

SI Appendix.

Methods.

Tamoxifen administration

For induction of the CreER protein, tamoxifen (T5648, Sigma) was dissolved in corn oil (C8267, Sigma) and administered (1.0-1.5 mg/10 g body weight) by oral gavage. Observed variations among *Brg1* mutants is likely due to pre-existing developmental variation between embryos when tamoxifen was given. *Brg1* depletion using *Eya1^{CreER}* or *Sox2^{CreER}* was confirmed by immunostaining.

Histology, immunostaining and *in situ* hybridization (ISH)

Histology, immunostaining and ISH were carried out according to standard procedures. Briefly, inner ears were fixed in 4% paraformaldehyde (PFA) for overnight at 4°C, dehydrated, and embedded in wax or OCT. Paraffin or frozen sections were generated at 6 µm of thickness. We used six embryos for each genotype at each stage for each probe and the result was consistent in each embryo.

Primary antibodies used for immunostaining: anti-Brg1 (ab110641, Abcam), Sox2 (PA1-094, ThermoFisher), Cy3-, Cy2-, Cy5- and FITC-conjugated secondary antibodies were used. Hoechst 3342 was used for nuclear staining. Probes for ISH were reported previously.

5-Ethynyl-2'-deoxyuridine (EdU) labeling and TUNEL assays

The EdU assay was performed using click-iT™ EdU cell proliferation kit (C10640, Life Technologies) following the manufacturer's instructions. EdU was injected 2 hours before harvested embryos. The TUNEL assay was performed using the Apop Tag kit for *in situ*

apoptosis fluorescein detection (S7110, Millipore-Sigma) following the manufacturer's instructions.

Cell counts and calibration of proliferation rate and apoptosis

EdU-incorporated or TUNEL⁺ cells and Hoechst-stained nuclei in E9.5 otocyst were counted respectively. Values represent average number of TUNEL⁺ or proliferation rate of EdU⁺ cells/total Hoechst⁺ cells (\pm standard deviations) per otocyst. Two-tailed Student's *t*-test was used for statistical analysis.

Otocyst single cell isolation and fluorescence-activated cell sorting

Otocysts were isolated from E10.5 *Eya1^{CreER};TdTomato* or *Eya1^{CreER};Brg1^{fl/fl};TdTomato* embryos and digested with 0.02% trypsin and 50% Accutase (A1110501, Thermo Fisher Scientific) in PBS for 5 min at 37 °C, followed by addition of dispase (0.5 mg/ml) and collagenase IV (0.2 mg/ml) for additional 15 min at 37 °C. The digestion was stopped by adding DMEM medium plus 10% FBS, followed by gentle pipetting to dissociate cells. After passed through a 40 μ m strainer (BD Biosciences) to eliminate cell clumps, the cell suspension was centrifuged, washed twice in PBS to remove fragments, then resuspended in freezing medium and stored in liquid N₂ tank. Eight otocysts from four embryos were collected from 3 different pregnant females on 3 different days. We combined cell suspensions for fluorescence-activated cell sorting (FACS) to isolate TdTomato⁺ cells.

RNA-seq analysis

For each samples, we used ~5000 cells for total RNA preparation in replicates using NucleoSpin RNA XS kit (Cat.740902, TakaraBio). mRNA was purified from total RNA using magnetic

beads (S1550S, New England Biolabs). Random priming strand-specific RNA-seq libraries were generated using SMART-seq Stranded kit (Cat.634839, TakaraBio) and single-end 75-bp sequencing was performed using Illumina NextSeq 500. Raw sequencing reads from mice were mapped to mm10 using HISAT2 (1). Counts of reads mapping to genes were obtained using HTSeq-count against Ensembl v90 annotation (2). Differential expression was done using the DESeq2 package. Volcano plot of global changes between control and *Brg1*-cKO cells was generated using volcano plot tool in Galaxy (usegalaxy.org). Gene Ontology and Panther/Reactome pathway enrichment analyses were performed using geneontology.org. Heatmap, Kmeans and KEGG analyses were performed using <http://bioinformatics.sdstate.edu/idep/> (3). Statistical power analysis was performed using powsimR (4).

Reverse transcription and real-time PCR

FACS-purified TdTomato⁺ cells from *Eya1*^{CreER} control and *Brg1*^{cKO/cKO} otocysts collected from E10.5 embryos were used for total RNA extraction using Trizol Reagents (15596026, Invitrogen). 100-500 ng of total RNAs were treated with RNase-Free DNase I Set (79254, QIAGEN) and then used for reverse transcription using a SuperScript IV Reverse Transcriptase (18090010, Thermo Fisher Scientific) for first-Strand cDNA Synthesis. Real-time PCR was performed using iQ SYBR Green Master Mix (4309155, Applied Biosystems). StepOnePlus Real-Time PCR Systems. Expression levels of each transcript were normalized using β -actin as an internal control. Each set of experiments was repeated three times, and the DDCT relative quantification method was used to evaluate quantitative variation. All qPCR primers are listed in Table S3.

ChIP-seq and ChIP assays

The ChIP assay was performed as previously described (5). Briefly, otocysts were dissected from E10.5 embryos, fixed, homogenized and lysed for chromatin preparation as described as previously described (5). The immunoprecipitation was performed using anti-Brg1 (ab110641, Abcam), anti-Six1 (HPA001893, Sigma), anti-H3K27ac (ab4792, Abcam), anti-H3K27me3 (ab6002, Abcam) or IgG as a control. The pull-down and input control sequencing libraries were generated using the ThruPLEX DNA-seq Kit (R400429, Rubicon Genomics) and were sequenced on Illumina HiSeq 2500 system.

For ChIP assay, equal chromatin derived from wild-type, *Eya1*^{-/-} or *Six1*^{-/-} otocysts was precipitated with IgG or anti-Brg1 and the ChIPed DNAs were subjected to quantitative real-time PCR (qPCR) amplification with StepOnePlus PCR system and SYBR green PCR Master Mix kit (4309155, Applied Biosystems) as described previously (5). The enrichment fold of IP over mock IgG IP was calculated using the comparative Ct (threshold cycle) method. Data were normalized with inputs and the enrichment of mock IgG IP was considered to be 1-fold. This experiment was repeated three times and each qPCR was performed in triplicate. The primers used for ChIP-qPCR are listed in Table S3.

For ChIP-qPCR using chromatin prepared from HEK293 cells, each well of HEK293 cells in 6-well plates was transfected with 1.6 µg of each *lacZ*-reporter transgene driven by each *Sox2* enhancer or enhancer carrying mutated SIX-motifs with 3 µg of His-Six1/pcDNA3.0 expression plasmid and 0.3 µg of GFP/pcDNA3.0 as an internal control using calcium phosphate method. Thirty-six hours post-transfection, the cells were disassociated from plate and suspended with PBS into 1 ml cell suspension. GFP-positive (transfected) or -negative (untransfected) cells

were counted using hemocytometer using a microscope under both darkfield and brightfield for adjusting transfection efficiency. Cell suspension containing same number of GFP-positive cells for each sample were fixed by adding FA to a final concentration of 1% FA at room temperature for 30 mins and lysed in ice-cold lysis buffer as used for ChIP experiments described above (50 mM HEPES-KOH, pH 7.5, 140 mM NaCl, 1 mM EDTA, 10% glycerol, 0.5% NP-40, 0.25% Triton X-100, 1×protease inhibitors). Cells were washed and resuspended in 1 ml cold sonication buffer (10 mM Tris-Cl, pH 8.0, 2 mM EDTA, 0.1% SDS) and sonicated to 400-600 bp fragments using Bioruptor sonicator (B01060010, Diagenode). Sonicated chromatin was cleared by pelleting insoluble material at 13,000 RPM at 4°C, followed by pre-clear with protein A/G beads and incubation with 1~2 mg anti-Six1 antibody (HPA001893, Sigma) or IgG overnight. Chromatin-antibody complexes were precipitated with protein A/G beads at 4°C for another 2 hrs. Immunoprecipitated complexes were subjected to series of wash steps with low salt buffer (20 mM Tris-Cl 8.0, 150 mM NaCl, 2 mM EDTA, 1% Triton X-100, 0.1% SDS), high salt buffer (20 mM Tris-Cl pH 8.0, 500 mM NaCl, 2 mM EDTA, 1% Triton X-100, 0.1% SDS), LiCl wash buffer (10 mM Tris-HCl pH 8.0, 250 mM LiCl, 1 mM EDTA, 1% NP-40, 1% sodium deoxycholate) and TE plus NaCl, followed by elution and reverse crosslinking overnight at 65°C. Data were normalized with the enrichment of mock IP, which was considered 1-fold, using the comparative Ct (threshold cycle) method. Transfection was performed in triplicate and repeated three times and each qPCR was performed in triplicate.

Peak calling, overlapping peak, gene ontology, motif, and deepTools analyses

The ChIP-seq data were first checked for quality using the various metrics generated by FastQC (v0.11.2) (<http://www.bioinformatics.babraham.ac.uk/projects/fastqc>). Raw sequencing reads

were then aligned to the mouse mm10 genome using default settings of Bowtie (v2.2.0) (6). Peak-calling was performed using MACS (v2.1.1) (7) with various *P*-value cutoffs as reported in the main text. The peak bed files were generated from peak calling against genomic input control or IgG control with the default setting (10^{-5} cutoff). The common peaks from these two bed files were used for subsequent analyses.

The overlapping peaks of bed files were identified using the bedtools from Galaxy (8) (<https://usegalaxy.org/>). Motif enrichment analysis was performed using the Homer package (v4.8.3) (9). The peak annotation and gene ontology analysis was performed using GREAT program (10) and Panther classification system (11). The bamCoverage, computeMatrix and plotHeatmap tools from Galaxy platform (8) were used for general comparison of overall peaks/signal via the normalized coverage comparisons.

Co-immunoprecipitation (coIP) analysis

CoIP analysis was performed as described previously (5). Briefly, otocysts were isolated from E10.5 embryos of *Eya1^{HA-Flag}* knockin mouse model generated in the laboratory and nuclear extracts were prepared as described (5). Anti-Brg1 (ab110641, Abcam), anti-Flag (F7425, Sigma) or -anti-Six1 (HPA001893; Sigma) were used for pull-down. For western blot detection, anti-Brg1, -HA (ab9110, Abcam) for detecting HA-Flag-Eya1, -Six1 and -Sox2 (AB5603, Chemicon) and HRP-conjugated secondary using the enhanced chemiluminescence (ECL) method.

Transient (G0) transgenic (Tg) analysis of enhancer activity

The GFP or LacZ reporter driven by *Hsp68* minimal promoter flanked by the H19 insulators (5)

was used to generate reporter construct by inserting each individual enhancer element upstream of the Hsp68 minimal promoter. The reporter cassette was purified and microinjected into the pronucleus of zygotes (E0.5) of a FVB/B6 hybrid strain at our Mouse Genetics and Gene Targeting facility to generate transgenic embryos. G0 embryos were harvested at day 10 or 14 post-injection (E10.5 or E14.5) for analysis and X-gal staining was performed as described previously (5).

Legends for Fig. S1-S7, Table S1-S4 and File S1-S8

Fig. S1. Brg1 expression in P0 cochlea and selective deletion of Brg1 in *Eya1*⁺ domain of the otocyst from E8.5-9.5 results in lack of neurosensory structures in the inner ears. (A) anti-Brg1 immunostaining of P0 cochlea. SG, spiral ganglion; OC, organ of Corti; GER/LER, greater/lesser epithelial ridge. (B) Whole-inner ear from newborn littermates. V, vestibule; Co, cochlea. (C) H&E stained cochlear sections of E15.5 +/+, *Eya1*^{CreER}, *Brg1*^{cKO/+} and *Brg1*^{cKO/cKO} littermates showing cochlear duct (CD), spiral ganglion (SG) and temporal bone (TB). Arrows indicate cavity-like structures. Scale bars: 50 μ m.

Fig. S2. Deletion of Brg1 leads to increased apoptosis and reduced proliferation rate in otocyst. (A) Whole-mount ISH for *Hmx3* in control and *Brg1*^{cKO/cKO} littermates at E9.0. (B) TUNEL assays and (C) EdU-incorporation in E9.5 otocyst (Ot) given tamoxifen at E8.0-8.5. Statistical analysis of TUNEL⁺ cells or EdU⁺ cells in otic epithelium showing the average number (\pm standard deviations) of TUNEL⁺ cells per otocyst or proliferation rate (EdU⁺ cells/total number of nuclei per otocyst). Data refer to the average of 3 embryos per otocyst per genotype. *P*-value was calculated using Two-tailed Student's *t*-test. Sections were nuclear

counterstained with Hoechst. **(D)** Whole-mount and section ISH showing *Dlx5* expression in wild-type and *Eya1;Six1* double null otic placode (OP). **(E)** Anti-Brg1 staining showing Brg1 expression in otocyst in *Eya1^{-/-};Six1^{-/-}* double and *Eya1^{-/-}* single mutant otocyst. **(F)** Anti-Sox2 staining showing depletion of Sox2 in the otocyst at E9.5 given tamoxifen from E7.5. Scale bars: 50 μm (A-F).

Fig. S3. Analysis of differentially expressed genes identified by RNA-seq. **(A)** Volcano plot showing transcripts differentially responding to depletion of Brg1. Except for *Oc90* with an unusual $-\log_{10} p\text{-value} > 80$, the $p\text{-value}$ for differentially expressed genes is < 35 , as reflected in the Y-axis. **(B)** Kmeans heatmap of 3092 differentially expressed genes in each replicate and pathway enrichment analysis showing enriched pathways in cluster A, C and D respectively (tools at bioinformatics.sdstate.edu). Red and green indicate up- and downregulated genes. **(C)** Heatmap showing 27 selected genes: 19 upregulated genes involved in muscle/heart contraction and olfactory system and 8 downregulated genes involved in cell adhesion. Red and blue indicate up- and downregulated genes. **(D)** qRT-PCR of FACS-purified TdTomato⁺ cells of *Eya1^{CreER}* control and *Brg1^{cKO/cKO}* otocysts. qPCR was performed in triplicate and repeated three times. **(E)** Genome browser view of RNA-seq data sets showing increased expression of *Map3k5*, *Gata5*, *Gata4* and *Tbx20*, all of which had strong H3K27me3-depositon in the otocyst. H3K27ac and H3K27me3 ChIP-seq data sets from otocysts were used for comparison. The direction of transcription is shown by the arrow beginning at the TSS.

Fig. S4. Analysis of Brg1 peaks in otocyst identified by ChIP-seq analysis. **(A)** Heatmaps showing Brg1 peaks within a $-2\text{-kb}/+ 2\text{-kb}$ window centered on all Brg1 peaks in wild-type

otocysts or comparison between wild-type or *Eya1*^{-/-} otocysts. **(B)** Gene Ontology (GO) analysis showing highly enriched "molecular function" terms. **(C)** Known motif analysis identified in sites occupied by Brg1. **(D)** KEGG pathway analysis of 519 common genes between RNA-seq and Brg1-ChIP-seq data sets only identified pathways for cluster D. **(E)** Genomic browser visualization of Brg1-binding at the loci of *Map3k5*, *Cdkn1b*, *Spry2*, and *Cdh7*. All data sets were from otocysts. The direction of transcription is shown by the arrow beginning at the TSS.

Fig. S5. Eya1 and Six1 selectively interact BAF60a/c but not with BAF60b and GO analysis of Six1 otocyst peaks. **(A)** Row western blots of coIP shown in Fig. 5A. For anti-Brg1 and -Six1 IP (lane 1-8), the membrane was cut into three sections according to molecular weight to simultaneously probe with anti-Brg1, -Six1/-Sox2 (stripped and reprobed) or -HA. For anti-Flag IP (lane 9-12), the same membrane was cut into three pieces according to molecular weight to simultaneously probe with anti-Brg1, -HA or -Six1/-Sox2 (stripped and reprobed). Arrow indicates each protein. Anti-Flag and -HA was used for IP and western detection of the 2×HA-3×Flag-Eya1 respectively. Input was 5% of the amount used for IP. **(B)** CoIP analysis using nuclear extracts from cochlea of *Eya1*^{HA-Flag} embryos at E13.5. Anti-Brg1, -Flag (for 2×HA-3×Flag-Eya1), or -Six1 was used for IP and antibodies for western detection are indicated. Red asterisk point to IgG band below the BAF60b. Sox2 was immunoprecipitated by anti-Brg1, consistent with our previous observation of DNA-independent interaction between Eya1, Six1, Sox2 and Brg1/BAF170 in E13.5 cochlea (12). Input was 5% of the amount used for IP. **(C)** GO analysis showing top enriched "Biological Process" terms of Six1-binding sites. **(D)** Genomic browser visualization of showing a proximal-promoter region at the *Mycn* or *Sobp* co-occupied by Brg1 and Six1 in E10.5 otocyst (ot), Six1 in E10.5 embryo (em) or cochlea (co) at E13.5 or

E16.5. The direction of transcription is shown by the arrow beginning at the TSS.

Fig. S6. Comparison of Brg1, Six1, and Sox2 occupancy at the *Sox2* locus in different tissues. Genomic browser visualization of ChIP-seq data sets processed using mm10 database or mm9 database. Sox2 ChIP-seq in iMOP (GSE62514), Flag-Brg1 ChIP-seq and histone mark in E11.5 brain and face (GSE37151), Six1 in E10.5 embryo and cochlea along with H3K27ac in E13.5 cochlea (GSE108130) were used for comparison. ot, otocyst; em, embryo at E10.5; co, cochlea; iMOP, immortalized multipotent otic progenitors. Brg1 binding at +31-kb, +691-kb and +755-kb found in otocyst, forebrain and face, but its binding to +146 and +669-kb regions was otocyst-unique and these two regions are also occupied by Six1 in the otocyst, embryo and cochlea. +691-kb region is co-bound by Six1 and Sox2. This regions also drives expression in the brain and facial mesenchyme surrounding the olfactory epithelium.

Fig. S7. The activity of three distal 3' *Sox2* enhancers co-occupied by Brg1/Six1 in otic neurosensory cells depends on Six1-binding. X-gal staining of G0 transgenic embryos at E10.5 and E14.5. (A) *Sox2*-Enh1 directs β -Gal expression in the sensory epithelium in utricle and cochlea. (B) *Sox2*-Enh2 is active in all neuronal and sensory organs in the inner ear as well as in olfactory epithelium (Of). (C) *Sox2*-Enh3 directs expression in all neuronal and sensory organs in the inner ear. β -Gal activity was also observed in the brain and mesenchymal cells surrounding the olfactory epithelium. (D-F) Mutation of Six1-binding consensus sequences in all three enhancers blocked β -Gal expression in the otic vesicle or neurosensory structures in E14.5 inner ear in all transgenic lines. However, some β -Gal⁺ cells were observed in the brain for Enh1SIXmt, and some mesenchymal cells surrounding the otocyst for Enh2-SIXmt (arrows in

E). For Enh3SIXmt, β -Gal expression in the mesenchyme surrounding the olfactory epithelium and in the brain was not affected and some β -Gal⁺ cells were also observed in the mesenchyme outside of the sensory organs in the inner ear (arrow in F). Abb.: Co, cochlear epithelium; Sa, saccule; SG and VG, spiral and vestibular ganglion; AC/HC/PC, anterior/horizontal/posterior crista; Ut, utricle. Scale bars: 100 μ m.

Table S1. Differentially expressed genes. List of differentially expressed genes between control and *Brg1*^{ecKO/cKO} cells, with a *P*_{adj} value <0.05 and raw *P* <0.05/log₂ fold change >1.2.

Table S2. Statistical power analysis using powsimR.

Table S3. Primers used for ChIP assay. List of primer sequences, positions and lengths used for ChIP-qPCR.

Table S4. Sequence of 1540-bp Sox2 Enh3 region showing binding sites for SOX and SIX proteins.

Dataset S1. Peak position and associated genes of 8574 Brg1 otocyst peaks. List of genes and peak locations by assigning 8574 Brg1 peaks to their single nearest genes within 500-kb of the nearest gene's TSS (transcription start site) using GREAT analysis.

Dataset S2. Peak position and associated genes of Brg1/H3K27ac otocyst peaks.

Dataset S3. List of 519 Brg1 targets identified in both RNA-seq and ChIP-seq data sets otocyst.

Dataset S4. Peak position and associated genes of H3K27me3 otocyst peaks.

Dataset S5. Peak position and associated genes of Six1 otocyst peaks.

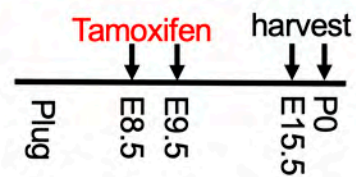
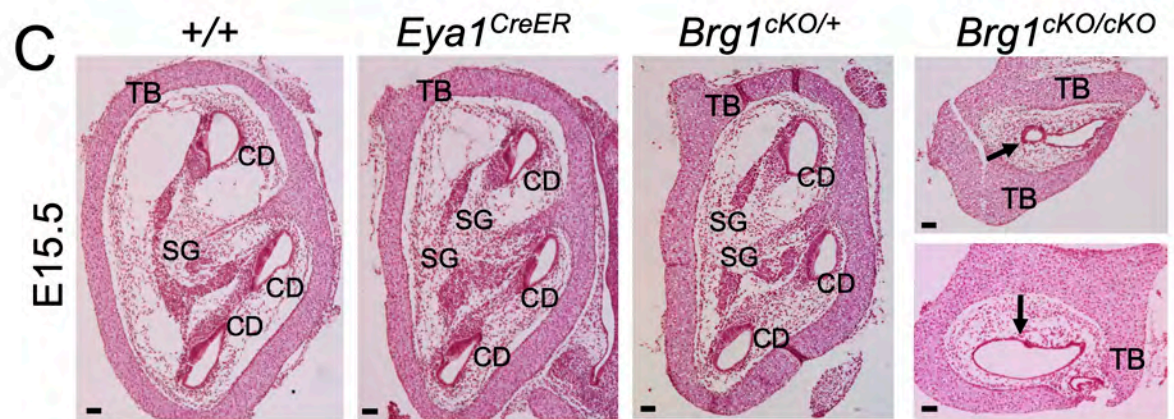
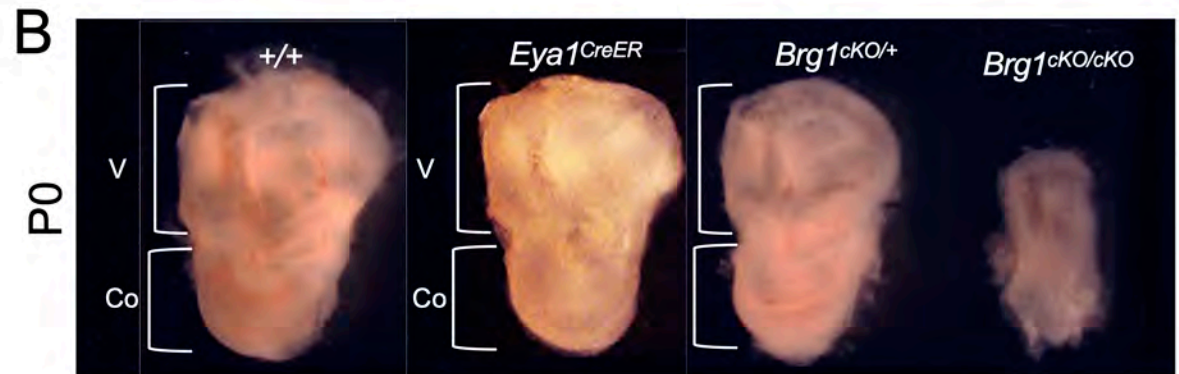
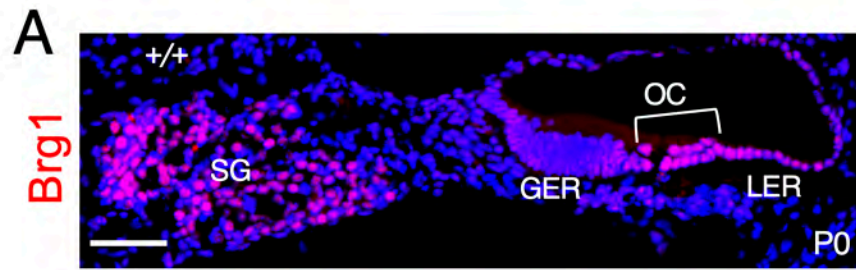
Dataset S6. Peak position and associated genes of Brg1/Six1 peaks.

