnk2b</i>	0,531138578	1,567906881	1,639551891	1,25231982	1,802510139
<i>Atp5c1</i>	0,620982969	1,485579646	1,743817474	1,524451639	1,873989455
<i>Dnaja1</i>	0,623533163	1,525035954	1,787044658	1,431679744	1,876990664
<i>Tab2</i>	0,723834864	1,537141641	1,661200644	1,459690238	1,84116581
<i>Luc7l3</i>	0,667169677	1,561921772	1,753324532	1,633124213	1,823928096
<i>Psd4</i>	0,753589121	1,558911651	1,732060742	1,653362209	1,795572361
<i>Mll1</i>	0,751888567	1,574608347	1,666284416	1,595524512	1,844361406
<i>Rictor</i>	0,748077178	1,595837046	1,70541503	1,609986142	1,904079373
<i>Foxn2</i>	0,752315972	1,487823657	1,698007699	1,653601703	1,913891664
<i>Cox7a2l</i>	0,745287271	1,49810234	1,732158434	1,630253421	1,927471777
<i>Myst3</i>	0,661233373	1,545313037	1,733833989	1,706009414	2,016489286
<i>Atxn2l</i>	0,669026965	1,541686128	1,783507473	1,643420487	2,061081618
<i>Dcaf7</i>	0,666104515	1,530207076	1,83461774	1,63730823	1,945142432
<i>Pak2</i>	0,56202835	1,622031471	1,762552874	1,593087404	2,019801938

<i>Cblb</i>	0,540886345	1,524598563	1,595399525	1,702676181	1,915132753
<i>Cggbp1</i>	0,501277531	1,644192154	1,575007885	1,555801245	1,999746039
<i>Icos</i>	0,606324241	1,647665305	1,583404779	1,517427535	1,801777797
<i>Zfp865</i>	0,654675832	1,739956776	1,581485074	1,56929833	1,905299577
<i>1700113A16Rik</i>	0,761398765	1,502390018	1,433168882	1,587958182	1,920166323
<i>Slc37a3</i>	0,71346648	1,588431793	1,457672444	1,568252769	1,829720391
<i>1700101111Rik</i>	0,809668729	1,608669646	1,530342574	1,587480744	2,001697593
<i>Dnase2a</i>	0,742977597	1,556760328	1,449203751	1,361025176	1,965071554
<i>Zfp628</i>	0,791283228	1,563444786	1,538541932	1,391374833	1,907164688
<i>Sept11</i>	0,578736382	1,412940993	1,625119604	1,440274903	1,792726171
<i>Tbk1</i>	0,558872239	1,392384099	1,653742995	1,447540164	1,692232237
<i>Zbtb4</i>	0,632970487	1,431011909	1,614498043	1,488958619	1,732502803
<i>Pum1</i>	0,643743265	1,414299859	1,624664915	1,473147454	1,708072009
<i>Isca1</i>	0,58652103	1,499152007	1,649962603	1,467854519	1,70274042
<i>Cpne1</i>	0,588707128	1,426762302	1,691269407	1,606426854	1,67050085
<i>Tcf20</i>	0,574700536	1,41121897	1,640429756	1,55284559	1,656992687
<i>Lemd3</i>	0,678230858	1,352828205	1,584848491	1,575777109	1,811155174
<i>Prdm2</i>	0,681561376	1,386907466	1,635555356	1,565051536	1,78718361
<i>Minos1</i>	0,709731851	1,33550141	1,572108491	1,51241599	1,746824174
<i>Gbp4</i>	0,715503984	1,402578629	1,687393286	1,495714694	1,761332164
<i>Hnrnpc</i>	0,58008856	1,510830142	1,727159183	1,538068109	1,697913484
<i>Slc15a1</i>	0,589414787	1,510124791	1,76397455	1,516014636	1,649786021
<i>Ms4a6d</i>	0,647430348	1,555053073	1,818710092	1,589155902	1,755919783
<i>Arglu1</i>	0,450259455	1,524249545	1,737952356	1,59679892	1,748515019
<i>Lsm14a</i>	0,459701698	1,544084249	1,711849305	1,549785796	1,736128375
<i>Ndfip1</i>	0,497987465	1,593033543	1,652885075	1,611827492	1,76825121
<i>Srp9</i>	0,44684546	1,379295379	1,813994344	1,455749921	1,802688485
<i>Snrk</i>	0,417707087	1,435658684	1,876897586	1,480635136	1,900284576
<i>Mdm2</i>	0,50885139	1,442459946	1,671206256	1,511886905	1,807565164
<i>Cct2</i>	0,518049255	1,38485181	1,688265097	1,568719255	1,908267705
<i>Fam134c</i>	0,366473798	1,517491207	1,699239546	1,569859576	1,838851187
<i>N4bp2l2</i>	0,291821276	1,45673672	1,647389395	1,509413604	1,88094021
<i>Sf3b1</i>	0,363300376	1,429795873	1,673791235	1,637458134	1,724483945
<i>Abhd14b</i>	0,367281362	1,641491021	1,372065514	1,602449383	1,793050191
<i>Tmem126a</i>	0,511357612	1,589331769	1,272063518	1,548214772	1,736085182
<i>C78339</i>	0,4691355	1,449942657	1,456399448	1,441138419	1,827716468
<i>Mettl9</i>	0,46457112	1,430476445	1,474679245	1,65143832	1,852954161
<i>Tshz1</i>	0,490141273	1,470282695	1,482198252	1,814265603	1,783005806
<i>Sdf4</i>	0,460321667	1,663299366	1,546942589	1,681161718	1,760528558
<i>Hk3</i>	0,488567331	1,615833655	1,536482342	1,633671175	1,772151353
<i>Zfp524</i>	1,050450227	1,856272211	1,548244022	1,391248427	2,67284221
<i>Eid2</i>	0,773465336	1,678828052	1,259171357	1,037664037	2,833093097
<i>Alkbh4</i>	0,673664473	0,975321674	1,612291731	1,934454209	3,073778357
<i>Gm12504</i>	0,682161151	1,00511434	1,637117126	1,208049769	2,528891824
<i>Scx</i>	0,823201799	1,253994091	1,656070264	1,078359053	2,534438497
<i>Kremen2</i>	1,003928887	1,000909943	1,5382938	1,278351788	2,325258369
<i>S100a10</i>	0,464734058	1,102015024	1,521442758	1,113880403	2,087876638
<i>F2r</i>	0,483381182	1,340245299	1,534622675	1,173135492	2,093799216
<i>Arhgdig</i>	0,534495964	1,225295109	1,647810148	0,966510836	2,37486696
<i>Gpr68</i>	0,559279729	1,146522093	1,972702294	1,093178755	2,848773328
<i>Snhg10</i>	0,833690995	0,792806505	1,976040154	0,919441703	2,275968414

<i>Itgae</i>	0,629594086	0,870035342	1,895688302	0,938453591	2,069222941
<i>Cxcl10</i>	0,592287799	1,090569517	1,987905927	0,780943731	2,325192261
<i>Ccdc102a</i>	0,751498532	1,147395957	2,183837394	1,248311746	2,39258669
<i>Lsp1</i>	0,894723079	1,14445099	2,100192266	1,337160008	2,243775231
<i>5730508B09Rik</i>	0,969309848	1,249737382	1,960779677	1,091866225	2,334770865
<i>Haa0</i>	0,776325594	0,863223047	1,765314099	1,030946366	2,04167133
<i>Bend4</i>	0,935718538	0,921364768	1,707944059	1,063057774	1,994534542
<i>Rpl28</i>	1,05835572	0,704242637	1,857853037	1,180204083	2,268664661
<i>Gpr114</i>	0,267776013	0,565318288	2,165934798	0,662607427	2,498109734
<i>Cxcr6</i>	0,183212932	0,754126182	1,46896772	0,755595097	2,347095272
<i>D930028M14Rik</i>	0,615652464	1,649842299	2,31271627	2,213518164	2,657175405
<i>B230219D22Rik</i>	0,636943489	1,652081235	2,227683767	2,000402407	2,777089401
<i>Arid5a</i>	0,766240413	1,683877496	2,218193434	2,244228105	2,865720266
<i>BC037034</i>	0,89629439	1,596330868	2,314258529	2,190132715	2,782166927
<i>Fam158a</i>	0,779226781	1,77300002	1,9346335	2,241614633	2,802616453
<i>Glipr2</i>	0,819160255	1,433444691	2,301736275	2,033996657	2,498325545
<i>Fam113b</i>	0,640258487	1,479707133	2,094685049	2,174355712	2,535627328
<i>Fam65b</i>	0,888532799	1,552087158	2,018225371	2,153582198	2,558288013
<i>Rpl32</i>	0,934306971	1,518321379	2,031782482	2,048535101	2,388534289
<i>Srrm2</i>	0,91156877	1,827621293	2,052337197	1,989781668	2,42444106
<i>Tmem59</i>	0,954588244	1,741990944	2,05060598	1,91742288	2,3524424
<i>Spsb3</i>	0,960766767	1,760206129	1,921842167	1,965641157	2,409953246
<i>Agap2</i>	1,061486854	1,779956597	2,065912384	2,067419312	2,547903183
<i>Sp3</i>	0,788429349	1,701139725	2,088414801	2,068281188	2,306855122
<i>Rpl17</i>	0,77654462	1,682423031	2,157579667	2,044611673	2,381740746
<i>Trp53</i>	0,841385339	1,759567988	2,157605887	1,859881697	2,37528765
<i>Rps19</i>	0,895945204	1,737577703	1,990834166	2,161571196	2,403739971
<i>Add3</i>	0,822056169	1,693483053	1,913538262	2,161104009	2,316144714
<i>Ldha</i>	0,845568127	1,814663572	1,904145588	2,26571089	2,255229589
<i>Avpr2</i>	0,761234466	1,762850558	2,006734573	2,190095966	2,506635912
<i>Ccnd2</i>	0,34986514	1,78258168	2,088259239	2,190723725	2,480095409
<i>4921508A21Rik</i>	0,108224474	1,652796641	2,146874198	2,317639182	2,575683767
<i>Hus1b</i>	0,648583903	1,538252328	2,0427677	2,594887378	2,714839845
<i>Rasa3</i>	0,706875199	1,707081745	2,193603296	2,492055368	2,866210214
<i>Enpp7</i>	0,471707205	2,193885397	2,106450104	1,695257381	2,304106977
<i>Egr3</i>	0,08131398	2,051463722	2,164824229	1,792784741	2,695525912
<i>Npff</i>	0,27476667	1,788906606	2,42150958	1,401328234	2,347781483
<i>Vat1</i>	0,814398613	1,388410008	1,428782646	1,733217867	2,171898163
<i>Gcc1</i>	0,599476241	1,388992585	1,397149291	1,528667195	2,123765567
<i>1700061G19Rik</i>	0,717855722	1,230196923	1,573551273	1,753806077	2,215374902
<i>Kcnab2</i>	0,672590909	1,189337933	1,523986767	1,831959526	2,04855031
<i>Cdc42</i>	0,621281896	1,24939763	1,665642515	1,722493709	2,055569617
<i>Irgm1</i>	0,66595623	1,363402424	1,657318078	1,731235885	2,074690706
<i>Slc35b3</i>	0,505155549	1,412652957	1,547885897	1,729600205	2,081158335
<i>Rpl4</i>	0,332197476	1,395559255	1,497841868	1,814400339	2,113467167
<i>Slc30a7</i>	0,467137386	1,495987312	1,470198584	1,89053146	2,015733098
<i>Rpl37</i>	0,340747567	1,292109252	1,578863402	1,959576543	2,038822675
<i>Dapl1</i>	0,320966365	1,370499604	1,652239806	1,87058842	2,295834132
<i>Ms4a4b</i>	0,433403271	1,460439538	1,769873919	1,860468446	2,18776772
<i>1700017B05Rik</i>	0,685360965	1,273863569	2,006588352	1,428590656	2,328791239
<i>Oplah</i>	0,610160299	1,2838465	1,96815439	1,613106616	2,200392859

<i>S100a4</i>	0,625275563	1,042407377	1,814669663	1,412825027	2,358676119
<i>Gnb2l1</i>	0,602059575	1,456021092	1,690239673	1,491992287	2,020951028
<i>Cant1</i>	0,643424443	1,406777478	1,698479964	1,456080223	2,02981781
<i>Exosc3</i>	0,607411542	1,439802628	1,818070507	1,413929066	2,030906528
<i>Trim12a</i>	0,654022554	1,338539699	1,778277013	1,703670504	1,967408156
<i>Brd4</i>	0,625847431	1,409676189	1,802006485	1,626666988	1,997374462
<i>G3bp1</i>	0,712598293	1,375776845	1,853654077	1,703058425	2,019950543
<i>H2-K1</i>	0,636952369	1,240966969	1,711355374	1,602641178	2,205924046
<i>Set</i>	0,687593201	1,296404641	1,606616623	1,504369719	2,173675955
<i>Apol7e</i>	0,693791595	1,393835142	1,733081159	1,669964642	2,262113324
<i>A930005H10Rik</i>	0,012125995	1,264535545	1,632492407	1,881645019	2,373315858
<i>Card6</i>	-0,018831207	1,253059459	1,612195652	1,844259722	2,175207572
<i>H2-D1</i>	0,135888918	1,273334411	1,949822806	2,067794938	2,41544212
<i>Sgk1</i>	0,465975954	1,139822328	1,499594359	1,957891015	2,49936751
<i>F2rl1</i>	0,140288731	1,282283101	1,467516873	1,914159545	2,525589933
<i>H2-Q7</i>	0,281830465	1,256888803	1,654912094	1,651256833	2,750473517
<i>H2-Q9</i>	0,264686174	1,264821961	1,654924344	1,662171636	2,748344235
<i>Sepw1</i>	0,676152405	1,569810143	2,170745866	1,710029098	2,264503551
<i>Ankrd10</i>	0,661520239	1,563702729	2,059003737	1,624717814	2,128406074
<i>Rarg</i>	0,814443675	1,434248301	2,104376339	1,591403105	2,276670944
<i>Lime1</i>	0,686260952	1,427391353	2,326079884	1,797692736	2,172031311
<i>Mfsd5</i>	0,597260492	1,419677491	2,20109879	1,696644683	2,532584271
<i>Ostf1</i>	0,581059975	1,374374874	2,001527569	1,743313438	2,495869745
<i>U2af2</i>	0,503804038	1,516713436	1,921530477	1,746417606	2,109815444
<i>Serbp1</i>	0,35721369	1,470282448	1,898063712	1,799599128	2,055457612
<i>Cnbp</i>	0,419330146	1,533793169	2,083375279	1,758285199	2,128662772
<i>Cx3cr1</i>	0,299613385	1,62537686	2,075747446	1,631297677	1,99642327
<i>Srsf10</i>	0,347290092	1,397767989	1,782661377	1,590384119	2,072984605
<i>Agfg1</i>	0,273444863	1,36497363	1,854597867	1,718057698	2,122019471
<i>Rps15a</i>	0,399050048	1,363231746	1,953782823	1,440897431	2,134703972
<i>Paqr7</i>	0,752835823	1,487206057	1,963569135	1,879008981	2,257070667
<i>D8Ertd82e</i>	0,618575606	1,581896725	1,884143737	1,894437069	2,384638159
<i>Rpl21</i>	0,841789855	1,507241475	1,92270776	1,964311914	2,427745222
<i>Rnf31</i>	0,782424964	1,608308303	1,979187706	1,95836513	2,444401452
<i>Nol7</i>	0,757703901	1,562134503	1,668116939	1,854398212	2,422967248
<i>Prf1</i>	0,684065363	1,545011159	1,672066738	1,923859778	2,336832784
<i>Capzb</i>	0,789890298	1,458643317	1,796305194	1,794554286	2,192403475
<i>Fbl</i>	0,799938435	1,387812058	1,758811998	1,921229991	2,13987809
<i>Slc17a9</i>	0,755078824	1,335511609	1,887336284	1,901387284	2,236232531
<i>Eif5a</i>	0,674301087	1,297454494	1,913917139	1,779486979	2,218920515
<i>Tgtp2</i>	0,398874865	1,411181338	1,746960314	1,962218715	2,498803114
<i>Tgtp1</i>	0,398874326	1,410435942	1,753711206	1,973766483	2,498804683
<i>Cisd3</i>	0,502275768	1,497253588	1,897885952	1,904311148	2,595064482
<i>Irf2</i>	0,733608957	1,646595362	1,955991754	2,043770013	2,240511195
<i>Smurf1</i>	0,550840039	1,731953023	1,922239438	2,084488789	2,194726976
<i>Rps3</i>	0,55685457	1,707087644	1,835277346	2,002064571	2,410535584
<i>4930420K17Rik</i>	0,479376165	1,784379027	1,867597141	2,070057304	2,368728706
<i>Rnf149</i>	0,522975469	1,865814692	1,922447919	1,822782355	2,12597267
<i>Actr3</i>	0,424267687	1,819081746	1,957765383	1,859226083	2,108088766
<i>Anxa6</i>	0,580077935	1,724519881	1,85582197	1,872993743	2,090313365
<i>Mapk1ip1l</i>	0,582164773	1,788850765	1,856958148	1,962126432	2,098136631

<i>Son</i>	0,631326651	1,810920044	1,910225052	1,90051523	2,285551388
<i>Tomm20</i>	0,610181128	1,779256024	2,046637167	1,756487578	2,227943955
<i>Cox10</i>	0,511733036	2,010249814	1,795474747	2,241657794	2,193113296
<i>Gm11517</i>	0,415171792	1,898932003	1,734341841	2,257168933	1,879615926
<i>Tes</i>	0,162167034	1,895968559	1,744634681	1,940425635	1,851318372
<i>Il7r</i>	0,133934755	1,841960578	1,436475171	2,092248379	1,859778588
<i>I830012O16Rik</i>	0,372727482	1,927602725	1,277082817	1,723078463	2,209038056
<i>Ddx19a</i>	0,568693944	2,387397947	1,679862985	2,061145213	1,570780454
<i>Xylt2</i>	0,632048878	2,248565282	1,781525012	2,184845457	1,783189723
<i>Gm13546</i>	0,461510629	2,140744524	1,445428391	2,094057064	1,514779109
<i>Adat1</i>	0,716420961	2,170390948	1,832252563	1,829785499	1,595211597
<i>Adipoq</i>	0,757552512	2,180318017	1,74756877	1,764715805	1,589568964
<i>Zfp146</i>	0,236830661	1,772508235	2,039651018	1,957571281	2,268204636
<i>Ifi2711</i>	0,081820254	1,774321405	1,934021914	1,927380278	2,072143173
<i>Eif4a1</i>	0,392600757	1,64509151	1,905399442	1,904735877	2,201117269
<i>Chd7</i>	0,39887201	1,648419703	1,864822036	2,048761566	2,147217102
<i>Sesn3</i>	0,301274733	1,71610242	1,867744247	1,905938166	2,086818623
<i>1810013L24Rik</i>	0,610389867	1,726527514	1,957062181	1,919381099	1,989959705
<i>Rbm12</i>	0,623119307	1,726302364	2,018955334	1,954757158	1,981475457
<i>Ppp1cb</i>	0,442295123	1,860561409	1,986541249	1,932978376	1,968333612
<i>Rgs19</i>	0,606843947	1,844817006	2,165307119	1,913420686	2,073315897
<i>Ppp4r2</i>	0,553246488	1,875629729	1,995840716	1,670577883	1,940996251
<i>Rap1a</i>	0,582527003	1,896043504	1,930829053	1,82300554	1,969245647
<i>Ptgfrn</i>	0,606394649	1,778884163	1,791630676	1,949668122	1,838881499
<i>Dennd2d</i>	0,650202558	1,759352935	1,744707619	1,821947529	1,860684148
<i>Stat6</i>	0,540919685	1,734551077	1,805305535	1,874246291	1,936906916
<i>Pacsin1</i>	0,592226245	1,743669574	1,728232941	1,853954269	1,983041719
<i>Rabif</i>	0,519733079	1,629891523	1,605945363	1,757001925	1,86052947
<i>Fam75d3</i>	0,532622421	1,607391572	1,633642222	1,817410016	1,846151877
<i>Dusp11</i>	0,496181303	1,622414682	1,642388363	1,899433668	1,81927113
<i>Gpr83</i>	0,483213414	1,673538267	1,638647271	1,972206656	1,632371987
<i>Spag7</i>	0,536868285	1,721232776	1,821958294	2,058255948	1,716774848
<i>Rps13</i>	0,231366405	1,544207647	1,743354669	1,80352435	1,847900575
<i>Ms4a6b</i>	0,395558356	1,526139452	1,922164424	1,94616413	1,854966665
<i>Hnrnpa2b1</i>	0,474806793	1,367809383	1,809739963	1,815404066	1,844299818
<i>Rpl6</i>	0,415355737	1,350391017	1,647388168	1,869754186	1,854574134
<i>Fam26f</i>	0,564927067	1,411909841	2,157520265	2,114791955	2,227824636
<i>Rg9mtd1</i>	0,49330011	1,613873175	2,108270374	2,031244563	2,330752698
<i>Trem12</i>	0,436309826	1,678010612	2,126828386	2,294011991	2,159524826
<i>B130006D01Rik</i>	0,767029144	1,644621798	2,226049778	2,200516778	1,95372265
<i>Fryl</i>	1,13821008	1,629041988	1,769140209	1,674538321	2,016516364
<i>Mgat4b</i>	1,118776394	1,661962285	1,723081881	1,680417421	1,949882585
<i>Tecr</i>	1,102867317	1,547292586	1,742707585	1,666733391	2,017690197
<i>Usp18</i>	1,120569494	1,530475693	1,695196017	1,64549486	1,969607133
<i>Msl1</i>	1,061169667	1,528789899	1,829016191	1,796540292	1,975138703
<i>Uso1</i>	1,026449456	1,599372639	1,778751173	1,766709307	1,911715079
<i>Akap13</i>	1,087720561	1,590637326	1,744098382	1,759266574	2,008478187
<i>Atp1a1</i>	1,089610545	1,574633627	1,766770685	1,814915795	1,985199338
<i>Erp29</i>	0,992565191	1,439446622	1,697305002	1,690522295	1,970651984
<i>Mll2</i>	1,021010247	1,478865122	1,754424348	1,658319225	2,063603428
<i>Ncdn</i>	1,083949942	1,431012882	1,613204303	1,663628263	1,989050006

<i>Rsb1</i>	1,073164278	1,464061861	1,674762111	1,644426229	1,911821036
<i>Rer1</i>	0,998391928	1,466031947	1,549811731	1,695082396	2,041933028
<i>Pitpnc1</i>	0,884412971	1,507729491	1,622816878	1,755433969	1,960792528
<i>ORF61</i>	0,971107449	1,53911946	1,668194086	1,782513199	2,062628679
<i>Zfp871</i>	1,006274668	1,508721504	1,620708756	1,720888732	2,08935308
<i>Pdcd4</i>	0,931381167	1,457537156	1,675874478	1,812726071	2,103971166
<i>Smc4</i>	1,185572706	1,568910489	1,801405441	1,638254616	2,054344839
<i>Kctd20</i>	1,132687021	1,468572269	1,84629907	1,655355676	2,039525128
<i>1700023F06Rik</i>	1,153899982	1,550325008	1,878638472	1,709808789	2,108863459
<i>Cdc42se2</i>	1,121629762	1,59296042	1,858594445	1,689491081	2,080170847
<i>Ccdc71</i>	1,091580224	1,567952042	1,834160866	1,579940393	2,110028854
<i>Lrrc8c</i>	1,088518718	1,456767745	1,802589484	1,754689317	2,110254481
<i>Fuz</i>	1,11343905	1,410759716	1,769058253	1,741104923	2,058652036
<i>Pex10</i>	1,142883067	1,55107869	1,72796055	1,698355507	2,125927111
<i>Btbd2</i>	1,154531611	1,665879715	1,729516646	1,74144978	2,116557966
<i>Ric8</i>	1,235559135	1,567249137	1,657920062	1,58043391	2,078205346
<i>Fnbp1</i>	1,066860429	1,540029626	1,786187428	1,603140288	1,981201012
<i>Limd1</i>	1,032429817	1,495115316	1,817895653	1,553071211	2,053223087
<i>Fosl1</i>	0,994221857	1,544132541	1,868906694	1,517704564	1,96759943
<i>2410004B18Rik</i>	0,906838934	1,557924087	1,806951846	1,621484273	2,062032938
<i>Hdac1</i>	0,936412846	1,52581596	1,811323922	1,564663632	2,042688171
<i>Atp6v0c</i>	1,014890576	1,640695089	1,839093451	1,556392635	2,050580984
<i>Atp6v0c-ps2</i>	1,014900018	1,653204705	1,846057607	1,556410194	2,043063449
<i>Pten</i>	1,064156078	1,631797048	1,863404809	1,667685907	2,008073788
<i>3110003A17Rik</i>	0,970640438	1,703557007	1,932659866	1,642453262	2,039314105
<i>1600014C10Rik</i>	0,966382202	1,686404436	1,675541643	1,707100435	2,097998383
<i>1700001P01Rik</i>	0,810147478	1,659605849	1,735633494	1,627622493	2,115935359
<i>2810013P06Rik</i>	1,029983048	1,457847345	1,783233507	1,920876696	1,853736907
<i>Cd74</i>	1,039420669	1,569662066	1,81093586	1,921059312	1,752495514
<i>Mettl21d</i>	0,868870338	1,457938638	1,735126104	1,836249805	1,777816454
<i>Rap2b</i>	0,923010906	1,523787897	1,652123459	1,875927043	1,74828456
<i>Capg</i>	0,911278597	1,485030305	1,765404074	1,655553242	1,933411138
<i>D11Wsu99e</i>	0,917091171	1,488769753	1,745245735	1,666220572	1,862163819
<i>Mrps23</i>	0,895510571	1,383001772	1,818702798	1,771692479	1,910102189
<i>Ndufb7</i>	0,940173547	1,529377028	1,816959678	1,782912398	2,04140069
<i>Ewsr1</i>	0,94192462	1,592083879	1,897589245	1,774394563	1,902496147
<i>Aebp2</i>	1,058535672	1,472649215	1,683617207	1,829213661	1,83143192
<i>Letmd1</i>	1,045004476	1,422318512	1,562134162	1,82647516	1,848539451
<i>Acvr1b</i>	1,069580758	1,577012419	1,64415858	1,795210248	1,905394077
<i>Gps2</i>	1,0748606	1,527324693	1,587076827	1,812406758	1,972117422
<i>Atg4d</i>	1,061675411	1,544810106	1,678295896	1,760996044	1,993469293
<i>Tpt1</i>	1,161395366	1,57937022	1,656287255	1,667529742	1,838431538
<i>Cecr5</i>	1,147312885	1,537174723	1,641771179	1,60377831	1,803678159
<i>Pdlim1</i>	1,010824458	1,507607223	1,534055362	1,629884535	1,834594298
<i>Tbc1d22b</i>	1,06686439	1,496151426	1,590314678	1,637381745	1,843068452
<i>Lrrfip1</i>	1,114749076	1,659760024	1,726314608	1,639421294	1,826266977
<i>Tmem194b</i>	1,146764254	1,72031019	1,725363758	1,62545144	1,782463934
<i>Zfp362</i>	1,069006694	1,628271357	1,6656002	1,556790613	1,803823042
<i>4921525O09Rik</i>	0,993696628	1,773252218	1,743389373	1,574481709	1,885296043
<i>Lipe</i>	1,004566356	1,761492086	1,769283114	1,607909772	1,871088891
<i>Idh3b</i>	1,128416622	1,68285853	1,600065312	1,713257959	1,922851285

<i>Cog1</i>	1,117804326	1,669741055	1,653711534	1,560536661	1,94413902
<i>Gm16880</i>	1,127898299	1,715057257	1,769997125	1,498409611	1,854132726
<i>LOC100503496</i>	1,18810621	1,699166368	1,866732606	1,524312753	1,889346038
<i>Btd</i>	1,286305233	1,760478751	1,756646499	1,502040868	1,877789907
<i>Hp1bp3</i>	1,298014367	1,635285518	1,726399616	1,582942722	1,754245912
<i>H13</i>	1,230814524	1,650523682	1,723669401	1,545521144	1,789032405
<i>4930455C13Rik</i>	1,249408889	1,610209413	1,820230342	1,535230693	1,702551208
<i>5430405H02Rik</i>	0,950834333	1,730398049	1,795072621	1,628843247	1,751725735
<i>Rhot2</i>	0,876047923	1,730346578	1,829952739	1,626789684	1,760681719
<i>Baz2a</i>	0,921327065	1,732404476	1,806533384	1,591996833	1,629201664
<i>Crbn</i>	0,972181516	1,755576373	1,699840114	1,652474601	1,685472731
<i>Rin3</i>	1,059833401	1,803226104	1,706710585	1,604671416	1,740371635
<i>Chd1</i>	0,965713945	1,813090543	1,61352605	1,572500833	1,693749361
<i>Drap1</i>	0,917522432	1,47856447	2,068954634	1,896246216	1,732635377
<i>4930539J05Rik</i>	0,981912257	1,339854604	1,989500949	1,803126919	1,574611689
<i>Malat1</i>	1,146380664	1,591890145	2,131959258	1,718673594	1,671588894
<i>Sgms1</i>	1,226939873	1,784717136	1,575419697	1,931642324	1,696589904
<i>Zmynd8</i>	1,263036415	1,830170204	1,701254642	1,991930614	1,771989201
<i>Dyx1c1</i>	1,194202264	1,795783109	1,612388054	1,815609566	1,941599503
<i>Acy1</i>	1,180565162	1,847401293	1,630956896	1,893906798	1,870568729
<i>Tnrc6b</i>	1,218275936	1,630592219	1,762854386	1,684246301	1,822925392
<i>Rab11b</i>	1,180700523	1,685918794	1,755451247	1,758101082	1,843291542
<i>Slc36a3</i>	1,278961378	1,7326746	1,725578888	1,750225931	1,86814954
<i>Derl3</i>	1,192163213	1,779819964	1,648896254	1,686879187	1,80532101
<i>Gm2a</i>	1,157555563	1,602615532	1,616518097	1,782031113	1,775256644
<i>Nfatc2</i>	1,207331524	1,584007999	1,590957523	1,766740918	1,835557682
<i>Bak1</i>	1,236223743	1,66155783	1,534421274	1,819618983	1,821221331
<i>Stk16</i>	0,860112277	1,62527255	1,694148239	2,047384563	1,758415933
<i>Tor1aip2</i>	0,821343712	1,81480581	1,765674817	1,943887883	1,717541722
<i>Nckap5l</i>	1,077158431	1,793637343	1,617964725	1,918545832	1,77872734
<i>Ncoa3</i>	1,038669144	1,72324989	1,681275094	1,919394229	1,828223694
<i>3300005D01Rik</i>	0,916215627	1,772370671	1,669824422	1,909981459	1,826564799
<i>Cldn10</i>	1,054074002	1,706811692	1,740053454	1,767107238	1,795968853
<i>Ncoa2</i>	1,055747341	1,762091519	1,804613488	1,862183018	1,890574813
<i>Wdr73</i>	1,110591832	1,679165243	1,898966745	1,922087361	1,767613337
<i>Gm885</i>	1,181747874	1,675823471	1,725309744	1,94861472	1,86660695
<i>Tnfaip8</i>	1,14101109	1,80910494	1,891665465	1,799493293	1,951870567
<i>Tbc1d16</i>	1,107697084	1,786229167	1,871455525	1,7719399	1,898561405
<i>Ptger4</i>	1,204528217	1,843855043	1,883499258	1,834506454	1,870030245
<i>Ftl1</i>	1,224308698	1,617956636	2,077497121	1,999781101	1,931904845
<i>Plcg1</i>	1,07545719	1,729691046	1,835169772	1,827164061	2,045985265
<i>Ln timer</i>	1,121223523	1,762616633	1,776494619	1,762627553	2,042052077
<i>Cds2</i>	1,210189824	1,730008389	1,741450465	1,766697703	2,003821353
<i>Aim1l</i>	1,254630022	1,704224577	1,883152394	1,888686762	2,04613294
<i>Crlf3</i>	1,222765581	1,712735476	1,810152641	1,871595642	2,03403004
<i>Map3k14</i>	1,198170897	1,740781933	1,795973094	1,879654818	2,119311081
<i>Cep97</i>	1,181150807	1,60806716	1,764178647	1,895247429	2,019483852
<i>D430020J02Rik</i>	1,339128197	1,796220709	1,870031516	1,953745794	2,006448459
<i>Cabp4</i>	1,234476237	1,742021064	1,797661098	1,995978062	2,008631855
<i>4930523C07Rik</i>	1,161112386	1,881900096	1,903056074	1,96748021	1,949970357
<i>Lbp</i>	0,665414529	1,472002376	1,659415473	1,867192565	1,590149553

<i>1500032L24Rik</i>	0,536800211	1,553156801	1,686627306	1,800736619	1,56202208
<i>Fibcd1</i>	0,712302175	1,593399834	1,522887589	1,807543288	1,553364076
<i>Suds3</i>	0,787344064	1,625159523	1,596756646	1,644507345	1,70913509
<i>Ptk2b</i>	0,794981411	1,660335251	1,595660748	1,624390849	1,609022432
<i>Sep15</i>	0,639852547	1,714280849	1,644411137	1,66808573	1,670210864
<i>Mink1</i>	0,583401524	1,727419486	1,608231096	1,870318143	1,656873958
<i>Sae1</i>	0,521359522	1,715678613	1,542573211	1,780368669	1,739151059
<i>Ccng1</i>	0,644085744	1,579299585	1,472963273	1,924828907	1,664415397
<i>Fam186b</i>	0,640497795	1,625984931	1,508518399	1,932704606	1,778821603
<i>Llph</i>	0,880382549	1,53555469	1,433272997	1,868229037	1,763859033
<i>Mrpl12</i>	0,888501145	1,577930059	1,359046997	1,823682185	1,737292623
<i>Chd3</i>	0,793018045	1,674902252	1,338510782	1,954007049	1,663786039
<i>Cbln3</i>	0,839395044	1,353743626	1,437360981	1,848932583	1,656888168
<i>Kifc1</i>	0,785914998	1,423952246	1,458854107	1,879447227	1,65793539
<i>Tmem234</i>	0,761990997	1,360833087	1,409030773	1,925100108	1,740486107
<i>Elf2</i>	0,877944062	1,556407264	1,69526153	1,602996171	1,715542173
<i>Slain1</i>	0,919725025	1,535179599	1,653614092	1,595366897	1,679703951
<i>Rab14</i>	0,803816605	1,474645476	1,703356117	1,617483302	1,675851541
<i>Snx3</i>	0,806991314	1,587360985	1,751715996	1,663940592	1,698087743
<i>Tor1aip1</i>	0,746876827	1,603523002	1,715242682	1,673777287	1,673474652
<i>Olfml3</i>	0,875763615	1,494866635	1,652500379	1,699705997	1,767107862
<i>Purb</i>	0,811527182	1,535704996	1,711981289	1,761895278	1,780130177
<i>St6galnac2</i>	0,753664351	1,568133404	1,596189647	1,755988431	1,8021444
<i>Kansl2</i>	0,915237786	1,646323586	1,601403468	1,730513533	1,755739926
<i>Hiat1</i>	0,920385875	1,625867216	1,696745687	1,727828405	1,779703845
<i>Mapkapk2</i>	0,891475189	1,695906019	1,706796007	1,621367485	1,849892427
<i>Rcor1</i>	0,937435162	1,645591399	1,684055641	1,620736438	1,829392898
<i>Chd2</i>	0,908139019	1,62847906	1,700403279	1,662120334	1,892777044
<i>Traf3</i>	0,910232606	1,591837043	1,695987754	1,587776831	1,896847918
<i>Cep68</i>	0,873295891	1,631483695	1,667332109	1,566998504	1,899752128
<i>Pan3</i>	0,962873626	1,630399101	1,752345055	1,623658514	1,800470846
<i>Pvt1</i>	0,758947212	1,555275445	1,495531581	1,629561032	1,61418662
<i>Psmc8</i>	0,801736832	1,576441985	1,40784527	1,634288282	1,624258671
<i>Ccdc97</i>	0,882630479	1,556794722	1,423118594	1,551293432	1,693329166
<i>Acin1</i>	0,842592533	1,451314772	1,589476217	1,566418883	1,74279081
<i>Ube2h</i>	0,794225706	1,466335653	1,523585484	1,621967236	1,832935954
<i>H2-Ke2</i>	0,802472512	1,750693058	1,518674186	1,797296816	1,604665859
<i>Me2</i>	0,833688455	1,760630316	1,541446159	1,806008812	1,61124979
<i>Gm7457</i>	0,761260853	1,802404861	1,645791846	1,823920794	1,631030575
<i>Gstp1</i>	0,935700884	1,718813302	1,709401551	1,713176246	1,508698222
<i>2310010J17Rik</i>	0,869068288	1,737356995	1,69113995	1,762168412	1,537292794
<i>Dad1</i>	0,79116035	1,85871772	1,569707651	1,584028131	1,553046908
<i>BC017612</i>	0,822870595	1,884557276	1,566136965	1,692398606	1,435286135
<i>Faah</i>	1,002852272	1,860381019	1,495921833	1,724604016	1,734991307
<i>Tnfrsf18</i>	1,067374789	1,902404403	1,392952691	1,742590242	1,559915036
<i>Rab1</i>	0,483263415	1,443954284	1,821321762	1,685554051	1,839341854
<i>Rpf1</i>	0,510370102	1,51048843	1,833061125	1,763229533	1,889284137
<i>Pafah1b1</i>	0,434008595	1,539396197	1,751289535	1,733394045	1,852049331
<i>Ifit3</i>	0,530056589	1,576377139	1,827630896	1,72306448	1,695909887
<i>Skp1a</i>	0,701549891	1,48239597	1,819306622	1,838767215	1,737213753
<i>Mad2l1bp</i>	0,614570801	1,454789331	1,930747663	1,903270832	1,870539412

<i>Cish</i>	0,57082678	1,537762348	1,788852006	1,772901787	2,040366659
<i>Tmem50a</i>	0,597924663	1,598184513	1,678401142	1,732358151	2,024849387
<i>Srsf6</i>	0,682963923	1,454200646	1,714153862	1,816428752	1,997483669
<i>Fam105b</i>	0,680350693	1,489672974	1,714958599	1,85991354	1,988541265
<i>Skap1</i>	0,80448165	1,612290598	1,768122614	1,760277881	1,927067433
<i>Fgd3</i>	0,736856792	1,619438457	1,751028014	1,841540329	1,908319325
<i>Thrap3</i>	0,775828833	1,552709046	1,744527174	1,777159678	2,048069969
<i>Tnip1</i>	0,799400806	1,553331056	1,747380543	1,724748584	1,998384822
<i>Ppp3r1</i>	0,65204944	1,667347178	1,9589993	1,759044572	1,929276314
<i>G3bp2</i>	0,768086636	1,623015155	1,902729992	1,765424236	1,925618458
<i>Etf1</i>	0,553820994	1,583701022	1,913307842	1,746154023	1,945211032
<i>Dync1li2</i>	0,778490957	1,581520533	1,834637904	1,65781418	1,881036207
<i>2410066E13Rik</i>	0,804041315	1,570349875	1,795308784	1,642369242	1,919647098
<i>Rpl7</i>	0,782383894	1,536452874	1,923853728	1,692941473	1,806178004
<i>Zbtb2</i>	0,845972847	1,711661597	2,000061886	1,724859193	1,921982242
<i>Ak2</i>	0,788774295	1,634127443	2,050899497	1,774693562	1,982407625
<i>Glr5</i>	0,802088827	1,643164845	2,006698333	1,585674079	1,999736521
<i>Prps1l1</i>	0,74211252	1,486950028	2,094493839	1,65571414	1,810008828
<i>Fpgs</i>	0,773032385	1,423284447	1,768733761	1,576543114	2,042876452
<i>Mcm7</i>	0,830622706	1,336790571	1,764182011	1,574110177	2,101365232
<i>St3gal1</i>	0,839130026	1,469085871	1,680744363	1,600188362	1,956351244
<i>1700012B15Rik</i>	0,871383106	1,443986906	1,672141225	1,617960306	1,995210815
<i>Gtf3a</i>	0,902429479	1,380442271	1,65526429	1,598361362	1,990299214
<i>Limk2</i>	0,863433739	1,324779567	1,686492026	1,439849148	1,994581599
<i>1700042O10Rik</i>	0,771071438	1,285396979	1,784433773	1,482281527	2,041314075
<i>Gtpbp1</i>	0,732197555	1,397759201	1,71658058	1,458466248	1,948276018
<i>Rad21</i>	0,866729837	1,370299733	1,809124064	1,567579455	1,995995629
<i>Ifnar2</i>	0,914690835	1,361643316	1,788238	1,543996725	1,987676258
<i>Vamp8</i>	0,92800946	1,410265074	1,863549684	1,553392546	1,985010596
<i>Evi2b</i>	0,910270548	1,309834882	1,88785194	1,571785764	1,995026818
<i>Trim41</i>	0,955500804	1,345915348	1,784834857	1,55990502	2,064828324
<i>Ppp1r15a</i>	0,917745951	1,225001052	1,907936597	1,530701331	1,910816243
<i>Elovl6</i>	1,042757946	1,393534245	1,765725458	1,579441795	1,864534686
<i>Snx17</i>	0,934567612	1,392288619	1,828969766	1,568034993	1,738092729
<i>BC005537</i>	0,930290828	1,419619536	1,890360793	1,516732383	1,850391269
<i>Nfam1</i>	0,933595788	1,467505357	1,814716337	1,575845238	1,907222368
<i>Kat5</i>	0,92164878	1,391733004	1,734665773	1,445496028	1,883858157
<i>Tnrc6c</i>	0,967589566	1,448980269	1,758197185	1,486969374	1,89326433
<i>Ralgds</i>	0,921939561	1,39239322	1,837082769	1,38588854	1,796947631
<i>4933407C03Rik</i>	0,974630721	1,45951042	1,659830721	1,398155958	1,771265427
<i>Usp19</i>	0,992474422	1,470863044	1,625649731	1,469725758	1,809016386
<i>Inpp5b</i>	0,857538677	1,480079985	1,704276809	1,47978306	1,778505837
<i>Rab8b</i>	0,931315759	1,587670666	1,698798027	1,49353071	1,888275238
<i>Relt</i>	0,88921388	1,515024959	1,725942025	1,460366324	1,874088849
<i>Zbtb17</i>	0,907913088	1,344473926	1,602242875	1,493206971	1,764001847
<i>Upf1</i>	0,977027228	1,32817409	1,656068843	1,529685196	1,87571985
<i>Strada</i>	0,841065115	1,404246732	1,676006967	1,629879783	1,810492328
<i>Rplp0</i>	0,799849158	1,348801436	1,648729722	1,619871083	1,797344872
<i>Sumo2</i>	0,841151872	1,378300263	1,707763793	1,598012255	1,73356458
<i>Topors</i>	0,567530512	1,372749025	1,645595147	1,747705948	1,76923267
<i>Gm12359</i>	0,606974404	1,30705137	1,55643168	1,748463173	1,849695335

<i>Eif5</i>	0,600146397	1,319381236	1,477354032	1,753795109	1,716831558
<i>Atp5j2</i>	0,630870948	1,406581311	1,591851542	1,619504595	1,750480201
<i>Wtap</i>	0,605831706	1,414844034	1,594233752	1,652510757	1,842288456
<i>Rps3a</i>	0,748940895	1,356784925	1,615002362	1,754488301	1,95825306
<i>Lamtor3</i>	0,778426591	1,351743651	1,608214726	1,781974965	1,823452595
<i>Fam69a</i>	0,675601038	1,435950959	1,533251039	1,831245146	1,897512136
<i>2310036O22Rik</i>	0,823891676	1,150593304	1,687668697	1,73204915	1,749761707
<i>Ppp4c</i>	0,747986607	1,244058944	1,761775017	1,702695933	1,7384711
<i>Rpl3</i>	0,654982016	1,132090512	1,580674502	1,715665666	1,883399477
<i>Gne</i>	0,767734291	1,233762036	1,655536764	1,630581577	1,881751949
<i>Nr1h3</i>	0,892544878	1,21329662	1,69559796	1,67333976	1,985984428
<i>Rbm3</i>	0,740419937	1,154022672	1,768492292	1,731357476	2,016459183
<i>Crb3</i>	0,950261628	1,19903509	1,480274744	1,833926536	1,880391847
<i>Qrfp</i>	0,941184192	1,29407041	1,423596383	1,855187571	1,801712388
<i>Kri1</i>	0,860793129	1,291537245	1,547076345	1,900775725	1,92778955
<i>Sh2d3c</i>	0,839765397	1,51773293	1,627047388	1,986386894	2,168006011
<i>2610002J02Rik</i>	0,84275343	1,489420349	1,622996945	2,049881119	2,037449917
<i>Fam83e</i>	0,813043359	1,449889585	1,578964436	1,879991468	2,068370112
<i>Pnn</i>	0,954373355	1,454535869	1,432842514	2,045800395	1,941694024
<i>B930003M22Rik</i>	0,774848208	1,226074848	1,590599207	2,051833053	2,016785176
<i>Csnk1a1</i>	0,709564	2,123004531	2,084669683	1,996987441	2,001904348
<i>Prpf38b</i>	0,735590037	2,040994867	2,101892221	1,939640392	1,966690569
<i>Mbp</i>	0,954253862	2,148121005	2,004780549	1,964420833	2,045640326
<i>March7</i>	0,807596804	1,891130638	2,081879285	2,094078925	2,149123994
<i>Fus</i>	0,862460694	1,947039274	2,039997799	2,130529145	2,235373585
<i>Cd9</i>	1,076361694	1,974521526	1,799009573	2,032555737	2,076449598
<i>Tgfb1</i>	0,958730781	2,059533243	1,815249832	2,027661328	1,920581987
<i>lkbke</i>	0,936187581	1,832921728	1,792805197	2,055591193	2,002548391
<i>Fam3c</i>	0,861455767	1,938661134	1,912687243	2,094914107	1,993764948
<i>Eno3</i>	1,08228924	1,993256453	1,912586297	1,74874569	2,035510282
<i>Eno1</i>	1,007103534	1,965487161	1,802458228	1,830887853	2,063971288
<i>3110056K07Rik</i>	0,835615909	2,081821426	1,926314664	1,664640056	1,953572252
<i>Cbx3</i>	0,884817847	1,951859278	1,90458377	1,697868617	1,95330121
<i>Folr4</i>	0,968907365	1,926970543	1,917106133	1,958261535	1,884132514
<i>Rheb</i>	0,959831789	1,886378832	1,847104291	1,822577771	1,932481682
<i>Arf1</i>	0,926760334	1,848189003	2,059381316	1,865624344	1,951114044
<i>Lonp2</i>	0,808100687	1,918571753	2,035510951	1,802402423	1,962595976
<i>Epc1</i>	0,971286979	1,759963117	1,950692769	1,801416068	2,115599511
<i>Ywhag</i>	0,959811588	1,736485264	1,957148736	1,785261385	2,055515631
<i>Tpm3</i>	0,898406998	1,823872604	1,999231295	1,846741213	2,075466299
<i>Fbxo11</i>	1,012097955	1,855454859	2,065837413	1,79650567	2,100405434
<i>Ifnar1</i>	0,943762178	1,795871333	1,996870067	1,908523823	2,222246505
<i>Stt3b</i>	0,984646985	1,760517644	2,017418295	1,931007663	2,129307805
<i>Tra2b</i>	0,802773013	1,746894188	2,081439249	1,829664204	2,024125552
<i>Osbp18</i>	0,768122671	1,74104557	2,029109528	1,818101193	2,105300268
<i>Ube2d3</i>	0,770965011	1,824555025	1,960439823	1,872476526	2,064037179
<i>Gng5</i>	0,769805225	1,84216942	1,981400144	1,822288528	2,089777025
<i>Ppp2r2a</i>	0,722195638	1,812673264	2,008911354	1,881228204	2,111644636
<i>Ywhae</i>	0,826177965	1,866143057	2,122286896	1,905201436	2,142398045
<i>Sdr39u1</i>	1,039126699	1,69326337	1,730858518	1,951167342	2,002969852
<i>Mkl1</i>	1,022308233	1,660772777	1,80447856	1,891825709	2,010805519

<i>Arhgef3</i>	0,973939175	1,660145234	1,779306501	1,829461477	1,949999652
<i>Arhgap27</i>	0,973027635	1,656262402	1,706089264	1,858809079	1,94991654
<i>Pip4k2b</i>	1,058857814	1,746283403	1,821763005	1,985353105	2,066805714
<i>Fntb</i>	0,994384852	1,756500593	1,877492506	1,921525359	2,078963277
<i>Atp5b</i>	1,062583262	1,622843405	1,944791736	1,740755368	2,019323008
<i>Morn3</i>	1,062403181	1,635984898	1,901208359	1,819116382	1,974581889
<i>Rab5c</i>	1,003695519	1,730993722	2,01055882	1,808456192	1,972304279
<i>Spn</i>	1,01489197	1,791862422	1,959451809	1,815798961	2,071864193
<i>Prr12</i>	1,067620339	1,764353322	1,936221727	1,822658342	2,017623085
<i>Bptf</i>	1,079293761	1,7477054	1,932315512	1,758590028	2,083190917
<i>Tada2b</i>	0,877502031	1,763978767	1,867308074	1,719416386	1,791472959
<i>Morf4l1</i>	1,024511375	1,754415367	1,896080979	1,705224351	1,870139915
<i>Zfand3</i>	0,871865493	1,692985153	1,75051616	1,723789903	1,890800825
<i>Sh3glb1</i>	0,908463546	1,722280324	1,756760672	1,682776279	1,936780641
<i>Axin2</i>	0,90387203	1,731272991	1,806363353	1,739479152	1,965009815
<i>Lrch1</i>	0,847420281	1,679980926	1,816053967	1,654790612	1,949769724
<i>Ppp2ca</i>	0,757855398	1,708791637	1,926394406	1,831642784	1,945431772
<i>Wdr82</i>	0,801010174	1,766487756	1,982306175	1,808284318	1,928384961
<i>Eif4g2</i>	0,835856872	1,733148953	1,853764217	1,880363573	1,893182392
<i>Brd1</i>	0,875592775	1,680023225	1,934429181	1,884966299	2,233695736
<i>Nfkbid</i>	0,846350666	1,772969687	1,843136656	1,876795575	2,176902608
<i>Plaur</i>	0,859425924	1,72024305	1,828936876	1,784718673	2,096620012
<i>Zfp526</i>	0,89109107	1,649627114	1,810043932	1,824056325	2,128338636
<i>BC006779</i>	0,744231267	1,637498127	1,825817082	1,822109355	2,202366758
<i>Rpsa</i>	0,766744512	1,64615095	1,729872838	1,821690602	2,257134765
<i>Psme2</i>	0,882044794	1,630665237	1,73178321	1,853488722	2,270919601
<i>Chkb</i>	0,954132824	1,833654247	1,741159465	1,871346189	2,245687637
<i>D17Wsu92e</i>	0,769688196	1,743550762	1,850709568	1,896152014	2,053309628
<i>Ubash3b</i>	0,855940907	1,762229319	1,83076666	1,867620325	1,997871035
<i>Clint1</i>	0,847940249	1,711077758	1,783965329	1,996363089	2,075174053
<i>6720456B07Rik</i>	0,711320206	1,876046268	1,794326316	1,959992707	2,028911596
<i>Acvrl1</i>	0,771511147	1,859132392	1,824534243	2,031874473	2,086719184
<i>Ranbp9</i>	0,870373945	1,642173604	1,89276773	1,851314932	2,0163683
<i>Lcp1</i>	0,895411401	1,582244698	1,930360576	1,798898594	2,055587487
<i>Eif4ebp2</i>	0,771459088	1,579342055	1,922688915	1,822354338	2,124933271
<i>Ankrd44</i>	0,778147847	1,628666865	1,936368261	1,826364359	2,064155325
<i>Tardbp</i>	0,877482016	1,587750445	2,010747359	1,892097392	2,150459906
<i>6330409D20Rik</i>	0,812052144	1,578396501	1,810665195	1,913129227	2,129407414
<i>Chmp4b</i>	0,816130657	1,570867666	1,815270562	1,877478771	2,133862851
<i>Ccnl2</i>	0,754857751	1,565825477	1,861935031	1,954612291	2,039240174
<i>Zfp292</i>	0,674046367	1,692990857	1,913789669	1,829015049	2,071716744
<i>Pcnp</i>	0,674642873	1,668719332	1,828748538	1,861714546	2,071554913
<i>Rbm39</i>	0,696253761	1,664815233	1,947590596	1,862563663	2,197680714
<i>Lmo4</i>	0,956042318	1,728111622	1,992131522	1,605536702	1,905309232
<i>Maml1</i>	1,072287146	1,760537959	1,92174087	1,554885694	1,931074908
<i>Ppp2r5d</i>	0,983302738	1,912204186	2,020399362	1,566126404	1,960866606
<i>Atp6v1g1</i>	1,132316737	1,89584905	1,965154268	1,424843369	1,872846577
<i>Nhp2</i>	1,084700774	1,759329731	2,230997825	1,435098798	2,091851211
<i>Slc25a4</i>	1,01215636	1,852462808	2,064731383	1,539587162	2,196012204
<i>BC056474</i>	0,912021588	2,095290533	1,941740507	1,375345755	2,104306316
<i>Wdr8</i>	0,96870386	0,902122757	1,108921983	0,914606969	1,380260796

<i>Iqcd</i>	1,021480785	0,913147361	1,12981039	0,88056572	1,352566217
<i>C630004H02Rik</i>	1,046997332	0,813830327	1,095074245	0,842153106	1,36617008
<i>Acads</i>	1,069042077	0,890277295	0,96749619	0,851285291	1,318204841
<i>Eme2</i>	0,948439607	0,756732243	1,076199753	1,061216325	1,467268719
<i>Ctu2</i>	1,060303125	0,750102463	1,002806233	1,088094128	1,463816051
<i>Asb6</i>	0,944473512	0,824323898	1,045078268	0,968829842	1,405076572
<i>Acbd4</i>	0,957129267	0,790314484	1,044123651	1,013625697	1,34676784
<i>Polm</i>	0,850025226	0,837235654	1,187014324	0,992338726	1,378334343
<i>Col11a2</i>	1,016094041	0,897151921	1,115402703	1,043362998	1,42624722
<i>Zfp13</i>	1,069601656	0,962893455	1,124341366	1,059237213	1,38783992
<i>Plekhm1</i>	1,066215161	0,959600253	1,202893693	0,932337639	1,394755812
<i>Ncaph2</i>	0,734029086	0,99277632	1,095230807	0,967899112	1,423813156
<i>Mrps18b</i>	0,797816087	1,002948442	1,095562359	0,891644959	1,404556347
<i>Mamdc4</i>	0,88857837	0,989235954	1,053192546	1,032905689	1,459223841
<i>Dbn1</i>	0,911719792	1,041321292	1,116092917	0,992128231	1,471678377
<i>Ly6g5c</i>	0,862746926	1,036833934	1,125988444	0,85880928	1,509907206
<i>Tmem181b-ps</i>	0,843525649	0,927910932	1,029385897	0,833343093	1,480394253
<i>Osgin1</i>	0,911278732	0,939414484	1,007067944	0,860889852	1,470666336
<i>Gtpbp3</i>	0,90765158	1,015615615	0,956235566	0,855929774	1,388864413
<i>Ndufc2</i>	0,762798371	0,854976274	0,965594042	0,911065355	1,526127082
<i>Neurl4</i>	0,797249735	0,879399929	1,020199631	0,912877404	1,589420835
<i>Rps6ka4</i>	0,835345939	0,896119465	1,055725935	0,98564036	1,543440772
<i>Mrpl14</i>	0,924466936	1,120425464	0,951417004	1,194368515	1,593897165
<i>Kat2a</i>	0,900626345	1,110799114	0,918735257	1,121987015	1,60794652
<i>Elov1</i>	0,982423161	1,26433937	0,902260648	0,970089487	1,476615939
<i>Pih1d1</i>	1,059014253	1,083694593	0,993891821	1,192804352	1,46091857
<i>Igfals</i>	1,136543014	1,237394921	1,018905151	1,175308887	1,563362033
<i>6030408B16Rik</i>	1,192751775	1,100028986	0,919648153	1,067569357	1,53365514
<i>Nr2c2ap</i>	1,032031808	0,987295132	1,270794509	1,028277838	1,701711628
<i>Rnf181</i>	1,042680984	1,079507238	1,306450394	1,029076667	1,716822966
<i>Bai2</i>	1,15122971	0,986951403	1,264954808	0,829889913	1,70395592
<i>Myl6b</i>	0,893714539	1,130214795	1,28920029	0,769612833	1,673647677
<i>Tm9sf1</i>	0,972054608	0,938234493	1,330389236	1,004802318	1,549182555
<i>Cox4nb</i>	0,886193141	0,909909958	1,307571262	1,013403237	1,547818242
<i>Ap1ar</i>	0,897337724	1,0214495	1,379152206	0,974044479	1,56243901
<i>Eml3</i>	0,896830417	0,903209723	1,3806911	0,935699727	1,698535431
<i>Slc25a10</i>	1,053076907	0,974215576	1,045755454	0,777730769	1,513086713
<i>Dnd1</i>	1,101622148	0,906725942	1,049879334	0,814183697	1,685305342
<i>Furin</i>	0,962917695	0,910819064	1,209444725	0,928683314	1,58858326
<i>Coro2a</i>	0,928184239	0,822191693	1,146937418	0,897016378	1,634990322
<i>Ngfrap1</i>	0,786564675	0,679667814	1,059416784	1,14685046	1,717110674
<i>Ppapdc2</i>	0,907963828	0,626391179	0,911848261	1,070901205	1,685414179
<i>Pcyt2</i>	0,95616852	0,827516299	1,001614465	1,154258304	1,727715261
<i>Vps28</i>	1,031982441	0,79050457	1,07465576	0,995405955	1,801165936
<i>Lcn4</i>	0,848203088	0,753304798	1,147486843	1,122821781	1,534589374
<i>Rpl13</i>	0,825808331	0,748429287	1,211494923	1,213308283	1,662675022
<i>B4galt3</i>	0,902079036	0,951778986	1,241048445	1,017107436	1,741555422
<i>Ift27</i>	1,002521512	0,953124063	1,156987826	1,032099862	1,628192784
<i>Eif3k</i>	0,922175698	1,048888544	1,104565118	1,101776203	1,728510831
<i>Tomm22</i>	0,978535711	0,913999779	1,14969982	1,113392486	1,778651884
<i>Tprgl</i>	0,802090555	0,968556889	1,132053579	1,193539797	1,783108554

<i>Rnf7</i>	0,784856319	0,986567476	1,031060201	1,156587991	1,685474547
<i>O610007P22Rik</i>	0,869024339	0,872297382	1,029222756	0,714976766	1,462952164
<i>Prtn3</i>	0,784897903	0,811206539	0,990783083	0,826880574	1,498912674
<i>Pmm2</i>	0,71211039	0,918685321	0,864915537	0,739952119	1,337599854
<i>Ddah2</i>	1,015724503	0,938130202	0,831969081	0,542249951	1,573451941
<i>Fv1</i>	0,843077851	0,91860687	0,82697281	0,95836895	1,51658139
<i>Gpr151</i>	0,805226053	1,070057194	0,838865862	0,808845123	1,53974068
<i>Ube2s</i>	0,989172479	0,994911421	0,798380327	0,947575556	1,443370835
<i>Fam113a</i>	1,028406241	0,988512206	0,813347992	0,860383574	1,373820248
<i>Trim65</i>	0,919931284	0,865053441	0,677280668	0,863398235	1,666625615
<i>Syt11</i>	1,09395967	0,726484687	0,936943285	0,962036016	1,300233643
<i>Nxn1</i>	1,152561696	0,715896192	1,004071102	0,942655686	1,401348851
<i>Tk1</i>	1,061792891	0,619960385	0,831652658	1,042105326	1,344729415
<i>AV051173</i>	1,075888494	0,556698217	0,860482818	0,789955397	1,465980159
<i>Uck1</i>	1,273089884	0,813629552	1,083040658	1,102577562	1,670848932
<i>Nhlrc1</i>	1,201978211	0,876684547	0,896086055	0,957683043	1,558453836
<i>Pcsk4</i>	0,996478751	1,02619656	0,847439646	1,29804727	1,502030469
<i>Nme2</i>	1,099373523	0,891758935	0,840624798	1,377761979	1,381750264
<i>Zbtb48</i>	1,099709707	0,850952907	0,793337364	1,205447809	1,541661809
<i>Dohh</i>	0,945343509	0,777028527	0,768400547	1,310240155	1,311581978
<i>Gps1</i>	0,969674164	0,563407928	0,819962608	1,277339977	1,37232804
<i>Man1c1</i>	0,517389174	0,832507314	1,060310549	1,431147717	1,447145307
<i>Adh5</i>	0,491414746	0,898635546	1,001415661	1,238306097	1,397386665
<i>Cd151</i>	0,666030607	0,795941562	1,067942714	1,352579238	1,416916422
<i>Traf5</i>	0,673161277	0,8155011	1,093280133	1,274541968	1,48848386
<i>Exosc8</i>	0,644195941	0,816119536	1,160908467	1,218570858	1,41498814
<i>Ap2m1</i>	0,61195232	0,87603667	0,928833084	1,344397048	1,431090273
<i>Fasn</i>	0,609589708	0,949300533	0,854597963	1,363169153	1,326214171
<i>Kcnj15</i>	0,707338179	0,798718273	0,937075523	1,287819208	1,258379606
<i>F730035M05Rik</i>	0,635170531	0,732346548	0,887642887	1,354954928	1,2464027
<i>Pts</i>	0,637244457	0,895323341	1,049595601	1,236367862	1,284570403
<i>Hmgcr</i>	0,599284363	0,823880073	1,066159264	1,2248177	1,253736107
<i>Abcf1</i>	0,616644161	0,93050795	1,106572106	1,207583318	1,23727414
<i>Bcas2</i>	0,627629944	0,887406205	1,136356628	1,219760093	1,241582366
<i>Dopey2</i>	0,641239316	0,813919299	1,050547996	1,147000542	1,227320023
<i>Kdm3b</i>	0,723334649	0,877328011	1,032583265	1,134914565	1,236942051
<i>Cdk2</i>	0,743536282	0,75953664	1,117004713	1,199946877	1,158555214
<i>S100a11</i>	0,728096094	0,920528227	1,220363268	1,152732015	1,254993682
<i>Dscr3</i>	0,675548662	0,898271953	1,178070254	1,159951489	1,276882112
<i>Trappc5</i>	0,724630052	0,939188055	1,189428862	1,222255629	1,233012117
<i>Taf5l</i>	0,757571517	0,905305995	1,189515566	1,180919218	1,331876862
<i>Pebp1</i>	0,784731158	0,843538005	1,178322383	1,143006821	1,304129896
<i>Ccdc84</i>	0,601516433	0,966977432	1,147542484	1,352930078	1,215420808
<i>Tmem8</i>	0,608539883	0,920926208	1,116590258	1,297189427	1,185096329
<i>Eef1b2</i>	0,614062229	0,905978073	1,233325645	1,239170746	1,125907552
<i>Safb</i>	0,54711275	0,820879816	1,175722734	1,326785304	1,309007448
<i>Mtrf1l</i>	0,560869584	0,835030148	1,130268294	1,295200374	1,265537041
<i>Dus3l</i>	0,496954049	0,568906397	1,186901166	1,289608752	1,261399438
<i>Pcna</i>	0,733443991	0,442058606	1,154602017	1,270201837	1,393653168
<i>Otub1</i>	0,811189976	0,704422297	1,187201401	1,450790697	1,362037793
<i>1700011J10Rik</i>	0,806652953	1,17398495	1,234520009	1,281491662	1,547209759