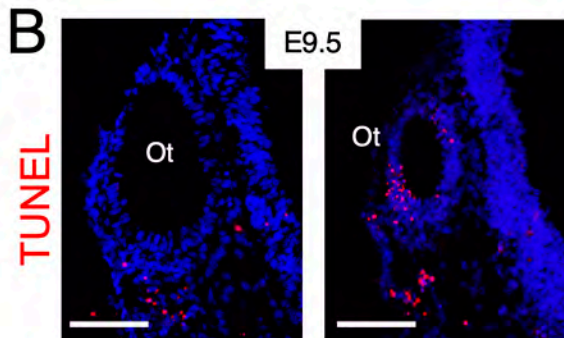
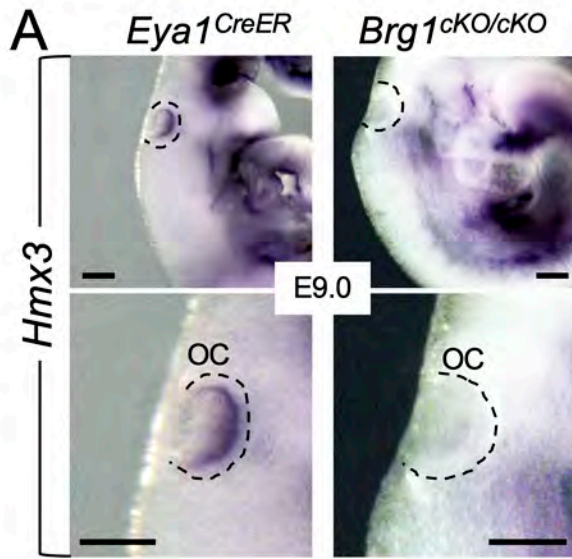
Dataset S7. List of common genes identified Brg1 and Six1 ChIP-seq otocyst data sets.

Dataset S8. Peak positions and associated genes of Brg1 peaks in *Eya1^{-/-}* otocyst.

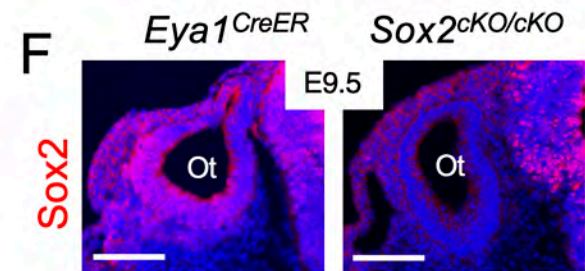
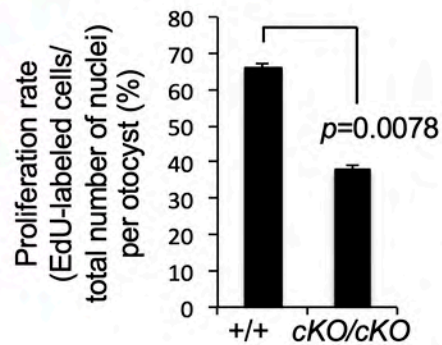
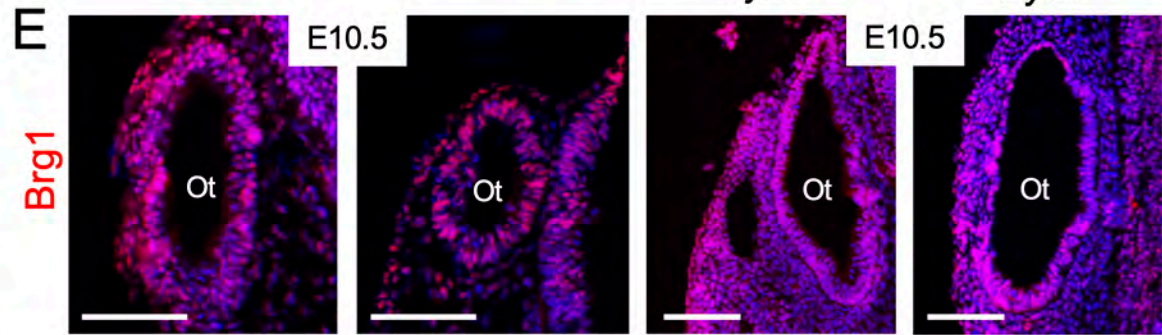
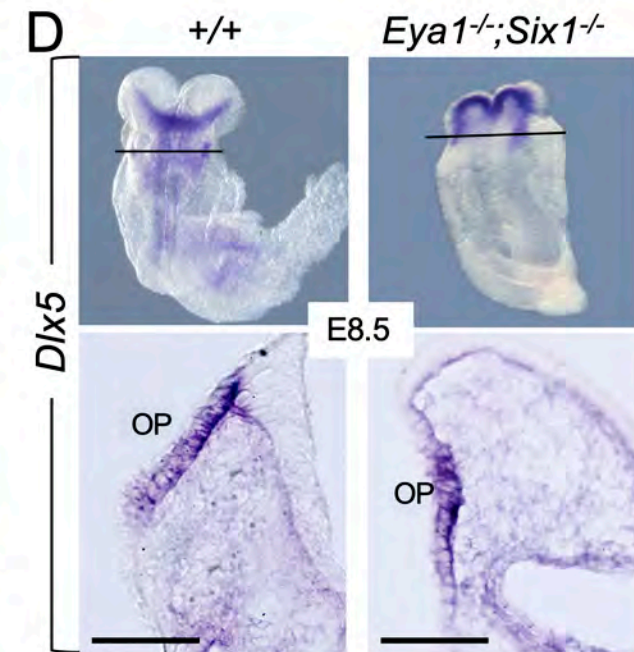
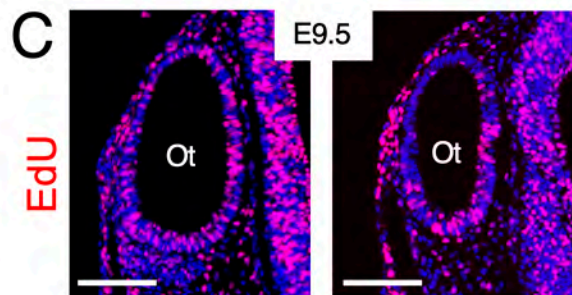
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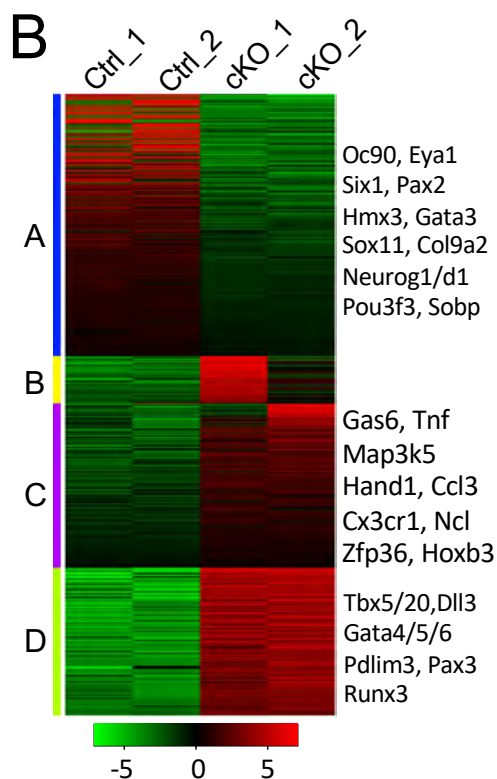
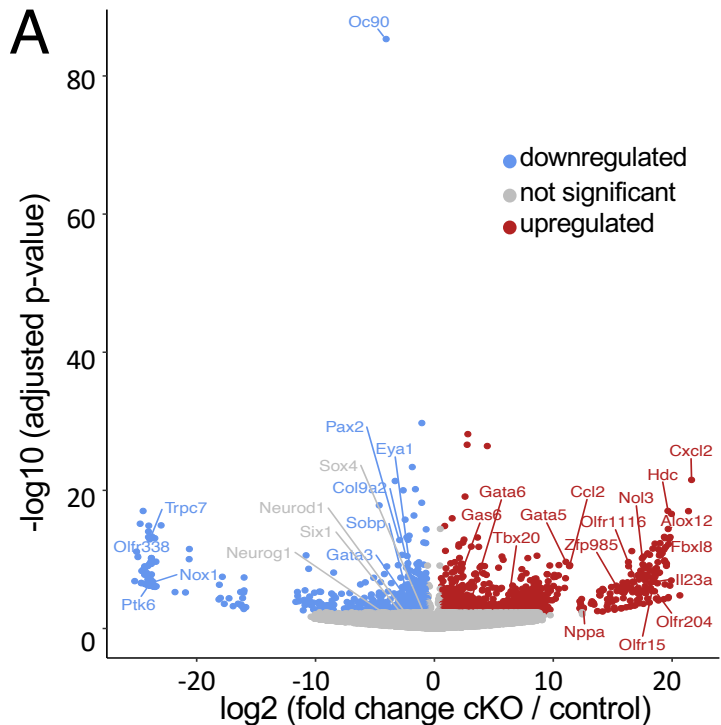
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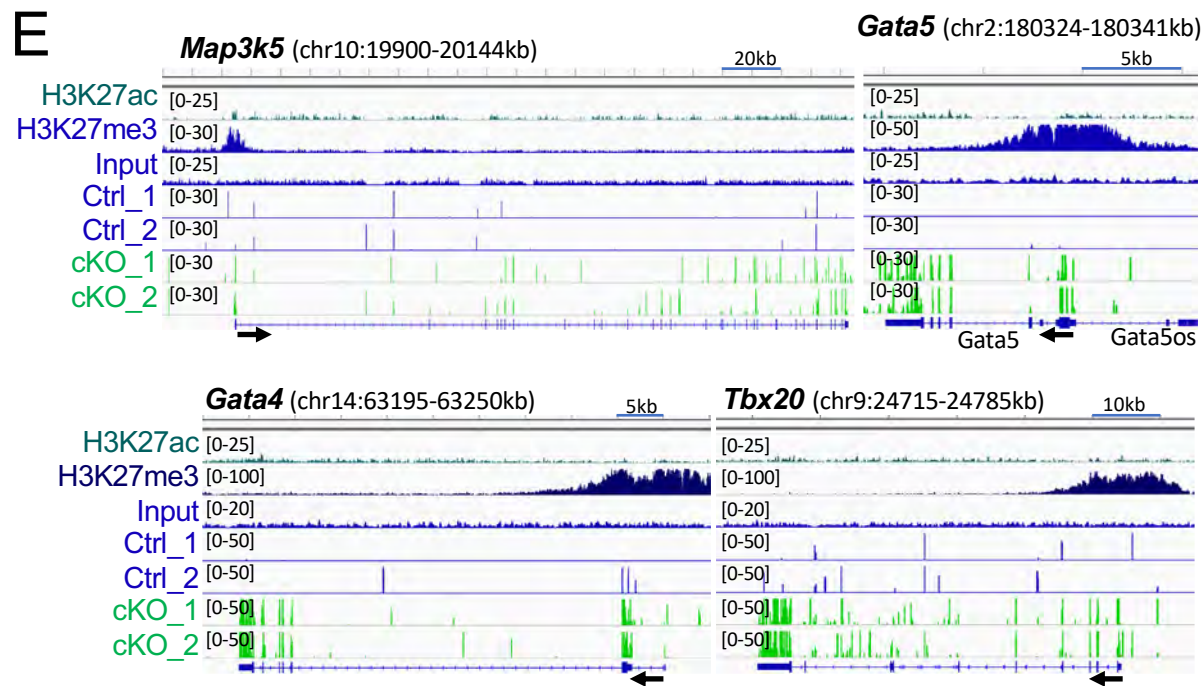
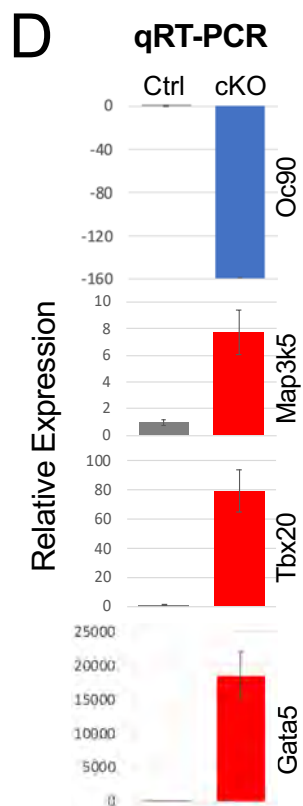
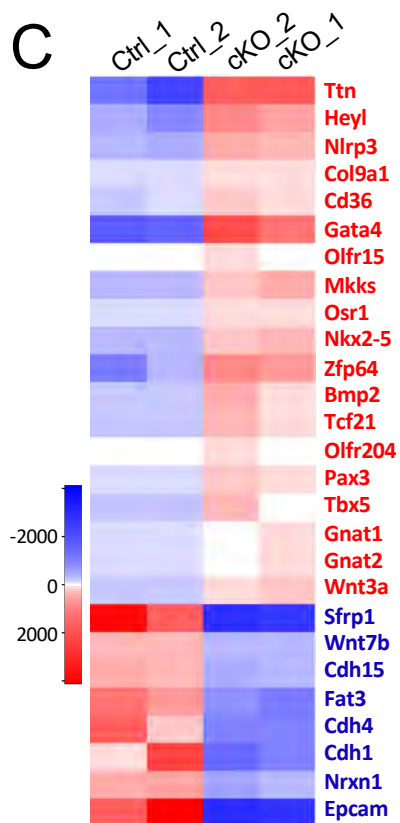
Sample	# of TUNEL ⁺ cells per otocyst	# of nuclei per otocyst
+/+ (n=3)	76±3	4321±112
cKO/cKO (n=3)	439±13	2082±49
<i>P</i> -value (+/+ vs cKO/cKO)	0.009	0.007

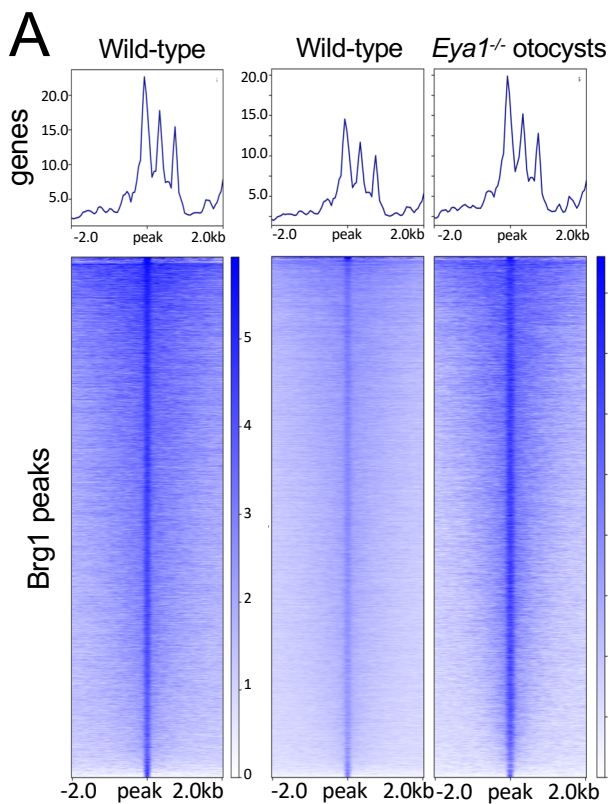




Kmeans Enrichment

Cluster	Pathways	adj. p-value
A	Neurogenesis	3e-19
	Neuron differentiation	2e-18
	Generation of neurons	5e-18
	Cell morphogenesis	5e-18
	System development	3e-20
C	Cellular response to chemical stimulus	4e-05
	Response to stress	4e-05
	Regulation of cell death	5e-04
	Immune response	4e-05
	Defense response	5e-04
D	Regulation of tumor necrosis factor production	5e-04
	Cytokine production	4e-04
	Defense response	5e-10
	Immune response	2e-10
	Regulation of tumor necrosis factor production	5e-09
	Muscle system process	1e-09
	Muscle contraction	2e-10
	Blood circulation	2e-10
	Striated muscle contraction	5e-10
	Cardiac muscle contraction	2e-10
	Heart contraction	5e-10



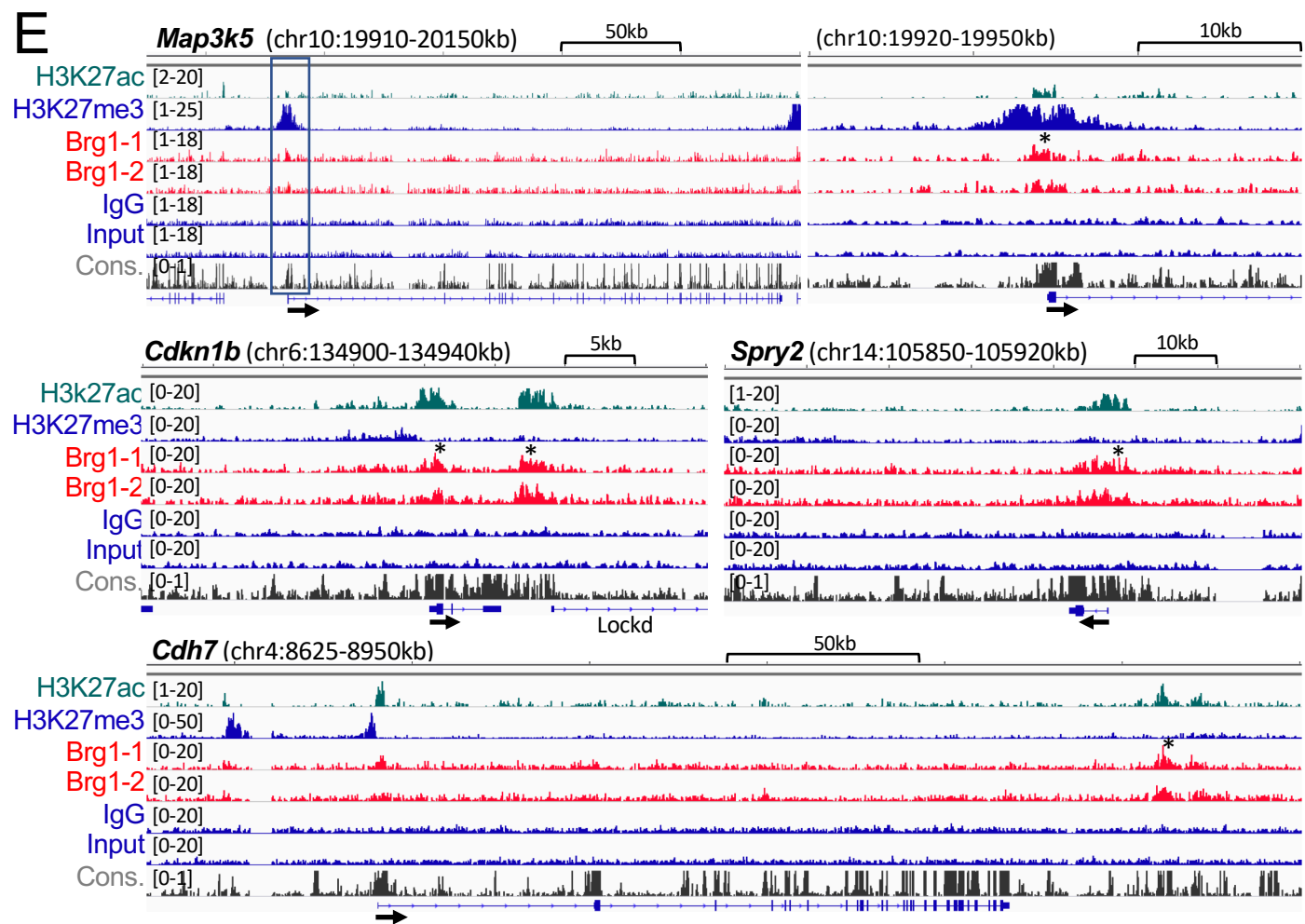
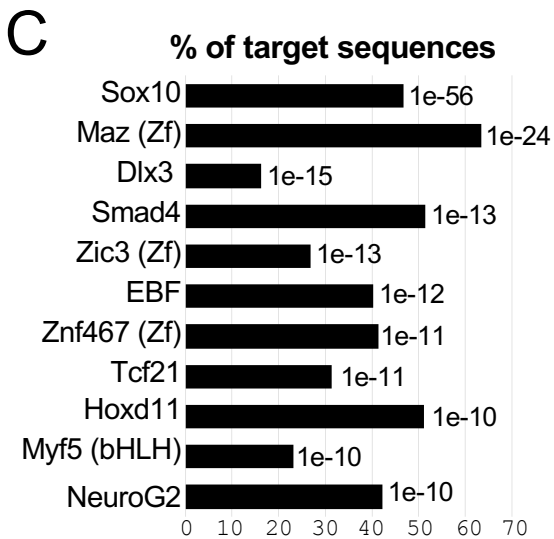