<i>Cyth2</i>	0,875785868	1,235611799	1,147766202	1,215520833	1,513498418
<i>Tor1b</i>	0,678305472	1,185143809	1,094636903	1,203734926	1,556672246
<i>Cc2d1a</i>	0,781796213	1,152303133	1,035507709	1,194236879	1,592733432
<i>Ddx58</i>	0,723739712	1,124110231	1,170195159	1,241337324	1,511025779
<i>Rnf40</i>	0,70697835	1,117041632	1,226853933	1,196084709	1,529097356
<i>Unk</i>	0,776976881	1,126583374	1,146611462	1,183514557	1,556486777
<i>Dcp2</i>	0,702470144	1,077575183	1,215892137	1,142471205	1,489881555
<i>Fbxo32</i>	0,668178996	1,14817494	1,228942159	1,171886848	1,408313637
<i>Gde1</i>	0,678630399	1,225405678	1,258794758	1,109737477	1,453940124
<i>Nipal1</i>	0,749529567	1,207098473	1,217273111	1,199294441	1,468628578
<i>Prpf8</i>	0,682502076	1,207065615	1,223968471	1,181715371	1,474218614
<i>Hk1</i>	0,852847021	1,111849165	1,203885027	1,172092204	1,389699564
<i>Sipa1l1</i>	0,850415295	1,129550375	1,249458188	1,205122148	1,374380865
<i>Coq5</i>	0,767645534	1,103282711	1,24333608	1,186544798	1,431772678
<i>Abl2</i>	0,7662929	1,096904522	1,259505986	1,177835806	1,420023336
<i>Fbxo34</i>	0,794097104	1,138012265	1,266505658	1,229652178	1,437291826
<i>Papd5</i>	0,828588493	1,133761746	1,288607763	1,2456637	1,464108556
<i>Metap2</i>	0,813457517	1,096047755	1,32030791	1,182518706	1,425801158
<i>Hmgcl</i>	0,867549381	1,025077239	1,246995052	1,251283198	1,424783741
<i>Ddx23</i>	0,764704883	1,031288064	1,207769688	1,307224962	1,42285507
<i>Patl2</i>	0,732552122	1,049664128	1,256081081	1,239154886	1,467183814
<i>Gxylt1</i>	0,730681423	1,06021237	1,277184975	1,301150468	1,429766182
<i>Nlk</i>	0,666668847	1,069611502	1,249762328	1,25008412	1,433863947
<i>4921524J17Rik</i>	0,670663264	1,077519765	1,288761692	1,240519148	1,434177577
<i>PsmA6</i>	0,767633564	1,14856307	1,308762701	0,985950269	1,541887427
<i>Rhobtb2</i>	0,766800477	1,147012532	1,28901327	1,038185714	1,494662557
<i>Setd8</i>	0,808329699	1,145150334	1,224212746	1,038881978	1,581160797
<i>Tmem150a</i>	0,826206234	1,007999567	1,282945577	1,11871483	1,505360644
<i>Sv2a</i>	0,880104378	1,048884617	1,293781732	1,061013468	1,473427072
<i>Fbxo31</i>	0,752771281	1,012657014	1,273393317	1,124754034	1,574878955
<i>Tln1</i>	0,74295236	1,008002533	1,278362131	1,148378688	1,639913468
<i>Cd72</i>	0,792755185	0,964728984	1,186422954	1,057570482	1,640270215
<i>Nin</i>	0,702262265	0,952840865	1,148343174	1,080717745	1,341266592
<i>Cox7a2</i>	0,711172499	0,920290556	1,137959857	1,093930462	1,391282172
<i>Igsf3</i>	0,774669598	0,898121279	1,153095602	1,081381871	1,349292037
<i>Slc25a28</i>	0,759035177	0,985307194	1,153285356	1,067748241	1,428627347
<i>Trpv2</i>	0,754768252	0,980258432	1,108923493	1,126978253	1,4317686
<i>Asb13</i>	0,798358572	0,919547958	1,222729948	1,167409492	1,403819493
<i>Suv420h2</i>	0,792838184	0,954891168	1,196154327	1,149784383	1,386006773
<i>Oxa1l</i>	0,749350898	0,982453984	1,205494641	1,14436197	1,431439248
<i>Ndufs2</i>	0,728679784	0,868853521	1,046701062	1,112643983	1,444281834
<i>Brf1</i>	0,768602738	0,869553907	1,071536619	1,195503706	1,381041605
<i>Slc25a38</i>	0,637459731	0,978913559	1,048834323	1,136247737	1,498781913
<i>Igfbp6</i>	0,735908404	0,965690693	0,996802543	1,228827543	1,495264361
<i>Sh2b3</i>	0,724820721	0,971471887	1,116857886	1,200571403	1,550916448
<i>Nans</i>	0,783248346	0,879516343	1,141229141	1,141285654	1,51684467
<i>Psmb5</i>	0,863806551	0,933585019	1,265725933	1,128798008	1,250835852
<i>Eri1</i>	0,879399355	1,016303688	1,336138923	1,157610189	1,27806396
<i>Nkiras2</i>	0,934319762	1,011871995	1,269163136	1,117523539	1,403795421
<i>Tceb3</i>	0,929035836	0,979917436	1,266432224	1,060496067	1,345764176
<i>Ciapin1</i>	0,871157216	0,983312013	1,202746464	1,081087702	1,384315243

<i>Anapc5</i>	0,89106585	1,010445937	1,212699627	1,181147783	1,237657883
<i>Gm14005</i>	0,873041637	1,04778644	1,204876352	1,126663532	1,219047182
<i>Irgq</i>	1,002063196	1,039160406	1,1625172	1,134779783	1,215752119
<i>Rell1</i>	0,926137366	1,054269948	1,15839667	1,040573297	1,309860866
<i>Rnasel</i>	0,86416119	1,061914707	1,123017388	1,017861203	1,370636245
<i>S100a1</i>	0,846144688	1,044234758	1,131929063	1,168935307	1,357248006
<i>Tfdp1</i>	0,87871662	1,022931557	1,193725321	1,150459322	1,339560688
<i>Trim28</i>	0,900307931	0,9976853	1,083445985	1,16649468	1,404777349
<i>Prpsap1</i>	0,875411602	1,016331346	1,123204607	1,126321399	1,39195974
<i>Pkp3</i>	0,949175654	1,02931642	1,053066085	1,115656554	1,369558891
<i>Ftsjd2</i>	0,943892657	0,920775669	1,110163364	1,082282419	1,320123772
<i>E130309D02Rik</i>	0,922254186	0,92679081	1,084052984	1,082505369	1,400479249
<i>Mvp</i>	0,983392456	0,9726278	1,009512549	1,202505787	1,222122612
<i>Sap30l</i>	1,073415586	1,015581977	1,021617701	1,106016701	1,286647858
<i>Prr15l</i>	1,035072133	0,857656883	1,095783361	1,199081323	1,302146115
<i>D10Jhu81e</i>	0,975327944	0,908436149	1,087810673	1,196061361	1,36620123
<i>Prkaca</i>	1,033079499	1,081515647	1,156324048	1,258226234	1,301749199
<i>Crtap</i>	1,015694002	1,062746146	1,088356755	1,305471637	1,313356207
<i>Atp2a3</i>	1,013902319	1,016560971	1,141925983	1,283578986	1,369780918
<i>Dtymk</i>	1,011464888	0,988693778	1,095798197	1,241513078	1,305871044
<i>Wdr86</i>	0,966754568	0,993468579	1,163369266	1,252087091	1,286290512
<i>Rrp36</i>	0,826866571	0,935532926	1,161253481	1,34465419	1,564576553
<i>Acsf2</i>	0,732615645	0,945355925	1,252103032	1,343945199	1,541192166
<i>Rpl14</i>	0,612263715	0,896343693	1,116293031	1,319646562	1,593752282
<i>Acpt</i>	0,66984048	0,915039316	1,0615656	1,319665018	1,559311515
<i>Ftsj3</i>	0,622363709	1,018927364	1,028862433	1,405307047	1,573999581
<i>Arhgap25</i>	0,597007666	1,026409406	1,092990366	1,402238932	1,485922264
<i>Rpl7l1</i>	0,631350023	1,065888087	0,99686759	1,441234026	1,418453444
<i>1190005F20Rik</i>	0,819965853	1,061379741	1,05113217	1,413818505	1,491153436
<i>Rmi1</i>	0,925464084	1,135968356	1,11846104	1,413522801	1,585592874
<i>Psmb4</i>	0,758496228	1,082902129	1,052470647	1,350022646	1,664858417
<i>Fam63a</i>	0,898905672	1,099447412	1,119349399	1,292715944	1,442208705
<i>Gmip</i>	0,836995978	1,084387882	1,06490673	1,243856393	1,479040385
<i>Tmem208</i>	0,93224965	1,139587912	0,979013307	1,325144494	1,473849949
<i>Pvrl4</i>	0,622257894	1,01704025	1,029404823	0,889914998	1,147097327
<i>Kdm2b</i>	0,672013766	1,065603041	1,059444192	0,927048717	1,172348369
<i>Ak3</i>	0,627055492	1,055092814	1,08914396	0,80305226	1,261097287
<i>Fbxo9</i>	0,659655907	1,115072433	1,042556899	0,994080875	1,2062388
<i>Cnih2</i>	0,606608351	1,139669479	1,002194024	0,962580713	1,241335043
<i>Dem1</i>	0,572632847	1,16967152	1,03312378	1,012864654	1,314617139
<i>Tgoln2</i>	0,59455427	1,145140417	1,181983971	0,984005523	1,288658985
<i>Phb</i>	0,718964561	1,146914562	1,189448174	0,902178438	1,370466583
<i>Phkg2</i>	0,644078896	1,027890583	1,167813891	0,894918134	1,37059966
<i>Zfp382</i>	0,604104281	1,028463969	1,264349126	0,87119396	1,38562386
<i>Rbm22</i>	0,674499385	0,90224329	1,223344891	1,000245716	1,24616398
<i>4933430H15Rik</i>	0,695050819	0,849967912	1,171714554	0,939518039	1,30526913
<i>Ankrd52</i>	0,641435105	0,938362296	1,136056147	0,991312036	1,305883027
<i>Plekha5</i>	0,621563165	0,896274782	1,181468666	1,019104626	1,283375758
<i>Hsd11b1</i>	0,677685697	0,979926687	1,098908571	1,006941028	1,266217848
<i>Tssc1</i>	0,700735148	1,033584158	1,165191397	0,997950273	1,316866652
<i>Eif3i</i>	0,533184136	0,967540745	1,059497029	1,018087506	1,334663898

<i>Hnrnpul1</i>	0,54184948	0,940484094	1,140502181	1,036773116	1,272951849
<i>Gm7334</i>	0,582728641	0,975494031	1,088235103	0,895968156	1,288036254
<i>Btg3</i>	0,581048952	0,971746944	1,086151478	0,895964735	1,288032672
<i>Dpp4</i>	0,588348501	0,984535595	1,065786664	0,948191398	1,255914502
<i>1190002N15Rik</i>	0,572001556	1,003599769	1,134683571	0,920330477	1,256176534
<i>Ppp3cc</i>	0,617485544	0,869845004	1,144762452	1,060147936	1,456827701
<i>Josd1</i>	0,700265803	0,85949115	1,131011982	1,046071637	1,480073834
<i>Actr10</i>	0,643231826	0,948800051	1,053446834	0,98482171	1,444790251
<i>Ino80e</i>	0,658724379	0,93689715	1,208185058	1,084678269	1,395753652
<i>Rab12</i>	0,578727328	0,966779327	1,184483814	1,007065567	1,396895077
<i>Ttpal</i>	0,660928946	1,040868969	1,136263007	1,011560407	1,420611043
<i>Fxyd1</i>	0,638255548	1,032442567	1,185884967	1,019134582	1,437946456
<i>Znrf3</i>	0,73580159	0,994846325	1,068545703	1,053197072	1,161216272
<i>Camta2</i>	0,759431199	0,993984532	1,069191779	1,097496711	1,200593035
<i>Obfc2b</i>	0,780863111	0,987038055	1,086604911	1,071548014	1,119843094
<i>Npepl1</i>	0,766180819	0,886806881	1,08204732	1,057382932	1,127298076
<i>Pcbp4</i>	0,769224089	0,902162171	1,092411608	1,10023083	1,096239003
<i>Lemd2</i>	0,754399294	0,926678574	1,041112027	1,066340398	1,244929831
<i>Ppp4r1</i>	0,737286417	0,971198078	1,090555566	1,102594247	1,270689963
<i>Sart3</i>	0,72376871	0,950234513	1,158725598	1,052230825	1,207235329
<i>Glul</i>	0,823088087	0,887935537	1,048898058	0,998453904	1,178618273
<i>Banp</i>	0,735253624	0,857726366	1,049663075	0,948383272	1,228058883
<i>Lypd6b</i>	0,737568571	0,870293184	1,021340285	1,011222322	1,100281946
<i>Ctdp1</i>	0,781976088	0,870629224	1,011882624	0,94289588	1,12591077
<i>2010111101Rik</i>	0,704584889	0,912117523	1,033902099	0,911461654	1,127393677
<i>Senp6</i>	0,654977918	0,946380289	1,028759165	0,978659125	1,129537581
<i>Adipor2</i>	0,710692028	0,895966728	0,98233396	0,950339943	1,189980712
<i>Adap1</i>	0,690529274	0,938891834	1,003884458	0,937934655	1,186277696
<i>4931414P19Rik</i>	0,675350476	0,910941472	1,020434025	0,988506393	1,187624348
<i>Spred3</i>	0,760729785	0,987680066	1,198947673	1,007737291	1,063229641
<i>Snx6</i>	0,701716532	1,022770373	1,142524271	0,985060344	1,124221682
<i>Zfp787</i>	0,733861683	0,959833393	1,275342343	1,009070197	1,154297803
<i>LOC432562</i>	0,604784337	0,974755415	1,232868004	1,021178058	1,151062477
<i>Nfkbib</i>	0,578591352	0,902396444	1,198234017	1,082871051	1,077975665
<i>Rnf34</i>	0,741352182	1,027076109	1,13281543	0,96457379	1,227096417
<i>Secisbp2</i>	0,716921481	1,016447418	1,153424326	0,867678098	1,260815317
<i>E030011O05Rik</i>	0,709494635	1,135599805	1,170685779	0,918712414	1,23426585
<i>Rnd2</i>	0,812808756	1,178682113	1,130017989	0,844928988	1,215393524
<i>Slc25a39</i>	0,915180751	1,115767704	1,093766813	0,881149792	1,283295206
<i>Trappc6a</i>	0,893267486	1,043632386	1,090917149	0,828797653	1,307607223
<i>Nup107</i>	0,933029913	1,0186677	1,043296031	0,870648012	1,234968169
<i>Brd3</i>	0,886960205	0,955004221	1,226476462	0,821909644	1,246874657
<i>Fzd7</i>	0,844072948	0,990801432	1,269759648	0,709024155	1,246783067
<i>Denr</i>	0,754838337	0,928377975	1,225255761	0,831355273	1,168462959
<i>Zfp707</i>	0,780530284	0,903521641	1,184810493	0,886198758	1,180716013
<i>Dync2li1</i>	0,887597774	0,971477325	1,279712525	0,8937964	1,348059951
<i>Galnt12</i>	0,925711268	1,103961926	1,359031637	0,89434493	1,294475778
<i>Slc39a11</i>	0,89127049	1,037748739	1,218515212	0,877040276	1,19190392
<i>Sipa1l2</i>	0,952871602	1,022542177	1,2701249	0,889621826	1,145807028
<i>Rbck1</i>	0,640733283	0,851104388	1,429439057	1,060012472	1,466891747
<i>Ankrd53</i>	0,645106201	0,934129674	1,368330695	1,022192653	1,440709854

Zswim4	0,617112407	0,812941345	1,330963402	0,987491638	1,502956005
Wdr89	0,578683105	0,862216083	1,332831541	1,008837172	1,465205605
1110001A16Rik	0,574468457	0,83764533	1,285051508	1,034829018	1,404551646
Ube2m	0,608464441	0,858924003	1,233912228	1,078080078	1,387432278
Trpm1	0,63696068	0,906176256	1,317663419	1,076698097	1,549302348
Ptges3	0,534200626	0,954415933	1,322212538	1,052371636	1,585294354
Naa20	0,448737731	0,797440607	1,430311084	1,029803775	1,511663745
Mrpl10	0,393072718	0,872707663	1,419157673	1,014104392	1,505217907
Gatad2a	0,420670167	0,819809409	1,347917645	0,969288572	1,526671797
Akt2	0,507347659	0,90905663	1,503767448	0,934011038	1,473296398
Fzd9	0,76455255	0,944341796	1,294511376	0,926960765	1,429936388
Mier2	0,761988088	0,889238259	1,252892971	0,894009865	1,4821442
Gapdhs	0,78806196	0,894487363	1,367940068	0,909230233	1,466868366
Lactbl1	0,748745463	1,017130962	1,320401134	0,786812974	1,415838918
Tbc1d10b	0,686566004	0,850506731	1,3225232	0,898525546	1,616861228
Calhm1	0,683744369	0,950563883	1,319442303	0,789919242	1,678797173
Arpm1	0,716873279	0,751851954	1,388232334	0,977783325	1,361263411
Rplp1	0,85603298	0,788011808	1,410808188	0,969829428	1,367930934
Tmem129	0,7674342	0,750943667	1,212968354	0,859719848	1,410052733
Dhrs11	0,770009298	0,779882791	1,268603343	0,869557731	1,296412132
Cox6c	0,616480004	0,59478431	1,401854386	0,971634772	1,396104397
Rarres2	0,797652279	1,011537333	1,488108887	1,104098975	1,478821217
Jagn1	0,772667322	1,029814811	1,486178345	1,136481416	1,524404544
Gm6034	0,716600373	1,048810255	1,454981598	1,107884449	1,475421564
Zc3h10	0,798270698	1,037601903	1,51823923	1,122823995	1,420868898
Mbd3	0,82626129	1,015692813	1,564381018	1,041931667	1,508214932
Akap2	0,762452121	0,980802976	1,379139728	0,989477684	1,405362175
Bicd2	0,785284809	1,035014843	1,376884261	1,059655551	1,360123998
Supt5h	0,682780315	1,01235632	1,38897539	1,115459903	1,402007519
Rilpl2	0,76734229	0,735666957	1,260470574	0,93476774	1,705425572
9330020H09Rik	0,867132773	0,732642248	1,192316212	0,947999058	1,779164457
1810037117Rik	0,714300768	0,717076966	1,348184263	0,902886282	1,931229222
Mtap1s	0,746429925	0,959534214	1,23498692	1,017328174	1,820130557
Efhd2	0,771469706	0,894202826	1,188291704	1,047249594	1,838488993
Izumo4	0,875690243	0,829846792	1,310084424	1,112336454	1,834530904
Ran	0,591082835	0,932136124	1,36392744	1,187308683	2,058876469
Gadd45gip1	0,688251663	0,79604189	1,162859875	1,152044632	2,054008645
Taf7	0,435908108	1,026445081	1,131685281	0,978201974	1,6109341
Srp19	0,467055147	0,963192386	1,0863589	0,997912895	1,695550928
Prmt1	0,526545071	0,863088302	1,211358482	0,966709285	1,623331432
Mrpl32	0,301365632	0,846197956	1,334145608	0,922421448	1,676669402
Gm13363	0,22365794	0,981536554	1,039373991	1,097077985	1,637380929
Rpl9	0,265579489	0,937939947	0,982371327	1,111611725	1,692973743
Art2a-ps	0,447187658	1,036512465	1,021639204	1,128133261	1,825819883
Fam101a	0,622338581	0,950080174	1,031706243	0,892005958	1,581578627
Kcnj8	0,630300278	1,00175513	1,08699094	0,80663213	1,694491365
Cpsf1	0,583000732	0,805296034	0,95816955	0,782409639	1,614129597
Fam111a	0,595530605	0,73283921	1,084704643	1,050017494	1,622178683
Atp13a1	0,600574084	0,788221492	1,057935968	0,998732615	1,563115339
Pou2f2	0,487373695	0,745405577	1,13376016	0,982146106	1,598097164
Polr1c	0,509209349	0,735818734	1,083865255	0,934753325	1,559077706

<i>H2-Q6</i>	0,544865401	0,53929227	0,709733236	1,188533437	1,946640283
<i>H2-Q8</i>	0,53833518	0,531583391	0,685339843	1,185188226	1,935960319
<i>Tssk5</i>	0,329110141	0,795986205	0,719288578	1,193518139	1,969132472
<i>Gm15772</i>	0,575181995	0,666731731	0,978233248	1,276489736	1,959419404
<i>Rpl26</i>	0,565740851	0,65352779	0,966324117	1,247787447	1,966126278
<i>Slc16a11</i>	0,484359243	0,75397034	1,020774252	1,002476327	1,931321373
<i>Rps28</i>	0,581643508	1,10256985	0,743424857	0,96196052	1,853647523
<i>Tssk3</i>	0,735918099	0,883871435	0,859014605	0,996091996	1,804941771
<i>Srm</i>	0,917962303	0,75706222	1,224725038	0,745651673	2,00320581
<i>Icam1</i>	0,66075766	0,781106061	1,344172235	0,57665447	1,828708862
<i>Smpd1</i>	0,722797763	0,335029141	1,314940149	0,755230511	1,886647376
<i>BC029722</i>	0,891966195	0,534557303	0,798413141	0,549746031	1,717609896
<i>9930021D14Rik</i>	0,912380345	0,658722926	0,938503319	0,590436102	1,975235586
<i>Tcf19</i>	1,233408136	0,720846737	1,352639285	1,116288498	1,570158623
<i>Zfx3</i>	1,158036677	0,884150287	1,595030731	0,971539294	1,611920951
<i>Frat2</i>	1,03691206	0,68001392	1,620410095	0,698533886	1,701314205
<i>Tmem115</i>	1,01673835	0,929271923	1,551702991	1,073580896	1,863073747
<i>Phpt1</i>	1,15723453	0,963092556	1,621881131	1,080663432	1,950916993
<i>1110065P20Rik</i>	1,184806504	0,825870718	1,470822836	1,150391074	1,984587303
<i>Inf2</i>	0,972639298	0,824483225	1,630534963	1,217581927	1,970838967
<i>Racgap1</i>	1,038118529	0,722229997	1,382139057	1,130838656	1,819875506
<i>Dnajc9</i>	1,046600148	0,695793328	1,483123388	1,147772274	1,964816759
<i>Banf1</i>	1,291853091	1,018796186	1,341962292	0,784363494	1,963628225
<i>Amh</i>	1,257743687	1,040865052	1,317689915	0,99255169	2,128586257
<i>Dok1</i>	1,307568788	0,608365057	1,201775128	0,760268381	2,204943987
<i>A330069E16Rik</i>	0,455883004	1,23850332	0,258374856	0,725717689	1,967928958
<i>2700023E23Rik</i>	0,461969677	1,146770183	0,46997399	1,269061343	2,304557076
<i>Rangrf</i>	2,191999066	0,385935565	0,946787574	0,962874564	2,188750761
<i>Slurp1</i>	2,121403544	1,050261706	1,500455083	0,635747353	2,134297604
<i>Slc9a1</i>	1,384085438	1,501634082	1,68926234	1,484287102	1,772892714
<i>Igf2r</i>	1,334218237	1,46082613	1,72917747	1,531744783	1,762410081
<i>Ankrd13b</i>	1,386664618	1,421898641	1,653841244	1,533510927	1,802945818
<i>Cnot8</i>	1,305494966	1,421413587	1,671580171	1,43601271	1,737680646
<i>0610038L08Rik</i>	1,341244086	1,575784441	1,625666076	1,458194985	1,857753247
<i>Zbp1</i>	1,328715389	1,539455599	1,661809586	1,353373211	1,798074063
<i>Msi2</i>	1,320359302	1,537115135	1,619666862	1,524756682	1,591037738
<i>Jup</i>	1,357871112	1,473125052	1,598360323	1,452718076	1,561136623
<i>Ube4b</i>	1,333839413	1,61901327	1,598642245	1,452313522	1,600366062
<i>Zfp629</i>	1,355833198	1,560950605	1,651180019	1,383135138	1,58195705
<i>Rnf44</i>	1,187208342	1,564211832	1,798711313	1,471594151	1,815138493
<i>Tbl1xr1</i>	1,175160291	1,524439758	1,818912921	1,503338508	1,846455679
<i>Larp1</i>	1,115483165	1,467909629	1,82700788	1,439431497	1,84262285
<i>Anxa11</i>	1,120061472	1,476303748	1,914680897	1,458657146	1,70829965
<i>Wrap53</i>	1,140563737	1,496984404	1,846212638	1,529176446	1,610415348
<i>Cnot6</i>	1,097956051	1,469562469	1,744903728	1,532803012	1,629295712
<i>BC005764</i>	1,503982982	1,518299068	1,764299745	1,750409243	1,851978251
<i>Mdp1</i>	1,514854921	1,53508207	1,766891238	1,780724979	1,896459442
<i>Cdk3-ps</i>	1,446315656	1,5021178	1,713366746	1,694817027	1,78200766
<i>B230217O12Rik</i>	1,472619962	1,635536539	1,862884569	1,685411087	1,820123667
<i>Thra</i>	1,541274708	1,549207731	1,884997907	1,648122341	1,870534146
<i>Elf4</i>	1,36055276	1,505116964	1,819790209	1,560056112	1,806542353

<i>Ints5</i>	1,389405585	1,47538192	1,910246466	1,68176955	1,667585301
<i>Edf1</i>	1,373958481	1,60665737	1,729031699	1,856958984	1,700379178
<i>Rela</i>	1,330678133	1,719648425	1,722079	1,726679381	1,693328046
<i>Phb2</i>	1,491949969	1,628510733	1,847365599	1,747315531	1,608125419
<i>Mta1</i>	1,32668366	1,350535355	1,584221806	1,633952567	1,762762416
<i>Mif4gd</i>	1,294126703	1,473211258	1,571775391	1,640952096	1,747062067
<i>Parp10</i>	1,20446373	1,407657969	1,61916479	1,633302296	1,798692088
<i>Dazap1</i>	1,206347821	1,404229247	1,543666822	1,554135836	1,836886749
<i>4930471I20Rik</i>	1,222932363	1,47990712	1,550945682	1,578507719	1,633301311
<i>Camkk2</i>	1,200718401	1,535864391	1,576206307	1,537520607	1,692616853
<i>1110005A03Rik</i>	1,208050811	1,280780467	1,528638074	1,625969263	1,774603826
<i>Leng1</i>	1,234383202	1,298551248	1,547629841	1,691088539	1,644018162
<i>Git1</i>	1,273541399	1,437666626	1,571282177	1,614441436	1,943454137
<i>5830416I19Rik</i>	1,309728928	1,454098611	1,48857396	1,623790021	1,958206158
<i>Ppil1</i>	1,310969726	1,589210927	1,580618611	1,684985615	1,880915251
<i>Cyp2t4</i>	1,155902029	1,487669784	1,492735824	1,80422365	1,943222139
<i>Tspo</i>	1,187014764	1,380268098	1,490218955	1,747811682	1,822764265
<i>Rnf125</i>	1,286230641	1,387465119	1,726554286	1,670455475	1,980038842
<i>Hint2</i>	1,398068713	1,361581607	1,790617197	1,693559187	1,830341106
<i>Slc35c1</i>	1,447126923	1,35960089	1,59181933	1,667678243	1,86970989
<i>Egln1</i>	1,449348842	1,42140734	1,686964994	1,611662846	1,875515148
<i>4930483J18Rik</i>	1,246613625	1,361202723	1,647013916	1,82112963	1,857646558
<i>Hmgn2</i>	1,212243746	1,248569314	1,621428355	1,763699715	1,79020193
<i>Amd1</i>	1,153907919	1,320171542	1,738324523	1,649151975	1,77951777
<i>Amd2</i>	1,153909069	1,32017658	1,737866866	1,651273674	1,779522831
<i>Sirt7</i>	1,157132591	1,339401025	1,760706746	1,730473098	1,837413628
<i>Cd79b</i>	1,437795286	1,155671775	1,685875029	1,723243382	1,887343711
<i>Rnasek</i>	1,451138237	1,189012529	1,791364909	1,519328287	1,751342747
<i>Pdxp</i>	1,571857996	1,31981566	1,877790687	1,885744376	1,714759765
<i>Cops6</i>	1,614415768	1,268762959	1,843336579	1,713264226	1,732258143
<i>Sema4f</i>	1,500813254	1,471050922	1,423049143	1,60614581	1,585384598
<i>Phldb3</i>	1,468441122	1,55726884	1,47341992	1,653749658	1,491935553
<i>BC032203</i>	1,66606388	1,622620309	1,480252023	1,608287872	1,524676053
<i>Exog</i>	1,570643453	1,687817342	1,455724704	1,600962845	1,319616466
<i>Smpd13b</i>	1,487153758	1,680194065	1,477129501	1,754719128	1,441175902
<i>AW046200</i>	1,295112264	1,710333038	1,511027708	1,47924701	1,509786611
<i>Galnt7</i>	1,298196388	1,577703901	1,48170184	1,53916173	1,512710684
<i>Galm</i>	1,432808156	1,682631837	1,59662486	1,5852215	1,367811905
<i>Prdm1</i>	1,409932995	1,633775693	1,626473046	1,500262531	1,334553879
<i>Sag</i>	1,244453175	1,419703723	1,562326004	1,569701343	1,534863023
<i>Hspa2</i>	1,22521472	1,398892369	1,641425418	1,737769892	1,603160157
<i>Dok2</i>	1,069974201	1,542359516	1,52051168	1,697534111	1,501686372
<i>1700020I14Rik</i>	1,158888123	1,520363664	1,638340821	1,494260481	1,334262058
<i>1810013A23Rik</i>	1,207634477	1,407581115	1,755303268	1,674403513	1,304772979
<i>Ccr5</i>	1,381401607	1,705620627	1,32322132	1,99472861	1,431908727
<i>Prkcsh</i>	1,373191497	1,74263015	1,489579239	2,078690538	1,534492262
<i>Bpgm</i>	1,197956528	1,829223839	1,564011135	1,97086955	1,481469252
<i>2310016M24Rik</i>	1,053129176	1,352880686	1,524620751	2,126451752	1,435163175
<i>Gm17801</i>	1,211186502	1,432254715	1,43994228	2,080932673	1,453502496
<i>Sepp1</i>	1,16000427	1,219162562	1,397699298	1,915671193	1,450191661
<i>Tymp</i>	1,293914433	1,279648046	1,270049927	1,771804215	2,088047318

<i>E130012A19Rik</i>	1,317835739	1,477051732	1,351591867	1,925949254	1,952490785
<i>Fkrp</i>	1,173971301	1,368415959	1,656924707	2,014119726	2,156022552
<i>B4galt5</i>	1,18750248	1,475697827	1,609127257	1,874042459	2,078106702
<i>Sap18</i>	1,182352779	1,310819689	1,542859942	1,994133538	1,933489709
<i>F2rl3</i>	1,504833153	1,639983434	1,347796468	2,109229993	1,974605407
<i>Nkx2-4</i>	1,267015445	1,757025094	1,249112045	2,152028424	2,172728407
<i>Mrps26</i>	1,147757427	1,734512352	1,3714324	1,765225107	1,820169305
<i>Polg</i>	1,22816248	1,732213731	1,427696359	1,631928108	1,69568665
<i>Eid2b</i>	1,295323078	1,64853381	1,260056929	1,666651211	1,805811925
<i>Rps9</i>	0,99344335	1,593977281	1,43979461	1,629344975	1,736238246
<i>Abhd1</i>	1,051263283	1,489385435	1,443833565	1,599360803	1,735563316
<i>Ulk3</i>	1,098345317	1,609576817	1,378206662	1,705480092	1,654438228
<i>Apobec2</i>	1,251777729	1,390214907	1,263371547	1,622549018	1,774240388
<i>BC020402</i>	1,202450696	1,386695413	1,246817748	1,495886243	1,789196746
<i>Alkbh7</i>	1,291755671	1,483561439	1,222673419	1,536106149	1,945451505
<i>Lin7b</i>	1,057915354	1,493220877	1,153127678	1,594404582	1,940154363
<i>Pnpla2</i>	1,076427072	1,485992149	1,188065649	1,672693537	1,957933882
<i>Lpcat4</i>	1,002290075	1,722722928	1,219341355	1,833250958	2,0163713
<i>2810008D09Rik</i>	1,113325638	0,807744065	1,426929083	1,541122732	1,994683159
<i>Slc39a4</i>	1,088577454	0,78160633	1,655568243	1,487792689	2,057865353
<i>Clic3</i>	0,865156752	0,680251699	1,430064231	1,536747069	2,137383824
<i>Vkorc1</i>	0,946881301	0,924077623	1,574391659	1,533813645	1,983483579
<i>Rcn3</i>	0,99395142	0,886906221	1,542042379	1,60323681	1,85012743
<i>Yrdc</i>	0,815524554	0,917394219	1,532100145	1,521869531	1,867601144
<i>Stk38</i>	1,016253353	1,146972152	1,427334594	1,721247551	1,935686269
<i>Susd3</i>	0,983736007	1,142000455	1,542020258	1,67670356	1,999494794
<i>Rpl8</i>	0,981615161	1,11914341	1,651366208	1,881847823	2,029247436
<i>Phf1</i>	1,112796749	0,935809276	1,627371842	1,679302159	1,92992937
<i>Fcgrt</i>	1,138650485	1,062812697	1,593639813	1,659214855	2,109224955
<i>H2-DMa</i>	1,441736206	0,915744512	1,668808837	1,492949752	2,162776259
<i>Aurkaip1</i>	1,333731824	0,946306232	1,416887249	1,747906558	2,116798348
<i>Ncln</i>	1,150645291	0,960138269	1,381943788	1,957886967	2,383732142
<i>H2-K2</i>	1,032542887	1,154930441	1,142296642	1,739821679	2,370323309
<i>1700029J11Rik</i>	1,178850222	1,065539943	1,454129044	1,503294286	1,577553387
<i>Ifitm5</i>	1,031178009	1,094413972	1,425256027	1,588831389	1,486999461
<i>Phf13</i>	1,079126329	1,062825059	1,624664751	1,47989028	1,626760162
<i>D330041H03Rik</i>	0,995450821	1,012430233	1,417902818	1,495025536	1,826011028
<i>Manf</i>	0,966320859	1,040537407	1,382709265	1,537228809	1,729539886
<i>Pmel</i>	1,017500046	1,154678715	1,421055191	1,639649859	1,77900591
<i>Hyi</i>	1,151896395	0,991662414	1,583067874	1,346197405	1,638722686
<i>P2rx4</i>	1,142906322	1,047706341	1,454939436	1,280891389	1,687215546
<i>9130023H24Rik</i>	1,157965054	0,834696673	1,285266607	1,753787592	1,686237937
<i>Nudt16l1</i>	0,78097133	0,875282339	1,206301278	1,267727465	1,825808775
<i>Fth1</i>	0,724930159	0,945619489	1,200154271	1,403899237	1,728170101
<i>Pdap1</i>	0,709947858	0,831852748	1,38310793	1,451252289	1,885295901
<i>Lrrc47</i>	0,878266818	0,719603114	1,25823757	1,373131964	1,769939335
<i>Wdr38</i>	0,885127421	0,871305766	1,252754834	1,442849198	1,725111826
<i>Klhl21</i>	0,992609321	0,907181501	1,299203686	1,33125818	1,893254351
<i>Rras</i>	0,896584812	0,883392076	1,306695281	1,426008004	1,990112108
<i>1500012F01Rik</i>	0,894701998	0,965933415	1,340071724	1,439653653	1,749606329
<i>Traf3ip2</i>	0,911801094	1,040599779	1,311551285	1,423113465	1,660918551

<i>Mllt11</i>	0,804858093	0,993118433	1,402622431	1,389058729	1,649212584
<i>Tnfsf13</i>	0,901933739	1,00031542	1,419021226	1,438881328	1,624553987
<i>Med10</i>	0,955039742	0,970442201	1,405112649	1,327911104	1,700215068
<i>Tubb4b</i>	0,838544294	0,900176427	1,392236224	1,550130543	1,661262544
<i>Bag5</i>	0,982459652	1,156214111	1,185735415	1,597002113	1,739575484
<i>Nrm</i>	1,086077243	1,193284657	1,13339974	1,597042008	1,786854087
<i>Susd2</i>	1,065111351	1,172414887	1,262306776	1,624669062	1,871277776
<i>Pusl1</i>	1,186482184	1,230725877	1,235237085	1,740695051	1,737498394
<i>Tmem14c</i>	1,091763013	1,253295988	1,270509316	1,458330682	1,77570934
<i>Nfic</i>	1,225710777	1,191189964	1,371070766	1,481593514	1,760046242
<i>Thap7</i>	1,144800715	1,192380118	1,377124977	1,437751373	2,002215371
<i>Grin3b</i>	1,10062798	0,963038188	1,235119356	1,476137697	2,00387595
<i>H2-T23</i>	1,097266986	1,063356631	1,065495772	1,578821484	1,988106499
<i>Xrcc3</i>	1,362266407	1,549642933	1,792128446	1,598452954	2,048400901
<i>Iqgap1</i>	1,357360465	1,528447872	1,83809879	1,619490925	2,088286396
<i>Gm16576</i>	1,385628118	1,511495347	1,899423523	1,636076707	1,951047296
<i>Uqcr10</i>	1,3169762	1,603609677	1,829624632	1,605901758	1,990970081
<i>Ccdc6</i>	1,255222538	1,605514621	1,858880415	1,569966769	1,97044815
<i>Amac1</i>	1,238972199	1,615265322	1,741988355	1,534681793	1,944124583
<i>Txnrd1</i>	1,297011756	1,777195251	1,928513078	1,687738656	1,957989632
<i>Heg1</i>	1,287686427	1,747577121	1,900091814	1,734440799	1,879253634
<i>Stard3</i>	1,233253961	1,673086754	1,912485758	1,697156546	1,957820912
<i>Vps45</i>	1,268088209	1,802369464	1,854610067	1,57939449	2,018798369
<i>Sirt6</i>	1,247520051	1,549778504	1,986386105	1,649892894	2,112904835
<i>Ncor2</i>	1,233577134	1,514158241	1,911103325	1,693674272	2,175126439
<i>Amica1</i>	1,358586603	1,454562067	1,99354646	1,621574282	2,08796773
<i>Spata2</i>	1,221747479	1,46419842	1,860867504	1,749582213	2,055496945
<i>Zfp217</i>	1,226537021	1,536355384	1,913361613	1,808613052	2,147096542
<i>Tlr6</i>	1,243468863	1,534008169	1,939005154	1,797685023	1,969782652
<i>Phf15</i>	0,97323736	1,513342905	1,972495224	1,511043546	2,192605105
<i>Tnfrsf1b</i>	1,110385036	1,589628223	2,058061044	1,547750337	2,107298727
<i>AI504432</i>	1,04819797	1,460418718	2,042792057	1,463276514	1,955798388
<i>Rpl18a</i>	1,205406217	1,363072215	1,614433554	1,326242211	1,971845191
<i>Unkl</i>	1,161738764	1,432998615	1,767819945	1,203584699	1,99346561
<i>Agpat3</i>	1,104602252	1,416428212	1,798165636	1,447641716	2,028485466
<i>Ptpn22</i>	1,291915838	1,504373509	1,72821638	1,398889157	2,016304523
<i>Gimap5</i>	1,296077619	1,450014289	1,6580036	1,315396776	1,986313939
<i>Matk</i>	1,339281299	1,504281208	1,567326659	1,411074296	1,966690245
<i>Nup62</i>	1,389524226	1,457023355	1,762653579	1,50122756	2,081876743
<i>Exoc8</i>	1,333462913	1,486037573	1,685679173	1,518952379	2,02284339
<i>Akt1</i>	1,148626981	1,368989978	1,605512001	1,567709131	2,01903718
<i>Zfp335</i>	1,185255032	1,329587078	1,624286472	1,500378865	2,043685464
<i>Mmp23</i>	1,242845019	1,226046114	1,608365355	1,597581465	1,96703337
<i>Fam96b</i>	1,11364948	1,32626028	1,644974808	1,578987086	1,934896539
<i>Psma7</i>	1,125003643	1,334090721	1,706132166	1,692144227	2,011593895
<i>Fbrs</i>	1,123764549	1,262042874	1,8627781	1,521106536	1,926458653
<i>Slc37a1</i>	1,235306545	1,233533665	1,760282863	1,506920227	1,823930903
<i>Nenf</i>	1,417571348	1,211500324	1,817628475	1,421636981	1,974097407
<i>Ccne1</i>	1,496529318	1,195076062	1,914366937	1,509747445	2,104660262
<i>Tesk1</i>	1,325699048	1,269056786	1,753936716	1,452008912	2,148353923
<i>1500011B03Rik</i>	1,274823755	1,463272015	1,638194486	1,799656695	2,236917285

<i>Srgn</i>	1,279165166	1,326814515	1,674358746	1,672043249	2,269811046
<i>Rps25</i>	1,099734841	1,496906421	1,788591764	1,790567281	2,48537253
<i>Rfx1</i>	1,126696889	1,447839014	1,839487285	1,856132054	2,271248254
<i>Rtn4rl1</i>	1,096963296	1,527896546	1,845477214	1,844434661	2,194602548
<i>Jak3</i>	1,012784419	1,475432223	1,957527945	1,864809114	2,3295827
<i>Hnrnp3</i>	1,054137091	1,502509392	1,828730644	1,911576819	2,081561198
<i>Rpl23</i>	0,980840235	1,48762144	1,769036405	1,93147345	2,148995337
<i>1810058I24Rik</i>	0,971503915	1,46240373	1,734884723	1,581903893	2,25215014
<i>Esyt1</i>	1,076666256	1,423157348	1,596093932	1,727114641	2,229967396
<i>C030018K13Rik</i>	1,00083481	1,263123784	1,557674774	1,591947799	2,169857544
<i>Sh3bp5</i>	1,010982509	1,385456467	1,770554432	1,755090651	2,259770407
<i>Prdx6</i>	0,996207222	1,380075472	1,74359164	1,902702299	2,257574308
<i>Rps18</i>	0,905329942	1,355788762	1,617525023	1,82116528	2,212534342
<i>Tlcd1</i>	1,516121109	1,315964254	1,756723971	1,708619909	2,302258786
<i>Cdt1</i>	1,598386312	1,36079992	1,672892411	1,537431297	2,251022599
<i>Flot1</i>	1,66716624	1,424119345	1,714976432	1,71208146	2,145269431
<i>Mafk</i>	1,611253122	1,505068584	1,828490392	1,667796024	2,122491359
<i>Efemp2</i>	1,526205441	1,631952718	1,790628775	1,638757672	2,431374939
<i>Ndufb10</i>	1,433430173	1,643088328	1,72345139	1,585346314	2,325851084
<i>Atp5d</i>	1,513970465	1,61054458	1,552498932	1,583283959	2,457766975
<i>Ttc7</i>	1,459859636	1,59163604	1,827974178	1,740321376	2,160703853
<i>Ndufv3</i>	1,519413377	1,602728521	1,746497897	1,82444793	2,305595774
<i>4930579G18Rik</i>	1,30157892	1,624228404	1,711776127	1,832966353	2,162351825
<i>Tnfaip811</i>	1,464376978	1,469791608	1,803306525	1,85560622	2,185387766
<i>Stard5</i>	1,469644433	1,508759731	1,742254562	1,800242859	2,247876828
<i>Gm14378</i>	1,443902187	1,367808545	1,715343138	1,825827096	2,249453063
<i>Klhl17</i>	1,360158683	1,493143458	2,077570818	1,809982003	2,376201348
<i>Rbm15</i>	1,344711607	1,51493728	1,949543879	1,810140986	2,402909502
<i>Rpl29</i>	1,325562546	1,667065857	2,004207789	1,713675487	2,326066082
<i>Irf3</i>	1,327912734	1,471699752	2,023913388	1,905397501	2,227628851
<i>Utp3</i>	1,506357592	1,587799712	2,031996399	1,899882704	2,189732332
<i>Cst7</i>	1,092423476	1,27963007	1,97471431	1,478184812	2,179730801
<i>Zyx</i>	1,224576481	1,344467056	2,04117988	1,548175582	2,268546485
<i>Mst1</i>	1,063148801	1,228064208	1,993954073	1,721477314	2,29219277
<i>Cdk9</i>	1,139313175	1,409746921	2,012390038	1,658907793	2,174921496
<i>Trp53i13</i>	1,070668272	1,44028093	1,938630248	1,63810342	2,10884043
<i>Exosc4</i>	1,087023181	1,489117172	2,004685628	1,779007395	2,15763479
<i>Hnrnpab</i>	1,073385202	1,528721328	2,065024458	1,642285819	2,258187286
<i>Nfyb</i>	0,964948687	1,430638429	2,094291948	1,679842929	2,216035723
<i>Cnr2</i>	0,973418867	1,444095785	1,858264255	1,514667844	2,484857085
<i>Sec11c</i>	0,918030002	1,458172282	1,821490495	1,372793044	2,248867056
<i>Unc119</i>	1,248741447	1,436101222	1,921919802	1,465543755	2,394297294
<i>Mta3</i>	1,232553896	1,487479792	2,031511223	1,432723013	2,431053943
<i>Bet1l</i>	1,251537411	1,179625672	1,949361165	1,473715262	2,422288754
<i>Tbkbp1</i>	1,401316024	1,386600096	1,980475061	1,657327593	2,283005344
<i>C1qtnf6</i>	1,36406764	1,454698388	2,027066009	1,426753079	2,188519314
<i>Lgals3bp</i>	1,183149139	1,454527505	2,142673829	1,698672475	2,368375414
<i>Apobec3</i>	1,145444292	1,545142109	2,055987721	1,667367181	2,451452563
<i>Dom3z</i>	1,115722826	1,568128509	2,236662693	1,702883673	2,380661851
<i>Apom</i>	0,988632643	1,631107978	2,058450553	1,622779379	2,440051479
<i>Med16</i>	0,932793303	1,215769647	2,18377274	1,378513838	2,50067417

<i>Rps12</i>	0,804669715	1,219668442	2,076094845	1,537888864	2,542969695
<i>O910001L09Rik</i>	0,997782187	1,236080723	2,250136537	1,609619528	2,597271154
<i>5830432E09Rik</i>	1,424695697	1,367906211	1,899627697	0,773392931	1,944184345
<i>Tnni3</i>	1,229665966	1,187096676	1,995212539	1,131149236	1,964219856
<i>Sox12</i>	0,97165343	1,668175396	1,823674714	0,957496023	2,072483144
<i>Fgf17</i>	0,990588353	1,313172731	1,881028725	0,749703944	2,096030583
<i>Lcat</i>	1,572289727	1,42041243	1,807298944	1,076135258	2,183174091
<i>Fbxw5</i>	1,396290337	1,659881037	1,795446226	1,270982425	2,370830139
<i>Ehd1</i>	1,498167107	1,096973956	2,225075077	1,080891532	2,450789721
<i>Snai3</i>	1,524448093	0,918335	2,212562923	1,003441554	2,031346982
<i>Frs2</i>	1,506874215	1,767290831	1,715043943	1,625682209	1,730517801
<i>Rnf41</i>	1,529591131	1,765125677	1,657779602	1,694970801	1,61691756
<i>Cnst</i>	1,399540127	1,834677236	1,611039632	1,650877366	1,611894737
<i>Cdyl2</i>	1,516641221	1,715133428	1,730117978	1,474599762	1,633012871
<i>Ksr1</i>	1,47319396	1,666655862	1,727226715	1,50420001	1,569871099
<i>Trat1</i>	1,552896424	1,764141297	1,61999199	1,497835977	1,555569042
<i>Ubqln1</i>	1,372598059	1,665858065	1,662320414	1,522029115	1,746078934
<i>Cdk19</i>	1,354166967	1,57659635	1,639070801	1,563757724	1,746184838
<i>4930481A15Rik</i>	1,280330558	1,658918431	1,596229557	1,561451597	1,7287805
<i>Ctcf</i>	1,361893025	1,649554262	1,567940238	1,55415107	1,615243621
<i>Zbtb24</i>	1,359377634	1,58462162	1,49334341	1,568452328	1,653900177
<i>Ier3ip1</i>	1,381801242	1,61606194	1,681976853	1,639643415	1,566697267
<i>Rnf43</i>	1,475224683	1,662805908	1,625355219	1,655622264	1,60654404
<i>Mus81</i>	1,686092904	1,682578378	1,554908614	1,481081765	1,869273648
<i>Fbxl22</i>	1,594162074	1,75908702	1,461191832	1,414132037	1,716595401
<i>Klhdc9</i>	1,469946772	1,7007028	1,415290401	1,652189804	1,790583879
<i>Rilp</i>	1,434479519	1,722293755	1,726131131	1,315535567	1,848644904
<i>Cdk5r1</i>	1,4583511	1,715066095	1,820766732	1,25673665	1,842782196
<i>Fbxo46</i>	1,380582587	1,65931528	1,71133033	1,375521403	1,971935497
<i>Slc39a5</i>	1,58483456	1,600104119	1,677637363	1,27330893	1,950273121
<i>Zbtb45</i>	1,291964466	1,812397021	1,492153179	1,390950158	1,891484087
<i>Lsm10</i>	1,421069734	1,868506653	1,647231992	1,47802712	1,900044106
<i>Abhd15</i>	1,615752422	1,562916827	1,666725981	1,447296777	1,734707831
<i>Mgat4a</i>	1,664275518	1,486427864	1,69736902	1,46794405	1,73105729
<i>Mgst2</i>	1,716969399	1,536061098	1,739283643	1,438212858	1,676241637
<i>Vdac1</i>	1,586191971	1,462997819	1,805247332	1,422315666	1,737864419
<i>Dalrd3</i>	1,640078129	1,390951068	1,723292669	1,401596407	1,794293222
<i>1700003D09Rik</i>	1,598146089	1,560813456	1,85543015	1,322496414	1,696954949
<i>Fam36a</i>	1,572779715	1,616065046	1,736613104	1,376374202	1,679727076
<i>Epm2aip1</i>	1,621354297	1,520816677	1,946794764	1,494745935	1,71382271
<i>Ppp1r1b</i>	1,488634655	1,468254843	1,867824546	1,35950376	1,677601212
<i>4933429K18Rik</i>	1,456987999	1,404257906	1,7764114	1,271174311	1,750748285
<i>Slc16a1</i>	1,464145816	1,559587114	1,920264048	1,369982437	1,911778408
<i>Plcx2</i>	1,428405942	1,514580519	1,80159201	1,347739562	1,833908575
<i>Lrmp</i>	1,411691114	1,73408331	1,754055652	1,560876994	1,6964664
<i>Foxp4</i>	1,391036113	1,682773946	1,775844159	1,583399096	1,771634277
<i>Fam71f2</i>	1,361179563	1,62695283	1,85555118	1,442087027	1,70881399
<i>C1galt1</i>	1,434998607	1,693197553	1,861452934	1,558964364	1,790107311
<i>Mrpl51</i>	1,457093347	1,724345043	1,939959312	1,532219423	1,783838723
<i>Ano6</i>	1,495954594	1,706857149	1,840054866	1,543865215	1,681644528
<i>Psmg1</i>	1,35633107	1,586556833	1,956740407	1,408169896	1,535254568

<i>Rapgef1</i>	1,553348139	1,638904556	1,671204024	1,532286954	1,742324821
<i>Pgs1</i>	1,599479726	1,568763607	1,700884698	1,54782886	1,726866316
<i>Ampd1</i>	1,585780389	1,587372358	1,734671575	1,656395769	1,716039342
<i>Chad</i>	1,515921053	1,499662013	1,592919997	1,667121212	1,669765709
<i>Bscl2</i>	1,734169059	1,442585704	1,705468543	1,413848409	1,560242997
<i>Hic1</i>	1,714134606	1,449712895	1,781346881	1,569682357	1,653430493
<i>Pnkp</i>	1,651270701	1,488448506	1,719144677	1,599370343	1,479438277
<i>Dpcd</i>	1,69031877	1,744663277	1,78856455	1,52745058	1,659493276
<i>Gm11201</i>	1,666548909	1,652429704	1,75555069	1,596291019	1,671183273
<i>Frmd6</i>	1,711950729	1,73442522	1,74050191	1,594157741	1,570305613
<i>Gm15471</i>	1,739646546	1,758357293	1,621885927	1,477667444	1,667871607
<i>Xpa</i>	1,686552847	1,743028013	1,625811303	1,530320662	1,58242692
<i>C920006O11Rik</i>	1,52137578	1,92173496	1,855043979	1,548428021	1,384805461
<i>S1pr4</i>	1,541660648	1,752685248	1,875257641	1,404466832	1,422788721
<i>Gm1337</i>	1,52597101	2,165911351	1,691355251	1,504299395	1,550890059
<i>Tapt1</i>	1,584902199	1,760743328	1,840950885	1,346892109	1,603492624
<i>2310040G24Rik</i>	1,629577593	1,688438695	1,819865893	1,316129858	1,549734624
<i>A930024E05Rik</i>	1,694809822	1,825841766	1,830169722	1,272403686	1,505047914
<i>A130077B15Rik</i>	1,88767268	1,750058294	1,884971093	1,388830459	1,589705579
<i>Pipox</i>	1,788222033	1,705995662	1,96883393	1,305781908	1,659357485
<i>Olf1510</i>	1,697219909	1,886074328	1,793545593	1,036354043	1,459148549
<i>Tnfrsf9</i>	1,460923505	1,78302731	2,069350575	1,601157214	1,867688763
<i>Mbtps1</i>	1,478396062	1,680995697	2,038920222	1,654395711	1,932240057
<i>Cdh24</i>	1,533209124	1,809820566	1,961703232	1,539962889	1,836850446
<i>Kctd11</i>	1,40035409	1,674805602	1,976736716	1,314476855	2,004393167
<i>Ccdc85b</i>	1,466460411	1,869117957	2,214814774	1,563868666	1,983086075
<i>Ormdl3</i>	1,382482062	1,865798975	2,155869117	1,364237579	2,027361043
<i>Ssbp3</i>	1,416684485	1,623283224	2,046004488	1,540380085	2,000417833
<i>Arl6ip1</i>	1,266476225	1,532110482	2,097188273	1,577683979	1,986807745
<i>Acd</i>	1,490310756	1,448736527	2,108812413	1,528448261	1,758436931
<i>Lst1</i>	1,499753376	1,458014623	2,098519263	1,523379594	1,930786417
<i>A630095N17Rik</i>	1,086457119	1,822303642	1,902399661	1,687412749	1,542984312
<i>Nr3c1</i>	1,190089054	1,849661688	1,731172568	1,710084725	1,583679386
<i>Slc25a5</i>	1,327191123	1,892672602	1,827831732	1,712317338	1,401050772
<i>Minpp1</i>	1,198707101	2,042833056	1,752138266	1,872399877	1,656007393
<i>Srfbp1</i>	1,43840538	2,008836245	1,92631771	1,723149376	1,75064702
<i>Cnn3</i>	1,404548487	1,97001675	1,926193203	1,663486723	1,637458259
<i>Tmem11</i>	1,278761723	1,944198455	1,878325093	1,689145303	1,822059337
<i>Rpl12</i>	1,41209848	1,935278294	1,860318533	1,564565762	1,724706542
<i>Ripk3</i>	1,374236284	1,832066233	1,943243675	1,609135476	1,701318858
<i>Ptprc</i>	1,3638598	1,843090607	1,838562415	1,506680955	1,60611999
<i>Zfp3</i>	1,362420648	1,863164163	1,902257224	1,441530036	1,722556282
<i>Gm10485</i>	1,388999687	1,865052475	1,855726608	1,446896738	1,82249846
<i>Fkbp1a</i>	1,366983159	2,172101959	1,637852025	1,940123751	1,560200042
<i>Pxmp4</i>	1,517601895	2,169536899	1,762739671	1,768627136	1,516000761
<i>Slf5</i>	1,5303077	1,855770627	1,611994326	1,873029566	1,765936723
<i>Spcs2</i>	1,658838837	1,88334428	1,579354055	1,764392753	1,660143257
<i>Gm10007</i>	1,293030725	1,908073848	1,46524434	1,436997509	1,52005612
<i>Zfp422</i>	1,190852167	1,815349745	1,535828606	1,406143761	1,466316718
<i>2810008M24Rik</i>	1,291663325	1,879398313	1,60004376	1,538316504	1,343799272
<i>Trio</i>	1,221358477	1,752416146	1,557698681	1,581729519	1,443791808

<i>Tnni1</i>	1,234713116	1,808913903	1,65472017	1,525173703	1,488357333
<i>Dgkd</i>	1,265358803	1,707336566	1,613233165	1,570346322	1,550764255
<i>Crygn</i>	1,217902838	1,897812893	1,464613854	1,69536993	1,404216022
<i>Mamstr</i>	1,321750133	1,766961294	1,38763237	1,694327231	1,503837597
<i>Smad5</i>	1,246108296	1,626403206	1,479556675	1,628548464	1,38597623
<i>Got1</i>	1,348200485	1,719463915	1,392670305	1,642683014	1,298277232
<i>A330076C08Rik</i>	1,052342528	1,825682706	1,695547672	1,612680078	1,373876022
<i>Selk</i>	1,076791175	2,000053964	1,63948755	1,612389546	1,166644851
<i>Dynlt1b</i>	1,664808461	1,546967951	1,526105333	1,231513049	2,137202923
<i>9930012K11Rik</i>	1,484052586	1,5685884	1,473133506	1,150857665	1,96366885
<i>1700003F12Rik</i>	1,656545944	1,819717703	1,144451483	1,076265593	2,008343695
<i>Mrfap1</i>	1,395813778	1,772973074	1,409854435	1,443194788	2,309764044
<i>S100a6</i>	1,508242237	1,806088464	1,440834536	1,428727261	2,095682862
<i>Ocel1</i>	1,46590782	2,038752871	1,473043126	1,218093944	2,107600542
<i>Zfp593</i>	1,944028397	1,746159676	1,373884807	1,254932322	2,082621882
<i>2610001J05Rik</i>	1,784271058	1,935189216	1,369394862	1,550579374	2,110806123
<i>E130218I03Rik</i>	1,965062783	1,977885328	1,675925797	1,207223959	2,03201438
<i>Ppp1r14b</i>	1,86177072	1,584131808	1,577390631	1,039539422	1,619480292
<i>Nme4</i>	1,82119557	1,610030185	1,596340043	1,036358334	1,646905657
<i>Card9</i>	1,858668957	1,657041786	1,515140542	1,013670296	1,512377615
<i>Gm6623</i>	1,962648775	1,622239901	1,253366596	0,873525988	1,576043321
<i>Rab24</i>	1,675633181	1,518607995	1,465039431	0,902768741	1,90042604
<i>Pim3</i>	1,597934443	1,505733067	1,293739021	0,967694731	1,637923627
<i>2210404O07Rik</i>	1,695067574	1,587123281	1,630577597	0,644741061	1,748544181
<i>Bmp7</i>	1,765791123	1,453447885	1,484243818	1,286810446	1,247222019
<i>Dgke</i>	1,855495096	1,394551756	1,493268392	1,247910767	1,326387061
<i>Cyb5b</i>	1,957472971	1,41794245	1,453299622	1,166910993	1,345095637
<i>Creld1</i>	1,943876626	1,429780949	1,417327841	1,210691119	1,458401118
<i>Hexim2</i>	1,643052424	1,260608787	1,465975672	1,172011784	1,265372134
<i>Arhgef40</i>	1,678424558	1,330434819	1,454103444	1,121960194	1,291383732
<i>Xkrx</i>	1,740922041	1,297801063	1,647485215	1,085923581	1,283255317
<i>Tgfb1i1</i>	1,562367098	1,380572419	1,48720382	1,13406852	1,396178592
<i>Shf</i>	1,604600785	1,422989998	1,46520789	1,192602336	1,474538067
<i>Pex6</i>	1,462347045	1,426794399	1,378882958	1,174737935	1,4073948
<i>Gm16793</i>	1,494987377	1,599279296	1,400670313	1,112638024	1,390260635
<i>Dexi</i>	1,472350672	1,533652858	1,425410972	1,176708558	1,331740534
<i>Zscan20</i>	1,549233306	1,578291808	1,436679116	1,206196893	1,395552411
<i>Col15a1</i>	1,563915793	1,496616481	1,492831053	1,167080625	1,340651631
<i>Pnrc2</i>	1,608458412	1,510970549	1,536679978	1,200155847	1,291687881
<i>Ppef2</i>	1,718891127	1,575031753	1,543300103	1,108617203	1,393913113
<i>Mgat5</i>	1,598669613	1,52652688	1,50500451	1,23613858	1,468928595
<i>5730435O14Rik</i>	1,597205048	1,52722167	1,494315033	1,119917503	1,505943218
<i>Tbx19</i>	1,724481061	1,493865911	1,549072829	1,158730269	1,432953103
<i>Ndrp2</i>	1,69743248	1,430252544	1,514364467	1,202970469	1,456871566
<i>Usp1</i>	1,365518543	1,379780749	1,617704397	1,381743918	1,558035641
<i>Gm4285</i>	1,341452809	1,349866137	1,602124384	1,332663963	1,48036666
<i>Tspan5</i>	1,351217208	1,468099002	1,600250225	1,324524497	1,548208782
<i>Zhx2</i>	1,42271554	1,383056669	1,460334373	1,308039253	1,483954504
<i>Mtap7</i>	1,325073162	1,39890081	1,473394936	1,332564385	1,40034326
<i>Mcoln2</i>	1,3586505	1,519217014	1,456624584	1,333760143	1,560215428
<i>Neat1</i>	1,440866349	1,481125605	1,452750182	1,339900973	1,573145816

<i>Zfp523</i>	1,531322045	1,471086204	1,48114867	1,246302557	1,534434074
<i>Igf1r</i>	1,528949659	1,456913946	1,508058665	1,281840421	1,541147164
<i>Csnk1e</i>	1,521277114	1,382826998	1,518862597	1,457554595	1,577304036
<i>Wnt5b</i>	1,493014577	1,409545538	1,534087441	1,400462505	1,576821054
<i>Msh5</i>	1,419005637	1,384689275	1,565672912	1,477989743	1,538388723
<i>Zbtb8a</i>	1,477485379	1,318079782	1,521757436	1,373147246	1,622984716
<i>Psmc3</i>	1,40840166	1,279598345	1,532293476	1,342740584	1,632978464
<i>Fbxl18</i>	1,513706994	1,293119316	1,278813528	1,302628992	1,52477723
<i>Nr2f6</i>	1,47880686	1,228759075	1,197666095	1,393018198	1,584853282
<i>Pxt1</i>	1,504477887	1,25744155	1,335502739	1,427070334	1,398520034
<i>5930416119Rik</i>	1,562668636	1,443739573	1,242147387	1,40054657	1,543544237
<i>Ftsj2</i>	1,490151379	1,493334235	1,276719941	1,371024519	1,545038817
<i>Ficd</i>	1,826322098	1,327289374	1,594319085	1,557019232	1,50908478
<i>Hcrt</i>	1,915250422	1,206269248	1,489078724	1,575302699	1,487262187
<i>Ttc30a2</i>	1,700740716	1,094601291	1,712406501	1,492606183	1,677481941
<i>Prr18</i>	1,610922219	1,097375818	1,474520905	1,814999486	1,491831454
<i>Sult2b1</i>	1,532136727	1,195428053	1,442616497	1,58264275	1,599385151
<i>Dirc2</i>	1,620133	1,305854017	1,45461906	1,562496321	1,626161245
<i>C330006A16Rik</i>	1,615662194	1,184502156	1,549563255	1,604080919	1,465294527
<i>Gng10</i>	1,61843399	1,388101866	1,39327048	1,429519837	1,560402405
<i>Zscan10</i>	1,707515009	1,324512446	1,34457498	1,548189437	1,448950599
<i>Gpr3</i>	1,816685591	1,243831763	1,694034823	1,479389112	1,908068256
<i>Dtx3</i>	1,671913203	1,371448251	1,5990436	1,496787162	1,950396422
<i>Inhbe</i>	1,603629207	1,384415087	1,786637145	1,359560183	1,929397721
<i>Cox8a</i>	1,621320786	1,253875035	1,726148219	1,23962724	1,923624512
<i>Akt1s1</i>	1,745796261	1,545928366	1,681146888	1,357362894	1,897225208
<i>2210016F16Rik</i>	1,756855515	1,522047376	1,677989951	1,480362029	1,882601237
<i>Med22</i>	1,796694683	1,511988761	1,560143046	1,389321415	1,874603312
<i>Degs2</i>	1,783874945	1,470101144	1,590546212	1,483482055	1,730195934
<i>Bbc3</i>	1,459071404	1,572159913	1,457072043	1,384657915	1,697257809
<i>Tmem131</i>	1,480094809	1,558770565	1,602193449	1,470712952	1,736510026
<i>2900008C10Rik</i>	1,572628545	1,503033193	1,52174172	1,428019832	1,582332386
<i>Rfx5</i>	1,597615606	1,542000794	1,503325303	1,455080598	1,592905007
<i>Xbp1</i>	1,67006268	1,453249314	1,493665429	1,471059159	1,604873989
<i>1700052K11Rik</i>	1,646183978	1,576594588	1,545581974	1,509881543	1,668753742
<i>Celsr1</i>	1,506186559	1,415264193	1,690604679	1,406644516	1,721155441
<i>H2afy</i>	1,470223688	1,430128112	1,620065158	1,471836964	1,826544419
<i>Slc25a22</i>	1,493438817	1,488599918	1,628366488	1,27969347	1,768349076
<i>Cyb561d1</i>	1,541520225	1,467052201	1,599618991	1,363781043	1,729404092
<i>Dnahc17</i>	1,667880246	1,327478757	1,490440084	1,264265014	1,599776746
<i>Tjp3</i>	1,717889797	1,290273849	1,536793185	1,309096264	1,638582508
<i>Gm10684</i>	1,790138753	1,413462348	1,57053762	1,317411518	1,623541867
<i>Hlcs</i>	1,725646884	1,374814915	1,600664234	1,261196087	1,814893702
<i>Nhp2l1</i>	1,708420348	1,357571536	1,553396387	1,328462267	1,790964051
<i>Tab1</i>	1,624181018	1,399948769	1,542168617	1,272369308	1,727745351
<i>Trim17</i>	1,463695154	1,295265196	1,441286688	1,448769713	1,763859492
<i>Carns1</i>	1,459177139	1,306587832	1,497618562	1,468079179	1,767318341
<i>Mfsd12</i>	1,507350258	1,31248122	1,386760247	1,333461224	1,712943495
<i>Zcchc3</i>	1,625225272	1,46708136	1,326727952	1,367384579	1,89165897
<i>Hist2h2be</i>	1,806014994	1,163364871	1,36319728	1,159971849	1,816292578
<i>Tusc2</i>	1,864392211	1,161458947	1,353178393	1,472056545	1,983788467