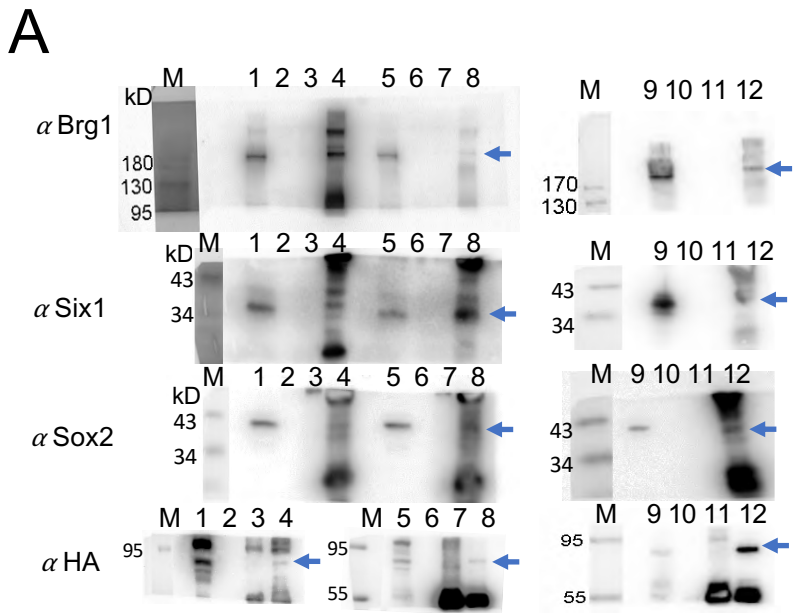
B

GO Molecular Function (Brg1 peaks)	Binom Raw p -value	Binom Fold Enrichment
Chromatin binding	7.9E-8	2.46
RNA polymerase II regulatory region	2.3E-83	2.17
DNA binding		
Transcription factor binding	5.1E-77	2.33
Transcription corepressor activity	3.2E-30	2.18
Ubiquitin-like protein ligase binding	5.1E-24	2.09
SMAD binding	8.7E-23	2.76
Histone binding	8.3E-19	2.30
Wnt-activated receptor activity	1.6E-12	3.74
Wnt-protein binding	5.1E-11	3.04
Collagen binding	2.6E-10	2.47

D

KEGG pathways (Cluster D-255 genes)	FDR
MAPK signaling pathway	9.6E-04
Pathway in cancer	1.7E-03
Calcium signaling pathway	2.4E-03
Wnt signaling pathway	3.2E-03
Axon guidance	3.2E-03
Signaling pathways regulating pluripotency of stem cells	3.2E-03
Adherens junction	9.1E-03





M: protein ladder

1: Input

2: blank

3: IgG

4: anti-Brg1 IP

5: Input

6: blank

7: IgG

8: anti-Six1 IP

9: Input

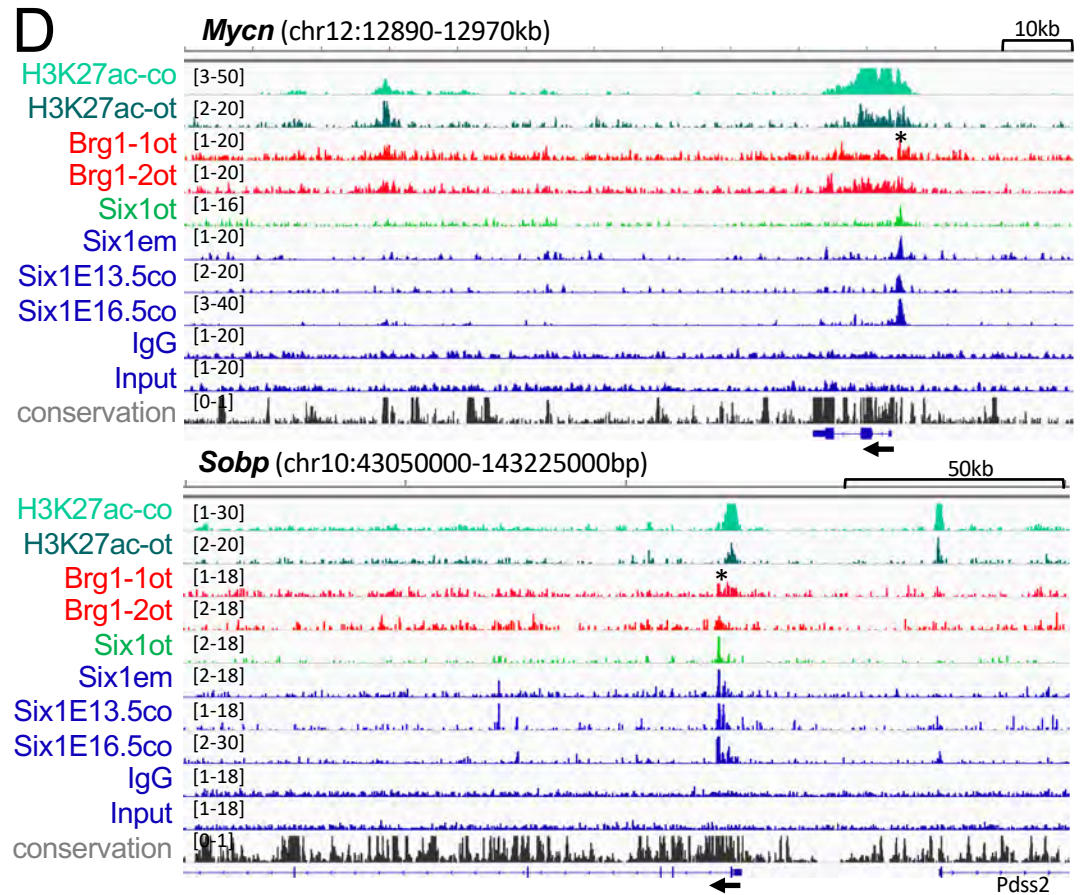
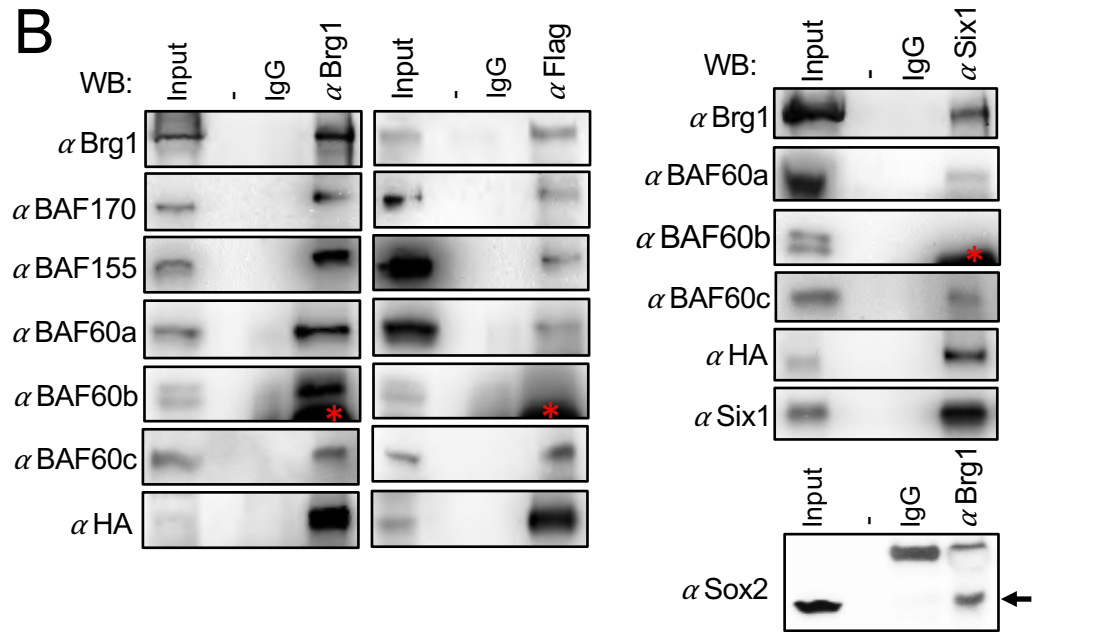
10: blank

11: IgG

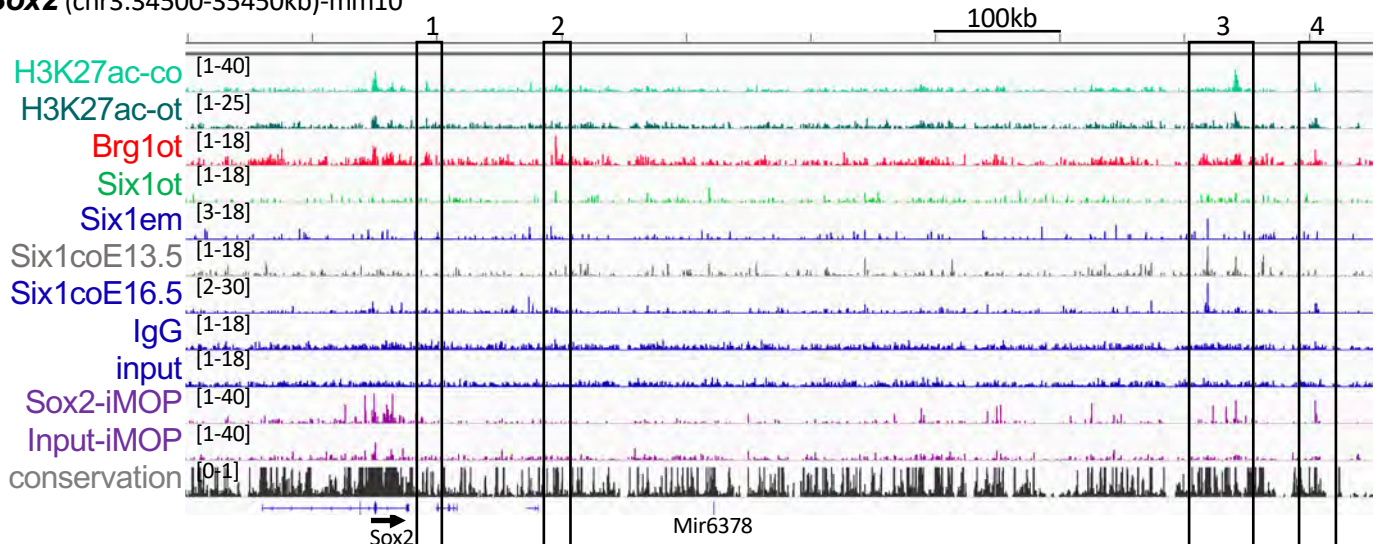
12: anti-Flag IP

C

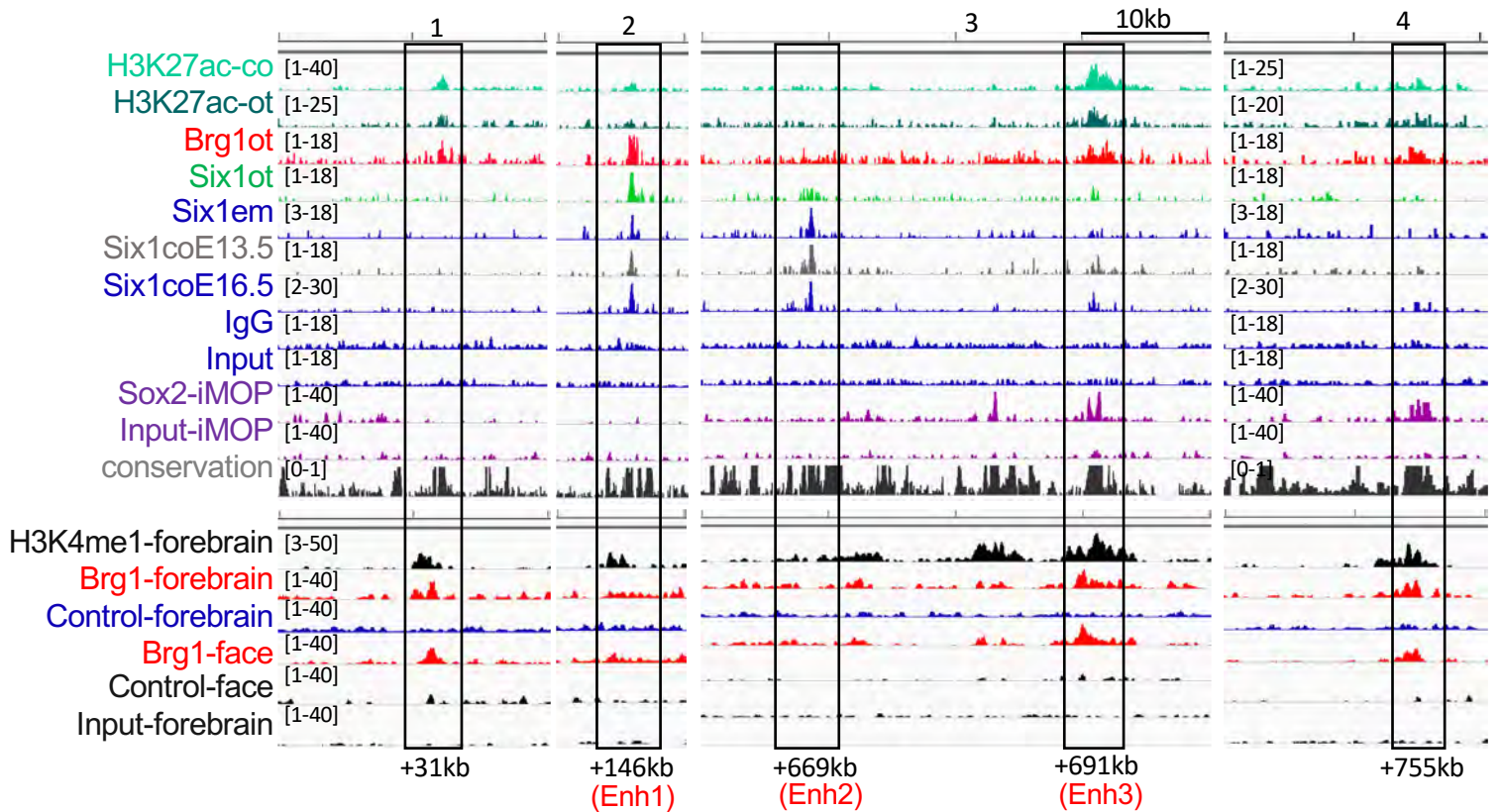
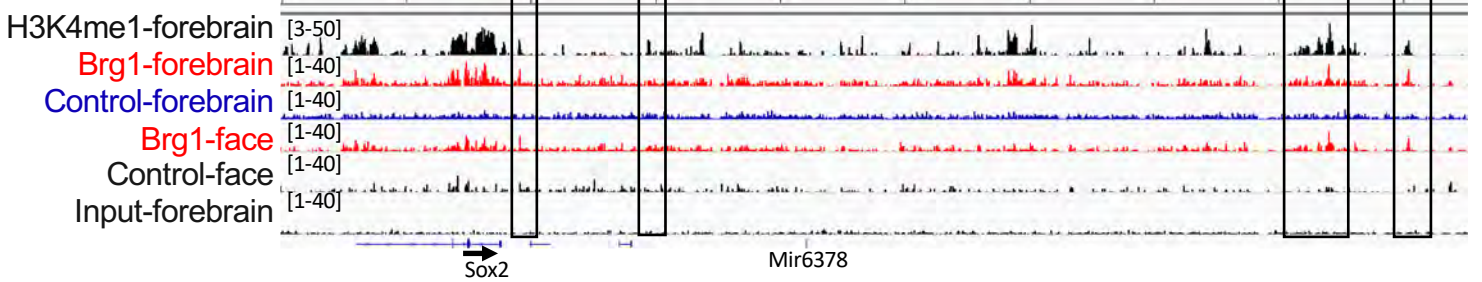
GO Biological Process (Six1 peaks)	Binom Fold Enrichment	Binom Raw <i>p</i> -value
BMP signaling pathway	12.55	9.67E-16
Organ induction	6.17	3.21E-17
Nose development	5.60	6.13E-10
Cranial ganglion development	5.52	3.09E-11
Ectoderm development	4.52	5.08E-9
Regulation of cell fate commitment	4.24	9.04E-13
Regulation of catenin import into nucleus	4.12	3.12E-11
Otic vesicle development	3.70	1.43E-7
Maintenance of cell number	3.00	1.90E-23
Ectodermal placode development	2.67	3.52E-6



Sox2 (chr3:34500-35450kb)-mm10



Sox2 (chr3:34400-35350kb)-mm9



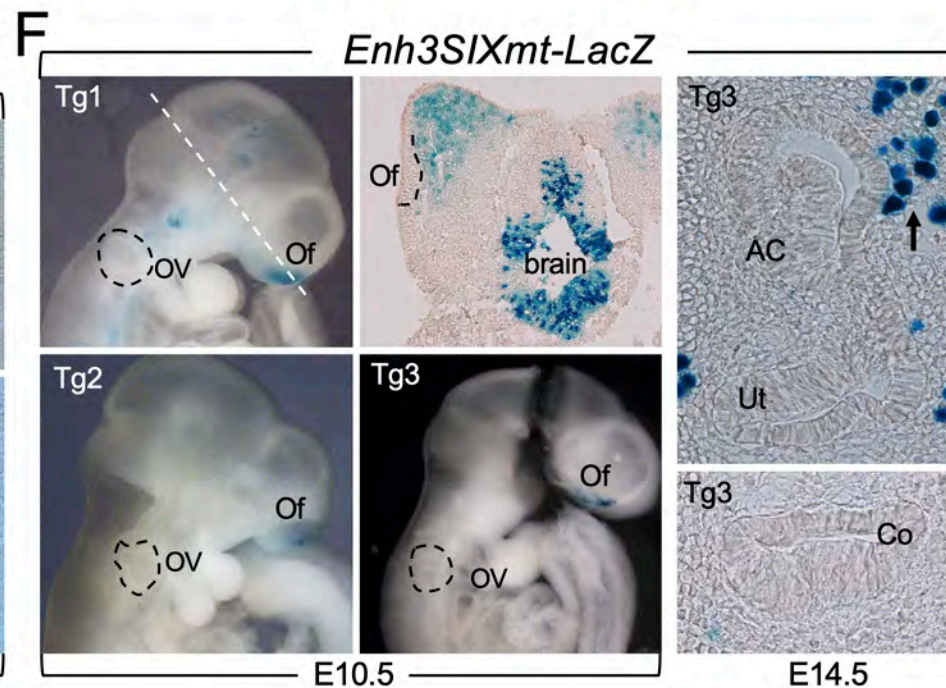
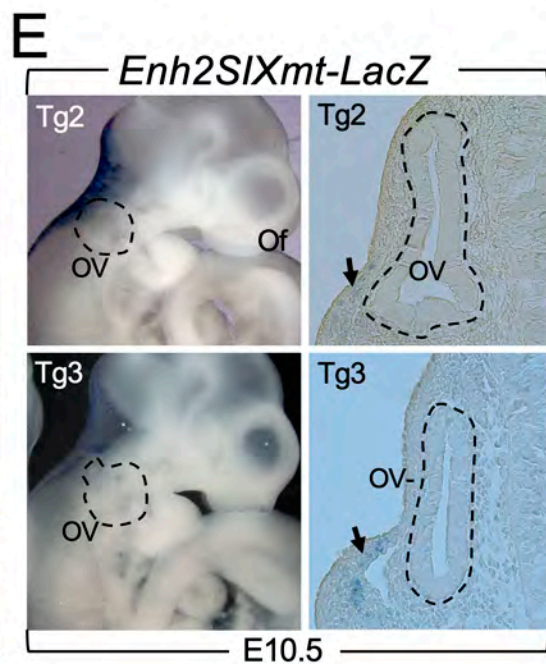
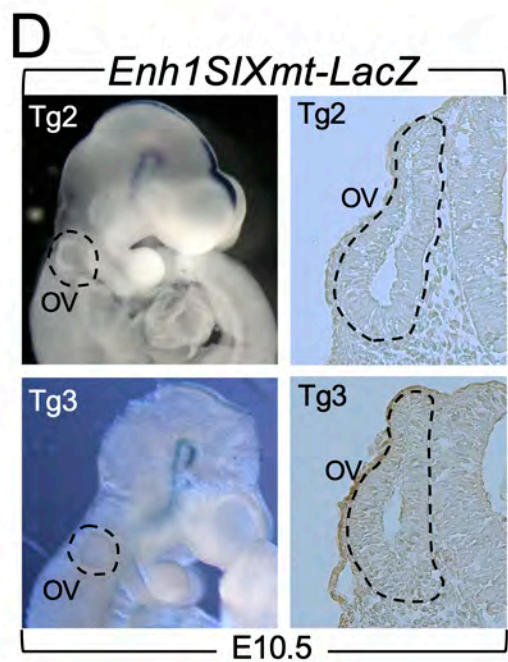
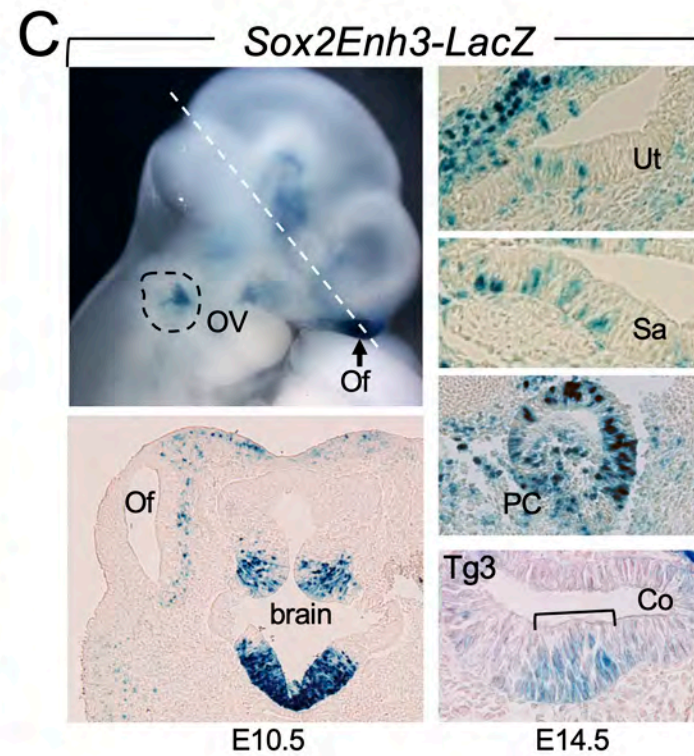
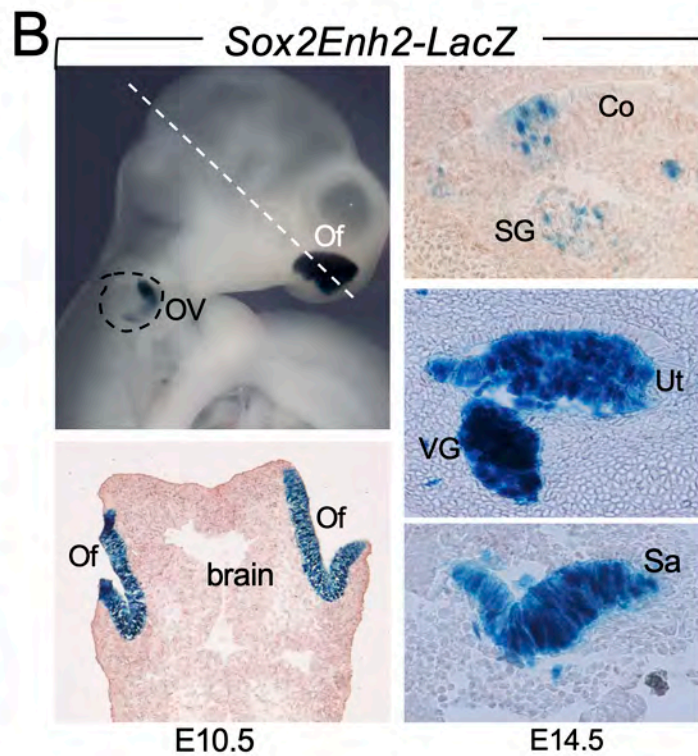
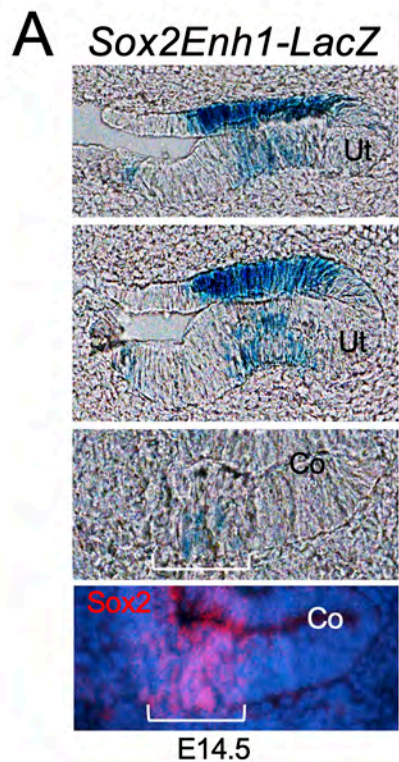