<i>Il20rb</i>	1,971637332	1,516887158	1,530303959	1,296344602	1,770418026
<i>Ppp1r3e</i>	2,106196843	1,38891042	1,378154902	1,30119905	1,911623874
<i>G630025P09Rik</i>	1,293782024	1,171065194	1,515780388	1,440291322	1,64926177
<i>Fam69b</i>	1,431456259	1,086767647	1,444495573	1,476533228	1,652828011
<i>Lbr</i>	1,404026316	1,105610188	1,526071554	1,545726032	1,708486728
<i>D17H6S56E-3</i>	1,471206833	1,161928002	1,555148011	1,551156944	1,774264741
<i>Hint1</i>	1,377531398	1,215754598	1,530170299	1,527332969	1,961111163
<i>Nradd</i>	1,352020261	1,188023295	1,441743069	1,477397072	1,935382565
<i>Gna11</i>	1,305933412	1,028664884	1,504769173	1,573250653	1,893091032
<i>Rrm2</i>	1,536790292	1,212786943	1,632663079	1,377927536	1,851831047
<i>Gna15</i>	1,581677404	1,287005869	1,533117999	1,31759997	1,950598177
<i>Fbxo5</i>	1,649015792	1,168994905	1,534682334	1,206900896	1,887982263
<i>Tmem240</i>	1,343305502	1,145913968	1,557875135	1,161187267	1,961807792
<i>LOC319574</i>	1,475889208	1,073667552	1,617405755	1,142943375	2,038537884
<i>Baiap3</i>	1,411644472	0,940640492	1,287144076	1,207525064	1,825867409
<i>Pcolce</i>	1,474815336	1,077435527	1,336717784	1,288085937	1,91115202
<i>Cfd</i>	1,421866601	0,859582733	1,393115095	1,455576879	1,834565491
<i>Ndufaf3</i>	1,583004465	0,775710807	1,383354164	1,152972078	1,809839447
<i>Bax</i>	1,661734183	1,153544838	1,517104058	1,019613303	1,601329696
<i>Gylt1b</i>	1,570532828	1,256601487	1,56342662	0,972352655	1,645707427
<i>Itgad</i>	1,554343723	1,143240439	1,42389551	1,141203947	1,611349837
<i>Gm572</i>	1,649326766	1,245383928	1,684372451	1,067449429	1,497981766
<i>Pold1</i>	1,723309757	1,178114786	1,605792608	1,064958912	1,525133459
<i>1110002N22Rik</i>	1,651846253	1,165524933	1,597578634	1,185658859	1,608324744
<i>Prdx5</i>	1,389621553	1,070144276	1,764839969	1,076557057	1,591340787
<i>Tcirg1</i>	1,490210947	1,080499692	1,747488449	1,093293745	1,818611354
<i>Lrrc23</i>	1,433219685	1,261472769	1,893509803	1,10311688	1,733254328
<i>Pgap3</i>	1,502984909	1,165597427	1,782649449	0,858851598	1,745228849
<i>Plcb2</i>	1,195653485	1,195654724	1,19509631	1,326175458	1,440493049
<i>C030037D09Rik</i>	1,260047074	1,238134613	1,079964792	1,335060544	1,471816312
<i>Ano8</i>	1,268791866	1,200713338	1,293004504	1,30424953	1,491621403
<i>Pik3r2</i>	1,260231931	1,149530862	1,291378635	1,34102332	1,558022263
<i>Cxxc1</i>	1,319729666	1,153766193	1,288323299	1,226215687	1,554641237
<i>Slc16a3</i>	1,240334987	1,239868502	1,164844466	1,513087373	1,658954287
<i>Xkr8</i>	1,229702735	1,307734583	1,201237174	1,458813322	1,570245523
<i>Syngn2</i>	1,38363826	1,185047688	1,133354385	1,351077202	1,78434867
<i>Spag4</i>	1,34313859	1,013719565	1,127713429	1,325548079	1,785867138
<i>Kpna2</i>	1,121135501	1,071671897	1,184499779	1,368662902	1,679118558
<i>Kif22</i>	1,193015198	0,961849709	1,12453349	1,339525065	1,716622686
<i>Fgf22</i>	1,527217305	1,105749799	0,893583327	1,185608436	1,784695517
<i>Chst14</i>	1,562074609	1,076623562	0,851274472	1,418454379	1,742123669
<i>Nprl2</i>	1,251176484	1,003905923	0,842101626	1,256931551	1,907208946
<i>Commd5</i>	1,542643748	1,528559618	0,797712409	1,478978602	1,568494355
<i>Dnase1l2</i>	1,252534434	1,511287111	0,827637478	1,279827269	1,661077614
<i>A830009L08Rik</i>	0,95743242	1,152670025	1,242644039	0,997266688	1,34597343
<i>Tcf3</i>	0,933484541	1,131247811	1,268509728	1,002799588	1,359736137
<i>Ldlrad1</i>	1,013717864	1,042666739	1,228010317	1,032060725	1,403042903
<i>Gm6644</i>	0,985125149	1,148364892	1,253712887	1,110759129	1,404754495
<i>Akr1b3</i>	0,979085555	1,143843242	1,250570485	1,113687454	1,402363309
<i>Taf4a</i>	0,938567235	1,106522778	1,249482457	1,127222741	1,417394914
<i>Tnrc18</i>	0,874768729	1,168185543	1,292207841	1,052920027	1,441309718

<i>Myl7</i>	0,880240957	1,148820531	1,268790793	1,050912423	1,409883835
<i>Zfp652</i>	0,96753153	1,125670907	1,16622842	1,154582727	1,515752795
<i>Fhod1</i>	0,890357581	1,118962442	1,167883995	1,126295259	1,478218931
<i>Slc25a29</i>	0,970444861	1,112315369	1,157352675	1,054708324	1,457649614
<i>Sytl3</i>	1,180582222	1,165850585	1,317294136	1,050964867	1,408861287
<i>Grrp1</i>	1,14560204	1,133121775	1,267934545	1,068802928	1,428924273
<i>Fkbp10</i>	1,199990431	1,054580867	1,312733809	1,08898965	1,426338518
<i>Airn</i>	1,064897622	1,149483099	1,375945254	1,171004419	1,386337154
<i>Clic4</i>	1,119995919	1,181369183	1,345489265	1,116854024	1,377695369
<i>Ano10</i>	1,115943379	1,185678543	1,317742286	1,161354532	1,469384102
<i>Ehbp1l1</i>	1,149535519	1,032158154	1,276067766	1,083944732	1,360719617
<i>Pmf1</i>	1,139292126	1,020594656	1,23354621	1,137152209	1,323613748
<i>Ghdc</i>	1,10055354	1,061598955	1,316070602	1,182974203	1,347380426
<i>Dym</i>	1,115943135	1,115672132	1,199356967	1,154899435	1,337897793
<i>Sh3pxd2a</i>	1,148945994	1,173062476	1,244597393	1,129608166	1,305802358
<i>Lamb2</i>	1,096631774	1,125635141	1,268902194	1,10299115	1,320026606
<i>Bcl7a</i>	1,117274289	1,125188227	1,260152044	1,062909634	1,300547338
<i>Uggt1</i>	1,0787931	1,101064822	1,222692874	1,109057258	1,295509979
<i>Snx33</i>	1,05528203	1,359589452	1,330751804	1,182508164	1,358246693
<i>Rrp7a</i>	1,028443463	1,347331163	1,370363099	1,220185344	1,375918696
<i>Ap4m1</i>	0,994755273	1,356227479	1,334280959	1,10820529	1,456982587
<i>Acaa2</i>	0,964499067	1,242315885	1,360833771	1,084392301	1,523093122
<i>Rnf38</i>	0,919125121	1,196728012	1,378432285	1,150658223	1,456637112
<i>Ung</i>	1,026792043	1,217652768	1,318617243	1,021711474	1,353063405
<i>Pitpna</i>	1,12043358	1,250866787	1,33711816	1,064981808	1,350053371
<i>Arntl</i>	1,157380944	1,280572417	1,357461665	0,972131409	1,317929705
<i>Man2a2</i>	1,121371694	1,328859765	1,276584952	0,944922657	1,343775216
<i>Emilin1</i>	1,138520147	1,234256441	1,285605849	1,052419673	1,490258194
<i>BC004004</i>	1,238227195	1,220999579	1,27389079	1,054137104	1,432212385
<i>Atmin</i>	0,929999099	1,208100757	1,407156872	1,039097071	1,315320416
<i>Stoml1</i>	0,939115701	1,310656476	1,311719243	0,943307782	1,407181193
<i>Nfkb2</i>	1,038652327	1,303772653	1,27140789	0,940085037	1,314169689
<i>1110049F12Rik</i>	1,014227562	1,276899916	1,234919834	0,900084699	1,261980005
<i>Tspan1</i>	1,035747731	1,415012245	1,260264884	0,957663443	1,236506828
<i>Ggt5</i>	0,990572439	1,317288608	1,298847556	1,053050927	1,242199974
<i>P4htm</i>	1,024616924	1,289974412	1,302801469	1,03930382	1,268741732
<i>E330017L17Rik</i>	1,098284659	1,229895119	1,241213645	0,921739571	1,448034631
<i>Dazap2</i>	1,035663844	1,23478368	1,196507288	0,916642444	1,527707078
<i>Cdv3</i>	0,96391245	1,174437968	1,304367265	0,816862469	1,479393656
<i>Dyrk1b</i>	1,015586903	1,39335264	1,208422788	0,805507835	1,337324022
<i>1700096J18Rik</i>	1,140906237	1,180012533	1,161631611	0,993932287	1,508949134
<i>Gm88</i>	1,128513934	1,112003358	1,13138409	0,995447051	1,480929913
<i>Anapc11</i>	1,09966919	1,09956046	1,115767926	1,056676975	1,528198797
<i>Sorl1</i>	1,091990784	1,09693607	1,266144185	1,031537342	1,519843562
<i>Bcl7c</i>	1,232945391	1,127478613	1,122717745	0,918656049	1,531665063
<i>Ddn</i>	1,334070006	1,082698252	1,363730881	0,974410236	1,64858711
<i>Dbp</i>	1,303451451	1,233776092	1,377492091	0,891086493	1,642566513
<i>Ccdc88b</i>	1,287817594	1,26679733	1,351106312	1,175421215	1,707589324
<i>Ltc4s</i>	1,251030485	1,33313701	1,291189182	1,122474088	1,70591126
<i>Zfp319</i>	1,243757343	1,42565523	1,171050277	1,113324766	1,742568318
<i>4930427A07Rik</i>	1,514748917	1,228987727	1,11921685	0,695772288	1,361627571

<i>9330133O14Rik</i>	1,487042536	1,165031548	1,255966477	0,754737226	1,329091987
<i>Gadd45b</i>	1,53476235	1,34537808	0,992135847	0,807430606	1,589566698
<i>Rell2</i>	1,265602197	1,360282494	1,055572948	0,728092701	1,346433116
<i>Casp6</i>	1,280177261	1,304904309	1,115366852	0,880734683	1,325597652
<i>Sftpc</i>	1,144986512	1,191555042	1,105563331	0,880476052	1,37856948
<i>1810021B22Rik</i>	1,154107088	1,236366918	1,093714435	0,889312848	1,342653855
<i>Prrt3</i>	1,357437441	1,378798912	1,027578176	0,972035236	1,186349671
<i>Zfp358</i>	1,359833904	1,40913545	1,161168436	0,878002364	1,142968549
<i>1600029D21Rik</i>	1,312228888	1,308064942	1,160809779	1,300306652	1,090380811
<i>Prickle1</i>	1,243583306	1,327065971	1,181370546	1,288068501	1,117485736
<i>LOC622124</i>	1,257490856	1,358912704	1,114375	1,354753671	1,079626268
<i>Padi1</i>	1,152088667	1,267356128	1,125217822	1,383716656	1,152952259
<i>Phldb1</i>	1,270498308	1,348097167	1,140081213	1,446889043	1,278352916
<i>Tram2</i>	1,257847444	1,400490376	1,345855156	1,299186997	1,242254053
<i>Zfp365</i>	1,268331909	1,446642667	1,284633668	1,337307924	1,186788222
<i>Etv6</i>	1,135619402	1,448484455	1,24334412	1,324973923	1,281445727
<i>Nudt4</i>	1,278615164	1,580459159	1,342965665	1,326532852	1,205656721
<i>2900005J15Rik</i>	1,253231864	1,542417387	1,316032469	1,250991198	1,278306991
<i>Atp6v0a1</i>	1,271717586	1,381619962	1,275832881	1,245556361	1,339573494
<i>Nudcd3</i>	1,303664352	1,418321209	1,346855823	1,167215884	1,304934932
<i>Cd2bp2</i>	1,329846338	1,36640183	1,28936942	1,222495807	1,468339311
<i>Trabd</i>	1,143840283	1,293157716	1,122007055	1,164674513	1,379725433
<i>Wdr81</i>	1,17049743	1,315377197	1,16038208	1,197993764	1,411289914
<i>St3gal6</i>	1,099832152	1,384256358	1,167269499	1,179369382	1,34524755
<i>Prr14</i>	1,261307349	1,409568137	1,133230628	1,224241363	1,324988051
<i>Rab26</i>	1,42188036	1,444963687	1,092842451	1,163057871	1,478495738
<i>Zfyve21</i>	1,347620857	1,327893438	1,120577182	1,072966947	1,369409974
<i>Ubtd1</i>	1,112696311	1,405052335	1,40246545	1,092886055	1,159174927
<i>Slc35e3</i>	1,094684963	1,370049056	1,381265523	1,081622858	1,211504833
<i>Lamb3</i>	1,134438239	1,394047078	1,283595494	1,098621129	1,317698129
<i>Pdcd1</i>	1,224384541	1,366894477	1,479568301	1,262679209	1,217299323
<i>Mef2b</i>	1,286850638	1,335845711	1,486396947	1,24741949	1,307224918
<i>Wdr63</i>	1,307375434	1,311637179	1,45905086	1,115108393	1,246657653
<i>Ssbp2</i>	1,349878053	1,281137003	1,314287885	1,144732222	1,196657932
<i>Itpr2</i>	1,313938971	1,245261089	1,21024344	1,162511711	1,190979492
<i>Gm15545</i>	1,298746762	1,325931989	1,230740927	1,120963764	1,291308401
<i>Zfp771</i>	1,241421022	1,217697183	1,295523303	1,062559536	1,276196505
<i>Cnnm4</i>	1,248226385	1,229408732	1,294112458	1,020792294	1,288395797
<i>D18Ert653e</i>	1,290753474	1,240304945	1,357217831	1,11582914	1,349974464
<i>Zfp704</i>	1,253836217	1,243668795	1,284702665	1,124881276	1,086318009
<i>Pdp1</i>	1,254841924	1,297902809	1,3263784	1,13299972	1,070553701
<i>Ralgps2</i>	1,204326006	1,317769526	1,323673527	1,148181355	1,198499954
<i>Zpbp2</i>	1,188029847	1,313365157	1,325405251	1,314490733	1,178966357
<i>Nod2</i>	1,116748451	1,284943758	1,338848876	1,273651954	1,139991598
<i>Sav1</i>	1,123124242	1,142665454	1,352610636	1,185083861	1,151004042
<i>Al314976</i>	1,047791284	1,229581207	1,399949264	1,206523449	1,138071822
<i>Rab33b</i>	1,144623084	1,175016745	1,34469274	1,178212911	1,026056471
<i>Smad1</i>	1,132157211	1,288102347	1,394358325	1,27948514	1,331891861
<i>Mrpl2</i>	1,215002133	1,26946371	1,361878818	1,373161826	1,332551277
<i>4933433H22Rik</i>	1,218305631	1,259963875	1,455782186	1,248327893	1,378708936
<i>lah1</i>	1,173316522	1,204951269	1,437909032	1,242012391	1,414545631

<i>Cat</i>	1,307079724	1,254806146	1,370879106	1,321269746	1,338599296
<i>Lsr</i>	1,341372938	1,223266492	1,339307561	1,234024488	1,333000828
<i>Carkd</i>	1,261810973	1,19772	1,341250364	1,279656431	1,234274465
<i>Phf17</i>	1,134407887	1,315356221	1,286746702	1,208578194	1,307514586
<i>Gabpb2</i>	1,183511683	1,261948024	1,260023782	1,265152397	1,290910059
<i>Parvg</i>	1,131626298	1,211872943	1,311747736	1,202119834	1,29688718
<i>6720401G13Rik</i>	1,155956888	1,263869684	1,231635077	1,24655128	1,439823978
<i>Gdf3</i>	1,161369135	1,27933689	1,246230873	1,147597741	1,403302949
<i>Smagp</i>	1,273996555	1,151609806	1,237951339	1,195464216	1,31000003
<i>St6galnac5</i>	1,27035995	1,195181977	1,217274969	1,282044385	1,348204358
<i>Chrne</i>	1,192493117	1,113490664	1,246498487	1,285194433	1,343852153
<i>4930594C11Rik</i>	1,205839474	1,140943237	1,265466824	1,179368263	1,412078025
<i>Acta2</i>	1,203961355	1,165257742	1,276014525	1,253456941	1,437640397
<i>Apba3</i>	1,212236387	1,195552278	1,325608622	1,181841737	1,366935757
<i>Atp10a</i>	1,625181416	1,478024505	1,300964156	1,265244473	1,139911761
<i>4930415O20Rik</i>	1,667667647	1,423935513	1,318925464	1,376424216	1,163941071
<i>Agpat2</i>	1,601165795	1,27173761	1,405222796	1,219306132	1,100847932
<i>Mtmr11</i>	1,584366578	1,368558254	1,421594164	1,262082715	1,165356983
<i>6330406I15Rik</i>	1,584818289	1,348748763	1,468120754	1,314750912	1,293273534
<i>Klf10</i>	1,47120277	1,385839112	1,511367381	1,353546108	1,310767414
<i>Cstf1</i>	1,578077019	1,429840089	1,366475884	1,309434381	1,376683946
<i>Elfn2</i>	1,481676517	1,304191372	1,374838275	1,223970873	1,267116155
<i>Isoc1</i>	1,486479963	1,292555717	1,363829897	1,358551072	1,273969851
<i>Hexim1</i>	1,420872963	1,475745994	1,48479309	1,270993825	1,092338769
<i>Spcs1</i>	1,552575615	1,500039242	1,497190471	1,213047608	1,153405025
<i>C030034L19Rik</i>	1,475520178	1,465135633	1,449131017	1,022918607	1,156364926
<i>Xpc</i>	1,502449085	1,465364929	1,483215296	1,111982196	1,210606502
<i>Cd164l2</i>	1,352443298	1,355927129	1,40462199	1,250457535	1,038296932
<i>Cln6</i>	1,48712374	1,385912107	1,399620574	1,256887689	1,057393774
<i>Bcl6</i>	1,439363471	1,467979849	1,294512968	1,110601194	0,957990067
<i>Rnf169</i>	1,48729752	1,278370048	1,251715836	1,116793599	1,112420676
<i>Usp2</i>	1,452407162	1,203971983	1,202811969	1,12410854	1,202706577
<i>Kcnab3</i>	1,473121624	1,32563316	1,173586047	1,001011503	1,159995022
<i>Srp68</i>	1,575552069	1,272592053	1,28474521	1,120659449	1,343195871
<i>Rpf2</i>	1,539991216	1,269787751	1,204056899	1,194920344	1,323688961
<i>Zfp39</i>	1,59123602	1,398822306	1,375664926	1,146216618	1,243046033
<i>Gm20139</i>	1,517207232	1,431904749	1,237502809	1,186079872	1,207193263
<i>Dclre1b</i>	1,620419679	1,528138631	1,211756807	1,172360332	1,343157926
<i>Tpra1</i>	1,508151183	1,276426578	1,387283601	0,9751678	1,223022503
<i>Nfkbie</i>	1,425762171	1,212224731	1,391179719	1,058354133	1,318500584
<i>Shmt2</i>	1,471799415	1,192732384	1,487536348	1,134169204	1,386052039
<i>Gpr56</i>	1,508512419	1,252227256	1,435833534	1,072252346	1,471574996
<i>Ankrd23</i>	1,428327461	1,137529545	1,197990565	1,00101166	1,290859424
<i>Sin3b</i>	1,409958775	1,109876743	1,220718057	1,071508533	1,395609352
<i>Mgat1</i>	1,393478535	1,232427227	1,243039754	1,120501053	1,364815033
<i>Helz</i>	1,434415735	1,248475291	1,24181952	1,082902869	1,284103069
<i>2810410L24Rik</i>	1,522261444	1,231257458	1,249975758	0,928164275	1,432369921
<i>Adamtsl2</i>	1,594966048	1,309566856	1,703577111	0,696273531	1,190314561
<i>Marcks</i>	1,356753321	1,117468021	1,65485622	0,775612848	1,047470205
<i>Hpd1</i>	1,322256763	1,318518741	1,755745998	1,111651468	1,313514783
<i>Mn1</i>	1,406177894	1,393679043	1,581527341	1,132314682	1,315393269

<i>Zdhhc12</i>	1,223317237	1,27536484	1,661923981	1,10550834	1,074520228
<i>4921531C22Rik</i>	1,220447161	1,550936133	1,460120627	0,997785585	1,147377462
<i>Gm15915</i>	1,227581035	1,703697996	1,474291081	0,823868145	1,032090735
<i>2300002M23Rik</i>	1,450638285	1,624511653	1,419026986	0,704441665	1,254125467
<i>Slc25a11</i>	1,016547599	1,461299438	1,531223188	0,760335348	1,266888703
<i>H1f0</i>	1,14150096	1,471531373	1,45189266	0,836747079	1,36551247

Supplementary Table 7. List of the genes depicted in Figure 5c. The genes are separated based on the pattern of changes in intragenic 5hmC and gene expression they show.

CD4 SP vs. DP (left panel)

SAME	OPPOSITE
Aqp11	3930402G23Rik
Mllt6	Lgals7
Ikzf4	LOC100859962
Gcnt7	A430107P09Rik
Cxcr4	2310001H17Rik
Tmprss4	Ly6c2
Id2	Ppp1r3e
2010001M09Rik	Gm1337
A430093F15Rik	Ggn
Galk1	Tbrg3
H2-Q1	E030018B13Rik
Osm	4931406H21Rik
Tgfbr2	
Cela1	
2210020M01Rik	
Cd274	
9330175E14Rik	
Skil	
Rgs3	
Lgals1	
Bcl2l1	
4930572J05Rik	
S1pr1	
Ptgir	
Rapgef3	
Dusp6	
Fabp4	
P2rx1	
Nron	
Ccr4	
Ccr7	
Ccr8	
Isg15	
A430035B10Rik	
Trp53i11	
Esrp2	
BC024582	
Rorc	
Ugcg	
Ng23	

CD8 SP vs. DP (right panel)

SAME	OPPOSITE
Aqp11	Lgals7
Mllt6	Ifitm3
Gm10640	Cd52
Ikzf4	Hoxa4
Gcnt7	Ly6c2
Kcnip2	Ppp1r3e
Tmprss4	6530439I21
Id2	Tmem88
Plekho1	Ggn
H2-Q5	Gng3
H2-Q4	Tbrg3
H2-Q1	Ltb
Osm	B230319C09Rik
Tgfbr2	Gm10390
Cela1	4930542H20Rik
2210020M01	E030018B13Rik
Cd274	1700125G22Rik
Rarg	4933427E11Rik
9330175E14Rik	
Vasp	
Fam113b	
Rgs3	
Nfkbiz	
Bcl2l1	
S1pr1	
Dtx1	
Rapgef3	
Serpinf1	
P2rx1	
Nron	
Gramd4	
Ccr7	
Ccr8	
Isg15	
Tpst2	
A430035B10Rik	
Bcl9l	
Gm5547	
Esrp2	
BC024582	

Gpr152
Mapk11
Adipoq
H2-T24
Cytip
Neur13
Mettl7b
Rab44
Gm13546
Klf2
Slurp1
Nr4a1
Mad1l1
I730030J21Rik
Gpr146
9430014N10Rik
Lingo4
Foxo1
Amigo2
Map3k6
2310015A10Rik
Fstl3
Il27ra
Fam102a
Chchd10
Rln3
A630055G03Rik
Dntt
Prodh
4732490B19Rik
Tubb2a
Tubb2b
Arrdc5
Ecm1
Bcl3
Cd8b1
Xrra1
Cc dc153
2010016I18Rik
Leprel4
Gm11541
A930003A15Rik
Spc24
Tuba4a
Ctsw
Ttc16

Rorc
Rhof
Ng23
Mapk11
Neur13
Klf2
Slurp1
Nr4a1
Mad1l1
I730030J21Rik
Gpr146
Siglec15
Tdgf1
Foxo1
Amigo2
Prps1l1
Fstl3
4931403G20Rik
Il27ra
Fam102a
Chchd10
Rln3
Prodh
4732490B19Rik
Tubb2a
Tubb2b
C1qtnf6
Arrdc5
Stra8
Bcl3
Xrra1
Aif1
Cc dc153
Serinc5
2010016I18Rik
Leprel4
Tnfrsf1b
A930003A15Rik
Gpr114
Tuba4a
AW112010
Ctsw
BB031773
0610005C13Rik
Cd1d2
B2m

BB031773
0610005C13Rik
Plekhf1
B2m
Fbxl12
Gm12250
1700019L03Rik
Egr2
Egr3
Egr1
Slc6a19
Thy1
Endou
Tifab
Tmem52
Agtrap
Slc37a2
Zfp36l1
Syt13
2700046G09Rik
Lfng
Rcan3
B230118H07Rik
Phospho1
Tnfrsf4
Cd8a
Ptcra
Bst1
C2cd4d
Tmem121
4930417O13Rik
Il6ra
Gm11648
1700064M15Rik
1600002D24Rik
Fam166b
Galnt6
Gfi1
Arsi
B4galnt1
Anxa2
Pafah1b3
Gm10345
Enc1
Bach2
Enpp7

Fbxl12
Gm12250
1700019L03Rik
Cotl1
Ncf1
Egr2
Egr3
Egr1
Slc6a19
Cldnd2
Rps6ka1
Endou
Tmem52
Agtrap
Slc37a2
Zfp36l1
Syt13
Lfng
Fam26f
Clcf1
B230118H07Rik
Stat1
Tnfrsf9
Slc26a10
Cd82
Ptcra
C2cd4d
Tmem121
4930417O13Rik
Il6ra
Ccnd2
Gm11648
1600002D24Rik
Clec2d
Galnt6
Cyth4
Gfi1
Arsi
Stk10
Capn11
B4galnt1
Anxa2
Sema4a
Cd79a
Ptms
Gm10345

Qprt
1810019D21Rik
Zfp281
Spsb2
Spsb1
Cdca7
Plk3
St3gal2
Tdrd5
Ccdc42b
Gpr65
D830046C22Rik
Cldn4
G630016D24Rik
Gtdc2
Gm5083
Cd69
8430423G03Rik
Gtf2h4
St6gal1
Fam46c
Tnfrsf25
5730422E09Rik
Tube1
Itgb3
Stk17b
Nab2
Smad7
Kbtbd11
Gm525
Gpr183
Apol9b
Cnn2
Rtp4
Gm15708
Grb7
Colq
B3gnt8
Gpr18
Tle6
4933422H20Rik
Plxnd1
Fam43a
Prss57
Tnfaip8l2
1700030A11Rik

Enc1
Enpp7
Qprt
Ets2
Itgb7
1810019D21Rik
Spsb1
Cdca7
Atp1b3
Fam65b
Ccdc42b
Gpr65
Ldhd
Cldn4
G630016D24Rik
S100a2
Gtdc2
Cd69
Gtf2h4
Orai1
Cx3cr1
BC057022
Fam46c
Tnfrsf25
Hcst
Gphb5
5730422E09Rik
Tube1
Itgb3
Stk17b
Nab2
Smad7
Kbtbd11
Gm525
Apol9b
Cnn2
Rasa3
Rtp4
D930028M14Rik
Colq
B3gnt8
Gpr18
Tle6
Plxnd1
Ccdc102a
Prss57

Shisa5
Paqr6
Il17rb
Insl5
Jdp2
Itm2a
Rag2
Rag1
Hist1h2bp
Tmem151b
Ptpn14
Xylt2
Pglyrp2
Bcl2
Ilvbl
Gimap8
Gimap4
Gimap6
Gimap3
Cd5
Cd7
Gm16617
Tctex1d1
Capn3
Zdhhc8
Ptrh1
Xrcc6
BC021614
Pik3cd
4932438H23Rik
F2
Slfn1
2310007L24Rik
Asb2
Irf1
Irf9
Vim
5430425J12Rik
Fyn
Ldlrad3
Sema7a
4930568K20Rik
Gpr162
Art1
Zbtb7b
Samhd1

Tnfaip8l2
1700030A11Rik
Shisa5
Flt3l
Paqr6
Tmem20
Grifin
Rag2
Rag1
Hist1h2bp
Tmem151b
Bcl2
Ilvbl
Gimap8
Gimap4
Gimap3
Atn1
Cd4
Cd5
Cd7
6430527G18Rik
Tctex1d1
Capn3
Tesc
Ptrh1
Xrcc6
BC021614
Pik3cd
Arid5a
4932438H23Rik
Gm11346
Slfn1
2310007L24Rik
Scml4
Runx3
Irf1
Irf7
Irf9
Vim
Sp100
Sema7a
4930568K20Rik
Gpr162
Glipr2
Lgals3bp
Art1

Supplementary Table 8. List of all the enriched/ depleted GO categories and immune-related GO categories among clusters depicted in Figure 5a. The log10 adjusted p-values are listed.

All the enriched GO categories

	Cluster 1		Cluster 2		Cluster 4		Cluster 6	
	log10 adj. p- value	Enriched (1), depleted (-1)	log10 adj. p- value	Enriched (1), depleted (-1)	log10 adj. p- value	Enriched (1), depleted (-1)	log10 adj. p- value	Enriched (1), depleted (-1)
T cell differentiation in the thymus	-4,3279	1	-2,3982	1	0	0	0	0
T cell differentiation	-3,6328	1	-7,6655	1	0	0	0	0
T cell activation	-3,4307	1	-14,227	1	0	0	-1,4049	1
hemopoietic or lymphoid organ development	-3,4307	1	-9,5935	1	0	0	-1,7238	1
lymphocyte differentiation	-3,3074	1	-10,231	1	0	0	-1,6415	1
immune system development	-3,3034	1	-10,611	1	0	0	-1,7945	1
positive regulation of leukocyte mediated immunity	-2,5732	1	0	0	0	0	0	0
positive regulation of lymphocyte mediated immunity	-2,5732	1	0	0	0	0	0	0
hemopoiesis	-2,477	1	-10,057	1	0	0	-1,8885	1
positive regulation of leukocyte mediated cytotoxicity	-2,4468	1	0	0	0	0	-1,7334	1
lymphocyte activation	-2,4265	1	-16,365	1	0	0	-2,1007	1
regulation of interleukin-2 biosynthetic process	-2,4265	1	-2,1499	1	0	0	0	0
positive regulation of cell killing	-2,4265	1	0	0	0	0	-1,5482	1
leukocyte differentiation	-2,3826	1	-11,08	1	0	0	-1,4147	1
thymic T cell selection	-2,3451	1	-2,708	1	0	0	0	0
interleukin-2 biosynthetic process	-2,3451	1	-1,9031	1	0	0	0	0
anchored to membrane	-2,1821	1	0	0	0	0	-1,4049	-1
cell activation	-2,1269	1	-16,126	1	0	0	-2,2908	1
T cell selection	-2,1269	1	-3,8745	1	0	0	0	0
regulation of cytokine biosynthetic process	-2,1269	1	-2,3915	1	0	0	0	0
regulation of interleukin-2 production	-2,1269	1	-2,2057	1	0	0	0	0
positive regulation of cytokine biosynthetic process	-2,1269	1	-2,0535	1	0	0	0	0
regulation of leukocyte mediated cytotoxicity	-2,1269	1	0	0	0	0	-1,8039	1
regulation of cell killing	-2,1269	1	0	0	0	0	-1,648	1
regulation of NK T cell activation	-2,1269	1	0	0	0	0	0	0
positive regulation of NK T cell activation	-2,1269	1	0	0	0	0	0	0
NK T cell activation	-2,1269	1	0	0	0	0	0	0
positive regulation of immune effector process	-2,1269	1	0	0	0	0	0	0

leukocyte activation	-2,0971	1	-16,222	1	0	0	-2,3256	1
positive regulation of interleukin-2 biosynthetic process	-2,0971	1	-3,0661	1	0	0	0	0
V(D)J recombination	-2,0971	1	0	0	0	0	0	0
positive regulation of apoptosis	-1,9638	1	-6,8794	1	0	0	-1,7944	1
cell proliferation	-1,9397	1	-7,0035	1	0	0	0	0
positive regulation of programmed cell death	-1,9397	1	-6,7696	1	0	0	-1,8726	1
interleukin-2 production	-1,9397	1	-1,8398	1	0	0	0	0
regulation of cell proliferation	-1,9256	1	-7,4949	1	0	0	0	0
cytokine production	-1,9256	1	-3,9288	1	0	0	0	0
positive regulation of cell death	-1,9209	1	-6,5346	1	0	0	-1,7463	1
regulation of lymphocyte mediated immunity	-1,9209	1	-1,5508	1	0	0	-2,5053	1
lymphocyte apoptosis	-1,9209	1	0	0	0	0	-1,8296	1
negative regulation of cell proliferation	-1,9082	1	-2,6517	1	0	0	0	0
cytokine biosynthetic process	-1,8893	1	-2,7838	1	0	0	0	0
cytokine metabolic process	-1,8893	1	-2,7348	1	0	0	0	0
lymphocyte mediated immunity	-1,8893	1	-2,1593	1	0	0	-1,6897	1
leukocyte mediated cytotoxicity	-1,8893	1	-1,5397	1	0	0	-1,352	1
interleukin-4 biosynthetic process	-1,8893	1	0	0	0	0	0	0
negative regulation of thymocyte apoptosis	-1,8893	1	0	0	0	0	0	0
positive regulation of interleukin-4 biosynthetic process	-1,8893	1	0	0	0	0	0	0
pre-B cell allelic exclusion	-1,8893	1	0	0	0	0	0	0
regulation of interleukin-4 biosynthetic process	-1,8893	1	0	0	0	0	0	0
transformed cell apoptosis	-1,8893	1	0	0	0	0	0	0
negative regulation of nerve growth factor receptor signaling pathway	-1,8893	1	0	0	0	0	0	0
immune system process	-1,7996	1	-17,807	1	0	0	-2,1484	1
regulation of leukocyte mediated immunity	-1,7704	1	-1,3089	1	0	0	-1,9967	1
positive regulation of natural killer cell mediated cytotoxicity	-1,7175	1	0	0	0	0	0	0
positive regulation of natural killer cell mediated immunity	-1,7175	1	0	0	0	0	0	0
T cell apoptosis	-1,7175	1	0	0	0	0	0	0
regulation of nerve growth factor receptor signaling pathway	-1,647	1	0	0	0	0	0	0
regulation of lymphocyte differentiation	-1,6012	1	-2,5111	1	0	0	0	0
regulation of lymphocyte activation	-1,5401	1	-7,3045	1	-1,3788	1	0	0
organ development	-1,5401	1	-6,7696	1	0	0	0	0

cell killing	-1,5401	1	-2,3915	1	0	0	-1,6896	1
regulation of interferon-gamma production	-1,5401	1	0	0	0	0	0	0
leukocyte mediated immunity	-1,5378	1	-2,4313	1	0	0	0	0
regulation of apoptosis	-1,5322	1	-6,4012	1	0	0	-1,3974	1
regulation of cytokine production	-1,513	1	-3,5351	1	0	0	0	0
regulation of programmed cell death	-1,5096	1	-6,4737	1	0	0	-1,3809	1
lipoprotein catabolic process	-1,5096	1	0	0	0	0	0	0
thymocyte apoptosis	-1,5096	1	0	0	0	0	0	0
positive regulation of interferon-gamma biosynthetic process	-1,5096	1	0	0	0	0	0	0
regulation of thymocyte apoptosis	-1,5096	1	0	0	0	0	0	0
pro-B cell differentiation	-1,5096	1	0	0	0	0	0	0
induction of apoptosis	-1,4741	1	-5,8539	1	0	0	-1,4049	1
interferon-gamma production	-1,4741	1	0	0	0	0	0	0
induction of programmed cell death	-1,464	1	-5,8041	1	0	0	-1,5613	1
B cell activation	-1,4624	1	-3,8594	1	0	0	0	0
nicotinamide nucleotide metabolic process	-1,4624	1	0	0	0	0	0	0
lymph node development	-1,4624	1	0	0	0	0	0	0
mitochondrial transport	-1,4624	1	0	0	0	0	0	0
regulation of cell death	-1,4607	1	-6,4634	1	0	0	-1,4834	1
pyridine nucleotide metabolic process	-1,434	1	0	0	0	0	0	0
calcium- and calmodulin-dependent protein kinase complex	-1,4208	1	0	0	0	0	0	0
tumor necrosis factor receptor superfamily binding	-1,4208	1	0	0	0	0	0	0
immature B cell differentiation	-1,4208	1	0	0	0	0	0	0
pre-B cell differentiation	-1,4208	1	0	0	0	0	0	0
negative regulation of T cell apoptosis	-1,4208	1	0	0	0	0	0	0
regulation of leukocyte activation	-1,4106	1	-6,342	1	0	0	0	0
T cell homeostasis	-1,3882	1	0	0	0	0	0	0
regulation of natural killer cell mediated immunity	-1,3882	1	0	0	0	0	0	0
regulation of natural killer cell mediated cytotoxicity	-1,3882	1	0	0	0	0	0	0
immune effector process	-1,3678	1	-2,4653	1	0	0	-1,6083	1
regulation of cell activation	-1,3414	1	-6,0022	1	0	0	0	0
molecular adaptor activity	-1,3414	1	-1,4312	1	0	0	0	0
system development	-1,3361	1	-7,8356	1	0	0	0	0
gamma-delta T cell differentiation	-1,3287	1	0	0	0	0	0	0
regulation of interferon-gamma biosynthetic process	-1,3287	1	0	0	0	0	0	0

positive regulation of myoblast differentiation	-1,3287	1	0	0	0	0	0	0
gamma-delta T cell activation	-1,3287	1	0	0	0	0	0	0
regulation of immune effector process	-1,3059	1	-1,7441	1	0	0	0	0
regulation of cellular metabolic process	0	0	-18,155	1	0	0	-18,301	1
cellular macromolecule metabolic process	0	0	-17,839	1	-10,73	1	-37,021	1
protein binding	0	0	-17,827	1	-1,5242	1	-21,428	1
regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process	0	0	-16,893	1	0	0	-13,928	1
regulation of nitrogen compound metabolic process	0	0	-16,893	1	0	0	-13,818	1
intracellular regulation of cellular biosynthetic process	0	0	-16,71	1	-29,676	1	-53,987	1
regulation of macromolecule metabolic process	0	0	-16,71	1	0	0	-14,588	1
regulation of macromolecule biosynthetic process	0	0	-16,365	1	0	0	-19,116	1
regulation of biosynthetic process	0	0	-16,365	1	0	0	-16,646	1
intracellular signaling pathway	0	0	-16,365	1	0	0	-14,117	1
regulation of metabolic process	0	0	-16,222	1	0	0	-5,5735	1
regulation of gene expression	0	0	-16,194	1	0	0	-18,921	1
regulation of primary metabolic process	0	0	-15,921	1	0	0	-18,118	1
regulation of transcription	0	0	-15,889	1	0	0	-17,772	1
macromolecule biosynthetic process	0	0	-14,936	1	-2,8636	1	-27,052	1
transcription	0	0	-14,66	1	0	0	-15	1
positive regulation of biological process	0	0	-14,599	1	0	0	-1,8125	1
cellular biosynthetic process	0	0	-14,521	1	-4,1238	1	-25,377	1
positive regulation of cellular process	0	0	-14,503	1	0	0	-1,8604	1
gene expression	0	0	-14,45	1	-3,8727	1	-30,955	1
intracellular part	0	0	-14,338	1	-29,644	1	-52,492	1
cellular macromolecule biosynthetic process	0	0	-14,312	1	-2,4631	1	-27,587	1
cellular metabolic process	0	0	-14,084	1	-15,382	1	-37,924	1
biosynthetic process	0	0	-13,91	1	-4,1586	1	-23,79	1
macromolecule metabolic process	0	0	-12,939	1	-10,208	1	-31,089	1
nucleic acid metabolic process	0	0	-12,654	1	-4,1238	1	-19,635	1
nucleus	0	0	-12,535	1	-9,8729	1	-27,738	1
organelle	0	0	-12,41	1	-23,604	1	-44,523	1
intracellular organelle	0	0	-12,108	1	-23,854	1	-44,288	1
nucleobase, nucleoside, nucleotide and nucleic acid metabolic process	0	0	-12,047	1	-5,0458	1	-21,09	1

primary metabolic process	0	0	-10,821	1	-12,644	1	-29,343	1
cellular nitrogen compound								
metabolic process	0	0	-10,564	1	-5,0711	1	-20,178	1
binding	0	0	-10,55	1	-7,0625	1	-25,384	1
intracellular signal transduction	0	0	-10,55	1	0	0	-2,8996	1
membrane-bounded organelle	0	0	-10,509	1	-26,57	1	-44,62	1
nitrogen compound metabolic								
process	0	0	-10,439	1	-5,0458	1	-19,413	1
transcription regulator activity	0	0	-10,431	1	0	0	-3,0312	1
regulation of RNA metabolic								
process	0	0	-10,318	1	0	0	-3,0569	1
intracellular membrane-								
bounded organelle	0	0	-10,123	1	-26,209	1	-44,545	1
RNA metabolic process	0	0	-9,9281	1	-2,2083	1	-7,2588	1
cytoplasm	0	0	-9,8182	1	-23,848	1	-32,666	1
regulation of transcription, DNA-								
dependent	0	0	-9,58	1	0	0	-2,6366	1
immunological synapse	0	0	-8,9586	1	0	0	0	0
transcription, DNA-dependent	0	0	-8,6615	1	0	0	-3,0334	1
regulation of immune system								
process	0	0	-8,5901	1	0	0	-2,0957	1
RNA biosynthetic process	0	0	-8,58	1	0	0	-2,9591	1
metabolic process	0	0	-8,382	1	-12,87	1	-30,381	1
positive regulation of cellular								
biosynthetic process	0	0	-7,9666	1	0	0	-2,5386	1
regulation of signaling pathway	0	0	-7,9666	1	0	0	-1,6362	1
regulation of transcription from								
RNA polymerase II promoter	0	0	-7,8013	1	0	0	-2,7726	1
regulation of multicellular								
organismal process	0	0	-7,7747	1	0	0	0	0
regulation of T cell activation	0	0	-7,7399	1	0	0	0	0
positive regulation of nitrogen								
compound metabolic process	0	0	-7,7352	1	0	0	-2,3216	1
programmed cell death	0	0	-7,6655	1	0	0	-2,4763	1
positive regulation of								
biosynthetic process	0	0	-7,6655	1	0	0	-2,4763	1
regulation of cellular process	0	0	-7,6402	1	-3,8026	-1	0	0
apoptosis	0	0	-7,6364	1	0	0	-2,2908	1
positive regulation of								
nucleobase, nucleoside,								
nucleotide and nucleic acid								
metabolic process	0	0	-7,6216	1	0	0	-2,2741	1
negative regulation of biological								
process	0	0	-7,5058	1	0	0	-3,8066	1
cell death	0	0	-7,4949	1	0	0	-2,3232	1
negative regulation of cellular								
process	0	0	-7,4921	1	0	0	-3,7002	1
death	0	0	-7,382	1	0	0	-2,2542	1
regulation of developmental								
process	0	0	-7,3536	1	0	0	0	0
positive regulation of cellular								
metabolic process	0	0	-7,2765	1	0	0	-4,262	1

transcription from RNA polymerase II promoter	0	0	-7,118	1	0	0	-3,5981	1
cell part	0	0	-7,1051	1	-5,9957	1	-11,376	1
cell	0	0	-7,1007	1	-5,9957	1	-11,365	1
developmental process	0	0	-7,0357	1	0	0	0	0
regulation of biological process	0	0	-7,0128	1	-2,7202	-1	0	0
positive regulation of metabolic process	0	0	-6,9281	1	0	0	-4,0297	1
positive regulation of macromolecule metabolic process	0	0	-6,9136	1	0	0	-4,6819	1
transcription factor activity	0	0	-6,9136	1	0	0	0	0
phosphate metabolic process	0	0	-6,8477	1	0	0	-4,7905	1
phosphorus metabolic process	0	0	-6,8097	1	0	0	-4,7423	1
biological regulation	0	0	-6,8013	1	-2,2346	-1	0	0
positive regulation of macromolecule biosynthetic process	0	0	-6,7595	1	0	0	-2,7399	1
multicellular organismal development	0	0	-6,6055	1	0	0	0	0
anatomical structure development	0	0	-6,5935	1	0	0	0	0
positive regulation of T cell activation	0	0	-6,5607	1	-1,4457	1	0	0
positive regulation of transcription	0	0	-6,5157	1	0	0	-2,2253	1
negative regulation of cellular biosynthetic process	0	0	-6,5157	1	0	0	-2,1496	1
positive regulation of gene expression	0	0	-6,4634	1	0	0	-2,4755	1
negative regulation of transcription	0	0	-6,4425	1	0	0	-2,0453	1
positive regulation of immune system process	0	0	-6,4012	1	0	0	-1,9232	1
negative regulation of nitrogen compound metabolic process	0	0	-6,3224	1	0	0	-2,298	1
negative regulation of biosynthetic process	0	0	-6,3179	1	0	0	-2,0013	1
negative regulation of cellular metabolic process	0	0	-6,3134	1	0	0	-3,1826	1
cellular developmental process	0	0	-6,3072	1	0	0	-1,3027	-1
cell differentiation	0	0	-6,2457	1	0	0	0	0
negative regulation of macromolecule biosynthetic process	0	0	-6,2248	1	0	0	-1,8431	1
negative regulation of gene expression	0	0	-6,1624	1	0	0	-3,1182	1
positive regulation of lymphocyte activation	0	0	-5,9586	1	-1,3036	1	0	0
small GTPase mediated signal transduction	0	0	-5,9208	1	0	0	-2,8501	1

negative regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process	0	0	-5,8539	1	0	0	-2,1638	1
cellular process	0	0	-5,821	1	0	0	-9,0894	1
actin cytoskeleton organization	0	0	-5,7959	1	0	0	0	0
negative regulation of metabolic process	0	0	-5,7077	1	0	0	-3,7154	1
actin filament-based process	0	0	-5,7077	1	0	0	0	0
regulation of cellular component movement	0	0	-5,6308	1	0	0	0	0
negative regulation of macromolecule metabolic process	0	0	-5,6234	1	0	0	-3,8564	1
positive regulation of leukocyte activation	0	0	-5,5171	1	-1,3433	1	0	0
positive regulation of cell proliferation	0	0	-5,4572	1	0	0	0	0
cellular protein metabolic process	0	0	-5,3862	1	-7,382	1	-18,866	1
regulation of locomotion	0	0	-5,3862	1	0	0	0	0
regulation of cell migration	0	0	-5,3851	1	0	0	0	0
regulation of signal transduction	0	0	-5,2916	1	0	0	-2,2483	1
transcription repressor activity	0	0	-5,2807	1	0	0	-2,1129	1
positive regulation of cell activation	0	0	-5,1694	1	-1,4169	1	0	0
regulation of signaling process	0	0	-5,1013	1	0	0	-2,0957	1
intracellular protein kinase cascade	0	0	-5,0926	1	0	0	-1,8125	1
signal transmission via phosphorylation event	0	0	-5,0926	1	0	0	-1,8125	1
protein modification process	0	0	-4,9066	1	-2,029	1	-8,2644	1
phosphorylation	0	0	-4,7825	1	0	0	-4,2104	1
T cell proliferation	0	0	-4,7545	1	0	0	0	0
actin filament organization	0	0	-4,7144	1	0	0	0	0
chromatin binding	0	0	-4,699	1	0	0	-2,3803	1
negative regulation of transcription, DNA-dependent	0	0	-4,6861	1	0	0	-1,4177	1
alpha-beta T cell activation	0	0	-4,6234	1	0	0	0	0
cytoskeleton organization	0	0	-4,5935	1	0	0	0	0
negative regulation of RNA metabolic process	0	0	-4,5918	1	0	0	-1,6601	1
post-translational protein modification	0	0	-4,5467	1	0	0	-7,2958	1
Ras protein signal transduction	0	0	-4,5114	1	0	0	0	0
regulation of cell differentiation	0	0	-4,4949	1	0	0	0	0
cell surface regulation of cell	0	0	-4,4547	1	0	0	0	0
communication	0	0	-4,3925	1	0	0	0	0
DNA binding	0	0	-4,3716	1	0	0	-6,699	1

negative regulation of transcription from RNA polymerase II promoter	0	0	-4,3152	1	0	0	0	0
positive regulation of developmental process	0	0	-4,3054	1	0	0	0	0
macromolecule modification	0	0	-4,279	1	-2,2321	1	-8,699	1
positive regulation of transcription from RNA polymerase II promoter	0	0	-4,2069	1	0	0	-1,7853	1
cytosol	0	0	-4,1904	1	0	0	-5,0039	1
mononuclear cell proliferation	0	0	-4,1506	1	0	0	-1,334	1
lymphocyte proliferation	0	0	-4,1506	1	0	0	-1,334	1
cytokine binding	0	0	-4,1226	1	0	0	0	0
alpha-beta T cell differentiation	0	0	-4,0799	1	0	0	0	0
positive regulation of transcription, DNA-dependent	0	0	-4,0259	1	0	0	-2,0798	1
leukocyte proliferation	0	0	-3,994	1	0	0	0	0
positive regulation of RNA metabolic process	0	0	-3,9518	1	0	0	-2,3216	1
protein amino acid phosphorylation	0	0	-3,9304	1	0	0	-2,739	1
regulation of response to stimulus	0	0	-3,9044	1	0	0	0	0
GTPase activity	0	0	-3,8477	1	0	0	0	0
external side of plasma membrane	0	0	-3,8298	1	0	0	0	0
T cell receptor complex	0	0	-3,7161	1	0	0	0	0
regulation of small GTPase mediated signal transduction	0	0	-3,714	1	0	0	0	0
MAP kinase tyrosine/serine/threonine phosphatase activity	0	0	-3,6884	1	0	0	0	0
regulation of T cell receptor signaling pathway	0	0	-3,6884	1	0	0	0	0
MAP kinase phosphatase activity	0	0	-3,6884	1	0	0	0	0
peptidyl-tyrosine phosphorylation	0	0	-3,6715	1	0	0	0	0
peptidyl-tyrosine modification	0	0	-3,6715	1	0	0	0	0
B cell differentiation	0	0	-3,6677	1	0	0	-1,4633	1
regulation of immune response	0	0	-3,6443	1	0	0	-2,4763	1
cytoskeletal protein binding	0	0	-3,6079	1	0	0	0	0
regulation of phosphorylation	0	0	-3,5954	1	0	0	0	0
T cell receptor signaling pathway	0	0	-3,5757	1	0	0	0	0
nucleic acid binding	0	0	-3,5692	1	-4,0168	1	-17,11	1
regulation of phosphate metabolic process	0	0	-3,528	1	0	0	0	0
regulation of phosphorus metabolic process	0	0	-3,528	1	0	0	0	0
regulation of myeloid cell differentiation	0	0	-3,5142	1	0	0	0	0
response to stimulus	0	0	-3,5092	1	0	0	0	0

cell migration	0	0	-3,5067	1	0	0	0	0
cellular component movement	0	0	-3,5035	1	0	0	0	0
regulation of molecular function	0	0	-3,4769	1	0	0	-1,7853	1
endosome	0	0	-3,326	1	0	0	0	0
regulation of catalytic activity	0	0	-3,3106	1	0	0	0	0
protein kinase binding	0	0	-3,3063	1	0	0	-1,8122	1
kinase binding	0	0	-3,2659	1	0	0	-1,9176	1
immune response-activating signal transduction	0	0	-3,2524	1	0	0	-1,9539	1
sequence-specific DNA binding	0	0	-3,2454	1	0	0	0	0
negative regulation of cell communication	0	0	-3,2297	1	0	0	0	0
positive regulation of T cell proliferation	0	0	-3,2284	1	0	0	0	0
regulation of antigen receptor-mediated signaling pathway	0	0	-3,2186	1	0	0	0	0
alpha-beta T cell receptor complex	0	0	-3,1469	1	0	0	0	0
regulation of T cell proliferation	0	0	-3,142	1	0	0	0	0
antigen receptor-mediated signaling pathway	0	0	-3,1309	1	0	0	-2,7911	1
response to stress	0	0	-3,1265	1	0	0	0	0
negative regulation of signaling pathway	0	0	-3,115	1	0	0	0	0
positive regulation of cytoskeleton organization	0	0	-3,1086	1	0	0	0	0
nucleoplasm	0	0	-3,0826	1	0	0	-7,2277	1
cellular component organization	0	0	-3,0728	1	-1,6419	1	-2,0473	1
regulation of actin filament-based process	0	0	-3,0674	1	0	0	0	0
cellular component assembly	0	0	-3,0574	1	0	0	-1,6594	1
myeloid cell differentiation	0	0	-3,0476	1	0	0	-1,3057	1
GTPase regulator activity	0	0	-3,0273	1	0	0	0	0
nuclear lumen	0	0	-3,0213	1	0	0	-11,417	1
positive regulation of alpha-beta T cell activation	0	0	-3,0213	1	0	0	0	0
immune response-regulating signaling pathway	0	0	-3,0132	1	0	0	-2,3854	1
immune response	0	0	-3,0084	1	0	0	-2,1422	1
membrane raft	0	0	-2,9966	1	0	0	0	0
negative regulation of developmental process	0	0	-2,9966	1	0	0	0	0
transcription factor binding	0	0	-2,9873	1	0	0	-5,4202	1
regulation of epidermis development	0	0	-2,9801	1	0	0	0	0
RNA splicing	0	0	-2,9546	1	-1,7362	1	-3,1649	1
positive regulation of mononuclear cell proliferation	0	0	-2,9177	1	0	0	0	0
calcium-mediated signaling	0	0	-2,9177	1	0	0	0	0
regulation of alpha-beta T cell activation	0	0	-2,9177	1	0	0	0	0

positive regulation of organelle organization	0	0	-2,9177	1	0	0	0	0
positive regulation of lymphocyte proliferation	0	0	-2,9177	1	0	0	0	0
nucleoside-triphosphatase regulator activity	0	0	-2,8938	1	0	0	0	0
negative regulation of cellular component movement	0	0	-2,8863	1	0	0	0	0
negative regulation of locomotion	0	0	-2,8863	1	0	0	0	0
phosphoprotein phosphatase activity	0	0	-2,8626	1	0	0	-1,7767	1
positive regulation of cellular component movement	0	0	-2,8523	1	0	0	0	0
positive regulation of locomotion	0	0	-2,8523	1	0	0	0	0
transcription activator activity	0	0	-2,8491	1	0	0	-2,9654	1
protein amino acid dephosphorylation	0	0	-2,8491	1	0	0	0	0
actin binding	0	0	-2,8487	1	0	0	0	0
regulation of protein modification process	0	0	-2,7923	1	0	0	0	0
positive regulation of leukocyte proliferation	0	0	-2,788	1	0	0	0	0
enzyme regulator activity	0	0	-2,7833	1	0	0	0	0
response to wounding	0	0	-2,7833	1	0	0	0	0
cell communication	0	0	-2,779	1	0	0	0	0
regulation of mononuclear cell proliferation	0	0	-2,7758	1	0	0	0	0
regulation of lymphocyte proliferation	0	0	-2,7758	1	0	0	0	0
negative regulation of T cell receptor signaling pathway	0	0	-2,7728	1	0	0	0	0
negative regulation of antigen receptor-mediated signaling pathway	0	0	-2,7728	1	0	0	0	0
nucleoplasm part	0	0	-2,7348	1	0	0	-6,091	1
regulation of actin cytoskeleton organization	0	0	-2,7348	1	0	0	0	0
positive regulation of cell migration	0	0	-2,7292	1	0	0	0	0
dephosphorylation	0	0	-2,703	1	0	0	0	0
regulation of cellular protein metabolic process	0	0	-2,685	1	0	0	-3,921	1
MHC class I peptide loading complex	0	0	-2,685	1	0	0	0	0
regulation of leukocyte proliferation	0	0	-2,685	1	0	0	0	0
Rho protein signal transduction	0	0	-2,685	1	0	0	0	0
fully spanning the plasma membrane	0	0	-2,685	1	0	0	0	0
localization of cell	0	0	-2,6594	1	0	0	0	0
cell motility	0	0	-2,6594	1	0	0	0	0
protein dimerization activity	0	0	-2,64	1	0	0	0	0

cellular defense response	0	0	-2,6351	1	0	0	0	0
cellular component biogenesis	0	0	-2,6338	1	0	0	-2,4835	1
organelle organization	0	0	-2,6328	1	-2,4374	1	-5,8761	1
positive regulation of immune response	0	0	-2,6328	1	0	0	-2,4758	1
positive regulation of response to stimulus	0	0	-2,6328	1	0	0	-1,5541	1
enzyme binding	0	0	-2,6326	1	0	0	-2,6892	1
response to external stimulus	0	0	-2,6293	1	0	0	0	0
peptidyl-amino acid modification	0	0	-2,6051	1	0	0	-3,173	1
locomotion	0	0	-2,6013	1	0	0	0	0
non-membrane spanning protein tyrosine kinase activity	0	0	-2,5964	1	0	0	0	0
negative regulation of cell migration	0	0	-2,5964	1	0	0	0	0
cell cycle	0	0	-2,5871	1	-1,5242	1	-1,3947	1
PML body	0	0	-2,5784	1	0	0	0	0
regulation of Ras protein signal transduction	0	0	-2,5751	1	0	0	0	0
positive regulation of cell differentiation	0	0	-2,5612	1	0	0	0	0
immune response-activating cell surface receptor signaling pathway	0	0	-2,5341	1	0	0	-2,0443	1
regulation of T cell differentiation	0	0	-2,5341	1	0	0	0	0
negative regulation of myeloid cell differentiation	0	0	-2,5164	1	0	0	0	0
negative regulation of cell differentiation	0	0	-2,5096	1	0	0	0	0
intracellular organelle lumen	0	0	-2,5021	1	-2,4631	1	-12,167	1
positive regulation of epidermis development	0	0	-2,4859	1	0	0	0	0
protein domain specific binding	0	0	-2,4859	1	0	0	0	0
enzyme activator activity	0	0	-2,4554	1	0	0	0	0
organelle lumen	0	0	-2,4413	1	-2,3745	1	-11,947	1
negative regulation of signal transduction	0	0	-2,4181	1	0	0	0	0
phosphotransferase activity, alcohol group as acceptor	0	0	-2,4154	1	0	0	-2,5053	1
negative regulation of signaling process	0	0	-2,3724	1	0	0	0	0
kinase activity	0	0	-2,364	1	0	0	-3,1204	1
cell-matrix adhesion	0	0	-2,3488	1	0	0	0	0
nuclear part	0	0	-2,3334	1	-2,8778	1	-12,812	1
immune response-regulating cell surface receptor signaling pathway	0	0	-2,3334	1	0	0	-2,2149	1
signal initiation by diffusible mediator	0	0	-2,333	1	0	0	-1,648	1
initiation of signal transduction	0	0	-2,333	1	0	0	-1,648	1

cytokine-mediated signaling pathway	0	0	-2,333	1	0	0	-1,648	1
signal initiation by protein/peptide mediator receptor complex	0	0	-2,333	1	0	0	-1,648	1
positive regulation of alpha-beta T cell differentiation	0	0	-2,3266	1	0	0	0	0
regulation of actin filament bundle assembly	0	0	-2,3266	1	0	0	0	0
specific RNA polymerase II transcription factor activity	0	0	-2,3266	1	0	0	0	0
phosphatase activity	0	0	-2,308	1	0	0	-2,0764	1
myeloid leukocyte differentiation	0	0	-2,3055	1	0	0	0	0
positive regulation of T cell differentiation	0	0	-2,2867	1	0	0	0	0
regulation of transmembrane receptor protein serine/threonine kinase signaling pathway	0	0	-2,2834	1	0	0	0	0
regulation of localization	0	0	-2,231	1	0	0	0	0
regulation of cell cycle	0	0	-2,2293	1	0	0	-1,8125	1
positive regulation of molecular function	0	0	-2,2113	1	0	0	-1,6311	1
nucleotide binding	0	0	-2,2091	1	-2,6495	1	-5,6402	1
actin filament bundle assembly	0	0	-2,2057	1	0	0	0	0
membrane-enclosed lumen	0	0	-2,2047	1	-2,9601	1	-11,939	1
positive regulation of interleukin-4 production	0	0	-2,1949	1	0	0	0	0
non-membrane-bounded organelle	0	0	-2,187	1	0	0	-3,184	1
intracellular non-membrane-bounded organelle	0	0	-2,187	1	0	0	-3,184	1
regulation of defense response	0	0	-2,1685	1	0	0	0	0
actin cytoskeleton	0	0	-2,1495	1	0	0	0	0
regulation of transforming growth factor beta receptor signaling pathway	0	0	-2,1339	1	0	0	0	0
negative regulation of transmembrane receptor protein serine/threonine kinase signaling pathway	0	0	-2,1331	1	0	0	0	0
positive regulation of lymphocyte differentiation	0	0	-2,1331	1	0	0	0	0
response to chemical stimulus	0	0	-2,109	1	0	0	0	0
cellular macromolecular complex assembly	0	0	-2,0671	1	0	0	0	0
structure-specific DNA binding	0	0	-2,0528	1	0	0	-2,0007	1
guanyl-nucleotide exchange factor activity	0	0	-2,0528	1	0	0	0	0
regulation of immunoglobulin production	0	0	-2,0461	1	0	0	0	0
transcription cofactor activity	0	0	-2,0426	1	0	0	-2,3777	1

vasculature development	0	0	-2,0426	1	0	0	0	0
negative thymic T cell selection	0	0	-2,0402	1	0	0	0	0
regulation of kinase activity	0	0	-2,025	1	0	0	0	0
regulation of ossification	0	0	-2,011	1	0	0	0	0
plasma membrane	0	0	-2,0086	1	-1,5927	-1	-1,8726	-1
cellular macromolecule catabolic process	0	0	-2,001	1	0	0	-2,2529	1
regulation of alpha-beta T cell differentiation	0	0	-1,9973	1	0	0	0	0
regulation of protein amino acid phosphorylation	0	0	-1,9958	1	0	0	0	0
transmembrane receptor protein serine/threonine kinase signaling pathway	0	0	-1,9926	1	0	0	0	0
cellular protein complex assembly	0	0	-1,9926	1	0	0	0	0
regulation of binding	0	0	-1,991	1	0	0	-3,9909	1
blood vessel development	0	0	-1,9901	1	0	0	0	0
regulation of protein kinase activity	0	0	-1,9747	1	0	0	0	0
transforming growth factor beta receptor signaling pathway	0	0	-1,9732	1	0	0	0	0
protein polymerization	0	0	-1,9728	1	0	0	0	0
GTP binding	0	0	-1,9722	1	0	0	-2,1496	1
mRNA metabolic process	0	0	-1,9569	1	-3,501	1	-4,6459	1
cytoplasmic part	0	0	-1,9564	1	-11,656	1	-19,524	1
negative regulation of molecular function	0	0	-1,9468	1	0	0	0	0
macromolecular complex subunit organization	0	0	-1,9439	1	0	0	-2,5982	1
lamellipodium	0	0	-1,9439	1	0	0	0	0
positive regulation of catalytic activity	0	0	-1,9355	1	0	0	0	0
regulation of myeloid leukocyte differentiation	0	0	-1,9297	1	0	0	0	0
cell-substrate adhesion	0	0	-1,9251	1	0	0	0	0
protein metabolic process	0	0	-1,9247	1	-5,9957	1	-13,703	1
ADP binding	0	0	-1,9031	1	0	0	0	0
positive regulation of calcium-mediated signaling	0	0	-1,9031	1	0	0	0	0
positive regulation of protein polymerization	0	0	-1,9031	1	0	0	0	0
adaptive immune response	0	0	-1,8973	1	0	0	-1,3477	1
adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	0	0	-1,8973	1	0	0	-1,3477	1
actin polymerization or depolymerization	0	0	-1,8972	1	0	0	0	0