Table S1. Differentially expressed genes.							
Gene ID	Gene_name	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
ENSMUSG0	Oc90	3403.202	-4.059325332	0.206452	-19.6623	4.54E-86	8.54E-82
ENSMUSG0	Col1a1	23126.78	-1.05531041	0.091977	-11.4737	1.79E-30	1.68E-26
ENSMUSG0	Ecm1	1172.576	2.81346952	0.25234	11.1495	7.20E-29	4.52E-25
ENSMUSG0	Mrc1	2416.563	2.754024828	0.254298	10.82993	2.48E-27	1.17E-23
ENSMUSG0	Cfh	2422.347	4.450522346	0.412464	10.79008	3.83E-27	1.44E-23
ENSMUSG0	Alcam	5659.953	-1.861150794	0.183783	-10.1269	4.20E-24	1.32E-20
ENSMUSG0	Cxcl2	245.8587	21.63486911	2.230775	9.698362	3.06E-22	8.24E-19
ENSMUSG0	Cdh4	2597.722	-3.30398133	0.34199	-9.66106	4.41E-22	1.04E-18
ENSMUSG0	Vegfa	5604.266	-1.598645099	0.170484	-9.37708	6.78E-21	1.42E-17
ENSMUSG0	Gas2	811.1184	-2.623747769	0.280989	-9.33756	9.86E-21	1.86E-17
ENSMUSG0	Igfbp7	2935.074	2.577679656	0.282816	9.114341	7.92E-20	1.35E-16
ENSMUSG0	Tenm3	5728.433	-1.066832856	0.120022	-8.88862	6.19E-19	9.70E-16
ENSMUSG0	Gm6472	765.2109	-4.643652632	0.528254	-8.79058	1.49E-18	2.15E-15
ENSMUSG0	Gm37926	125.186	-24.50607154	2.856817	-8.5781	9.64E-18	1.20E-14
ENSMUSG0	Hdc	274.9086	19.64300158	2.289521	8.579524	9.53E-18	1.20E-14
ENSMUSG0	Slc17a9	130.3132	21.37614943	2.493922	8.571297	1.02E-17	1.20E-14
ENSMUSG0	Hist1h2bc	130.5656	19.94501299	2.355814	8.466294	2.53E-17	2.80E-14
ENSMUSG0	Nefm	3790.642	-1.718622126	0.204549	-8.40199	4.39E-17	4.59E-14
ENSMUSG0	Zfp36	2904.019	1.49421693	0.18018	8.292893	1.11E-16	1.09E-13
ENSMUSG0	Gfra1	909.7569	-2.464197834	0.299088	-8.23904	1.74E-16	1.63E-13
ENSMUSG0	Gm43258	59.65655	-24.75473396	3.066005	-8.07394	6.81E-16	6.10E-13
ENSMUSG0	Gm42819	79.92511	-22.9921713	2.871124	-8.00807	1.17E-15	9.97E-13
ENSMUSG0	Mgst2	76.88365	-24.03036346	3.005983	-7.99418	1.30E-15	1.07E-12
ENSMUSG0	Tmsb4x	14322.91	0.867806152	0.10873	7.981292	1.45E-15	1.14E-12
ENSMUSG0	Ncl	31917.03	0.49610389	0.063098	7.862463	3.77E-15	2.83E-12
ENSMUSG0	Alox12	77.05541	19.66675691	2.502884	7.857638	3.91E-15	2.83E-12
ENSMUSG0	App	11743.24	-0.696380649	0.088793	-7.8427	4.41E-15	3.07E-12
ENSMUSG0	A830012C17Rik	99.42307	-24.05682902	3.103023	-7.75271	9.00E-15	6.05E-12
ENSMUSG0	Gm10800	6468.957	-2.117899128	0.279691	-7.57227	3.67E-14	2.38E-11
ENSMUSG0	AC115805.2	107.7981	-23.76211822	3.153851	-7.53432	4.91E-14	3.08E-11
ENSMUSG0	Zfp941	100.3602	19.34491254	2.571954	7.521484	5.42E-14	3.29E-11
ENSMUSG0	Trpc7	69.34955	-24.05588357	3.201753	-7.51335	5.76E-14	3.34E-11
ENSMUSG0	A530016L24Rik	101.5504	19.83592668	2.640802	7.511328	5.85E-14	3.34E-11
ENSMUSG0	Dtna	533.4769	-2.322921524	0.309515	-7.50505	6.14E-14	3.40E-11
ENSMUSG0	Bmp6	231.3977	3.628263933	0.484124	7.494491	6.66E-14	3.58E-11
ENSMUSG0	Gm26511	71.79743	19.70143402	2.636963	7.471258	7.94E-14	4.15E-11
ENSMUSG0	Lym7	67.33906	19.38754506	2.596238	7.467552	8.17E-14	4.16E-11
ENSMUSG0	Pcdhb6	63.43748	-23.51965897	3.15197	-7.46189	8.53E-14	4.22E-11
ENSMUSG0	Gm12992	79.14162	19.7781945	2.657105	7.443514	9.80E-14	4.73E-11
ENSMUSG0	Slc22a20	47.69849	-23.94184561	3.228912	-7.41483	1.22E-13	5.73E-11
ENSMUSG0	Acta2	1043.183	2.490828792	0.336548	7.401107	1.35E-13	6.20E-11
ENSMUSG0	Tbx2	3122.377	-2.215650816	0.29962	-7.39488	1.42E-13	6.34E-11
ENSMUSG0	Pax2	6266.486	-2.920885499	0.395542	-7.38451	1.53E-13	6.70E-11
ENSMUSG0	Nnat	4966.118	-0.896491293	0.123247	-7.27393	3.49E-13	1.49E-10
ENSMUSG0	Ctsc	986.0205	2.398091709	0.329994	7.267087	3.67E-13	1.54E-10
ENSMUSG0	Col1a2	19838.66	-0.722178504	0.099646	-7.24745	4.25E-13	1.74E-10

ENSMUSG0	Gm43080	66.09873	18.98987082	2.621897	7.242799	4.40E-13	1.76E-10
ENSMUSG0	Gm43029	72.29342	18.55391001	2.569598	7.220549	5.18E-13	2.03E-10
ENSMUSG0	2310002F09Rik	81.23263	19.70236505	2.735667	7.202034	5.93E-13	2.28E-10
ENSMUSG0	Coro1a	1226.514	2.062137589	0.286995	7.185285	6.71E-13	2.52E-10
ENSMUSG0	Cx3cr1	1035.764	2.049266485	0.289011	7.090618	1.34E-12	4.93E-10
ENSMUSG0	Des	1331.28	3.101951241	0.437745	7.086198	1.38E-12	4.99E-10
ENSMUSG0	C1qa	346.0361	3.729561528	0.527215	7.074079	1.50E-12	5.34E-10
ENSMUSG0	Fbxl8	110.4949	19.45113618	2.754412	7.061811	1.64E-12	5.73E-10
ENSMUSG0	Nwd2	77.27558	18.37767794	2.628574	6.991501	2.72E-12	9.31E-10
ENSMUSG0	Cdhr2	102.7377	-20.61524733	2.95676	-6.97224	3.12E-12	1.05E-09
ENSMUSG0	Slc44a3	114.1551	18.84516237	2.706875	6.961963	3.36E-12	1.11E-09
ENSMUSG0	Gm42726	122.641	19.31994898	2.780839	6.947525	3.72E-12	1.21E-09
ENSMUSG0	Gpx1	3595.884	0.929324727	0.13495	6.886459	5.72E-12	1.82E-09
ENSMUSG0	Acsbg1	299.7398	16.60928926	2.415901	6.874987	6.20E-12	1.94E-09
ENSMUSG0	Gm37509	65.93898	-25.05528285	3.65902	-6.84754	7.51E-12	2.32E-09
ENSMUSG0	Fcgr4	57.78096	18.98002343	2.802005	6.773729	1.26E-11	3.81E-09
ENSMUSG0	Gm20633	93.9207	19.16672669	2.830843	6.770679	1.28E-11	3.83E-09
ENSMUSG0	Ict1os	50.58494	17.93802178	2.652048	6.763839	1.34E-11	3.95E-09
ENSMUSG0	Gm3650	45.90462	18.11237215	2.704723	6.696573	2.13E-11	6.18E-09
ENSMUSG0	Ephb1	528.3875	-2.722292712	0.406729	-6.69313	2.18E-11	6.23E-09
ENSMUSG0	BC049715	82.8673	19.02172607	2.850545	6.673015	2.51E-11	7.04E-09
ENSMUSG0	Gm6166	262.4264	-10.79676674	1.619045	-6.6686	2.58E-11	7.12E-09
ENSMUSG0	Zfp85	83.00177	18.91817677	2.837561	6.667055	2.61E-11	7.12E-09
ENSMUSG0	Trim30a	135.1495	8.631445844	1.29787	6.650469	2.92E-11	7.85E-09
ENSMUSG0	Col9a2	1668.032	-2.293060157	0.345562	-6.63574	3.23E-11	8.56E-09
ENSMUSG0	Sh3gl3	213.1588	5.683067617	0.859728	6.610312	3.84E-11	1.00E-08
ENSMUSG0	CT030185.2	63.01458	17.58814922	2.662137	6.606779	3.93E-11	1.01E-08
ENSMUSG0	Olfir338	57.26824	-24.94657115	3.785715	-6.58966	4.41E-11	1.12E-08
ENSMUSG0	Parl	758.7858	2.110553311	0.322733	6.539622	6.17E-11	1.55E-08
ENSMUSG0	Ii5ra	60.62394	-23.81784424	3.646095	-6.53243	6.47E-11	1.56E-08
ENSMUSG0	A430010J10Rik	39.73048	-23.80022009	3.642734	-6.53362	6.42E-11	1.56E-08
ENSMUSG0	Ifi204	109.4125	7.857904197	1.202711	6.533494	6.43E-11	1.56E-08
ENSMUSG0	Gm26582	44.08816	17.48166906	2.679248	6.524841	6.81E-11	1.62E-08
ENSMUSG0	Gm38708	60.67505	-20.63225749	3.184322	-6.47932	9.21E-11	2.17E-08
ENSMUSG0	Gucy1a3	840.0776	5.788266898	0.897597	6.448628	1.13E-10	2.62E-08
ENSMUSG0	Gm12404	59.95887	19.36870802	3.018678	6.416288	1.40E-10	3.20E-08
ENSMUSG0	Cd300ld	57.09509	19.35370633	3.040213	6.365904	1.94E-10	4.40E-08
ENSMUSG0	Gm24545	63.86175	-23.42649655	3.687976	-6.35213	2.12E-10	4.76E-08
ENSMUSG0	AC102569.1	39.18871	-23.85874937	3.758636	-6.34771	2.19E-10	4.84E-08
ENSMUSG0	Gata5	196.3264	11.06197853	1.744506	6.341037	2.28E-10	4.99E-08
ENSMUSG0	Aadat	92.296	16.31809922	2.576849	6.33258	2.41E-10	5.22E-08
ENSMUSG0	Dab2	4895.062	1.718059642	0.271465	6.328849	2.47E-10	5.28E-08
ENSMUSG0	Gm44200	43.44744	18.79908873	2.972497	6.324342	2.54E-10	5.38E-08
ENSMUSG0	Sema6a	2775.744	-1.30840522	0.207074	-6.31853	2.64E-10	5.52E-08
ENSMUSG0	AC152922.2	75.01826	19.47622295	3.09276	6.29736	3.03E-10	6.26E-08
ENSMUSG0	Clu	1650.312	-2.228141039	0.355372	-6.26988	3.61E-10	7.39E-08
ENSMUSG0	Sec61b	1217.913	1.370416238	0.218655	6.267486	3.67E-10	7.43E-08
ENSMUSG0	Akr1b3	795.0817	2.340175801	0.374825	6.243376	4.28E-10	8.57E-08

ENSMUSG0	AC154248.1	55.77818	-23.80429403	3.814958	-6.23973	4.38E-10	8.59E-08
ENSMUSG0	P2ry14	63.4431	19.52870647	3.129361	6.240477	4.36E-10	8.59E-08
ENSMUSG0	Hip1r	1460.953	-1.47789443	0.23696	-6.23688	4.46E-10	8.66E-08
ENSMUSG0	Epg5	592.1482	2.220686142	0.356391	6.231046	4.63E-10	8.90E-08
ENSMUSG0	Lgals1-ps1	57.2681	-23.98642366	3.854539	-6.2229	4.88E-10	9.28E-08
ENSMUSG0	Trh	61.21672	17.53335109	2.821858	6.213407	5.18E-10	9.76E-08
ENSMUSG0	Syne2	7323.968	-0.903530717	0.145748	-6.19928	5.67E-10	1.06E-07
ENSMUSG0	CT025660.2	123.0312	10.4735641	1.6967	6.172903	6.70E-10	1.24E-07
ENSMUSG0	Igfbp3	1969.544	-1.39233863	0.225646	-6.17046	6.81E-10	1.24E-07
ENSMUSG0	Hspa1b	427.5878	-3.045317398	0.493692	-6.16845	6.90E-10	1.25E-07
ENSMUSG0	Ccl2	180.4648	11.39658702	1.848106	6.16663	6.98E-10	1.25E-07
ENSMUSG0	Stra6l	63.84902	18.06757068	2.934867	6.156179	7.45E-10	1.32E-07
ENSMUSG0	Cxcl14	168.5412	9.707293218	1.577551	6.153395	7.58E-10	1.33E-07
ENSMUSG0	Mdk	15780.38	-0.574633453	0.093443	-6.14953	7.77E-10	1.34E-07
ENSMUSG0	Igf2	60226.7	0.457594239	0.074412	6.149433	7.78E-10	1.34E-07
ENSMUSG0	Soat2	59.92895	19.51839621	3.181331	6.135293	8.50E-10	1.45E-07
ENSMUSG0	Dock2	251.606	3.937524888	0.642268	6.13066	8.75E-10	1.47E-07
ENSMUSG0	Pla2g4a	388.1737	4.048454809	0.660351	6.130763	8.75E-10	1.47E-07
ENSMUSG0	Gm28410	49.70325	-24.09929855	3.93288	-6.12765	8.92E-10	1.49E-07
ENSMUSG0	Csf2rb	150.5647	11.3588877	1.855988	6.120129	9.35E-10	1.54E-07
ENSMUSG0	Btd	303.6874	4.223130156	0.690274	6.118052	9.47E-10	1.55E-07
ENSMUSG0	Gm10676	54.92132	16.33633901	2.671409	6.115252	9.64E-10	1.55E-07
ENSMUSG0	D630044L22Rik	64.5906	17.62338813	2.882078	6.114819	9.67E-10	1.55E-07
ENSMUSG0	Gm2108	62.48783	-24.37843431	3.991073	-6.10824	1.01E-09	1.61E-07
ENSMUSG0	Sh3gl2	127.3389	-4.004668578	0.656514	-6.0999	1.06E-09	1.68E-07
ENSMUSG0	Tesk2	140.7661	3.831057304	0.633603	6.046465	1.48E-09	2.32E-07
ENSMUSG0	Ror1	1086.698	-2.360735467	0.390812	-6.0406	1.54E-09	2.39E-07
ENSMUSG0	Tnnc1	151.672	5.397523539	0.894263	6.03572	1.58E-09	2.44E-07
ENSMUSG0	Gm44237	96.40371	18.68471224	3.105927	6.015824	1.79E-09	2.74E-07
ENSMUSG0	Dtd1	341.7419	2.337486169	0.388819	6.011753	1.84E-09	2.79E-07
ENSMUSG0	AV039307	32.67234	-24.3596101	4.053547	-6.00946	1.86E-09	2.80E-07
ENSMUSG0	Zim1	1188.401	1.846275337	0.307399	6.006125	1.90E-09	2.84E-07
ENSMUSG0	Rap1b	3299.005	0.976595021	0.162761	6.00018	1.97E-09	2.92E-07
ENSMUSG0	Gm14011	156.6463	17.84566033	2.976929	5.994654	2.04E-09	3.00E-07
ENSMUSG0	Gm8420	85.93886	-10.57712762	1.770171	-5.9752	2.30E-09	3.35E-07
ENSMUSG0	Abca2	1837.651	-1.384900225	0.232194	-5.96442	2.46E-09	3.55E-07
ENSMUSG0	Tnni1	397.2444	7.358864578	1.235961	5.953962	2.62E-09	3.76E-07
ENSMUSG0	Pdzd9	47.24111	-24.47076088	4.113079	-5.9495	2.69E-09	3.83E-07
ENSMUSG0	Hmcn2	64.78619	18.55993144	3.121441	5.94595	2.75E-09	3.89E-07
ENSMUSG0	Eya1	2358.226	-2.028212716	0.34514	-5.8765	4.19E-09	5.87E-07
ENSMUSG0	Gm9540	88.4666	17.35463909	2.953584	5.87579	4.21E-09	5.87E-07
ENSMUSG0	A2ml1	40.19686	-24.61859665	4.202286	-5.85838	4.67E-09	6.47E-07
ENSMUSG0	Gm14508	95.85065	18.18268736	3.109653	5.847177	5.00E-09	6.87E-07
ENSMUSG0	Mthfd2	681.1464	2.229250829	0.382463	5.828667	5.59E-09	7.62E-07
ENSMUSG0	Dusp3	790.8223	1.673627573	0.287473	5.821852	5.82E-09	7.88E-07
ENSMUSG0	Espn	814.2443	-1.638447906	0.282585	-5.79807	6.71E-09	9.02E-07
ENSMUSG0	Gfm1	1244.139	1.484414917	0.257221	5.770964	7.88E-09	1.05E-06
ENSMUSG0	Bcas3os1	56.30281	18.94555756	3.283153	5.770538	7.90E-09	1.05E-06

ENSMUSG0	Cdh15	97.27372	-8.473913472	1.469471	-5.76664	8.09E-09	1.06E-06
ENSMUSG0	Firre	3059.264	-1.471185304	0.255286	-5.76289	8.27E-09	1.08E-06
ENSMUSG0	D030055H07Rik	48.02306	18.74537373	3.257586	5.754376	8.70E-09	1.13E-06
ENSMUSG0	Otop1	42.7625	-24.2084088	4.208474	-5.7523	8.80E-09	1.13E-06
ENSMUSG0	Tnrc18	9705.745	-0.710603067	0.123633	-5.74768	9.05E-09	1.16E-06
ENSMUSG0	Gm6058	42.609	18.85802948	3.284634	5.741288	9.40E-09	1.19E-06
ENSMUSG0	Npl	499.4741	4.101735693	0.716013	5.728577	1.01E-08	1.27E-06
ENSMUSG0	Gm9008	78.09086	7.722671026	1.347929	5.729288	1.01E-08	1.27E-06
ENSMUSG0	H2-K1	231.7461	3.455843867	0.604098	5.720663	1.06E-08	1.32E-06
ENSMUSG0	Irf5	347.0064	4.143171378	0.724443	5.719112	1.07E-08	1.33E-06
ENSMUSG0	Gm7832	178.6731	-4.209440333	0.74056	-5.68413	1.31E-08	1.62E-06
ENSMUSG0	Fat1	11029.89	-0.765735742	0.13474	-5.68305	1.32E-08	1.62E-06
ENSMUSG0	Col2a1	12221.78	-1.162599673	0.204754	-5.67802	1.36E-08	1.65E-06
ENSMUSG0	Gfra2	209.7548	9.478484832	1.669495	5.677457	1.37E-08	1.65E-06
ENSMUSG0	Nudt19	323.6504	3.372554021	0.594389	5.673981	1.40E-08	1.67E-06
ENSMUSG0	Gm37666	78.02127	16.55113511	2.917654	5.672755	1.41E-08	1.67E-06
ENSMUSG0	Foxl1	387.9958	9.503469942	1.676025	5.670242	1.43E-08	1.69E-06
ENSMUSG0	Casc4	1523.453	0.970788885	0.171317	5.666633	1.46E-08	1.71E-06
ENSMUSG0	Platr9	42.41493	-23.79898903	4.202013	-5.66371	1.48E-08	1.73E-06
ENSMUSG0	Gm44763	59.25775	17.44672811	3.087849	5.650124	1.60E-08	1.85E-06
ENSMUSG0	Ccdc81	51.91618	18.55943826	3.284203	5.651124	1.59E-08	1.85E-06
ENSMUSG0	Cd46	101.1959	17.18196623	3.04194	5.648359	1.62E-08	1.86E-06
ENSMUSG0	Gm44430	46.80395	-24.37885284	4.316995	-5.64718	1.63E-08	1.86E-06
ENSMUSG0	Gm15487	117.7518	4.376087565	0.775967	5.639528	1.71E-08	1.92E-06
ENSMUSG0	Serpina3g	76.64712	17.64625874	3.128787	5.639967	1.70E-08	1.92E-06
ENSMUSG0	Cdh13	91.22902	10.10070789	1.791929	5.63678	1.73E-08	1.94E-06
ENSMUSG0	Epha7	1879.886	-1.229537702	0.218491	-5.6274	1.83E-08	2.04E-06
ENSMUSG0	AC123834.1	39.3958	17.86031623	3.177741	5.620445	1.90E-08	2.11E-06
ENSMUSG0	Traf3ip3	71.30602	10.44071768	1.861199	5.609672	2.03E-08	2.23E-06
ENSMUSG0	Kcnf1	57.58225	17.1166698	3.053187	5.606166	2.07E-08	2.26E-06
ENSMUSG0	Epcam	1345.161	-2.170125724	0.387233	-5.60419	2.09E-08	2.28E-06
ENSMUSG0	Gm45091	37.91403	-24.04603701	4.293357	-5.60075	2.13E-08	2.31E-06
ENSMUSG0	Mfsd4b1	45.25847	17.92538792	3.208456	5.586921	2.31E-08	2.49E-06
ENSMUSG0	Myl2	152.609	7.35742535	1.322443	5.563509	2.64E-08	2.83E-06
ENSMUSG0	Aldh1a2	4952.474	2.418224602	0.435342	5.554774	2.78E-08	2.96E-06
ENSMUSG0	Tmem53	56.93302	18.56643137	3.34991	5.542368	2.98E-08	3.16E-06
ENSMUSG0	Gm21960	37.09572	-24.06511314	4.34431	-5.53946	3.03E-08	3.19E-06
ENSMUSG0	Gm29101	51.54107	-17.83948244	3.228093	-5.52632	3.27E-08	3.42E-06
ENSMUSG0	Ccl4	75.5922	10.19569406	1.845306	5.525206	3.29E-08	3.42E-06
ENSMUSG0	Nol3	78.93711	17.66932495	3.201595	5.518913	3.41E-08	3.53E-06
ENSMUSG0	Cd14	77.02987	10.03522588	1.820787	5.511477	3.56E-08	3.66E-06
ENSMUSG0	Irx1	631.7702	-2.234539881	0.405812	-5.50634	3.66E-08	3.75E-06
ENSMUSG0	Egr4	220.6004	-16.01090283	2.918208	-5.48655	4.10E-08	4.17E-06
ENSMUSG0	Trdn	54.15822	18.23131935	3.323918	5.484889	4.14E-08	4.19E-06
ENSMUSG0	Ccl3	432.0507	2.313692259	0.421932	5.483567	4.17E-08	4.20E-06
ENSMUSG0	4930412C18Rik	99.0056	17.79791861	3.249825	5.476577	4.34E-08	4.34E-06
ENSMUSG0	Ptx3	459.3126	-2.83461887	0.517754	-5.47484	4.38E-08	4.36E-06
ENSMUSG0	Otx1	253.8083	-5.105645024	0.933541	-5.46912	4.52E-08	4.48E-06