transcription corepressor activity	0	0	-1,8878	1	0	0	0	0
phosphoric ester hydrolase activity	0	0	-1,8833	1	0	0	-1,8387	1
antigen processing and presentation of endogenous peptide antigen via MHC class I CD8-positive, alpha-beta T cell differentiation	0	0	-1,8833	1	0	0	0	0
positive regulation of actin filament polymerization	0	0	-1,8833	1	0	0	0	0
positive regulation of stress fiber assembly	0	0	-1,8833	1	0	0	0	0
negative T cell selection	0	0	-1,8833	1	0	0	0	0
intracellular organelle part regulation of actin polymerization or depolymerization	0	0	-1,8804	1	0	0	0	0
regulation of smooth muscle cell proliferation	0	0	-1,8804	1	0	0	0	0
negative regulation of immune system process	0	0	-1,88	1	0	0	0	0
anatomical structure morphogenesis	0	0	-1,8667	1	0	0	0	0
zinc ion binding	0	0	-1,8663	1	0	0	-13,517	1
regulation of transferase activity	0	0	-1,8625	1	0	0	0	0
regulation of organelle organization	0	0	-1,8625	1	0	0	0	0
GTPase activator activity	0	0	-1,8596	1	0	0	0	0
macromolecule catabolic process	0	0	-1,8398	1	0	0	-2,2879	1
in utero embryonic development	0	0	-1,8398	1	0	0	0	0
natural killer cell activation	0	0	-1,8398	1	0	0	0	0
positive regulation of protein modification process	0	0	-1,8398	1	0	0	0	0
anterior/posterior axis specification	0	0	-1,8398	1	0	0	0	0
cell leading edge	0	0	-1,8398	1	0	0	0	0
regulation of actin filament length	0	0	-1,833	1	0	0	0	0
actin filament polymerization	0	0	-1,833	1	0	0	0	0
positive regulation of cellular protein metabolic process	0	0	-1,8186	1	0	0	-2,7984	1
organelle part	0	0	-1,8166	1	-2,9486	1	-16,085	1
regulation of caspase activity	0	0	-1,8135	1	0	0	0	0
cellular response to organic substance	0	0	-1,8128	1	0	0	0	0
negative regulation of transforming growth factor beta receptor signaling pathway	0	0	-1,8102	1	0	0	0	0

negative regulation of osteoblast differentiation	0	0	-1,8102	1	0	0	0	0
macromolecular complex assembly	0	0	-1,8048	1	0	0	-2,6585	1
protein complex binding	0	0	-1,8048	1	0	0	-2,3479	1
defense response	0	0	-1,8034	1	0	0	0	0
cell projection organization	0	0	-1,7931	1	0	0	0	0
smooth muscle cell proliferation	0	0	-1,7828	1	0	0	0	0
response to protein stimulus	0	0	-1,7764	1	0	0	0	0
tissue homeostasis	0	0	-1,7742	1	0	0	0	0
nucleoside-triphosphatase activity	0	0	-1,7742	1	0	0	0	0
Rho guanyl-nucleotide exchange factor activity	0	0	-1,771	1	0	0	0	0
SMAD binding	0	0	-1,7616	1	0	0	0	0
regulation of endopeptidase activity	0	0	-1,7508	1	0	0	0	0
cytoskeleton	0	0	-1,7489	1	0	0	0	0
regulation of cellular component biogenesis	0	0	-1,7489	1	0	0	0	0
positive regulation of actin filament bundle assembly	0	0	-1,7478	1	0	0	0	0
activation of immune response	0	0	-1,7441	1	0	0	0	0
positive regulation of protein metabolic process	0	0	-1,7417	1	0	0	-2,6521	1
purine ribonucleotide binding	0	0	-1,7393	1	0	0	-2,8602	1
response to cytokine stimulus	0	0	-1,7371	1	0	0	0	0
ribonucleotide binding	0	0	-1,7325	1	0	0	-2,8501	1
protein tyrosine/serine/threonine phosphatase activity	0	0	-1,7195	1	0	0	0	0
cellular macromolecular complex subunit organization	0	0	-1,7195	1	0	0	0	0
second-messenger-mediated signaling	0	0	-1,7195	1	0	0	0	0
positive regulation of smooth muscle cell proliferation	0	0	-1,7195	1	0	0	0	0
regulation of stress fiber assembly	0	0	-1,7184	1	0	0	0	0
regulation of calcium-mediated signaling	0	0	-1,7184	1	0	0	0	0
multicellular organismal homeostasis	0	0	-1,7181	1	0	0	0	0
guanyl nucleotide binding	0	0	-1,7145	1	0	0	-2,086	1
guanyl ribonucleotide binding	0	0	-1,7145	1	0	0	-2,086	1
mRNA processing	0	0	-1,7065	1	-2,924	1	-3,1204	1
protein serine/threonine phosphatase complex	0	0	-1,6961	1	0	0	-1,3052	1
regulation of protein polymerization	0	0	-1,6961	1	0	0	0	0
natural killer cell mediated immunity	0	0	-1,6961	1	0	0	0	0

natural killer cell mediated cytotoxicity	0	0	-1,6961	1	0	0	0	0
TAP2 binding	0	0	-1,6845	1	0	0	0	0
JUN kinase kinase kinase activity	0	0	-1,6845	1	0	0	0	0
positive regulation of transcription via sterol regulatory element binding	0	0	-1,6845	1	0	0	0	0
cellular response to mycophenolic acid	0	0	-1,6845	1	0	0	0	0
uropod organization	0	0	-1,6845	1	0	0	0	0
TAP1 binding	0	0	-1,6845	1	0	0	0	0
TAP binding	0	0	-1,6845	1	0	0	0	0
activation of pro-apoptotic gene products	0	0	-1,6845	1	0	0	0	0
TAP complex	0	0	-1,6845	1	0	0	0	0
natural killer cell degranulation	0	0	-1,6845	1	0	0	0	0
response to mycophenolic acid	0	0	-1,6845	1	0	0	0	0
tapasin binding	0	0	-1,6845	1	0	0	0	0
sphinganine-1-phosphate metabolic process	0	0	-1,6845	1	0	0	0	0
cellular response to fatty acid	0	0	-1,6845	1	0	0	0	0
Arp2/3 protein complex	0	0	-1,6839	1	0	0	0	0
galactose metabolic process	0	0	-1,6839	1	0	0	0	0
trailing edge	0	0	-1,6839	1	0	0	0	0
positive regulation of immunoglobulin production	0	0	-1,6839	1	0	0	0	0
uropod	0	0	-1,6839	1	0	0	0	0
apoptotic protease activator activity	0	0	-1,6839	1	0	0	0	0
regulation of actin filament polymerization	0	0	-1,6828	1	0	0	0	0
regulation of cytoskeleton organization	0	0	-1,6707	1	0	0	0	0
transferase activity, transferring phosphorus-containing groups	0	0	-1,6653	1	0	0	-5,3354	1
proteolysis involved in cellular protein catabolic process	0	0	-1,6653	1	0	0	-1,9969	1
negative regulation of multicellular organismal process	0	0	-1,6645	1	0	0	0	0
morphogenesis of a branching structure	0	0	-1,6645	1	0	0	0	0
homeostatic process	0	0	-1,6644	1	0	0	0	0
protein serine/threonine kinase activity	0	0	-1,6446	1	0	0	-2,5053	1
homeostasis of number of cells within a tissue	0	0	-1,6446	1	0	0	0	0
lamellipodium assembly	0	0	-1,6446	1	0	0	0	0
interleukin-1 beta production	0	0	-1,6446	1	0	0	0	0
regulation of interleukin-1 beta production	0	0	-1,6446	1	0	0	0	0

ER-nucleus signaling pathway	0	0	-1,6401	1	0	0	-2,0957	1
induction of apoptosis by extracellular signals	0	0	-1,6401	1	0	0	0	0
epithelial cell proliferation	0	0	-1,6359	1	0	0	0	0
GTP metabolic process	0	0	-1,6146	1	0	0	-2,1292	1
pyrophosphatase activity	0	0	-1,6146	1	0	0	0	0
inflammatory response	0	0	-1,6128	1	0	0	0	0
protein homodimerization activity	0	0	-1,6111	1	0	0	0	0
cellular protein catabolic process	0	0	-1,5941	1	0	0	-1,8811	1
regulation of response to stress	0	0	-1,59	1	0	0	0	0
protein complex assembly	0	0	-1,5843	1	0	0	-1,7487	1
protein complex biogenesis	0	0	-1,5843	1	0	0	-1,7487	1
activation of protein kinase activity	0	0	-1,5836	1	0	0	0	0
JAK-STAT cascade	0	0	-1,5822	1	0	0	0	0
antigen processing and presentation	0	0	-1,5822	1	0	0	0	0
hydrolase activity, acting on acid anhydrides, in phosphorus-containing anhydrides	0	0	-1,5819	1	0	0	0	0
purine nucleotide binding	0	0	-1,5778	1	0	0	-2,5053	1
protein kinase activity	0	0	-1,5731	1	0	0	-2,3801	1
regulation of protein metabolic process	0	0	-1,5729	1	0	0	-5,4498	1
cytosolic small ribosomal subunit	0	0	-1,5729	1	0	0	-4,6536	1
hydrolase activity, acting on acid anhydrides	0	0	-1,5729	1	0	0	0	0
mast cell activation	0	0	-1,5729	1	0	0	0	0
response to mechanical stimulus	0	0	-1,5651	1	0	0	0	0
positive regulation of protein complex assembly	0	0	-1,5651	1	0	0	0	0
heterophilic cell-cell adhesion	0	0	-1,5651	1	0	0	0	0
axis specification	0	0	-1,5651	1	0	0	0	0
activated T cell proliferation	0	0	-1,5651	1	0	0	0	0
nervous system development	0	0	-1,5529	1	0	0	-1,8508	-1
purine nucleoside triphosphate metabolic process	0	0	-1,5455	1	0	0	-2,5053	1
GTP catabolic process	0	0	-1,5453	1	0	0	-1,9969	1
negative regulation of defense response	0	0	-1,5397	1	0	0	0	0
regulation of peptidase activity	0	0	-1,5397	1	0	0	0	0
regulation of positive chemotaxis	0	0	-1,5381	1	0	0	0	0
positive regulation of positive chemotaxis	0	0	-1,5381	1	0	0	0	0
regulation of interleukin-1 production	0	0	-1,5381	1	0	0	0	0

antigen processing and presentation of peptide antigen via MHC class I	0	0	-1,5381	1	0	0	0	0
positive regulation of cellular component organization	0	0	-1,5249	1	0	0	0	0
transferase activity	0	0	-1,5157	1	0	0	-6,1469	1
negative regulation of calcium ion transport via voltage-gated calcium channel activity	0	0	-1,5157	1	0	0	0	0
protein ubiquitination involved in ubiquitin-dependent protein catabolic process	0	0	-1,5157	1	0	0	0	0
cellular extravasation	0	0	-1,5157	1	0	0	0	0
small GTPase regulator activity	0	0	-1,5157	1	0	0	0	0
positive regulation of response to external stimulus	0	0	-1,5157	1	0	0	0	0
pathway-restricted SMAD protein phosphorylation	0	0	-1,5157	1	0	0	0	0
caspase regulator activity	0	0	-1,5157	1	0	0	0	0
transferase activity, transferring glycosyl groups	0	0	-1,5157	1	0	0	0	0
dendrite	0	0	-1,5157	1	0	0	0	0
GABA receptor binding	0	0	-1,5157	1	0	0	0	0
positive regulation of cell-cell adhesion	0	0	-1,5157	1	0	0	0	0
cortical actin cytoskeleton	0	0	-1,496	1	0	0	0	0
peptidyl-threonine modification	0	0	-1,496	1	0	0	0	0
hair follicle morphogenesis	0	0	-1,496	1	0	0	0	0
stress fiber assembly	0	0	-1,496	1	0	0	0	0
peptidyl-threonine phosphorylation	0	0	-1,496	1	0	0	0	0
positive regulation of protein secretion	0	0	-1,496	1	0	0	0	0
muscle cell proliferation	0	0	-1,4861	1	0	0	0	0
cAMP biosynthetic process	0	0	-1,4857	1	0	0	-1,5113	-1
homeostasis of number of cells	0	0	-1,4801	1	0	0	-1,8431	1
nucleoside triphosphate metabolic process	0	0	-1,471	1	0	0	-2,5477	1
hormone receptor binding	0	0	-1,4698	1	0	0	0	0
regulation of production of molecular mediator of immune response	0	0	-1,4698	1	0	0	0	0
regulation of adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	0	0	-1,4664	1	0	0	-2,3216	1
regulation of adaptive immune response	0	0	-1,4664	1	0	0	-2,3216	1
cell morphogenesis	0	0	-1,4655	1	0	0	0	0
plasma membrane part	0	0	-1,4636	1	0	0	-2,0007	-1

cytokine receptor activity	0	0	-1,4617	1	0	0	0	0
osteoclast differentiation	0	0	-1,4617	1	0	0	0	0
gene-specific transcription from RNA polymerase II promoter	0	0	-1,4617	1	0	0	0	0
regulation of gene-specific transcription from RNA polymerase II promoter	0	0	-1,4617	1	0	0	0	0
inositol or phosphatidylinositol kinase activity	0	0	-1,4617	1	0	0	0	0
macromolecular complex	0	0	-1,4584	1	-4,1244	1	-14,848	1
interleukin-1 production	0	0	-1,4474	1	0	0	0	0
growth	0	0	-1,4474	1	0	0	0	0
negative regulation of small GTPase mediated signal transduction	0	0	-1,4474	1	0	0	0	0
embryonic axis specification	0	0	-1,4474	1	0	0	0	0
negative regulation of Ras protein signal transduction	0	0	-1,4474	1	0	0	0	0
purine nucleotide metabolic process	0	0	-1,4439	1	0	0	0	0
purine ribonucleoside triphosphate metabolic process	0	0	-1,4396	1	0	0	-2,7037	1
nuclear body	0	0	-1,4313	1	0	0	-3,1011	1
small ribosomal subunit	0	0	-1,4312	1	0	0	-5,2933	1
positive regulation of protein transport	0	0	-1,4312	1	0	0	0	0
chemokine binding	0	0	-1,4312	1	0	0	0	0
palate development	0	0	-1,4312	1	0	0	0	0
G-protein chemoattractant receptor activity	0	0	-1,4312	1	0	0	0	0
positive regulation of interferon-gamma production	0	0	-1,4312	1	0	0	0	0
chemokine receptor activity	0	0	-1,4312	1	0	0	0	0
positive regulation of cyclic nucleotide biosynthetic process	0	0	-1,4312	1	0	0	0	0
positive regulation of nucleotide biosynthetic process	0	0	-1,4312	1	0	0	0	0
lipid storage	0	0	-1,4312	1	0	0	0	0
ribonucleoside triphosphate metabolic process	0	0	-1,4291	1	0	0	-2,6689	1
positive regulation of signal transduction	0	0	-1,4284	1	0	0	-1,3809	1
anatomical structure formation involved in morphogenesis	0	0	-1,4284	1	0	0	0	0
Ras guanyl-nucleotide exchange factor activity	0	0	-1,4284	1	0	0	0	0
regulation of cellular component size	0	0	-1,4186	1	0	0	0	0
tissue morphogenesis	0	0	-1,4139	1	0	0	0	0
cellular response to protein stimulus	0	0	-1,4139	1	0	0	0	0
specific transcriptional repressor activity	0	0	-1,4139	1	0	0	0	0

regulation of cyclic nucleotide biosynthetic process	0	0	-1,4088	1	0	0	-1,6149	-1
regulation of nucleotide biosynthetic process	0	0	-1,4088	1	0	0	-1,6149	-1
glycosylation	0	0	-1,3975	1	0	0	0	0
protein amino acid glycosylation	0	0	-1,3975	1	0	0	0	0
macromolecule glycosylation	0	0	-1,3975	1	0	0	0	0
regulation of osteoblast differentiation	0	0	-1,3828	1	0	0	0	0
lymphocyte costimulation	0	0	-1,381	1	0	0	0	0
T cell costimulation	0	0	-1,381	1	0	0	0	0
antigen processing and presentation of endogenous antigen	0	0	-1,381	1	0	0	0	0
cellular response to lithium ion	0	0	-1,381	1	0	0	0	0
antigen processing and presentation of endogenous peptide antigen	0	0	-1,381	1	0	0	0	0
positive regulation of alpha-beta T cell proliferation	0	0	-1,381	1	0	0	0	0
cell-substrate junction assembly	0	0	-1,3648	1	0	0	0	0
positive regulation of cyclic nucleotide metabolic process	0	0	-1,3648	1	0	0	0	0
positive regulation of nucleotide metabolic process	0	0	-1,3648	1	0	0	0	0
positive regulation of signaling process	0	0	-1,3629	1	0	0	0	0
T cell mediated immunity	0	0	-1,3582	1	0	0	-2,5471	1
phagocytic cup	0	0	-1,3539	1	0	0	0	0
positive regulation of endothelial cell differentiation	0	0	-1,3539	1	0	0	0	0
negative regulation of gene-specific transcription	0	0	-1,3539	1	0	0	0	0
neutrophil differentiation	0	0	-1,3539	1	0	0	0	0
protein tyrosine/threonine phosphatase activity	0	0	-1,3539	1	0	0	0	0
negative regulation of protein binding	0	0	-1,3539	1	0	0	0	0
aminoacyl-tRNA hydrolase activity	0	0	-1,3539	1	0	0	0	0
regulation of inflammatory response	0	0	-1,3539	1	0	0	0	0
natural killer cell activation involved in immune response	0	0	-1,3539	1	0	0	0	0
trachea formation	0	0	-1,3539	1	0	0	0	0
negative regulation of interleukin-1 beta production	0	0	-1,3539	1	0	0	0	0
antigen processing and presentation of exogenous peptide antigen via MHC class Ib	0	0	-1,3539	1	0	0	0	0

Rho GDP-dissociation inhibitor activity	0	0	-1,3539	1	0	0	0	0
MHC class I protein binding	0	0	-1,3539	1	0	0	0	0
regulation of striated muscle tissue development	0	0	-1,3539	1	0	0	0	0
negative regulation of interleukin-1 production	0	0	-1,3539	1	0	0	0	0
antigen processing and presentation of exogenous protein antigen via MHC class Ib, TAP-dependent	0	0	-1,3539	1	0	0	0	0
JAK-STAT cascade involved in growth hormone signaling pathway	0	0	-1,3539	1	0	0	0	0
misfolded protein binding	0	0	-1,3539	1	0	0	0	0
cyclic nucleotide biosynthetic process	0	0	-1,3539	1	0	0	-2,0393	-1
enzyme linked receptor protein signaling pathway	0	0	-1,3457	1	0	0	0	0
cellular nitrogen compound biosynthetic process	0	0	-1,3457	1	0	0	0	0
regulation of growth	0	0	-1,3417	1	0	0	0	0
purine ribonucleoside triphosphate catabolic process	0	0	-1,3368	1	0	0	-1,8658	1
regulation of cyclic nucleotide metabolic process	0	0	-1,3318	1	0	0	-1,7008	-1
nucleotide catabolic process	0	0	-1,3306	1	0	0	0	0
nucleobase, nucleoside and nucleotide metabolic process	0	0	-1,3297	1	0	0	-1,3138	1
regulation of response to external stimulus	0	0	-1,3224	1	0	0	0	0
regulation of anatomical structure morphogenesis	0	0	-1,322	1	0	0	0	0
ribonucleoside triphosphate catabolic process	0	0	-1,3201	1	0	0	-1,8396	1
identical protein binding	0	0	-1,3201	1	0	0	0	0
cell-cell adhesion	0	0	-1,3201	1	0	0	0	0
cell projection assembly	0	0	-1,3174	1	0	0	0	0
regulation of cAMP biosynthetic process	0	0	-1,3174	1	0	0	-1,3809	-1
regulation of embryonic development	0	0	-1,3169	1	0	0	0	0
muscle structure development	0	0	-1,316	1	0	0	0	0
transition metal ion binding	0	0	-1,3128	1	0	0	-9,5129	1
patterning of blood vessels	0	0	-1,3128	1	0	0	0	0
regulation of osteoclast differentiation	0	0	-1,3128	1	0	0	0	0
RNA processing	0	0	-1,3111	1	-4,4868	1	-4,3487	1
regulation of protein complex assembly	0	0	-1,3076	1	0	0	0	0
regulation of cell adhesion	0	0	-1,3076	1	0	0	0	0
mitochondrion	0	0	0	0	-11,523	1	-5,8665	1
ribonucleoprotein complex	0	0	0	0	-6,7595	1	-13,73	1

catalytic activity	0	0	0	0	-5,1884	1	-6,6364	1
RNA binding	0	0	0	0	-4,9747	1	-12,799	1
translation	0	0	0	0	-3,7232	1	-10,943	1
ncRNA metabolic process	0	0	0	0	-3,488	1	0	0
mitochondrial part	0	0	0	0	-2,8726	1	-4,8416	1
tRNA metabolic process	0	0	0	0	-2,6198	1	0	0
protein amino acid O-linked glycosylation	0	0	0	0	-2,3298	1	0	0
mitochondrial inner membrane	0	0	0	0	-2,2042	1	-4,3936	1
intracellular transport	0	0	0	0	-2,1104	1	-3,6892	1
intracellular protein transport	0	0	0	0	-2,0679	1	-2,6101	1
organelle inner membrane	0	0	0	0	-2,0604	1	-5,6596	1
ligase activity	0	0	0	0	-2,0108	1	-2,3216	1
purine nucleoside monophosphate metabolic process	0	0	0	0	-1,9468	1	0	0
purine ribonucleoside monophosphate metabolic process	0	0	0	0	-1,9468	1	0	0
eukaryotic translation initiation factor 3 complex	0	0	0	0	-1,9209	1	0	0
acyl-CoA binding	0	0	0	0	-1,9074	1	0	0
calcium-dependent protein binding	0	0	0	0	-1,9074	1	0	0
protein transport	0	0	0	0	-1,8758	1	-5,2464	1
cellular protein localization	0	0	0	0	-1,79	1	-3,5716	1
mitochondrial matrix	0	0	0	0	-1,79	1	0	0
mitochondrial lumen	0	0	0	0	-1,79	1	0	0
regulation of interleukin-6 production	0	0	0	0	-1,79	1	0	0
establishment of protein localization	0	0	0	0	-1,7839	1	-4,7905	1
spliceosomal complex	0	0	0	0	-1,7839	1	-1,5347	1
positive regulation of type I interferon production	0	0	0	0	-1,7839	1	0	0
histone lysine demethylation	0	0	0	0	-1,7839	1	0	0
cellular macromolecule localization	0	0	0	0	-1,7555	1	-4,0391	1
catabolic process	0	0	0	0	-1,7462	1	-2,4546	1
organelle membrane	0	0	0	0	-1,7362	1	-7,0645	1
ion binding	0	0	0	0	-1,7149	1	-6,7932	1
interleukin-6 production	0	0	0	0	-1,7149	1	0	0
ribonucleoside monophosphate metabolic process	0	0	0	0	-1,6816	1	0	0
cation binding	0	0	0	0	-1,6298	1	-6,8153	1
ribosome	0	0	0	0	-1,6206	1	-8,1765	1
metal ion binding	0	0	0	0	-1,6206	1	-7,1878	1
DNA metabolic process	0	0	0	0	-1,6206	1	-1,7942	1
ncRNA processing	0	0	0	0	-1,6201	1	0	0
protein transporter activity	0	0	0	0	-1,6134	1	0	0
mitochondrial membrane	0	0	0	0	-1,6056	1	-4,295	1
kinase inhibitor activity	0	0	0	0	-1,575	1	0	0

mitochondrial envelope	0	0	0	0	-1,5157	1	-4,5361	1
purine nucleoside binding	0	0	0	0	-1,5102	1	0	0
response to peptide hormone								
stimulus	0	0	0	0	-1,4915	1	0	0
AMP metabolic process	0	0	0	0	-1,4503	1	0	0
cellular catabolic process	0	0	0	0	-1,4475	1	-3,3336	1
nucleoside binding	0	0	0	0	-1,4475	1	0	0
soluble fraction	0	0	0	0	-1,4275	1	0	0
mitochondrial respiratory chain	0	0	0	0	-1,4081	1	0	0
acetyl-CoA biosynthetic process	0	0	0	0	-1,3788	1	0	0
coenzyme metabolic process	0	0	0	0	-1,3788	1	0	0
regulation of interleukin-6								
biosynthetic process	0	0	0	0	-1,3788	1	0	0
adenyl nucleotide binding	0	0	0	0	-1,3679	1	0	0
respiratory chain	0	0	0	0	-1,3426	1	0	0
antigen processing and								
presentation of peptide antigen	0	0	0	0	-1,3036	1	0	0
structural constituent of								
ribosome	0	0	0	0	0	0	-10,9	1
chromatin organization	0	0	0	0	0	0	-10,231	1
chromatin modification	0	0	0	0	0	0	-9,7305	1
chromosome organization	0	0	0	0	0	0	-8,3969	1
ribosomal subunit	0	0	0	0	0	0	-8,0348	1
cytosolic part	0	0	0	0	0	0	-7,7167	1
cytosolic ribosome	0	0	0	0	0	0	-6,6556	1
macromolecule localization	0	0	0	0	0	0	-6,5143	1
covalent chromatin modification	0	0	0	0	0	0	-6,1255	1
histone modification	0	0	0	0	0	0	-6,0645	1
regulation of transcription								
regulator activity	0	0	0	0	0	0	-5,585	1
regulation of transcription factor								
activity	0	0	0	0	0	0	-5,585	1
positive regulation of								
transcription regulator activity	0	0	0	0	0	0	-5,4634	1
positive regulation of								
transcription factor activity	0	0	0	0	0	0	-5,4634	1
positive regulation of DNA								
binding	0	0	0	0	0	0	-5,3605	1
protein localization	0	0	0	0	0	0	-5,1373	1
protein complex	0	0	0	0	0	0	-5,0039	1
positive regulation of binding	0	0	0	0	0	0	-4,9872	1
regulation of DNA binding	0	0	0	0	0	0	-4,9208	1
posttranscriptional regulation of								
gene expression	0	0	0	0	0	0	-4,7905	1
envelope	0	0	0	0	0	0	-4,7905	1
organelle envelope	0	0	0	0	0	0	-4,6383	1
positive regulation of NF-kappaB								
transcription factor activity	0	0	0	0	0	0	-4,4295	1
rRNA binding	0	0	0	0	0	0	-4,3958	1
regulation of catabolic process	0	0	0	0	0	0	-3,3758	1

cellular response to biotic stimulus	0	0	0	0	0	0	-3,3274	1
regulation of translation	0	0	0	0	0	0	-3,2736	1
cellular response to stress	0	0	0	0	0	0	-3,2461	1
chromatin remodeling complex	0	0	0	0	0	0	-3,2448	1
histone deacetylase complex	0	0	0	0	0	0	-3,1182	1
protein modification by small protein conjugation	0	0	0	0	0	0	-2,9454	1
cellular response to stimulus	0	0	0	0	0	0	-2,93	1
nucleocytoplasmic transport NuRD complex	0	0	0	0	0	0	-2,901	1
generation of precursor metabolites and energy	0	0	0	0	0	0	-2,8344	1
peptidyl-serine phosphorylation	0	0	0	0	0	0	-2,8314	1
nuclear transport	0	0	0	0	0	0	-2,8159	1
Golgi apparatus	0	0	0	0	0	0	-2,8005	1
ribonucleotide metabolic process	0	0	0	0	0	0	-2,7799	1
translation factor activity, nucleic acid binding	0	0	0	0	0	0	-2,7071	1
purine ribonucleotide metabolic process	0	0	0	0	0	0	-2,6892	1
proteasomal ubiquitin-dependent protein catabolic process	0	0	0	0	0	0	-2,6755	1
chromatin	0	0	0	0	0	0	-2,65	1
translational initiation	0	0	0	0	0	0	-2,65	1
protein import into nucleus, translocation	0	0	0	0	0	0	-2,6366	1
nucleolus	0	0	0	0	0	0	-2,5982	1
proteasomal protein catabolic process	0	0	0	0	0	0	-2,5665	1
protein targeting	0	0	0	0	0	0	-2,5511	1
regulation of cellular catabolic process	0	0	0	0	0	0	-2,5476	1
small conjugating protein ligase activity	0	0	0	0	0	0	-2,514	1
protein modification by small protein conjugation or removal	0	0	0	0	0	0	-2,5053	1
proton-transporting two-sector ATPase complex	0	0	0	0	0	0	-2,5053	1
translation initiation factor activity	0	0	0	0	0	0	-2,4763	1
regulation of T cell mediated immunity	0	0	0	0	0	0	-2,4763	1
transcription coactivator activity	0	0	0	0	0	0	-2,4647	1
protein catabolic process	0	0	0	0	0	0	-2,4212	1
I-kappaB kinase/NF-kappaB cascade	0	0	0	0	0	0	-2,4089	1
protein ubiquitination	0	0	0	0	0	0	-2,3803	1

protein serine/threonine phosphatase activity	0	0	0	0	0	0	-2,3803	1
response to molecule of bacterial origin	0	0	0	0	0	0	-2,3555	1
response to DNA damage stimulus	0	0	0	0	0	0	-2,3482	1
endomembrane system cellular localization	0	0	0	0	0	0	-2,3216	1
intracellular receptor mediated signaling pathway	0	0	0	0	0	0	-2,2926	1
zinc ion transmembrane transport	0	0	0	0	0	0	-2,2858	1
large ribosomal subunit	0	0	0	0	0	0	-2,2728	1
response to lipopolysaccharide	0	0	0	0	0	0	-2,2728	1
ER overload response	0	0	0	0	0	0	-2,2704	1
regulation of gene expression, epigenetic	0	0	0	0	0	0	-2,2494	1
hydrogen ion transmembrane transporter activity	0	0	0	0	0	0	-2,2343	1
structural molecule activity	0	0	0	0	0	0	-2,2343	1
production of molecular mediator of immune response	0	0	0	0	0	0	-2,2028	1
regulation of Ras GTPase activity	0	0	0	0	0	0	-2,2028	1
lysine N-methyltransferase activity	0	0	0	0	0	0	-2,176	1
negative regulation of adaptive immune response	0	0	0	0	0	0	-2,176	1
histone-lysine N-methyltransferase activity	0	0	0	0	0	0	-2,176	1
histone lysine methylation	0	0	0	0	0	0	-2,176	1
negative regulation of adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	0	0	0	0	0	0	-2,176	1
protein-lysine N-methyltransferase activity	0	0	0	0	0	0	-2,176	1
response to dsRNA	0	0	0	0	0	0	-2,1549	1
receptor signaling protein activity	0	0	0	0	0	0	-2,0957	1
Golgi membrane	0	0	0	0	0	0	-2,086	1
protein heterooligomerization	0	0	0	0	0	0	-2,0833	1
peptidyl-serine modification	0	0	0	0	0	0	-2,0824	1
cellular response to extracellular stimulus	0	0	0	0	0	0	-2,059	1
nucleotidyltransferase activity	0	0	0	0	0	0	-2,0417	1
Golgi apparatus part	0	0	0	0	0	0	-2,0324	1
protein localization in nucleus	0	0	0	0	0	0	-2,0087	1
peptidyl-lysine modification	0	0	0	0	0	0	-2,0071	1
cellular carbohydrate metabolic process	0	0	0	0	0	0	-2,0032	1

transport	0	0	0	0	0	0 -2,0007	1
response to muramyl dipeptide	0	0	0	0	0	0 -2,0007	1
regulation of translational elongation	0	0	0	0	0	0 -2,0007	1
signal recognition particle, endoplasmic reticulum targeting	0	0	0	0	0	0 -2,0007	1
signal recognition particle	0	0	0	0	0	0 -2,0007	1
ubiquitin-protein ligase activity	0	0	0	0	0	0 -1,9998	1
cellular response to external stimulus	0	0	0	0	0	0 -1,9967	1
heparan sulfate proteoglycan metabolic process	0	0	0	0	0	0 -1,9804	1
nuclear periphery	0	0	0	0	0	0 -1,9646	1
heat shock protein binding	0	0	0	0	0	0 -1,9539	1
response to endoplasmic reticulum stress	0	0	0	0	0	0 -1,9233	1
maintenance of location	0	0	0	0	0	0 -1,9176	1
gene silencing	0	0	0	0	0	0 -1,9176	1
endoplasmic reticulum establishment of localization	0	0	0	0	0	0 -1,8977	1
steroid hormone receptor signaling pathway	0	0	0	0	0	0 -1,8826	1
histone acetyltransferase activity	0	0	0	0	0	0 -1,8772	1
lysine N-acetyltransferase activity	0	0	0	0	0	0 -1,8772	1
translational elongation	0	0	0	0	0	0 -1,8772	1
ribonucleotide catabolic process	0	0	0	0	0	0 -1,8768	1
response to exogenous dsRNA	0	0	0	0	0	0 -1,8726	1
B cell apoptosis	0	0	0	0	0	0 -1,8726	1
nucleoside triphosphate biosynthetic process	0	0	0	0	0	0 -1,8726	1
mitochondrial proton-transporting ATP synthase complex	0	0	0	0	0	0 -1,8726	1
B cell receptor signaling pathway	0	0	0	0	0	0 -1,8726	1
establishment of localization in cell	0	0	0	0	0	0 -1,8726	1
ligase activity, forming carbon-nitrogen bonds	0	0	0	0	0	0 -1,8726	1
zinc ion transmembrane transporter activity	0	0	0	0	0	0 -1,8726	1
nuclear inner membrane	0	0	0	0	0	0 -1,8726	1
immunoglobulin production	0	0	0	0	0	0 -1,8609	1
regulation of Rho GTPase activity	0	0	0	0	0	0 -1,8608	1
regulation of T cell mediated cytotoxicity	0	0	0	0	0	0 -1,8608	1
acid-amino acid ligase activity	0	0	0	0	0	0 -1,8508	1