ENSMUSG0	Tnc	1646.453	1.897423688	0.347141	5.465861	4.61E-08	4.54E-06
ENSMUSG0	Gm26803	38.07114	-23.93552313	4.391033	-5.451	5.01E-08	4.91E-06
ENSMUSG0	Stmn2	647.5698	-1.880532986	0.345329	-5.44562	5.16E-08	5.03E-06
ENSMUSG0	Fosb	16183.14	0.582826129	0.107053	5.444299	5.20E-08	5.05E-06
ENSMUSG0	Myl3	96.56439	11.03664205	2.027998	5.442136	5.26E-08	5.08E-06
ENSMUSG0	Gm13070	35.05795	-23.95128568	4.401977	-5.44103	5.30E-08	5.09E-06
ENSMUSG0	5033428122Rik	158.1739	8.551950681	1.576074	5.426111	5.76E-08	5.50E-06
ENSMUSG0	Clk1	5778.534	-0.660974837	0.121963	-5.41949	5.98E-08	5.67E-06
ENSMUSG0	P2ry6	123.9064	7.275270534	1.34255	5.418996	5.99E-08	5.67E-06
ENSMUSG0	Akt3	2148.181	-1.052194503	0.194577	-5.4076	6.39E-08	6.01E-06
ENSMUSG0	Osr1	665.0012	8.410731241	1.556552	5.403437	6.54E-08	6.12E-06
ENSMUSG0	Ltbp4	1924.416	1.391021241	0.257752	5.396738	6.79E-08	6.32E-06
ENSMUSG0	Gucy2c	39.73815	18.46171863	3.433002	5.377718	7.54E-08	6.99E-06
ENSMUSG0	B430010123Rik	38.80334	17.20646532	3.205283	5.368157	7.95E-08	7.34E-06
ENSMUSG0	Olf394	33.30731	-24.11068048	4.492746	-5.36658	8.02E-08	7.37E-06
ENSMUSG0	Tfap2b	335.0474	3.593251573	0.669776	5.364859	8.10E-08	7.40E-06
ENSMUSG0	Akap12	11311.42	-1.108603723	0.207041	-5.3545	8.58E-08	7.80E-06
ENSMUSG0	Elavl4	782.7707	-1.654048923	0.30905	-5.35204	8.70E-08	7.87E-06
ENSMUSG0	Pla2g6	690.0606	1.610940365	0.301953	5.335066	9.55E-08	8.60E-06
ENSMUSG0	Tmc1	94.67459	17.71197196	3.328296	5.321633	1.03E-07	9.22E-06
ENSMUSG0	Ddn	670.7083	8.067219669	1.516499	5.319635	1.04E-07	9.27E-06
ENSMUSG0	Eya4	1713.959	-1.794944039	0.337852	-5.31281	1.08E-07	9.58E-06
ENSMUSG0	Muc19	52.56402	19.92466357	3.753995	5.307589	1.11E-07	9.82E-06
ENSMUSG0	AC134860.4	30.63216	-23.80931607	4.487659	-5.30551	1.12E-07	9.88E-06
ENSMUSG0	Gas7	1049.844	1.690865871	0.320394	5.277457	1.31E-07	1.15E-05
ENSMUSG0	Gm15384	36.74032	-23.90435678	4.530657	-5.27613	1.32E-07	1.15E-05
ENSMUSG0	Gm44725	56.2015	-25.21366196	4.785165	-5.26913	1.37E-07	1.19E-05
ENSMUSG0	Gm27634	39.16019	-23.98784376	4.55299	-5.26859	1.37E-07	1.19E-05
ENSMUSG0	Pdcd6ip	4322.222	0.727579188	0.138279	5.261682	1.43E-07	1.23E-05
ENSMUSG0	Tlr13	67.02472	9.571882837	1.819621	5.260372	1.44E-07	1.23E-05
ENSMUSG0	Gcdh	511.5592	-1.788241944	0.340196	-5.2565	1.47E-07	1.25E-05
ENSMUSG0	Ccdc155	56.48082	16.69835929	3.189986	5.234619	1.65E-07	1.40E-05
ENSMUSG0	Il23a	58.16705	18.48306939	3.53111	5.23435	1.66E-07	1.40E-05
ENSMUSG0	Cacnb3	2026.67	-1.242359988	0.237475	-5.23154	1.68E-07	1.41E-05
ENSMUSG0	Nox1	32.13173	-23.6818452	4.531325	-5.22625	1.73E-07	1.45E-05
ENSMUSG0	Alg1	317.4679	3.148255403	0.602791	5.222802	1.76E-07	1.47E-05
ENSMUSG0	Bcam	4898.582	-0.899569235	0.172501	-5.21486	1.84E-07	1.53E-05
ENSMUSG0	Efcab7	137.0834	-4.527300623	0.868948	-5.2101	1.89E-07	1.56E-05
ENSMUSG0	Pde4dip	2063.578	-1.66683262	0.319975	-5.20926	1.90E-07	1.56E-05
ENSMUSG0	Enpp2	963.1493	-1.416395408	0.272632	-5.19526	2.04E-07	1.67E-05
ENSMUSG0	Gm43011	51.27617	16.24457574	3.126427	5.195892	2.04E-07	1.67E-05
ENSMUSG0	4632427E13Rik	143.7506	-5.810105578	1.118918	-5.19261	2.07E-07	1.68E-05
ENSMUSG0	Prlr	70.85363	8.771564523	1.69329	5.180189	2.22E-07	1.78E-05
ENSMUSG0	AC124595.1	39.40457	16.71668025	3.226788	5.180594	2.21E-07	1.78E-05
ENSMUSG0	Ch25h	52.54332	15.85508421	3.062588	5.177022	2.25E-07	1.81E-05
ENSMUSG0	Cd80	56.27539	18.18258156	3.513353	5.175278	2.28E-07	1.81E-05
ENSMUSG0	Pou3f3	1420.985	-1.632797541	0.316163	-5.16442	2.41E-07	1.92E-05
ENSMUSG0	Postn	2268.397	1.495387745	0.289908	5.158147	2.49E-07	1.97E-05

ENSMUSG0	Gm44627	156.1804	-24.6603663	4.785065	-5.15361	2.56E-07	2.01E-05
ENSMUSG0	Gm16134	52.57983	-24.65923381	4.785199	-5.15323	2.56E-07	2.01E-05
ENSMUSG0	Bmp3	422.8039	-3.629383355	0.705434	-5.14489	2.68E-07	2.09E-05
ENSMUSG0	Camk2g	1793.058	-0.896236605	0.174499	-5.13606	2.81E-07	2.18E-05
ENSMUSG0	4932412D23Rik	50.17134	18.76185465	3.654337	5.134133	2.83E-07	2.20E-05
ENSMUSG0	Magi2	321.0078	4.612610115	0.899525	5.127831	2.93E-07	2.26E-05
ENSMUSG0	Slc22a17	2363.752	-1.095409871	0.213863	-5.12203	3.02E-07	2.32E-05
ENSMUSG0	Meox1	300.7599	8.373547431	1.636998	5.115185	3.13E-07	2.40E-05
ENSMUSG0	Gbbp111	1754.73	-1.453152389	0.284434	-5.10893	3.24E-07	2.47E-05
ENSMUSG0	Gm12208	47.78085	-24.37202396	4.785249	-5.09316	3.52E-07	2.67E-05
ENSMUSG0	Ampd3	109.281	4.168097166	0.820947	5.077183	3.83E-07	2.90E-05
ENSMUSG0	Scd1	565.3266	-2.213313842	0.436439	-5.0713	3.95E-07	2.97E-05
ENSMUSG0	9430041J12Rik	46.80962	-24.25447223	4.785261	-5.06858	4.01E-07	3.01E-05
ENSMUSG0	Ccdc113	49.68197	19.39395332	3.8295	5.064356	4.10E-07	3.06E-05
ENSMUSG0	AC127337.2	60.48994	-6.22508158	1.229521	-5.06301	4.13E-07	3.07E-05
ENSMUSG0	1110008P14Rik	127.8669	3.182059465	0.629026	5.05871	4.22E-07	3.13E-05
ENSMUSG0	Nr1d2	485.8134	2.941855428	0.581696	5.057374	4.25E-07	3.14E-05
ENSMUSG0	Gprasp1	3220.828	-0.985408843	0.19493	-5.0552	4.30E-07	3.16E-05
ENSMUSG0	Fam46a	536.0169	-2.415817944	0.478908	-5.04443	4.55E-07	3.33E-05
ENSMUSG0	Dok6	55.29467	-18.09296788	3.587575	-5.04323	4.58E-07	3.34E-05
ENSMUSG0	A230083N12Rik	41.849	-24.12346555	4.785334	-5.04113	4.63E-07	3.36E-05
ENSMUSG0	Trp53tg5	43.43046	-24.11955451	4.785309	-5.04033	4.65E-07	3.36E-05
ENSMUSG0	Matr3	6728.906	-0.505667071	0.100363	-5.0384	4.69E-07	3.39E-05
ENSMUSG0	Gm14139	37.82455	-24.10077649	4.785403	-5.03631	4.75E-07	3.41E-05
ENSMUSG0	Ptk6	39.96434	-24.0541149	4.785483	-5.02648	5.00E-07	3.57E-05
ENSMUSG0	Dync2h1	1744.668	-1.317779696	0.262412	-5.02179	5.12E-07	3.64E-05
ENSMUSG0	Tmem110	401.3704	2.365982615	0.471139	5.021838	5.12E-07	3.64E-05
ENSMUSG0	A230085B16Rik	32.88405	-24.00466212	4.785525	-5.0161	5.27E-07	3.73E-05
ENSMUSG0	Gm28802	32.32692	-23.99635687	4.785528	-5.01436	5.32E-07	3.75E-05
ENSMUSG0	Gm22395	44.85949	-23.98537823	4.785395	-5.0122	5.38E-07	3.78E-05
ENSMUSG0	Sfrp1	3977.199	-0.76378695	0.152409	-5.01144	5.40E-07	3.78E-05
ENSMUSG0	Nudt12os	42.0467	-23.94486023	4.785356	-5.00378	5.62E-07	3.92E-05
ENSMUSG0	F830208F22Rik	34.79126	-23.93612921	4.785534	-5.00177	5.68E-07	3.95E-05
ENSMUSG0	Zfp729b	237.4631	3.043970089	0.608798	4.999968	5.73E-07	3.97E-05
ENSMUSG0	Tdrd5	140.774	8.564494932	1.714144	4.996367	5.84E-07	4.03E-05
ENSMUSG0	Vmn1r69	31.89033	-23.90406751	4.785551	-4.99505	5.88E-07	4.04E-05
ENSMUSG0	Gm8116	110.2067	6.584220158	1.318943	4.992043	5.97E-07	4.09E-05
ENSMUSG0	Cd5l	47.81763	19.8166036	3.972005	4.989068	6.07E-07	4.14E-05
ENSMUSG0	Zfp985	52.17233	15.2971812	3.067336	4.987123	6.13E-07	4.16E-05
ENSMUSG0	Gm14198	33.18323	-23.85733867	4.785511	-4.98533	6.19E-07	4.19E-05
ENSMUSG0	AC140264.2	40.02197	-23.78129835	4.78547	-4.96948	6.71E-07	4.53E-05
ENSMUSG0	Ccr1	67.60037	10.01993422	2.016759	4.968336	6.75E-07	4.54E-05
ENSMUSG0	Gm15326	48.71435	15.81304742	3.184057	4.96632	6.82E-07	4.57E-05
ENSMUSG0	Pcdha7	34.66686	-23.76274044	4.785465	-4.96561	6.85E-07	4.57E-05
ENSMUSG0	Gm29560	82.73534	17.74013058	3.573171	4.964815	6.88E-07	4.57E-05
ENSMUSG0	Klc1	3538.041	-0.909014146	0.183301	-4.95913	7.08E-07	4.69E-05
ENSMUSG0	Epn1	4926.221	0.601807462	0.121568	4.950367	7.41E-07	4.89E-05
ENSMUSG0	AC153544.2	35.58231	-23.40243459	4.731351	-4.94625	7.57E-07	4.98E-05

ENSMUSG0	Gm34727	30.09331	-23.65700283	4.785588	-4.94338	7.68E-07	5.03E-05
ENSMUSG0	Smarcal1	1360.675	-0.889130117	0.18002	-4.93906	7.85E-07	5.13E-05
ENSMUSG0	Ddx17	11986.5	-0.412765866	0.083584	-4.93832	7.88E-07	5.13E-05
ENSMUSG0	Nrtn	117.6039	9.492123135	1.922479	4.93744	7.92E-07	5.14E-05
ENSMUSG0	Rara	1819.372	-1.053442641	0.213482	-4.93457	8.03E-07	5.19E-05
ENSMUSG0	Gm44882	32.27466	-23.60092042	4.785528	-4.93173	8.15E-07	5.25E-05
ENSMUSG0	Mup12	31.02375	-23.59112982	4.785575	-4.92963	8.24E-07	5.29E-05
ENSMUSG0	Clec18a	1640.247	7.697488547	1.562079	4.92772	8.32E-07	5.33E-05
ENSMUSG0	AC122293.2	35.8261	-23.53968132	4.78557	-4.91889	8.70E-07	5.55E-05
ENSMUSG0	Rap1gap2	492.4663	2.364942558	0.48099	4.916822	8.80E-07	5.59E-05
ENSMUSG0	Pole2	324.7211	2.178432507	0.443342	4.913667	8.94E-07	5.65E-05
ENSMUSG0	Gm37981	45.88315	16.22388743	3.301348	4.914322	8.91E-07	5.65E-05
ENSMUSG0	Klhdc7a	78.83295	8.698292537	1.770536	4.912802	8.98E-07	5.65E-05
ENSMUSG0	Gm7142	66.53293	-23.49857025	4.785592	-4.91027	9.09E-07	5.71E-05
ENSMUSG0	Tnip1	951.2973	1.416280357	0.288616	4.907153	9.24E-07	5.74E-05
ENSMUSG0	Casz1	1142.016	3.326429385	0.677861	4.907246	9.24E-07	5.74E-05
ENSMUSG0	Fam167b	69.19361	8.828333628	1.798952	4.907487	9.23E-07	5.74E-05
ENSMUSG0	Ina	568.3573	-2.280049219	0.465195	-4.90128	9.52E-07	5.89E-05
ENSMUSG0	Nthl1	238.984	-2.70394427	0.551892	-4.89941	9.61E-07	5.92E-05
ENSMUSG0	C130075A20Rik	49.42553	14.8931427	3.039883	4.899248	9.62E-07	5.92E-05
ENSMUSG0	Actc1	738.8159	2.389199649	0.487909	4.896812	9.74E-07	5.97E-05
ENSMUSG0	Rgs5	1159.567	2.844602048	0.583854	4.872112	1.10E-06	6.75E-05
ENSMUSG0	Upk3b	317.1736	4.901492131	1.00693	4.86776	1.13E-06	6.87E-05
ENSMUSG0	Frem2	6544.683	-1.072272342	0.220365	-4.8659	1.14E-06	6.90E-05
ENSMUSG0	AC126549.1	56.14738	16.52970644	3.397091	4.865841	1.14E-06	6.90E-05
ENSMUSG0	Olf1116	54.44023	17.15091583	3.53711	4.84885	1.24E-06	7.49E-05
ENSMUSG0	Vwa5a	656.979	1.414767552	0.291966	4.845664	1.26E-06	7.59E-05
ENSMUSG0	Popdc2	91.25097	10.95530412	2.262226	4.84271	1.28E-06	7.68E-05
ENSMUSG0	Milr1	91.3096	5.649236908	1.167047	4.840626	1.29E-06	7.73E-05
ENSMUSG0	Ebf1	1456.244	-1.577327097	0.326063	-4.8375	1.31E-06	7.83E-05
ENSMUSG0	Hk3	172.7998	5.190728921	1.073371	4.835912	1.33E-06	7.87E-05
ENSMUSG0	Gxylt2	1133.61	-1.433761808	0.296912	-4.82892	1.37E-06	8.00E-05
ENSMUSG0	Pja1	2653.912	1.070620878	0.221607	4.831159	1.36E-06	8.00E-05
ENSMUSG0	Entpd5	330.0158	3.040232433	0.629501	4.829593	1.37E-06	8.00E-05
ENSMUSG0	Sh2d4a	197.7431	8.272662453	1.713119	4.829006	1.37E-06	8.00E-05
ENSMUSG0	AC160029.1	53.95063	16.31356665	3.376613	4.831341	1.36E-06	8.00E-05
ENSMUSG0	Gm5049	61.96087	18.18090278	3.763928	4.8303	1.36E-06	8.00E-05
ENSMUSG0	AC126257.1	62.66267	15.61743983	3.235607	4.826742	1.39E-06	8.06E-05
ENSMUSG0	Six2	2474.324	-2.476963677	0.514073	-4.81831	1.45E-06	8.38E-05
ENSMUSG0	Rrad	60.76837	9.073954249	1.885938	4.811375	1.50E-06	8.65E-05
ENSMUSG0	Igsf9	2549.109	-1.281997662	0.266527	-4.81	1.51E-06	8.69E-05
ENSMUSG0	Neo1	5207.46	-0.80035929	0.166446	-4.80852	1.52E-06	8.72E-05
ENSMUSG0	Zc3h12a	77.4581	6.819206632	1.419912	4.802555	1.57E-06	8.96E-05
ENSMUSG0	H19	74359.78	0.477714531	0.099713	4.790903	1.66E-06	9.47E-05
ENSMUSG0	Stk38l	381.4549	2.062757675	0.430894	4.787163	1.69E-06	9.62E-05
ENSMUSG0	Gm37931	49.52071	18.20135703	3.804877	4.783691	1.72E-06	9.76E-05
ENSMUSG0	Hoxc4	708.7556	7.401671291	1.547485	4.783034	1.73E-06	9.76E-05
ENSMUSG0	Plxdc2	1293.011	-2.033743262	0.42532	-4.78168	1.74E-06	9.80E-05

ENSMUSG0	Heyl	1541.072	1.837199565	0.384395	4.779464	1.76E-06	9.87E-05
ENSMUSG0	Hspb7	69.81659	10.45315047	2.190011	4.773104	1.81E-06	0.000101
ENSMUSG0	Gm38162	59.88934	14.15017472	2.964509	4.773194	1.81E-06	0.000101
ENSMUSG0	Cxadr	1673.874	-1.550911482	0.325581	-4.76352	1.90E-06	0.000106
ENSMUSG0	B230217C12Rik	78.32907	5.511991835	1.157862	4.760492	1.93E-06	0.000107
ENSMUSG0	Sh3bgr	54.12204	8.933691876	1.883936	4.742036	2.12E-06	0.000117
ENSMUSG0	Ptpro	1496.113	1.836000769	0.387239	4.741255	2.12E-06	0.000117
ENSMUSG0	Tex16	79.34009	7.87987364	1.662632	4.739396	2.14E-06	0.000118
ENSMUSG0	Rpn1	6495.439	0.702608571	0.148424	4.733804	2.20E-06	0.000121
ENSMUSG0	Rpl26	7338.602	-0.771268241	0.162962	-4.73282	2.21E-06	0.000121
ENSMUSG0	Ptprc	516.9726	2.356198572	0.497965	4.731656	2.23E-06	0.000121
ENSMUSG0	4931414P19Rik	245.8816	4.047807041	0.856182	4.72774	2.27E-06	0.000123
ENSMUSG0	Cwc22	1493.335	-1.329399899	0.282436	-4.70691	2.52E-06	0.000136
ENSMUSG0	AC123620.1	66.32965	16.75943499	3.560384	4.707199	2.51E-06	0.000136
ENSMUSG0	Gm44510	56.0385	14.2122102	3.021091	4.704331	2.55E-06	0.000137
ENSMUSG0	Gm1966	49.92404	9.589513309	2.040569	4.699431	2.61E-06	0.00014
ENSMUSG0	Gm44940	77.32387	17.68006436	3.765993	4.694662	2.67E-06	0.000143
ENSMUSG0	Bmp2	790.4156	4.475565914	0.953823	4.692238	2.70E-06	0.000144
ENSMUSG0	Ascl1	101.0226	8.788803204	1.874043	4.689756	2.74E-06	0.000146
ENSMUSG0	Gm18829	53.01358	-10.88766142	2.326838	-4.67917	2.88E-06	0.000153
ENSMUSG0	Ica1l	75.12106	8.764705803	1.874839	4.67491	2.94E-06	0.000156
ENSMUSG0	9230110C19Rik	156.6104	4.028965648	0.862627	4.670576	3.00E-06	0.000159
ENSMUSG0	Sntg1	55.81517	-16.01355859	3.429456	-4.66942	3.02E-06	0.000159
ENSMUSG0	Cbx3-ps3	37.92441	18.34460244	3.933106	4.664152	3.10E-06	0.000163
ENSMUSG0	Snx20	43.35387	9.769260926	2.097484	4.65761	3.20E-06	0.000168
ENSMUSG0	A830011K09Rik	38.13831	16.06342858	3.454351	4.650201	3.32E-06	0.000173
ENSMUSG0	Kcnd3	213.2441	7.614332133	1.638917	4.645953	3.39E-06	0.000176
ENSMUSG0	Svopl	424.3235	-1.955162206	0.421234	-4.64151	3.46E-06	0.000179
ENSMUSG0	Col6a1	2170.831	-1.502680595	0.323741	-4.64161	3.46E-06	0.000179
ENSMUSG0	Gm44001	59.04055	17.39121737	3.751875	4.63534	3.56E-06	0.000184
ENSMUSG0	CT572999.2	62.67849	15.35452465	3.316689	4.629474	3.67E-06	0.000189
ENSMUSG0	Olf15	186.403	18.305527	3.954628	4.628887	3.68E-06	0.000189
ENSMUSG0	Zeb2	3972.311	0.772581434	0.167044	4.625006	3.75E-06	0.000192
ENSMUSG0	Zfp804a	65.59252	7.811212935	1.690471	4.62073	3.82E-06	0.000196
ENSMUSG0	Dach1	3465.131	-1.096048726	0.237344	-4.61797	3.88E-06	0.000197
ENSMUSG0	Cycs	769.865	1.514925581	0.328066	4.617743	3.88E-06	0.000197
ENSMUSG0	5330439K02Rik	48.39566	16.95026195	3.670111	4.618461	3.87E-06	0.000197
ENSMUSG0	Olf204	67.87914	18.51895388	4.011658	4.616284	3.91E-06	0.000198
ENSMUSG0	2610008E11Rik	814.0986	-1.286194255	0.278742	-4.61428	3.94E-06	0.000198
ENSMUSG0	Rsl1	44.95689	8.622641358	1.868257	4.61534	3.92E-06	0.000198
ENSMUSG0	Gm14817	69.41724	13.88906521	3.009689	4.614784	3.94E-06	0.000198
ENSMUSG0	March1	65.13335	6.433355943	1.395587	4.609784	4.03E-06	0.000202
ENSMUSG0	Dnm3	242.2308	-3.902507353	0.846893	-4.60803	4.07E-06	0.000203
ENSMUSG0	Gm44937	141.2058	-9.671400134	2.106219	-4.59183	4.39E-06	0.000219
ENSMUSG0	Prom1	1584.213	-1.281823701	0.279176	-4.59146	4.40E-06	0.000219
ENSMUSG0	B3gnt8	65.80428	8.260306177	1.800833	4.586935	4.50E-06	0.000223
ENSMUSG0	AC141476.1	92.55074	15.73787263	3.432322	4.585197	4.54E-06	0.000224
ENSMUSG0	Sim1	572.2985	6.82753888	1.489502	4.583773	4.57E-06	0.000224