chromatin assembly or disassembly	0	0	0	0	0	0	-1,8465	1
ubiquitin-dependent protein catabolic process	0	0	0	0	0	0	-1,8282	1
hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds	0	0	0	0	0	0	-1,8215	1
Ral GTPase binding	0	0	0	0	0	0	-1,8125	1
post-embryonic camera-type eye morphogenesis	0	0	0	0	0	0	-1,8125	1
positive regulation of protein export from nucleus	0	0	0	0	0	0	-1,8125	1
histone H4-K20 methylation	0	0	0	0	0	0	-1,8125	1
T cell proliferation involved in immune response	0	0	0	0	0	0	-1,8125	1
histone methyltransferase activity (H4-K20 specific)	0	0	0	0	0	0	-1,8125	1
histone methyltransferase activity	0	0	0	0	0	0	-1,8121	1
purine nucleoside triphosphate catabolic process	0	0	0	0	0	0	-1,7885	1
purine ribonucleotide biosynthetic process	0	0	0	0	0	0	-1,7837	1
hydrolase activity, acting on ester bonds	0	0	0	0	0	0	-1,7671	1
purine ribonucleotide catabolic process	0	0	0	0	0	0	-1,7579	1
protein import into nucleus	0	0	0	0	0	0	-1,7391	1
histone methylation	0	0	0	0	0	0	-1,7334	1
protein localization in organelle	0	0	0	0	0	0	-1,7225	1
nucleobase, nucleoside, nucleotide kinase activity	0	0	0	0	0	0	-1,717	1
positive regulation of T cell mediated cytotoxicity	0	0	0	0	0	0	-1,7157	1
mannosidase activity	0	0	0	0	0	0	-1,7157	1
nucleoside triphosphate catabolic process	0	0	0	0	0	0	-1,6977	1
mannosyl-oligosaccharide mannosidase activity	0	0	0	0	0	0	-1,6927	1
regulation of GTPase activity	0	0	0	0	0	0	-1,6927	1
ribonucleoside triphosphate biosynthetic process	0	0	0	0	0	0	-1,6927	1
ribonucleotide biosynthetic process	0	0	0	0	0	0	-1,6927	1
regulation of GTP catabolic process	0	0	0	0	0	0	-1,6927	1
nuclear import	0	0	0	0	0	0	-1,6927	1
modification-dependent protein catabolic process	0	0	0	0	0	0	-1,6927	1
protein insertion into membrane modification-dependent macromolecule catabolic process	0	0	0	0	0	0	-1,6927	1

purine ribonucleoside triphosphate biosynthetic process	0	0	0	0	0	0	-1,6927	1
VCB complex	0	0	0	0	0	0	-1,6927	1
endoplasmic reticulum calcium ion homeostasis	0	0	0	0	0	0	-1,6927	1
glycoprotein biosynthetic process	0	0	0	0	0	0	-1,6677	1
protein amino acid acetylation	0	0	0	0	0	0	-1,6677	1
histone acetylation	0	0	0	0	0	0	-1,6677	1
small molecule metabolic process	0	0	0	0	0	0	-1,6594	1
purine nucleoside triphosphate biosynthetic process	0	0	0	0	0	0	-1,648	1
regulation of I-kappaB kinase/NF-kappaB cascade	0	0	0	0	0	0	-1,648	1
ribonucleoprotein complex biogenesis	0	0	0	0	0	0	-1,6415	1
nucleoside diphosphate metabolic process	0	0	0	0	0	0	-1,6119	1
DNA packaging	0	0	0	0	0	0	-1,6059	1
ATP binding	0	0	0	0	0	0	-1,5854	1
phospholipid binding	0	0	0	0	0	0	-1,5712	1
rRNA transcription	0	0	0	0	0	0	-1,5695	1
retinoic acid receptor binding	0	0	0	0	0	0	-1,5695	1
regulation of proteasomal ubiquitin-dependent protein catabolic process	0	0	0	0	0	0	-1,5685	1
regulation of isotype switching	0	0	0	0	0	0	-1,5685	1
hydrogen-exporting ATPase activity, phosphorylative mechanism	0	0	0	0	0	0	-1,5685	1
chromosome	0	0	0	0	0	0	-1,555	1
ATP biosynthetic process	0	0	0	0	0	0	-1,5492	1
double-stranded DNA binding	0	0	0	0	0	0	-1,5482	1
ubiquitin ligase complex	0	0	0	0	0	0	-1,529	1
receptor signaling protein serine/threonine kinase activity	0	0	0	0	0	0	-1,529	1
N-methyltransferase activity	0	0	0	0	0	0	-1,4853	1
regulation of proteolysis	0	0	0	0	0	0	-1,4853	1
proteasome core complex	0	0	0	0	0	0	-1,4834	1
T cell mediated cytotoxicity	0	0	0	0	0	0	-1,4834	1
ribosome biogenesis	0	0	0	0	0	0	-1,4771	1
ribonucleoprotein binding	0	0	0	0	0	0	-1,4633	1
ATPase activity, coupled to transmembrane movement of ions	0	0	0	0	0	0	-1,4486	1
regulation of protein catabolic process	0	0	0	0	0	0	-1,445	1
nuclear DNA-directed RNA polymerase complex	0	0	0	0	0	0	-1,4392	1
nucleoside diphosphate biosynthetic process	0	0	0	0	0	0	-1,4392	1

cytoplasmic ubiquitin ligase complex	0	0	0	0	0	0	-1,4392	1
DNA-directed RNA polymerase complex	0	0	0	0	0	0	-1,4392	1
regulation of protein export from nucleus	0	0	0	0	0	0	-1,4392	1
SUMO ligase activity	0	0	0	0	0	0	-1,4392	1
negative regulation of T cell mediated immunity	0	0	0	0	0	0	-1,4392	1
cytosolic large ribosomal subunit	0	0	0	0	0	0	-1,4392	1
heparan sulfate proteoglycan biosynthetic process	0	0	0	0	0	0	-1,4392	1
regulation of protein kinase B signaling cascade	0	0	0	0	0	0	-1,4317	1
proton-transporting ATP synthase complex	0	0	0	0	0	0	-1,4317	1
regulation of purine nucleotide catabolic process	0	0	0	0	0	0	-1,4317	1
'de novo' posttranslational protein folding	0	0	0	0	0	0	-1,4317	1
regulation of histone modification	0	0	0	0	0	0	-1,4317	1
regulation of proteasomal protein catabolic process	0	0	0	0	0	0	-1,4317	1
'de novo' protein folding	0	0	0	0	0	0	-1,4317	1
regulation of nucleotide catabolic process	0	0	0	0	0	0	-1,4317	1
carbohydrate metabolic process	0	0	0	0	0	0	-1,4163	1
erythrocyte differentiation	0	0	0	0	0	0	-1,4147	1
DNA conformation change	0	0	0	0	0	0	-1,4063	1
positive regulation of cell cycle arrest	0	0	0	0	0	0	-1,4049	1
integral to nuclear inner membrane	0	0	0	0	0	0	-1,4049	1
negative regulation of T-helper 2 type immune response	0	0	0	0	0	0	-1,4049	1
protein amino acid acylation	0	0	0	0	0	0	-1,4049	1
positive regulation of adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	0	0	0	0	0	0	-1,4049	1
negative regulation of protein metabolic process	0	0	0	0	0	0	-1,4049	1
response to peptidoglycan	0	0	0	0	0	0	-1,4049	1
N-glycan processing	0	0	0	0	0	0	-1,4049	1
hypusine metabolic process	0	0	0	0	0	0	-1,4049	1
eukaryotic initiation factor 4E binding	0	0	0	0	0	0	-1,4049	1
macromolecule methylation	0	0	0	0	0	0	-1,4049	1
acrosome assembly	0	0	0	0	0	0	-1,4049	1

regulation of cell cycle arrest	0	0	0	0	0	0	-1,4049	1
regulation of glucocorticoid metabolic process	0	0	0	0	0	0	-1,4049	1
7S RNA binding	0	0	0	0	0	0	-1,4049	1
phosphopyruvate hydratase activity	0	0	0	0	0	0	-1,4049	1
TATA-binding protein binding	0	0	0	0	0	0	-1,4049	1
corticosteroid receptor signaling pathway	0	0	0	0	0	0	-1,4049	1
thrombin receptor activity	0	0	0	0	0	0	-1,4049	1
negative regulation of alpha-beta T cell proliferation	0	0	0	0	0	0	-1,4049	1
DNA-directed RNA polymerase I complex	0	0	0	0	0	0	-1,4049	1
positive regulation of adaptive immune response	0	0	0	0	0	0	-1,4049	1
snRNA binding	0	0	0	0	0	0	-1,4049	1
signal peptide processing	0	0	0	0	0	0	-1,4049	1
post-embryonic eye morphogenesis	0	0	0	0	0	0	-1,4049	1
positive regulation of antigen receptor-mediated signaling pathway	0	0	0	0	0	0	-1,4049	1
peptidyl-lysine modification to hypusine	0	0	0	0	0	0	-1,4049	1
intrinsic to nuclear inner membrane	0	0	0	0	0	0	-1,4049	1
protein amino acid deacetylation	0	0	0	0	0	0	-1,4013	1
threonine-type peptidase activity	0	0	0	0	0	0	-1,4013	1
threonine-type endopeptidase activity	0	0	0	0	0	0	-1,4013	1
magnesium ion binding	0	0	0	0	0	0	-1,4006	1
negative regulation of cellular protein metabolic process	0	0	0	0	0	0	-1,4004	1
nuclear membrane cellular polysaccharide biosynthetic process	0	0	0	0	0	0	-1,3993	1
intrinsic to Golgi membrane	0	0	0	0	0	0	-1,3993	1
cellular response to molecule of bacterial origin	0	0	0	0	0	0	-1,3993	1
integral to Golgi membrane	0	0	0	0	0	0	-1,3993	1
positive regulation of translation	0	0	0	0	0	0	-1,3928	1
protein kinase B signaling cascade	0	0	0	0	0	0	-1,3928	1
negative regulation of cell cycle	0	0	0	0	0	0	-1,3844	1
proteasome complex	0	0	0	0	0	0	-1,3828	1
negative regulation of T cell activation	0	0	0	0	0	0	-1,3809	1
MAPKKK cascade	0	0	0	0	0	0	-1,3809	1

polysaccharide biosynthetic process	0	0	0	0	0	0	-1,3809	1
regulation of intracellular protein transport	0	0	0	0	0	0	-1,3809	1
lipid binding	0	0	0	0	0	0	-1,3745	1
glycoprotein metabolic process	0	0	0	0	0	0	-1,3745	1
adenyl ribonucleotide binding	0	0	0	0	0	0	-1,3421	1
hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear amides	0	0	0	0	0	0	-1,3365	1
positive regulation of T cell mediated immunity	0	0	0	0	0	0	-1,3343	1
embryonic eye morphogenesis	0	0	0	0	0	0	-1,3343	1
lipopolysaccharide-mediated signaling pathway	0	0	0	0	0	0	-1,3343	1
regulation of RNA stability	0	0	0	0	0	0	-1,3343	1
rRNA processing	0	0	0	0	0	0	-1,331	1
rRNA metabolic process	0	0	0	0	0	0	-1,331	1
ATP synthesis coupled proton transport	0	0	0	0	0	0	-1,3221	1
energy coupled proton transport, down electrochemical gradient	0	0	0	0	0	0	-1,3221	1
nuclear export	0	0	0	0	0	0	-1,3052	1
regulation of peptidyl-serine phosphorylation	0	0	0	0	0	0	-1,3052	1
iron ion binding	0	0	0	0	0	0	-1,3019	-1
postsynaptic membrane development of primary sexual characteristics	0	0	0	0	0	0	-1,3104	-1
embryonic organ morphogenesis	0	0	0	0	0	0	-1,346	-1
metallopeptidase activity	0	0	0	0	0	0	-1,3475	-1
ear development	0	0	0	0	0	0	-1,3745	-1
serine-type peptidase activity	0	0	0	0	0	0	-1,3828	-1
pattern specification process	0	0	0	0	0	0	-1,4049	-1
hormone activity	0	0	0	0	0	0	-1,4139	-1
cytokine activity	0	0	0	0	0	0	-1,4154	-1
regulation of cAMP metabolic process	0	0	0	0	0	0	-1,4171	-1
potassium ion transport	0	0	0	0	0	0	-1,4177	-1
heme binding	0	0	0	0	0	0	-1,4317	-1
serine hydrolase activity	0	0	0	0	0	0	-1,4357	-1
nucleoside monophosphate biosynthetic process	0	0	0	0	0	0	-1,4392	-1
axon guidance	0	0	0	0	0	0	-1,4486	-1
G-protein signaling, coupled to cAMP nucleotide second messenger	0	0	0	0	0	0	-1,4645	-1
epithelial cell differentiation	0	0	0	0	0	0	-1,4814	-1
regionalization	0	0	0	0	0	0	-1,497	-1
cation channel complex	0	0	0	0	0	0	-1,544	-1
	0	0	0	0	0	0	-1,5482	-1

serine-type endopeptidase inhibitor activity	0	0	0	0	0	0	-1,5482	-1
regulation of adenylate cyclase activity	0	0	0	0	0	0	-1,5545	-1
monooxygenase activity	0	0	0	0	0	0	-1,6211	-1
regulation of cyclase activity	0	0	0	0	0	0	-1,6284	-1
regulation of lyase activity	0	0	0	0	0	0	-1,6284	-1
neuron development	0	0	0	0	0	0	-1,648	-1
tetrapyrrole binding	0	0	0	0	0	0	-1,6517	-1
potassium channel activity	0	0	0	0	0	0	-1,6754	-1
sugar binding	0	0	0	0	0	0	-1,6761	-1
G-protein signaling, coupled to cyclic nucleotide second messenger	0	0	0	0	0	0	-1,7225	-1
behavior	0	0	0	0	0	0	-1,7463	-1
proteinaceous extracellular matrix	0	0	0	0	0	0	-1,7463	-1
voltage-gated channel activity	0	0	0	0	0	0	-1,7826	-1
voltage-gated ion channel activity	0	0	0	0	0	0	-1,7826	-1
voltage-gated cation channel activity	0	0	0	0	0	0	-1,8125	-1
nucleoside monophosphate metabolic process	0	0	0	0	0	0	-1,8154	-1
carbohydrate binding	0	0	0	0	0	0	-1,8296	-1
endopeptidase regulator activity	0	0	0	0	0	0	-1,8635	-1
generation of neurons	0	0	0	0	0	0	-1,898	-1
extracellular space	0	0	0	0	0	0	-1,898	-1
cAMP metabolic process	0	0	0	0	0	0	-1,9804	-1
central nervous system neuron differentiation	0	0	0	0	0	0	-2,0087	-1
gated channel activity	0	0	0	0	0	0	-2,012	-1
neurogenesis	0	0	0	0	0	0	-2,0459	-1
endopeptidase inhibitor activity	0	0	0	0	0	0	-2,1833	-1
intermediate filament	0	0	0	0	0	0	-2,2858	-1
enzyme inhibitor activity	0	0	0	0	0	0	-2,4774	-1
peptidase inhibitor activity	0	0	0	0	0	0	-2,5053	-1
peptidase regulator activity	0	0	0	0	0	0	-2,5216	-1
cation channel activity	0	0	0	0	0	0	-2,5345	-1
cyclic nucleotide metabolic process	0	0	0	0	0	0	-2,7631	-1
neuron differentiation	0	0	0	0	0	0	-2,8573	-1
intrinsic to plasma membrane	0	0	0	0	0	0	-4,2757	-1
integral to plasma membrane	0	0	0	0	0	0	-4,3585	-1
di-, tri-valent inorganic cation transport	0	0	0	0	-1,3293	-1	0	0
intermediate filament cytoskeleton	0	0	0	0	-1,3433	-1	-2,3791	-1
central nervous system development	0	0	0	0	-1,3788	-1	0	0
substrate-specific channel activity	0	0	0	0	-1,4106	-1	-1,8154	-1

ion channel activity	0	0	0	0	-1,4457	-1	-1,6267	-1
cell adhesion	0	0	0	0	-1,4831	-1	0	0
biological adhesion	0	0	0	0	-1,4831	-1	0	0
passive transmembrane transporter activity	0	0	0	0	-1,6201	-1	-1,8396	-1
channel activity	0	0	0	0	-1,6201	-1	-1,8396	-1
metal ion transport	0	0	0	0	-1,6206	-1	0	0
membrane	0	0	0	0	-2,4791	-1	-3,5516	-1
membrane part	0	0	0	0	-5,0458	-1	-8,9586	-1
multicellular organismal process	0	0	0	0	-9,7799	-1	-12,509	-1
transporter activity	0	0	-1,4404	-1	0	0	0	0
intrinsic to membrane	0	0	-1,5018	-1	-7,8794	-1	-13,745	-1
extracellular matrix	0	0	-1,5018	-1	0	0	-1,8852	-1
lipid catabolic process	0	0	-1,5157	-1	0	0	0	0
cellular amino acid metabolic process	0	0	-1,5301	-1	0	0	0	0
integral to membrane	0	0	-1,5822	-1	-8,4698	-1	-12,388	-1
oxidation reduction	0	0	-1,7047	-1	0	0	0	0
molecular transducer activity	0	0	-1,7195	-1	-27,1	-1	-20,257	-1
signal transducer activity	0	0	-1,7195	-1	-27,1	-1	-20,257	-1
extracellular region part	0	0	-1,9564	-1	0	0	-3,5107	-1
cellular_component	0	0	-2,5964	-1	0	0	0	0
receptor activity	0	0	-3,5814	-1	-27,754	-1	-27,108	-1
extracellular region	0	0	-4,1267	-1	-2,5269	-1	-7,9136	-1
sensory perception of chemical stimulus	0	0	-20,234	-1	-34,324	-1	-55,593	-1
sensory perception of smell	0	0	-21,53	-1	-34,599	-1	-54,658	-1
olfactory receptor activity	0	0	-22,162	-1	-35,807	-1	-53,987	-1
system process	-1,4208	-1	-13,002	-1	-20,959	-1	-31,22	-1
signaling	-1,4741	-1	0	0	-13,149	-1	-7,9747	-1
signal transduction	-1,5096	-1	0	0	-14,775	-1	-9,2749	-1
signal transmission	-1,647	-1	0	0	-13,777	-1	-9,5129	-1
signaling process	-1,6522	-1	0	0	-13,866	-1	-9,6003	-1
neurological system process	-1,9209	-1	-16,365	-1	-23,664	-1	-34,51	-1
signaling pathway	-2,1269	-1	-1,4088	1	-14,559	-1	-7,2668	-1
transmembrane receptor activity	-2,1269	-1	-10,996	-1	-31,053	-1	-42,359	-1
cognition	-2,1269	-1	-18,318	-1	-28,516	-1	-38,959	-1
cell surface receptor linked signaling pathway	-2,4265	-1	0	0	-20,728	-1	-21,947	-1
sensory perception	-2,4265	-1	-18,996	-1	-33,599	-1	-44,273	-1
G-protein coupled receptor protein signaling pathway	-3,7687	-1	-10,55	-1	-34,324	-1	-41,678	-1
G-protein coupled receptor activity	-3,9868	-1	-16,365	-1	-33,599	-1	-49,893	-1

All the enriched immune-related GO categories (the order is the same as in Supplementary Figure 5)

	Cluster 1		Cluster 2		Cluster 4		Cluster 6	
log10		log10		log10		log10		
adj. p-value	Enriched (1), depleted (-1)	adj. p-value	Enriched (1), depleted (-1)	adj. p-value	Enriched (1), depleted (-1)	adj. p-value	Enriched (1), depleted (-1)	

T cell differentiation in the thymus	-4,3279	1	-2,3982	1	0	0	0	0
T cell differentiation	-3,6328	1	-7,6655	1	0	0	0	0
T cell activation	-3,4307	1	-14,227	1	0	0	-1,4049	1
lymphocyte differentiation	-3,3074	1	-10,231	1	0	0	-1,6415	1
immune system development	-3,3034	1	-10,611	1	0	0	-1,7945	1
positive regulation of leukocyte mediated immunity	-2,5732	1	0	0	0	0	0	0
positive regulation of lymphocyte mediated immunity	-2,5732	1	0	0	0	0	0	0
hemopoiesis	-2,477	1	-10,057	1	0	0	-1,8885	1
positive regulation of leukocyte mediated cytotoxicity	-2,4468	1	0	0	0	0	-1,7334	1
lymphocyte activation	-2,4265	1	-16,365	1	0	0	-2,1007	1
regulation of interleukin-2 biosynthetic process	-2,4265	1	-2,1499	1	0	0	0	0
leukocyte differentiation	-2,3826	1	-11,08	1	0	0	-1,4147	1
thymic T cell selection	-2,3451	1	-2,708	1	0	0	0	0
interleukin-2 biosynthetic process	-2,3451	1	-1,9031	1	0	0	0	0
T cell selection	-2,1269	1	-3,8745	1	0	0	0	0
regulation of interleukin-2 production	-2,1269	1	-2,2057	1	0	0	0	0
regulation of leukocyte mediated cytotoxicity	-2,1269	1	0	0	0	0	-1,8039	1
regulation of NK T cell activation	-2,1269	1	0	0	0	0	0	0
positive regulation of NK T cell activation	-2,1269	1	0	0	0	0	0	0
NK T cell activation	-2,1269	1	0	0	0	0	0	0
positive regulation of immune effector process	-2,1269	1	0	0	0	0	0	0
leukocyte activation	-2,0971	1	-16,222	1	0	0	-2,3256	1
positive regulation of interleukin-2 biosynthetic process	-2,0971	1	-3,0661	1	0	0	0	0
interleukin-2 production	-1,9397	1	-1,8398	1	0	0	0	0
regulation of lymphocyte mediated immunity	-1,9209	1	-1,5508	1	0	0	-2,5053	1
lymphocyte apoptosis	-1,9209	1	0	0	0	0	-1,8296	1
lymphocyte mediated immunity	-1,8893	1	-2,1593	1	0	0	-1,6897	1
leukocyte mediated cytotoxicity	-1,8893	1	-1,5397	1	0	0	-1,352	1
interleukin-4 biosynthetic process	-1,8893	1	0	0	0	0	0	0
negative regulation of thymocyte apoptosis	-1,8893	1	0	0	0	0	0	0
positive regulation of interleukin-4 biosynthetic process	-1,8893	1	0	0	0	0	0	0
regulation of interleukin-4 biosynthetic process	-1,8893	1	0	0	0	0	0	0

immune system process	-1,7996	1	-17,807	1	0	0	-2,1484	1
regulation of leukocyte mediated immunity	-1,7704	1	-1,3089	1	0	0	-1,9967	1
T cell apoptosis	-1,7175	1	0	0	0	0	0	0
regulation of lymphocyte differentiation	-1,6012	1	-2,5111	1	0	0	0	0
regulation of lymphocyte activation	-1,5401	1	-7,3045	1	-1,3788	1	0	0
leukocyte mediated immunity	-1,5378	1	-2,4313	1	0	0	0	0
thymocyte apoptosis	-1,5096	1	0	0	0	0	0	0
regulation of thymocyte apoptosis	-1,5096	1	0	0	0	0	0	0
negative regulation of T cell apoptosis	-1,4208	1	0	0	0	0	0	0
regulation of leukocyte activation	-1,4106	1	-6,342	1	0	0	0	0
T cell homeostasis	-1,3882	1	0	0	0	0	0	0
immune effector process	-1,3678	1	-2,4653	1	0	0	-1,6083	1
gamma-delta T cell differentiation	-1,3287	1	0	0	0	0	0	0
gamma-delta T cell activation	-1,3287	1	0	0	0	0	0	0
regulation of immune effector process	-1,3059	1	-1,7441	1	0	0	0	0
regulation of immune system process	0	0	-8,5901	1	0	0	-2,0957	1
regulation of T cell activation	0	0	-7,7399	1	0	0	0	0
positive regulation of T cell activation	0	0	-6,5607	1	-1,4457	1	0	0
positive regulation of immune system process	0	0	-6,4012	1	0	0	-1,9232	1
positive regulation of lymphocyte activation	0	0	-5,9586	1	-1,3036	1	0	0
positive regulation of leukocyte activation	0	0	-5,5171	1	-1,3433	1	0	0
T cell proliferation	0	0	-4,7545	1	0	0	0	0
alpha-beta T cell activation	0	0	-4,6234	1	0	0	0	0
lymphocyte proliferation	0	0	-4,1506	1	0	0	-1,334	1
alpha-beta T cell differentiation	0	0	-4,0799	1	0	0	0	0
leukocyte proliferation	0	0	-3,994	1	0	0	0	0
T cell receptor complex	0	0	-3,7161	1	0	0	0	0
regulation of T cell receptor signaling pathway	0	0	-3,6884	1	0	0	0	0
regulation of immune response	0	0	-3,6443	1	0	0	-2,4763	1
T cell receptor signaling pathway	0	0	-3,5757	1	0	0	0	0
immune response-activating signal transduction	0	0	-3,2524	1	0	0	-1,9539	1
positive regulation of T cell proliferation	0	0	-3,2284	1	0	0	0	0
regulation of antigen receptor-mediated signaling pathway	0	0	-3,2186	1	0	0	0	0
alpha-beta T cell receptor complex	0	0	-3,1469	1	0	0	0	0

regulation of T cell proliferation antigen receptor-mediated signaling pathway	0	0	-3,142	1	0	0	0	0
positive regulation of alpha-beta T cell activation	0	0	-3,0213	1	0	0	0	0
immune response-regulating signaling pathway	0	0	-3,0132	1	0	0	-2,3854	1
immune response	0	0	-3,0084	1	0	0	-2,1422	1
regulation of alpha-beta T cell activation	0	0	-2,9177	1	0	0	0	0
positive regulation of lymphocyte proliferation	0	0	-2,9177	1	0	0	0	0
positive regulation of leukocyte proliferation	0	0	-2,788	1	0	0	0	0
regulation of lymphocyte proliferation	0	0	-2,7758	1	0	0	0	0
negative regulation of T cell receptor signaling pathway	0	0	-2,7728	1	0	0	0	0
negative regulation of antigen receptor-mediated signaling pathway	0	0	-2,7728	1	0	0	0	0
MHC class I peptide loading complex	0	0	-2,685	1	0	0	0	0
regulation of leukocyte proliferation	0	0	-2,685	1	0	0	0	0
positive regulation of immune response	0	0	-2,6328	1	0	0	-2,4758	1
immune response-activating cell surface receptor signaling pathway	0	0	-2,5341	1	0	0	-2,0443	1
regulation of T cell differentiation	0	0	-2,5341	1	0	0	0	0
immune response-regulating cell surface receptor signaling pathway	0	0	-2,3334	1	0	0	-2,2149	1
positive regulation of alpha-beta T cell differentiation	0	0	-2,3266	1	0	0	0	0
myeloid leukocyte differentiation	0	0	-2,3055	1	0	0	0	0
positive regulation of T cell differentiation	0	0	-2,2867	1	0	0	0	0
positive regulation of interleukin-4 production	0	0	-2,1949	1	0	0	0	0
positive regulation of lymphocyte differentiation	0	0	-2,1331	1	0	0	0	0
negative thymic T cell selection	0	0	-2,0402	1	0	0	0	0
regulation of alpha-beta T cell differentiation	0	0	-1,9973	1	0	0	0	0
regulation of myeloid leukocyte differentiation	0	0	-1,9297	1	0	0	0	0
adaptive immune response	0	0	-1,8973	1	0	0	-1,3477	1

adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	0	0	-1,8973	1	0	0	-1,3477	1
antigen processing and presentation of endogenous peptide antigen via MHC class I	0	0	-1,8833	1	0	0	0	0
CD8-positive, alpha-beta T cell differentiation	0	0	-1,8833	1	0	0	0	0
negative T cell selection	0	0	-1,8833	1	0	0	0	0
negative regulation of immune system process	0	0	-1,88	1	0	0	0	0
activation of immune response	0	0	-1,7441	1	0	0	0	0
interleukin-1 beta production	0	0	-1,6446	1	0	0	0	0
regulation of interleukin-1 beta production	0	0	-1,6446	1	0	0	0	0
antigen processing and presentation	0	0	-1,5822	1	0	0	0	0
mast cell activation	0	0	-1,5729	1	0	0	0	0
activated T cell proliferation	0	0	-1,5651	1	0	0	0	0
regulation of interleukin-1 production	0	0	-1,5381	1	0	0	0	0
antigen processing and presentation of peptide antigen via MHC class I	0	0	-1,5381	1	0	0	0	0
regulation of production of molecular mediator of immune response	0	0	-1,4698	1	0	0	0	0
regulation of adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	0	0	-1,4664	1	0	0	-2,3216	1
regulation of adaptive immune response	0	0	-1,4664	1	0	0	-2,3216	1
interleukin-1 production	0	0	-1,4474	1	0	0	0	0
lymphocyte costimulation	0	0	-1,381	1	0	0	0	0
T cell costimulation	0	0	-1,381	1	0	0	0	0
antigen processing and presentation of endogenous antigen	0	0	-1,381	1	0	0	0	0
antigen processing and presentation of endogenous peptide antigen	0	0	-1,381	1	0	0	0	0
positive regulation of alpha-beta T cell proliferation	0	0	-1,381	1	0	0	0	0
T cell mediated immunity	0	0	-1,3582	1	0	0	-2,5471	1
natural killer cell activation involved in immune response	0	0	-1,3539	1	0	0	0	0
negative regulation of interleukin-1 beta production	0	0	-1,3539	1	0	0	0	0

antigen processing and presentation of exogenous peptide antigen via MHC class Ib	0	0	-1,3539	1	0	0	0	0
MHC class I protein binding	0	0	-1,3539	1	0	0	0	0
negative regulation of interleukin-1 production	0	0	-1,3539	1	0	0	0	0
antigen processing and presentation of exogenous protein antigen via MHC class Ib, TAP-dependent	0	0	-1,3539	1	0	0	0	0
regulation of interleukin-6 production	0	0	0	0	-1,79	1	0	0
interleukin-6 production	0	0	0	0	-1,7149	1	0	0
regulation of interleukin-6 biosynthetic process	0	0	0	0	-1,3788	1	0	0
antigen processing and presentation of peptide antigen	0	0	0	0	-1,3036	1	0	0
regulation of T cell mediated immunity	0	0	0	0	0	0	-2,4763	1
production of molecular mediator of immune response	0	0	0	0	0	0	-2,2028	1
negative regulation of adaptive immune response	0	0	0	0	0	0	-2,176	1
negative regulation of adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	0	0	0	0	0	0	-2,176	1
regulation of T cell mediated cytotoxicity	0	0	0	0	0	0	-1,8608	1
T cell proliferation involved in immune response	0	0	0	0	0	0	-1,8125	1
positive regulation of T cell mediated cytotoxicity	0	0	0	0	0	0	-1,7157	1
T cell mediated cytotoxicity	0	0	0	0	0	0	-1,4834	1
negative regulation of T cell mediated immunity	0	0	0	0	0	0	-1,4392	1
negative regulation of T-helper 2 type immune response	0	0	0	0	0	0	-1,4049	1
positive regulation of adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	0	0	0	0	0	0	-1,4049	1
negative regulation of alpha-beta T cell proliferation	0	0	0	0	0	0	-1,4049	1
positive regulation of adaptive immune response	0	0	0	0	0	0	-1,4049	1
positive regulation of antigen receptor-mediated signaling pathway	0	0	0	0	0	0	-1,4049	1

negative regulation of T cell activation	0	0	0	0	0	0 -1,3809	1
positive regulation of T cell mediated immunity	0	0	0	0	0	0 -1,3343	1