ENSMUSG0	Stac2	503.3902	7.829169637	1.707865	4.584184	4.56E-06	0.000224
ENSMUSG0	Caln1	162.1513	-9.566557388	2.090449	-4.57632	4.73E-06	0.000231
ENSMUSG0	Skap2	608.1987	1.508682655	0.329621	4.577016	4.72E-06	0.000231
ENSMUSG0	Gm32842	122.7303	13.99540522	3.058394	4.576064	4.74E-06	0.000231
ENSMUSG0	Tnfaip2	644.2221	1.974256907	0.431655	4.573687	4.79E-06	0.000233
ENSMUSG0	Gm26516	159.9711	7.808723002	1.707569	4.573005	4.81E-06	0.000233
ENSMUSG0	Rps6ka3	3261.84	0.743782871	0.1627	4.571506	4.84E-06	0.000234
ENSMUSG0	Gm45258	119.1746	-11.52815055	2.524276	-4.56691	4.95E-06	0.000239
ENSMUSG0	Gm17791	80.52583	-16.31182888	3.573093	-4.56518	4.99E-06	0.00024
ENSMUSG0	Gm37262	151.1302	-21.82752974	4.787763	-4.55902	5.14E-06	0.000247
ENSMUSG0	Gm12333	64.33605	16.67183924	3.662407	4.552154	5.31E-06	0.000254
ENSMUSG0	Ctnna2	519.0184	-2.048356524	0.450278	-4.5491	5.39E-06	0.000257
ENSMUSG0	Rnase4	364.3325	1.953508877	0.429586	4.547427	5.43E-06	0.000259
ENSMUSG0	Wnk2	1071.335	-1.747551713	0.384787	-4.54161	5.58E-06	0.000265
ENSMUSG0	Gm43499	81.92611	-20.94645341	4.618858	-4.53499	5.76E-06	0.000273
ENSMUSG0	Gm13474	41.74835	-16.04468701	3.541275	-4.53077	5.88E-06	0.000278
ENSMUSG0	Chst10	238.888	-2.768433491	0.611349	-4.5284	5.94E-06	0.00028
ENSMUSG0	Fam91a1	2950.485	0.791580799	0.175078	4.52131	6.15E-06	0.000289
ENSMUSG0	Gm45833	254.2156	-4.63942477	1.026467	-4.5198	6.19E-06	0.000291
ENSMUSG0	Map1b	8827.503	-0.836613452	0.185299	-4.51493	6.33E-06	0.000296
ENSMUSG0	Lbh	2677.606	1.081592788	0.239549	4.515128	6.33E-06	0.000296
ENSMUSG0	Nav2	3157.117	-1.154995483	0.256098	-4.50998	6.48E-06	0.000302
ENSMUSG0	Inpp5j	36.87601	-10.09426385	2.238769	-4.50884	6.52E-06	0.000303
ENSMUSG0	mt-Rnr2	25624.03	-0.796664899	0.177096	-4.4985	6.84E-06	0.000317
ENSMUSG0	Ptprf	12733.95	-0.737321978	0.163946	-4.49734	6.88E-06	0.000318
ENSMUSG0	3110045C21Rik	44.37186	17.71666992	3.94011	4.496491	6.91E-06	0.000319
ENSMUSG0	Mia	43.52313	15.94273751	3.550524	4.490249	7.11E-06	0.000327
ENSMUSG0	Pf4	164.5458	8.697213136	1.939391	4.484508	7.31E-06	0.000335
ENSMUSG0	Hnf1b	1315.316	-7.124933993	1.590558	-4.47952	7.48E-06	0.000343
ENSMUSG0	1700018B08Rik	42.98245	17.79387478	3.972981	4.478721	7.51E-06	0.000343
ENSMUSG0	Slc2a12	55.62909	8.504592079	1.901238	4.473186	7.71E-06	0.000351
ENSMUSG0	A330035P11Rik	81.24508	7.985568272	1.786021	4.47115	7.78E-06	0.000354
ENSMUSG0	Pear1	2047.695	-1.164460415	0.260637	-4.46775	7.90E-06	0.000358
ENSMUSG0	Zfp422	1902.332	-0.909898982	0.203812	-4.46439	8.03E-06	0.000363
ENSMUSG0	Kcnmb4os2	117.6053	8.434336248	1.890701	4.460958	8.16E-06	0.000368
ENSMUSG0	AC131743.6	62.48116	5.204009877	1.167035	4.459171	8.23E-06	0.000369
ENSMUSG0	1600002K03Rik	111.5455	7.127159337	1.598237	4.459389	8.22E-06	0.000369
ENSMUSG0	Gm12098	51.18904	17.26825336	3.872321	4.459406	8.22E-06	0.000369
ENSMUSG0	Cd274	300.8857	-3.397352057	0.762338	-4.45649	8.33E-06	0.000371
ENSMUSG0	Gpr137b-ps	250.5679	-2.097548924	0.470672	-4.4565	8.33E-06	0.000371
ENSMUSG0	Hoxb5	318.017	6.626214668	1.486927	4.456315	8.34E-06	0.000371
ENSMUSG0	Dmgdh	89.73575	14.78138781	3.321286	4.450501	8.57E-06	0.00038
ENSMUSG0	Cyp11a1	539.9781	-8.648952246	1.943602	-4.44996	8.59E-06	0.00038
ENSMUSG0	Mucl2	42.83148	17.14503539	3.856456	4.445801	8.76E-06	0.000387
ENSMUSG0	Spock2	4595.506	-2.174457021	0.489309	-4.44393	8.83E-06	0.000389
ENSMUSG0	Bhlhe40	509.2868	-2.96027921	0.666806	-4.43949	9.02E-06	0.000396
ENSMUSG0	Zfp663	44.84298	9.552022719	2.15153	4.439641	9.01E-06	0.000396
ENSMUSG0	Nmrk1	225.3869	8.644442098	1.947806	4.438042	9.08E-06	0.000397

ENSMUSG0	Rem1	472.3733	7.324976083	1.650917	4.436915	9.13E-06	0.000398
ENSMUSG0	AC155249.1	54.89318	-7.815018825	1.762589	-4.43383	9.26E-06	0.000402
ENSMUSG0	Txndc16	599.369	-1.69332814	0.381917	-4.43376	9.26E-06	0.000402
ENSMUSG0	Nfatc4	1822.764	-1.242146678	0.280116	-4.43441	9.23E-06	0.000402
ENSMUSG0	Sesn1	684.0019	2.240242375	0.505511	4.43164	9.35E-06	0.000404
ENSMUSG0	Chchd10	190.4235	7.490654695	1.690227	4.431744	9.35E-06	0.000404
ENSMUSG0	Olf1372-ps1	79.97145	8.893958087	2.015319	4.413176	1.02E-05	0.000439
ENSMUSG0	Sfrp5	34.34854	9.405125049	2.138226	4.398565	1.09E-05	0.000468
ENSMUSG0	BC035044	62.25983	10.33587491	2.354098	4.390588	1.13E-05	0.000485
ENSMUSG0	Unc45b	116.3619	4.545904074	1.035574	4.389743	1.13E-05	0.000485
ENSMUSG0	Cdc40	930.9527	1.378373124	0.314174	4.387298	1.15E-05	0.00049
ENSMUSG0	Pcdh17	1542.876	-1.101725796	0.251173	-4.38633	1.15E-05	0.000491
ENSMUSG0	Phpt1	48.55111	8.448947746	1.928005	4.382222	1.17E-05	0.000499
ENSMUSG0	Gm45884	110.0452	-5.305695539	1.211034	-4.38113	1.18E-05	0.0005
ENSMUSG0	Asxl1	3621.632	-0.711970942	0.162732	-4.3751	1.21E-05	0.000513
ENSMUSG0	Gm43359	72.40443	6.242342305	1.427071	4.374233	1.22E-05	0.000514
ENSMUSG0	Erdr1	571.7819	2.743045984	0.628258	4.366115	1.26E-05	0.000532
ENSMUSG0	Snn	2088.639	-0.616707238	0.141278	-4.36521	1.27E-05	0.000534
ENSMUSG0	Tbx5	74.23929	8.074596601	1.85022	4.364128	1.28E-05	0.000535
ENSMUSG0	Etv4	1481.408	-2.007101963	0.460522	-4.35832	1.31E-05	0.000548
ENSMUSG0	Lat2	54.11851	9.301868804	2.134484	4.357901	1.31E-05	0.000548
ENSMUSG0	Adamts19	508.4757	-2.036693171	0.467737	-4.35436	1.33E-05	0.000556
ENSMUSG0	Cnmd	294.8467	-4.367962477	1.005114	-4.34574	1.39E-05	0.000577
ENSMUSG0	Rpp25	76.26952	8.406229549	1.941438	4.329898	1.49E-05	0.000618
ENSMUSG0	Nr2f1	4318.361	-1.2842285	0.29667	-4.32881	1.50E-05	0.00062
ENSMUSG0	Gm37906	43.35549	13.91077501	3.213917	4.328294	1.50E-05	0.00062
ENSMUSG0	Gm14221	45.98019	13.9347426	3.226632	4.318664	1.57E-05	0.000646
ENSMUSG0	Otp	125.6111	20.65263743	4.78547	4.315697	1.59E-05	0.000654
ENSMUSG0	Mapkapk2	3925.313	0.957178716	0.221961	4.312371	1.62E-05	0.000662
ENSMUSG0	Sh3rf3	138.1707	-4.676172956	1.0847	-4.31103	1.62E-05	0.000665
ENSMUSG0	Anp32b	8659.61	0.474064865	0.110027	4.308637	1.64E-05	0.000671
ENSMUSG0	Ascc1	435.3713	1.532038985	0.35573	4.306748	1.66E-05	0.000674
ENSMUSG0	O610040J01Rik	209.0298	7.736507307	1.796441	4.306576	1.66E-05	0.000674
ENSMUSG0	Wiz	4633.5	-0.522295578	0.121338	-4.30446	1.67E-05	0.000679
ENSMUSG0	Ttll10	128.966	-8.452761665	1.965211	-4.3012	1.70E-05	0.000688
ENSMUSG0	Slc23a2	1259.465	-0.926546583	0.215555	-4.29843	1.72E-05	0.000695
ENSMUSG0	Pkhd1	224.188	7.794021553	1.815917	4.292058	1.77E-05	0.000713
ENSMUSG0	Ctsw	36.15662	9.391475208	2.188208	4.291856	1.77E-05	0.000713
ENSMUSG0	Mfap3l	190.1949	-3.336063883	0.777768	-4.28928	1.79E-05	0.000719
ENSMUSG0	Gm9625	569.7766	-2.73326236	0.637826	-4.28528	1.83E-05	0.000731
ENSMUSG0	Usp2	326.2261	3.055852155	0.713454	4.283181	1.84E-05	0.000736
ENSMUSG0	Kdm5b	4323.338	-0.652938311	0.152566	-4.27972	1.87E-05	0.000746
ENSMUSG0	Egr1	24173.55	-0.546679043	0.127778	-4.27836	1.88E-05	0.000749
ENSMUSG0	Fth1	6564.896	0.633482853	0.148111	4.27709	1.89E-05	0.000752
ENSMUSG0	AC156795.1	113.1157	-11.49756226	2.689288	-4.27532	1.91E-05	0.000756
ENSMUSG0	Gas1	3736.087	-0.978408843	0.228999	-4.27254	1.93E-05	0.000762
ENSMUSG0	Arap1	1897.431	1.577010649	0.369082	4.27279	1.93E-05	0.000762
ENSMUSG0	Ccdc136	1378.917	-1.47751784	0.345869	-4.2719	1.94E-05	0.000763

ENSMUSG0	Kcns3	149.3939	7.182683977	1.682274	4.269628	1.96E-05	0.000769
ENSMUSG0	Farp1	5854.72	-0.607664544	0.142427	-4.26649	1.99E-05	0.000779
ENSMUSG0	Crocc2	57.2199	7.963698769	1.866813	4.265934	1.99E-05	0.000779
ENSMUSG0	Cdkn1c	15905.41	0.41977398	0.098415	4.265334	2.00E-05	0.000779
ENSMUSG0	Unc5c	4286.672	-1.01883632	0.239059	-4.26185	2.03E-05	0.00079
ENSMUSG0	Lsm5	561.813	1.907690629	0.447697	4.261116	2.03E-05	0.000791
ENSMUSG0	Rab5b	864.3323	-1.230017817	0.288754	-4.25975	2.05E-05	0.000794
ENSMUSG0	Acap3	1260.448	-1.36938898	0.321637	-4.25756	2.07E-05	0.0008
ENSMUSG0	Rab6b	323.2804	-1.860497405	0.437063	-4.25682	2.07E-05	0.000801
ENSMUSG0	Col11a2	626.783	-2.527452631	0.594105	-4.25422	2.10E-05	0.000809
ENSMUSG0	Vcam1	960.9138	-1.843968156	0.433642	-4.25228	2.12E-05	0.000814
ENSMUSG0	Dhx29	1286.006	1.612132116	0.379646	4.246412	2.17E-05	0.000834
ENSMUSG0	Mlx	396.3372	2.322017508	0.546886	4.245891	2.18E-05	0.000835
ENSMUSG0	Htra1	201.9164	-2.838694352	0.669189	-4.24199	2.22E-05	0.000847
ENSMUSG0	Tex264	637.9158	-1.248713619	0.294388	-4.24173	2.22E-05	0.000847
ENSMUSG0	Tek	2333.96	0.926320507	0.21848	4.239848	2.24E-05	0.000852
ENSMUSG0	Ipcef1	76.01734	9.12365513	2.152568	4.238498	2.25E-05	0.000856
ENSMUSG0	Nr2c2ap	58.64255	7.678679344	1.812675	4.236104	2.27E-05	0.000863
ENSMUSG0	Gm24644	46.14189	-10.4890438	2.478983	-4.23119	2.32E-05	0.000878
ENSMUSG0	Ccl6	50.48756	6.824342658	1.612866	4.231189	2.32E-05	0.000878
ENSMUSG0	Dlg4	2165.722	-1.308864903	0.309902	-4.22349	2.41E-05	0.000907
ENSMUSG0	Nmt2	1342.71	0.918419566	0.217506	4.222509	2.42E-05	0.000908
ENSMUSG0	Adamts8	39.83581	8.808659805	2.086052	4.222646	2.41E-05	0.000908
ENSMUSG0	Zswim5	499.2027	-1.594833813	0.377853	-4.22078	2.43E-05	0.000913
ENSMUSG0	Tcf24	51.50032	8.290088472	1.96841	4.211566	2.54E-05	0.000949
ENSMUSG0	Ccne1	1174.688	1.306811349	0.311037	4.201471	2.65E-05	0.00099
ENSMUSG0	Col4a3	161.9266	7.132662639	1.698252	4.200003	2.67E-05	0.000995
ENSMUSG0	Pde11a	65.6589	8.396517278	2.0019	4.194274	2.74E-05	0.001018
ENSMUSG0	Efh2	2067.362	1.256006765	0.299782	4.189732	2.79E-05	0.001037
ENSMUSG0	Vmn1r-ps15	86.30911	19.69633231	4.704785	4.186447	2.83E-05	0.00105
ENSMUSG0	Gm7251	69.62395	-5.329742124	1.27406	-4.18327	2.87E-05	0.001062
ENSMUSG0	Dlg1	2961.421	-0.574591973	0.137409	-4.18163	2.89E-05	0.001068
ENSMUSG0	Cd24a	7700.107	-0.505257566	0.121001	-4.17564	2.97E-05	0.001094
ENSMUSG0	Igf2r	12478.33	0.959169608	0.229764	4.174578	2.99E-05	0.001095
ENSMUSG0	Actn2	135.5873	8.447429056	2.023469	4.174725	2.98E-05	0.001095
ENSMUSG0	Lama5	6414.912	-0.751601344	0.180132	-4.17251	3.01E-05	0.001103
ENSMUSG0	Ninj1	297.0522	3.21654552	0.771815	4.16751	3.08E-05	0.001125
ENSMUSG0	Rbbp7	5411.494	0.765264319	0.184139	4.155905	3.24E-05	0.001182
ENSMUSG0	Large2	479.9788	-1.615283183	0.388804	-4.15449	3.26E-05	0.001187
ENSMUSG0	Aff3	1687.949	-1.041311903	0.250726	-4.15319	3.28E-05	0.001188
ENSMUSG0	Dpysl5	970.2435	-1.040214243	0.250467	-4.15309	3.28E-05	0.001188
ENSMUSG0	AC153522.1	68.66882	14.78366975	3.559806	4.152943	3.28E-05	0.001188
ENSMUSG0	Rimbp2	188.1509	6.730614164	1.62377	4.145054	3.40E-05	0.001227
ENSMUSG0	Col14a1	1186.233	-2.800387875	0.675679	-4.14456	3.40E-05	0.001228
ENSMUSG0	Poldip3	2719.689	0.804917359	0.194392	4.140684	3.46E-05	0.001246
ENSMUSG0	Plpp1	201.2953	2.548935562	0.615762	4.13948	3.48E-05	0.00125
ENSMUSG0	E330013P04Rik	133.0966	-5.887459175	1.422997	-4.13737	3.51E-05	0.001257
ENSMUSG0	Acvr1	975.6578	1.149303634	0.277777	4.137508	3.51E-05	0.001257

ENSMUSG0	Paip2b	1621.013	-0.753721061	0.182353	-4.1333	3.58E-05	0.001277
ENSMUSG0	Igf1r	6336.545	-0.627556366	0.151861	-4.13243	3.59E-05	0.001279
ENSMUSG0	Slc39a5	184.5041	6.690913657	1.619845	4.130588	3.62E-05	0.001287
ENSMUSG0	Otol1	51.29773	-8.308675793	2.012628	-4.12827	3.65E-05	0.001298
ENSMUSG0	Gm8091	43.91739	-17.99478931	4.360798	-4.12649	3.68E-05	0.001305
ENSMUSG0	AB124611	49.55012	8.205430779	1.989101	4.125195	3.70E-05	0.00131
ENSMUSG0	Shank1	693.2962	-1.433383299	0.347587	-4.12382	3.73E-05	0.001316
ENSMUSG0	Lrp2	1668.542	1.210436873	0.293628	4.122352	3.75E-05	0.001322
ENSMUSG0	Tfam	1179.588	-1.209612561	0.293695	-4.1186	3.81E-05	0.001338
ENSMUSG0	Pole	2352.443	0.876767444	0.212871	4.118779	3.81E-05	0.001338
ENSMUSG0	Gm11290	55.57311	17.2712259	4.193968	4.118111	3.82E-05	0.001339
ENSMUSG0	C130026I21Rik	42.68995	-16.12792698	3.916868	-4.11756	3.83E-05	0.001339
ENSMUSG0	Lrrc69	60.29502	15.89949206	3.865679	4.112988	3.91E-05	0.001364
ENSMUSG0	Gm23835	47.37768	19.66807359	4.786381	4.109174	3.97E-05	0.001384
ENSMUSG0	Fat3	821.1151	-1.471379652	0.358157	-4.1082	3.99E-05	0.001387
ENSMUSG0	Abcc8	44.74836	8.518947991	2.074844	4.105827	4.03E-05	0.001399
ENSMUSG0	Vmn1r-ps106	65.66443	-17.27239534	4.212366	-4.1004	4.12E-05	0.001429
ENSMUSG0	2610001J05Rik	372.7751	1.535006133	0.374711	4.09651	4.19E-05	0.001451
ENSMUSG0	Has3	134.1743	8.038699288	1.964298	4.092404	4.27E-05	0.001472
ENSMUSG0	Gm13333	172.5937	8.695815434	2.125084	4.091988	4.28E-05	0.001472
ENSMUSG0	B3galt5	107.2521	8.726750658	2.132476	4.092309	4.27E-05	0.001472
ENSMUSG0	H1f0	6202.913	-0.582987527	0.142489	-4.09147	4.29E-05	0.001472
ENSMUSG0	Tex261	1041.404	1.030048618	0.251787	4.090955	4.30E-05	0.001473
ENSMUSG0	Kcnn2	47.72032	7.981726691	1.952154	4.088677	4.34E-05	0.001485
ENSMUSG0	Sorbs1	1202.128	-1.118634247	0.273702	-4.08706	4.37E-05	0.001492
ENSMUSG0	Tob2	1619.014	-0.762960217	0.186865	-4.08295	4.45E-05	0.001515
ENSMUSG0	CT010463.2	41.11214	17.94484001	4.395315	4.08272	4.45E-05	0.001515
ENSMUSG0	Gm21284	60.81079	18.67085783	4.57429	4.081695	4.47E-05	0.001519
ENSMUSG0	B9d1	386.9422	-2.824922246	0.692869	-4.07714	4.56E-05	0.001544
ENSMUSG0	Agrn	15679.93	-0.682493429	0.167399	-4.07705	4.56E-05	0.001544
ENSMUSG0	Pfdn6	916.5172	1.744607985	0.428127	4.074974	4.60E-05	0.001552
ENSMUSG0	Hacd1	154.3474	3.746186008	0.91937	4.074733	4.61E-05	0.001552
ENSMUSG0	Tbxa2r	101.097	4.205826859	1.032226	4.074521	4.61E-05	0.001552
ENSMUSG0	Scel	88.93346	8.211200284	2.015524	4.073979	4.62E-05	0.001553
ENSMUSG0	Plch1	934.5754	-2.093311668	0.514321	-4.07005	4.70E-05	0.001577
ENSMUSG0	Gm43361	45.01254	7.595598314	1.866582	4.069255	4.72E-05	0.001578
ENSMUSG0	Obscn	63.69837	10.18842454	2.50386	4.069087	4.72E-05	0.001578
ENSMUSG0	Tulp2	175.3177	-4.504051448	1.108339	-4.06378	4.83E-05	0.001611
ENSMUSG0	Gm5112	43.45127	7.845535497	1.931581	4.061717	4.87E-05	0.001623
ENSMUSG0	Zfp974	275.3137	4.344484208	1.069983	4.06033	4.90E-05	0.001629
ENSMUSG0	Fn1	31993.75	0.652073037	0.160647	4.059031	4.93E-05	0.001636
ENSMUSG0	Pitpnc1	1538.127	-1.205826415	0.29711	-4.05852	4.94E-05	0.001636
ENSMUSG0	Sp110	51.2057	8.243782316	2.031799	4.057381	4.96E-05	0.001641
ENSMUSG0	Tdrd1	65.03179	-6.739559688	1.662415	-4.05408	5.03E-05	0.001661
ENSMUSG0	Actb	65830.48	0.36068313	0.088974	4.053826	5.04E-05	0.001661
ENSMUSG0	Rai2	187.4292	4.948854865	1.22121	4.05242	5.07E-05	0.001668
ENSMUSG0	Prkg1	275.7386	-1.854834313	0.457955	-4.05026	5.12E-05	0.00168
ENSMUSG0	Slc25a23	1393.86	-1.063496537	0.262617	-4.04961	5.13E-05	0.001682

ENSMUSG0	Shisa4	461.3623	-1.406418537	0.347466	-4.04765	5.17E-05	0.001693
ENSMUSG0	H2-Q10	108.8063	12.39181222	3.062213	4.046685	5.19E-05	0.001697
ENSMUSG0	Fgf2	88.75721	8.068237263	1.99502	4.044189	5.25E-05	0.00171
ENSMUSG0	Ankmy1	67.11643	9.228608812	2.281863	4.04433	5.25E-05	0.00171
ENSMUSG0	Gm38197	62.02582	7.804845317	1.930224	4.043492	5.27E-05	0.001712
ENSMUSG0	AI506816	2351.92	1.075509238	0.266099	4.041768	5.30E-05	0.001721
ENSMUSG0	Tnnt3	100.6582	8.215650214	2.034391	4.038383	5.38E-05	0.001743
ENSMUSG0	Churc1	46.81213	8.062881711	1.997297	4.036897	5.42E-05	0.001751
ENSMUSG0	Plin2	992.8045	1.132471856	0.280672	4.034858	5.46E-05	0.001761
ENSMUSG0	Ifi203	92.01016	7.95034617	1.970424	4.034841	5.46E-05	0.001761
ENSMUSG0	C030005K15Rik	46.76964	19.31069808	4.786864	4.034102	5.48E-05	0.001763
ENSMUSG0	Gm12846	36.38075	14.55814537	3.611004	4.031606	5.54E-05	0.001779
ENSMUSG0	Cln8	473.9028	1.925967583	0.477925	4.029851	5.58E-05	0.001789
ENSMUSG0	Gas6	742.6753	1.440178845	0.357441	4.029135	5.60E-05	0.001792
ENSMUSG0	Cacna1b	407.2272	-2.246095508	0.557957	-4.02557	5.68E-05	0.001816
ENSMUSG0	Kif5a	823.7768	-2.004939249	0.498609	-4.02106	5.79E-05	0.001848
ENSMUSG0	Inf2	1195.987	1.195949457	0.297512	4.019833	5.82E-05	0.001855
ENSMUSG0	P2rx1	38.25189	9.16009774	2.279561	4.018361	5.86E-05	0.001863
ENSMUSG0	Gm44798	54.99502	-18.12256601	4.512274	-4.01628	5.91E-05	0.001875
ENSMUSG0	Rab11fip3	2408.197	-1.051539271	0.261831	-4.0161	5.92E-05	0.001875
ENSMUSG0	Zfp740	4539.597	-0.616821633	0.153718	-4.01269	6.00E-05	0.001899
ENSMUSG0	Sncg	264.4189	-2.472962434	0.616611	-4.01057	6.06E-05	0.001913
ENSMUSG0	Gdf10	218.7182	-3.714089962	0.926384	-4.00923	6.09E-05	0.00192
ENSMUSG0	Klk9	46.47892	15.27808244	3.814406	4.005364	6.19E-05	0.001949
ENSMUSG0	Casq1	38.0112	9.171015961	2.290816	4.003384	6.24E-05	0.001962
ENSMUSG0	Nphs1	1419.744	2.891290623	0.722348	4.002628	6.26E-05	0.001964
ENSMUSG0	Bcl3	36.72028	8.361781893	2.08924	4.002308	6.27E-05	0.001964
ENSMUSG0	Pde1a	123.0573	7.605960275	1.902632	3.997599	6.40E-05	0.002
ENSMUSG0	Socs7	1641.64	-0.759218783	0.190005	-3.99578	6.45E-05	0.002012
ENSMUSG0	Col16a1	2066.321	-0.709098968	0.177474	-3.9955	6.46E-05	0.002012
ENSMUSG0	Akap8l	2145.638	-0.722721081	0.181148	-3.98967	6.62E-05	0.002058
ENSMUSG0	Spock1	188.6962	-2.297101431	0.575913	-3.98863	6.65E-05	0.002064
ENSMUSG0	Psmc14	1374.783	1.043369145	0.261846	3.984669	6.76E-05	0.002095
ENSMUSG0	Als2	1594.638	-1.107320392	0.277923	-3.98427	6.77E-05	0.002095
ENSMUSG0	Kyat1	158.8514	3.646198846	0.915609	3.982265	6.83E-05	0.002109
ENSMUSG0	Gm38309	63.76746	-10.91740083	2.741796	-3.98184	6.84E-05	0.00211
ENSMUSG0	Isl2	251.1294	-2.80321309	0.704205	-3.98068	6.87E-05	0.002117
ENSMUSG0	Tle2	1298.334	-1.342027619	0.337203	-3.97988	6.90E-05	0.00212
ENSMUSG0	2610203C20Rik	734.6713	-1.704083729	0.428414	-3.97766	6.96E-05	0.002137
ENSMUSG0	1190007I07Rik	74.6272	6.742270139	1.695457	3.976668	6.99E-05	0.002142
ENSMUSG0	Zfp825	69.37853	6.165128234	1.550873	3.975262	7.03E-05	0.002151
ENSMUSG0	Gm4524	83.62706	7.237607477	1.824231	3.967483	7.26E-05	0.002219
ENSMUSG0	Arl6ip4	1516.144	1.423267148	0.359072	3.963733	7.38E-05	0.002251
ENSMUSG0	Apbb1ip	288.4898	3.369451521	0.85045	3.961962	7.43E-05	0.002264
ENSMUSG0	Gm18728	41.57784	17.07502598	4.310452	3.961307	7.45E-05	0.002266
ENSMUSG0	Adam11	525.1369	-2.35867852	0.595613	-3.96008	7.49E-05	0.002271
ENSMUSG0	Ptgfrn	2921.907	-1.032392234	0.260704	-3.96002	7.49E-05	0.002271
ENSMUSG0	Ms4a4a	61.89713	9.692441428	2.449938	3.956199	7.62E-05	0.002304

ENSMUSG0	Scg2	158.1845	-5.138100726	1.299418	-3.95416	7.68E-05	0.00232
ENSMUSG0	Golga4	4858.109	-0.649648978	0.164368	-3.95242	7.74E-05	0.002333
ENSMUSG0	Uckl1os	104.8279	8.22754224	2.083116	3.949632	7.83E-05	0.002357
ENSMUSG0	Wnt2	72.17012	9.918037749	2.513068	3.946585	7.93E-05	0.002383
ENSMUSG0	Elavl3	550.1028	-1.837188793	0.465871	-3.94356	8.03E-05	0.002406
ENSMUSG0	Fhod1	1391.91	0.9857	0.249951	3.943571	8.03E-05	0.002406
ENSMUSG0	Phlda3	332.1004	2.387514492	0.605639	3.942141	8.08E-05	0.002416
ENSMUSG0	Cox6c	1651.281	-0.897585769	0.227772	-3.94072	8.12E-05	0.002427
ENSMUSG0	Cybb	284.4427	3.50894021	0.890868	3.93879	8.19E-05	0.002441
ENSMUSG0	Clec4a2	38.77089	9.236935993	2.345282	3.938519	8.20E-05	0.002441
ENSMUSG0	AC158636.1	144.5548	18.8508889	4.786846	3.93806	8.21E-05	0.002442
ENSMUSG0	Ednrb	1054.586	2.032089117	0.516097	3.937417	8.24E-05	0.002445
ENSMUSG0	Mrpl18	819.6636	1.720657108	0.437252	3.93516	8.31E-05	0.002464
ENSMUSG0	C230085N15Rik	34.9793	-8.603239749	2.186863	-3.93405	8.35E-05	0.002468
ENSMUSG0	Larp4	1516.043	1.194912583	0.303718	3.93428	8.34E-05	0.002468
ENSMUSG0	9330162012Rik	66.94802	-11.09577229	2.822633	-3.931	8.46E-05	0.002484
ENSMUSG0	Wfdc2	438.458	-1.783580412	0.453645	-3.93167	8.44E-05	0.002484
ENSMUSG0	Cacna1g	4014.56	-1.292938376	0.328889	-3.93123	8.45E-05	0.002484
ENSMUSG0	Tob1	1100.166	-1.128222965	0.28698	-3.93137	8.45E-05	0.002484
ENSMUSG0	Acsf3	364.9404	2.139155804	0.544294	3.930148	8.49E-05	0.002489
ENSMUSG0	Tmem102	62.13701	-6.073581615	1.547306	-3.92526	8.66E-05	0.002536
ENSMUSG0	Sapcd2	915.9624	-1.708700182	0.435582	-3.9228	8.75E-05	0.002554
ENSMUSG0	Vcan	21818.18	0.544875278	0.138891	3.923052	8.74E-05	0.002554
ENSMUSG0	Tph2	45.12573	16.48153303	4.202708	3.921646	8.79E-05	0.002562
ENSMUSG0	5930430L01Rik	42.48266	8.254129294	2.110488	3.911005	9.19E-05	0.002674
ENSMUSG0	Bmi1	1524.667	-1.043104526	0.266741	-3.91055	9.21E-05	0.002674
ENSMUSG0	Zmynd15	52.30596	9.321780786	2.385681	3.907388	9.33E-05	0.002706
ENSMUSG0	Nrxn1	359.8729	-2.199847934	0.563638	-3.90294	9.50E-05	0.002751
ENSMUSG0	Tmc5	133.0785	6.543126933	1.676761	3.902242	9.53E-05	0.002755
ENSMUSG0	Gm9506	153.7522	-3.022585955	0.775247	-3.89887	9.66E-05	0.00279
ENSMUSG0	Gusb	1567.918	1.654764594	0.424523	3.897938	9.70E-05	0.002796
ENSMUSG0	Usp48	4439.686	-0.60568783	0.155699	-3.89013	0.0001	0.002883
ENSMUSG0	Gpaa1	1130.813	-1.040046622	0.267564	-3.88709	0.000101	0.002915
ENSMUSG0	Mzf1	176.9641	-4.473029352	1.15113	-3.88577	0.000102	0.002926
ENSMUSG0	Maf	2578.188	0.97880789	0.252072	3.883056	0.000103	0.002955
ENSMUSG0	Fkbp1a	5462.503	0.53379688	0.137486	3.882553	0.000103	0.002956
ENSMUSG0	Gm4285	40.97831	7.899436427	2.035175	3.881453	0.000104	0.002961
ENSMUSG0	Smyd1	177.7451	7.922402982	2.040903	3.881812	0.000104	0.002961
ENSMUSG0	Clec7a	82.08842	5.819668621	1.4997	3.880556	0.000104	0.002967
ENSMUSG0	Uchl1	1032.816	-1.475058172	0.380255	-3.87913	0.000105	0.002976
ENSMUSG0	Prrt1	42.4759	8.591684309	2.214715	3.879363	0.000105	0.002976
ENSMUSG0	Mtss1	3431.253	-1.031097483	0.265902	-3.87774	0.000105	0.002988
ENSMUSG0	Ptger3	117.504	9.224004307	2.379061	3.877161	0.000106	0.002991
ENSMUSG0	Btaf1	2312.502	1.24610828	0.321699	3.873521	0.000107	0.003031
ENSMUSG0	Olf481	100.1863	-11.43227052	2.951795	-3.87299	0.000108	0.003033
ENSMUSG0	Dclk1	1000.784	-1.814349806	0.468508	-3.87261	0.000108	0.003034
ENSMUSG0	Hoxa4	162.0689	6.953935695	1.796937	3.869883	0.000109	0.003063
ENSMUSG0	Slc10a4	54.07133	12.24093249	3.163766	3.869102	0.000109	0.003068

ENSMUSG0	Slc23a1	85.6354	8.746217317	2.260989	3.868315	0.00011	0.003074
ENSMUSG0	Gm42729	51.82576	13.26747746	3.430931	3.86702	0.00011	0.003086
ENSMUSG0	Hsp90aa1	11346.11	0.526975684	0.136338	3.865212	0.000111	0.003104
ENSMUSG0	Tom70a	3208.27	0.573612585	0.148467	3.86356	0.000112	0.00312
ENSMUSG0	Grm4	152.3009	7.507773138	1.943929	3.862165	0.000112	0.003134
ENSMUSG0	Tubb2b	2110.163	-1.036360856	0.268427	-3.86087	0.000113	0.003136
ENSMUSG0	Hmox2	794.7702	1.653279149	0.428178	3.861197	0.000113	0.003136
ENSMUSG0	Gm7882	83.88529	12.28328596	3.180915	3.861558	0.000113	0.003136
ENSMUSG0	En2	68.62906	-10.45538738	2.709199	-3.85922	0.000114	0.003153
ENSMUSG0	Trip6	1632.484	-1.022161747	0.265043	-3.85659	0.000115	0.003178
ENSMUSG0	Cd83	260.1887	2.79788715	0.725589	3.856021	0.000115	0.003178
ENSMUSG0	AV026068	314.6228	3.726041626	0.966335	3.85585	0.000115	0.003178
ENSMUSG0	Gm26668	101.9035	7.392503504	1.917176	3.855933	0.000115	0.003178
ENSMUSG0	Satl1	39.51104	14.96491342	3.888059	3.848942	0.000119	0.003264
ENSMUSG0	Cst3	1644.099	0.833575653	0.216784	3.845193	0.00012	0.00331
ENSMUSG0	Snhg15	287.833	2.994000307	0.778846	3.84415	0.000121	0.003319
ENSMUSG0	mt-Rnr1	6885.252	-0.854359661	0.22263	-3.83757	0.000124	0.003404
ENSMUSG0	Gm14892	89.68376	-11.65886636	3.040795	-3.83415	0.000126	0.003443
ENSMUSG0	Arc	295.4441	-6.374925449	1.662715	-3.83405	0.000126	0.003443
ENSMUSG0	Alkbh5	4604.036	-0.53037102	0.138478	-3.83	0.000128	0.003495
ENSMUSG0	Npas3	168.1947	-3.009803554	0.786686	-3.82593	0.00013	0.003548
ENSMUSG0	Adipor1	2941.81	0.563987383	0.147453	3.824861	0.000131	0.003559
ENSMUSG0	Clec2l	83.52204	7.354078065	1.923614	3.823053	0.000132	0.00358
ENSMUSG0	Gm10827	85.01077	-9.67717628	2.53162	-3.82252	0.000132	0.003582
ENSMUSG0	Hectd1	5694.007	0.371801738	0.09739	3.817654	0.000135	0.003648
ENSMUSG0	Hook1	1203.165	-1.631732179	0.427731	-3.81486	0.000136	0.003685
ENSMUSG0	Gm5990	114.6387	-7.345000343	1.92635	-3.81291	0.000137	0.003703
ENSMUSG0	Acat2	839.589	-1.109970476	0.291089	-3.81317	0.000137	0.003703
ENSMUSG0	Camk2b	162.6977	-4.050616237	1.062648	-3.81181	0.000138	0.003714
ENSMUSG0	Calca	120.4704	-5.190734592	1.362418	-3.80994	0.000139	0.003737
ENSMUSG0	Tmem62	91.35166	8.69071867	2.281446	3.809302	0.000139	0.003741
ENSMUSG0	4930453N24Rik	684.1065	1.557478508	0.408974	3.808258	0.00014	0.003752
ENSMUSG0	Sox11	9006.404	-0.515308515	0.135375	-3.80652	0.000141	0.003761
ENSMUSG0	Zfpm1	1793.656	1.175138888	0.308703	3.806701	0.000141	0.003761
ENSMUSG0	Csf2ra	480.4628	1.462609971	0.384243	3.806475	0.000141	0.003761
ENSMUSG0	Apobr	36.50525	8.828312677	2.319427	3.806248	0.000141	0.003761
ENSMUSG0	Gm6305	88.29596	-4.624831714	1.215307	-3.80549	0.000142	0.003767
ENSMUSG0	Anxa11	177.0227	3.214129731	0.844956	3.803904	0.000142	0.003786
ENSMUSG0	Gnai2	14365.24	0.329931001	0.08675	3.803228	0.000143	0.003791
ENSMUSG0	Runx3	118.6227	6.750954023	1.775741	3.801768	0.000144	0.003808
ENSMUSG0	Elf4	1294.008	1.39583593	0.367621	3.796939	0.000146	0.003878
ENSMUSG0	Zfp697	651.176	-2.217953588	0.584451	-3.79493	0.000148	0.003904
ENSMUSG0	Cpsf7	2827.394	-0.643656266	0.169908	-3.78827	0.000152	0.004004
ENSMUSG0	Gm19807	86.37444	8.088047214	2.136946	3.784862	0.000154	0.004054
ENSMUSG0	Dlg5	4276.343	-0.627271906	0.165792	-3.78348	0.000155	0.004071
ENSMUSG0	Nlgn2	2916.3	-1.170711995	0.309542	-3.78208	0.000156	0.004071
ENSMUSG0	Pfkl	4259.301	-0.738144346	0.195161	-3.78223	0.000155	0.004071
ENSMUSG0	Chsy3	187.7957	4.122718142	1.089924	3.782576	0.000155	0.004071

ENSMUSG0	Rpl19-ps12	42.2419	6.247524642	1.651662	3.782568	0.000155	0.004071
ENSMUSG0	AC107851.1	49.49732	-5.86134556	1.551188	-3.77862	0.000158	0.004111
ENSMUSG0	Adsl	1755.984	0.874861246	0.231509	3.778944	0.000157	0.004111
ENSMUSG0	Gcnt1	502.4986	1.87317654	0.495727	3.778647	0.000158	0.004111
ENSMUSG0	2700033N17Rik	91.21071	7.954592008	2.105542	3.77793	0.000158	0.004111
ENSMUSG0	Gm6377	26.85215	8.831809579	2.337673	3.778034	0.000158	0.004111
ENSMUSG0	Plb1	51.58492	18.09118353	4.789904	3.776941	0.000159	0.004121
ENSMUSG0	Cldn5	2369.461	0.8828604	0.233831	3.775631	0.00016	0.004137
ENSMUSG0	Rdx	8414.055	0.415576027	0.1101	3.774527	0.00016	0.00415
ENSMUSG0	Tpm3	5783.926	0.778140355	0.206184	3.77401	0.000161	0.004153
ENSMUSG0	Hexb	192.4691	2.105543888	0.558474	3.770172	0.000163	0.004212
ENSMUSG0	7530416G11Rik	50.38885	-10.1750606	2.703528	-3.76362	0.000167	0.004317
ENSMUSG0	Sobp	1108.209	-2.04088542	0.542804	-3.7599	0.00017	0.004374
ENSMUSG0	Nim1k	70.65851	7.994466059	2.126361	3.759694	0.00017	0.004374
ENSMUSG0	Lamtor2	887.1098	-1.334535355	0.355157	-3.75759	0.000172	0.004405
ENSMUSG0	Cep170	2834.722	-0.515727234	0.137268	-3.75707	0.000172	0.004408
ENSMUSG0	Cblb	2316.12	-0.955998125	0.254496	-3.75644	0.000172	0.004413
ENSMUSG0	Bach1	2811.712	-0.720931719	0.192034	-3.75419	0.000174	0.004447
ENSMUSG0	Calr3	49.95503	7.964718616	2.122316	3.752843	0.000175	0.004465
ENSMUSG0	Cbln4	54.50807	-9.793712225	2.61167	-3.74998	0.000177	0.004504
ENSMUSG0	Hoxd8	490.1633	-6.948497368	1.852855	-3.75016	0.000177	0.004504
ENSMUSG0	Sirpa	1921.826	0.860776652	0.229771	3.746232	0.00018	0.004565
ENSMUSG0	Fras1	6531.16	-0.640088062	0.170999	-3.74324	0.000182	0.004614
ENSMUSG0	Gpc6	2357.424	-0.945017032	0.252503	-3.7426	0.000182	0.004619
ENSMUSG0	Galnt2	36.14244	-6.377955614	1.704825	-3.74112	0.000183	0.00464
ENSMUSG0	Emilin2	452.3224	1.763741097	0.471499	3.740707	0.000184	0.004642
ENSMUSG0	Gm44041	43.05087	13.39503943	3.581955	3.739589	0.000184	0.004656
ENSMUSG0	Grk4	47.69899	9.041008136	2.422905	3.731474	0.00019	0.004802
ENSMUSG0	Gm9768	38.22948	14.60183114	3.915034	3.729682	0.000192	0.00483
ENSMUSG0	AC115037.1	31.45711	8.948396313	2.400419	3.727848	0.000193	0.004859
ENSMUSG0	Gm21811	93.87438	3.908605776	1.048677	3.727176	0.000194	0.004865
ENSMUSG0	Cd36	134.6492	3.665028964	0.983629	3.726028	0.000195	0.004881
ENSMUSG0	Tjp2	2481.357	-0.566562947	0.152124	-3.72435	0.000196	0.004907
ENSMUSG0	Osr2	1499.69	6.183556234	1.661217	3.722306	0.000197	0.004941
ENSMUSG0	Mapt	1028.296	-2.364500044	0.635333	-3.72167	0.000198	0.004946
ENSMUSG0	Commd5	151.9288	3.144351069	0.845249	3.720029	0.000199	0.004972
ENSMUSG0	Kirrel2	66.54801	7.082951282	1.906321	3.715508	0.000203	0.005048
ENSMUSG0	Gm13859	58.23315	17.2580334	4.644802	3.715558	0.000203	0.005048
ENSMUSG0	Ccl7	31.22519	8.368441892	2.253244	3.713952	0.000204	0.005073
ENSMUSG0	Tktl1	104.6216	8.125106124	2.188416	3.71278	0.000205	0.00509
ENSMUSG0	Hsd17b11	714.2396	1.20383888	0.324491	3.709935	0.000207	0.00514
ENSMUSG0	Selenof	2509.894	0.574507539	0.15493	3.708183	0.000209	0.005169
ENSMUSG0	Dusp14	103.4416	8.240909179	2.222646	3.707702	0.000209	0.005172
ENSMUSG0	C330011M18Rik	51.33322	7.966541774	2.149421	3.706366	0.00021	0.005193
ENSMUSG0	Slc7a2	504.945	-1.779290508	0.480699	-3.70147	0.000214	0.00528
ENSMUSG0	Ccdc88c	2307.461	-1.010984487	0.273142	-3.70131	0.000214	0.00528
ENSMUSG0	Qprt	89.91244	7.023198251	1.897568	3.701158	0.000215	0.00528
ENSMUSG0	Vwce	66.30293	7.597953434	2.054796	3.697669	0.000218	0.005346

ENSMUSG0	Slc22a3	48.39384	7.904748966	2.139987	3.69383	0.000221	0.00542
ENSMUSG0	Cd99l2	1465.945	-0.946725909	0.256342	-3.69321	0.000221	0.005426
ENSMUSG0	Ube2v2	158.0567	3.540120111	0.959141	3.690926	0.000223	0.005464
ENSMUSG0	Cnga3	42.03733	8.261926759	2.238533	3.690777	0.000224	0.005464
ENSMUSG0	Gna15	51.32018	6.050233455	1.639658	3.689935	0.000224	0.005475
ENSMUSG0	Nat6	436.2522	-1.940420642	0.526339	-3.68664	0.000227	0.00554
ENSMUSG0	Gm29257	73.43404	3.165154864	0.858751	3.685767	0.000228	0.005544
ENSMUSG0	Bmx	45.52935	9.145157777	2.481142	3.685867	0.000228	0.005544
ENSMUSG0	Hs3st4	67.1103	8.128320004	2.205635	3.685252	0.000228	0.005548
ENSMUSG0	Gm10767	48.64377	-5.824010218	1.580621	-3.68464	0.000229	0.005551
ENSMUSG0	Ms4a6c	121.9382	2.812193096	0.763258	3.684461	0.000229	0.005551
ENSMUSG0	E430021H15Rik	70.49204	13.1929083	3.581021	3.684119	0.000229	0.005552
ENSMUSG0	3110040N11Rik	92.99329	4.736725061	1.285834	3.683775	0.00023	0.005552
ENSMUSG0	Mcf2l	880.656	-1.208249952	0.328098	-3.68259	0.000231	0.005556
ENSMUSG0	Amigo2	321.2168	2.040882392	0.55413	3.68304	0.00023	0.005556
ENSMUSG0	Eid3	36.67631	8.626911833	2.342603	3.682618	0.000231	0.005556
ENSMUSG0	Raph1	2329.188	0.740906627	0.201308	3.680456	0.000233	0.005596
ENSMUSG0	Fads1	3520.791	-0.470978248	0.128022	-3.67887	0.000234	0.005624
ENSMUSG0	Pabpc1	30102.41	0.336960399	0.091616	3.677959	0.000235	0.005635
ENSMUSG0	Lsm3	699.457	1.113410376	0.302773	3.677377	0.000236	0.005635
ENSMUSG0	Kcnj8	107.7469	8.683975807	2.361322	3.677591	0.000235	0.005635
ENSMUSG0	Vdac2	3352.783	0.73174526	0.199053	3.676134	0.000237	0.005655
ENSMUSG0	Tmem132b	149.2009	-4.767680946	1.297478	-3.67457	0.000238	0.005683
ENSMUSG0	Ptprj	819.3156	1.269109442	0.345651	3.671651	0.000241	0.005737
ENSMUSG0	Leng9	77.32387	6.678569117	1.819338	3.670879	0.000242	0.005737
ENSMUSG0	Gm26736	24.47209	7.472832439	2.035601	3.67107	0.000242	0.005737
ENSMUSG0	Gm12354	64.86687	17.58804553	4.791049	3.671022	0.000242	0.005737
ENSMUSG0	Bag3	1312.037	1.305103208	0.355622	3.669921	0.000243	0.005747
ENSMUSG0	Adora1	234.7111	7.018449971	1.912497	3.669784	0.000243	0.005747
ENSMUSG0	Myom1	245.5616	2.99479983	0.816775	3.666616	0.000246	0.005811
ENSMUSG0	Cd300c2	34.21183	8.911896876	2.432025	3.664394	0.000248	0.005854
ENSMUSG0	1810041L15Rik	361.932	-2.120597966	0.579328	-3.66044	0.000252	0.005938
ENSMUSG0	Ndufb3	284.5537	2.515670277	0.687643	3.658395	0.000254	0.005978
ENSMUSG0	Stra6	738.9279	-1.382953249	0.378057	-3.65805	0.000254	0.005979
ENSMUSG0	Hoxb6	1331.821	-5.411193747	1.479646	-3.65709	0.000255	0.005994
ENSMUSG0	Pla2g4e	42.63747	-16.51111944	4.520637	-3.65239	0.00026	0.006097
ENSMUSG0	Rnasel	559.7919	1.791561565	0.490671	3.651251	0.000261	0.006116
ENSMUSG0	Kcnh2	921.5408	1.724248564	0.472579	3.648594	0.000264	0.006165
ENSMUSG0	Ndufb4	387.8307	3.500449187	0.95938	3.648656	0.000264	0.006165
ENSMUSG0	GImp	902.6005	1.136610962	0.311721	3.646246	0.000266	0.006213
ENSMUSG0	Olf140	38.7715	-17.67629055	4.850057	-3.64455	0.000268	0.00624
ENSMUSG0	Med11	366.9363	1.904610854	0.522596	3.644519	0.000268	0.00624
ENSMUSG0	Arhgef5	1203.504	-0.797540877	0.218873	-3.64385	0.000269	0.006248
ENSMUSG0	Map2k7	1186.765	-0.929351134	0.25519	-3.6418	0.000271	0.006291
ENSMUSG0	Atg10	73.30635	5.499192849	1.512127	3.636727	0.000276	0.006408
ENSMUSG0	Phf14	3190.396	-0.897236564	0.24677	-3.63593	0.000277	0.006415
ENSMUSG0	Plek	642.2377	3.617172432	0.994871	3.635819	0.000277	0.006415
ENSMUSG0	Nlr1	74.88961	4.235447376	1.165087	3.635307	0.000278	0.006419

ENSMUSG0	BC005624	993.1596	-1.156619618	0.318252	-3.63429	0.000279	0.006429
ENSMUSG0	Zfp462	3926.091	-0.749158294	0.206123	-3.63453	0.000278	0.006429
ENSMUSG0	Gm26559	57.19156	-9.690870931	2.667524	-3.63291	0.00028	0.006456
ENSMUSG0	Aldh1a3	271.2006	-5.160361645	1.421349	-3.63061	0.000283	0.00649
ENSMUSG0	Lypd6	269.32	-2.168403422	0.59724	-3.63071	0.000283	0.00649
ENSMUSG0	Kcnk3	294.6788	4.8980591	1.348987	3.630918	0.000282	0.00649
ENSMUSG0	AC238940.1	65.43082	-9.49951852	2.617012	-3.62991	0.000284	0.006499
ENSMUSG0	Eef1a2	44.17307	9.310169251	2.565814	3.628544	0.000285	0.006526
ENSMUSG0	Marf1	2960.324	-0.865196669	0.238464	-3.6282	0.000285	0.006526
ENSMUSG0	Mcm4	5308.218	0.701737858	0.193571	3.62523	0.000289	0.006594
ENSMUSG0	Zfp212	729.1095	-1.019447723	0.281348	-3.62344	0.000291	0.006625
ENSMUSG0	Mcmdc2	41.54414	7.345430362	2.027219	3.623403	0.000291	0.006625
ENSMUSG0	Adgrd1	56.86551	-9.507240772	2.62443	-3.62259	0.000292	0.006637
ENSMUSG0	Sestd1	2212.985	-1.200546991	0.331554	-3.62097	0.000293	0.006663
ENSMUSG0	Samd1	4467.426	0.662120361	0.182851	3.621095	0.000293	0.006663
ENSMUSG0	BC006965	287.67	-4.030597826	1.11353	-3.61966	0.000295	0.006689
ENSMUSG0	Agbl5	1043.812	-1.32265418	0.365557	-3.61819	0.000297	0.006711
ENSMUSG0	D130043K22Rik	39.3406	7.422421038	2.051376	3.618264	0.000297	0.006711
ENSMUSG0	Chd3	11254.92	-0.386304405	0.10681	-3.61673	0.000298	0.006741
ENSMUSG0	Gm38228	57.82386	5.127930095	1.418826	3.614206	0.000301	0.006798
ENSMUSG0	Gm17494	29.84466	6.676205156	1.847387	3.613864	0.000302	0.006799
ENSMUSG0	Zfp750	45.81396	-10.55757554	2.924254	-3.61035	0.000306	0.00687
ENSMUSG0	Msl3l2	301.4111	-2.126030492	0.58887	-3.61036	0.000306	0.00687
ENSMUSG0	Lamc2	946.6897	-1.378115765	0.381754	-3.60996	0.000306	0.00687
ENSMUSG0	Slc16a1	1535.269	0.787954224	0.218264	3.610095	0.000306	0.00687
ENSMUSG0	2410015M20Rik	385.5486	1.323474425	0.366863	3.607545	0.000309	0.00692
ENSMUSG0	Eln	512.4032	3.09920801	0.859112	3.607456	0.000309	0.00692
ENSMUSG0	Cacna1h	1584.871	-0.910612387	0.252448	-3.60713	0.00031	0.00692
ENSMUSG0	Gdap2	351.9349	1.974618263	0.547738	3.605044	0.000312	0.006968
ENSMUSG0	Prdm11	1691.81	0.858496287	0.238675	3.596925	0.000322	0.00718
ENSMUSG0	Gga3	1367.157	-1.091405986	0.303557	-3.59539	0.000324	0.007211
ENSMUSG0	Fbxo36	41.16471	7.779122287	2.16375	3.595203	0.000324	0.007211
ENSMUSG0	Dmwd	2920.908	-0.88448061	0.246163	-3.59307	0.000327	0.007261
ENSMUSG0	Ptprs	18341.45	-0.523000232	0.145654	-3.5907	0.00033	0.007319
ENSMUSG0	Snord72	38.30267	-16.25407936	4.534016	-3.58492	0.000337	0.007454
ENSMUSG0	Fam187b	20.07047	-8.721036355	2.432611	-3.58505	0.000337	0.007454
ENSMUSG0	Il20rb	41.6208	6.798374134	1.896481	3.584731	0.000337	0.007454
ENSMUSG0	Gm15777	119.5616	7.787641378	2.172455	3.584719	0.000337	0.007454
ENSMUSG0	Slc43a3	1247.681	0.795602445	0.222022	3.583443	0.000339	0.007478
ENSMUSG0	Pde8b	63.21773	4.601123636	1.284058	3.583268	0.000339	0.007478
ENSMUSG0	Spink4	45.29092	13.43415025	3.750773	3.581701	0.000341	0.007514
ENSMUSG0	Gm10719	61.88383	12.31272049	3.439139	3.580176	0.000343	0.007549
ENSMUSG0	Tnxb	55.72543	6.651954978	1.858869	3.578496	0.000346	0.007589
ENSMUSG0	Eif2b1	855.4296	1.286295235	0.35972	3.575823	0.000349	0.007658
ENSMUSG0	Gm16153	109.3485	3.005315635	0.840819	3.574272	0.000351	0.007695
ENSMUSG0	Cdh1	1592.024	-1.068200032	0.298892	-3.57387	0.000352	0.007697
ENSMUSG0	Olf1r532	28.20879	-8.459435458	2.367786	-3.57272	0.000353	0.007722
ENSMUSG0	Fam171b	511.9307	-2.684597296	0.751651	-3.5716	0.000355	0.007746

ENSMUSG0	C230034O21Rik	126.859	4.720439253	1.322018	3.570632	0.000356	0.007757
ENSMUSG0	Gm9200	133.237	5.428160826	1.520201	3.570686	0.000356	0.007757
ENSMUSG0	Slc3a2	3209.869	0.684930125	0.191913	3.568966	0.000358	0.007798
ENSMUSG0	Ablim1	1919.112	-1.352115892	0.379074	-3.56689	0.000361	0.00785
ENSMUSG0	Gm42798	53.23545	7.129769212	1.999483	3.565806	0.000363	0.007874
ENSMUSG0	Tada1	295.1201	1.690663161	0.474561	3.562581	0.000367	0.007962
ENSMUSG0	Birc2	1254.422	-1.552792644	0.435909	-3.56219	0.000368	0.007965
ENSMUSG0	Chpt1	926.5379	-1.589087357	0.44614	-3.56186	0.000368	0.007966
ENSMUSG0	Tmem107	85.82345	6.349486986	1.783221	3.560685	0.00037	0.007992
ENSMUSG0	Ace	285.9221	3.339759779	0.938265	3.559505	0.000372	0.008019
ENSMUSG0	Fermt3	489.3502	1.734122575	0.487393	3.557957	0.000374	0.008057
ENSMUSG0	Cxcl10	48.7641	8.249907637	2.318956	3.557596	0.000374	0.008059
ENSMUSG0	Ndnf	1346.26	1.657673662	0.46629	3.555027	0.000378	0.008129
ENSMUSG0	Gm44271	94.25791	-8.804594234	2.476999	-3.55454	0.000379	0.008135
ENSMUSG0	Ptbp2	2804.532	-0.80300752	0.225983	-3.5534	0.00038	0.008161
ENSMUSG0	Zfxh3	3404.043	-0.771229824	0.217091	-3.55256	0.000382	0.008178
ENSMUSG0	Arhgap21	2992.369	-0.715532432	0.201556	-3.55004	0.000385	0.008237
ENSMUSG0	Adam4	26.3395	7.864001248	2.215168	3.55007	0.000385	0.008237
ENSMUSG0	Gm20045	163.8231	-4.837106625	1.36296	-3.54897	0.000387	0.008262
ENSMUSG0	Ctcf	3951.881	0.664026284	0.187333	3.544628	0.000393	0.008389
ENSMUSG0	Gm15879	54.83234	6.543616715	1.846443	3.543904	0.000394	0.008403
ENSMUSG0	Trpa1	41.27297	7.405815917	2.091286	3.541273	0.000398	0.008478
ENSMUSG0	Cldn9	271.3177	-2.023604346	0.571569	-3.54044	0.000399	0.008492
ENSMUSG0	P3h4	1474.176	-0.834538428	0.23575	-3.53993	0.0004	0.008492
ENSMUSG0	Sulf1	4474.525	-0.751078763	0.212169	-3.54	0.0004	0.008492
ENSMUSG0	9330104G04Rik	55.75378	-4.422959256	1.249711	-3.53919	0.000401	0.008503
ENSMUSG0	Otogl	210.6026	-3.313399754	0.936253	-3.539	0.000402	0.008503
ENSMUSG0	A930002H24Rik	68.50062	-10.89047752	3.079066	-3.53694	0.000405	0.00856
ENSMUSG0	Nr0b1	54.16804	-7.056974794	1.996108	-3.53537	0.000407	0.008601
ENSMUSG0	Emx2os	77.42055	-9.048464134	2.560718	-3.53357	0.00041	0.00865
ENSMUSG0	Fbxl21	50.24308	-4.035805424	1.14273	-3.53172	0.000413	0.008691
ENSMUSG0	Tfap2a	157.4162	3.014933354	0.853656	3.53179	0.000413	0.008691
ENSMUSG0	Col8a1	33.13196	8.205940411	2.324748	3.52982	0.000416	0.008744
ENSMUSG0	Adra1d	74.09478	8.783364351	2.489084	3.528754	0.000418	0.00877
ENSMUSG0	Gprin3	113.514	-5.119891858	1.45238	-3.52517	0.000423	0.008879
ENSMUSG0	4930570G19Rik	37.75808	8.130822982	2.306788	3.524739	0.000424	0.008884
ENSMUSG0	2810471M01Rik	42.3884	16.89584068	4.796679	3.522404	0.000428	0.008953
ENSMUSG0	Rbck1	2336.883	-0.941653832	0.267465	-3.52066	0.00043	0.008992
ENSMUSG0	Rab11a	1500.324	0.783181679	0.222454	3.520653	0.00043	0.008992
ENSMUSG0	Trank1	402.547	-5.514031522	1.568401	-3.5157	0.000439	0.009151
ENSMUSG0	Gpr135	110.2342	-4.782818125	1.360977	-3.51425	0.000441	0.009191
ENSMUSG0	Napsa	56.19631	8.064220284	2.29622	3.511955	0.000445	0.009261
ENSMUSG0	Ston2	636.5573	-1.55339252	0.442386	-3.5114	0.000446	0.00927
ENSMUSG0	Gm44702	42.86006	-10.32454133	2.943401	-3.50769	0.000452	0.009389
ENSMUSG0	Bace1	1538.484	-0.710024694	0.202634	-3.50398	0.000458	0.009511
ENSMUSG0	Gm13517	85.45993	3.487001752	0.995631	3.502303	0.000461	0.009551
ENSMUSG0	Gm43605	61.79103	16.80217334	4.797494	3.502281	0.000461	0.009551
ENSMUSG0	Gm44667	47.06475	6.387834823	1.825236	3.49973	0.000466	0.009632

ENSMUSG0	Gm14323	26.37524	-4.259545844	1.21777	-3.49783	0.000469	0.00968
ENSMUSG0	Kdm3a	3134.985	-0.845725376	0.241773	-3.49801	0.000469	0.00968
ENSMUSG0	Eno2	296.1001	-3.903516425	1.116749	-3.49543	0.000473	0.009748
ENSMUSG0	Hdac8	273.7978	-1.57894716	0.451726	-3.49537	0.000473	0.009748
ENSMUSG0	Ifih1	38.26728	8.15603903	2.33488	3.49313	0.000477	0.009819
ENSMUSG0	Atp1a1	11918.48	0.520841716	0.149194	3.491026	0.000481	0.009886
ENSMUSG0	Gm7390	421.9029	-1.719235837	0.492873	-3.48819	0.000486	0.00998
ENSMUSG0	Fam105a	373.6017	2.316830482	0.664578	3.486165	0.00049	0.010045
ENSMUSG0	Gm45380	28.69825	5.525502828	1.585684	3.484619	0.000493	0.010093
ENSMUSG0	Pcnx	3152.415	-0.579331664	0.16628	-3.48408	0.000494	0.010102
ENSMUSG0	Cldn11	223.695	4.514922937	1.297511	3.47968	0.000502	0.010258
ENSMUSG0	Cadm4	582.5532	-1.419030214	0.408096	-3.47719	0.000507	0.010325
ENSMUSG0	Gata6	621.7715	2.939895147	0.845448	3.477324	0.000506	0.010325
ENSMUSG0	Adgre4	27.17854	7.928139541	2.280124	3.477064	0.000507	0.010325
ENSMUSG0	Gm15601	28.86107	8.567468203	2.46543	3.47504	0.000511	0.010392
ENSMUSG0	Asic4	102.5942	6.596446693	1.898532	3.474499	0.000512	0.010402
ENSMUSG0	Zfp975	106.0536	4.070301604	1.171603	3.474131	0.000513	0.010405
ENSMUSG0	AC153950.2	68.30923	-16.2271738	4.672521	-3.47289	0.000515	0.010436
ENSMUSG0	Zfp513	764.6457	-1.096706385	0.315802	-3.47276	0.000515	0.010436
ENSMUSG0	Gm20274	43.90217	8.116599496	2.337552	3.472266	0.000516	0.010444
ENSMUSG0	Gm13921	118.1178	7.673828306	2.213105	3.467448	0.000525	0.010621
ENSMUSG0	Zfp655	985.6833	-1.576555186	0.454829	-3.46626	0.000528	0.010646
ENSMUSG0	Itsn1	4255.351	-0.572135561	0.165045	-3.46654	0.000527	0.010646
ENSMUSG0	Gm6030	113.1584	-2.945030861	0.849768	-3.46569	0.000529	0.010653
ENSMUSG0	Dbn1	9047.501	-0.55667659	0.160634	-3.46551	0.000529	0.010653
ENSMUSG0	Vamp2	1561.448	-0.922142937	0.266156	-3.46467	0.000531	0.010674
ENSMUSG0	Vapa	2737.568	0.998181621	0.288179	3.463761	0.000533	0.010699
ENSMUSG0	Arhgef11	1905.891	-0.673695491	0.194617	-3.46164	0.000537	0.010772
ENSMUSG0	Sox10	852.4354	-1.323914637	0.383127	-3.45555	0.000549	0.011007
ENSMUSG0	Asb1	306.0324	2.281572524	0.660439	3.454632	0.000551	0.011033
ENSMUSG0	Fbxl19	4287.523	-0.613808769	0.177723	-3.45373	0.000553	0.011058
ENSMUSG0	Xlr3e-ps	50.09877	-16.93185495	4.903692	-3.45288	0.000555	0.011069
ENSMUSG0	AI849053	102.7706	-9.587734591	2.776538	-3.45313	0.000554	0.011069
ENSMUSG0	Thtpa	430.2454	-2.226676166	0.644946	-3.4525	0.000555	0.011073
ENSMUSG0	Snta1	331.6212	2.972559285	0.861242	3.451482	0.000558	0.011103
ENSMUSG0	Opcml	34.56755	7.567439097	2.194564	3.448265	0.000564	0.011213
ENSMUSG0	Fam69c	53.30808	14.53325211	4.214563	3.448342	0.000564	0.011213
ENSMUSG0	Hecw1	48.29459	-5.553933529	1.611041	-3.44742	0.000566	0.011224
ENSMUSG0	Slc8a2	256.1869	-1.984940249	0.575747	-3.44759	0.000566	0.011224
ENSMUSG0	Sfrp2	3389.202	-0.567753731	0.164741	-3.44633	0.000568	0.011257
ENSMUSG0	Zfp959	160.5813	4.440465392	1.28878	3.44548	0.00057	0.011281
ENSMUSG0	Pcf11	2583.407	0.746691519	0.216906	3.442467	0.000576	0.011395
ENSMUSG0	Gm43289	39.71464	16.50946133	4.796212	3.442188	0.000577	0.011395
ENSMUSG0	Lrig1	1269.213	-1.291223617	0.375149	-3.44189	0.000578	0.011396
ENSMUSG0	Cdo1	739.4962	-1.419141561	0.412478	-3.44052	0.000581	0.011418
ENSMUSG0	Gpt2	831.8614	-0.908849019	0.264128	-3.44094	0.00058	0.011418
ENSMUSG0	Col6a6	256.1671	7.251028889	2.107456	3.440654	0.00058	0.011418
ENSMUSG0	Sacm1l	768.2143	1.011467096	0.294086	3.439356	0.000583	0.011455

ENSMUSG0	Cd79b	36.8548	7.036840818	2.047625	3.436586	0.000589	0.011561
ENSMUSG0	Ccdc138	324.4581	-1.773543884	0.516504	-3.43375	0.000595	0.01167
ENSMUSG0	Eci1	660.6595	1.17649963	0.342688	3.433156	0.000597	0.011684
ENSMUSG0	Slc25a5	3491.334	0.775569736	0.225951	3.432464	0.000598	0.011701
ENSMUSG0	Sox9	1972.845	-1.062633693	0.309639	-3.43185	0.000599	0.011716
ENSMUSG0	Pipox	100.8988	6.974463595	2.034064	3.428832	0.000606	0.011834
ENSMUSG0	Gm45238	120.1429	16.46179285	4.801691	3.428333	0.000607	0.011844
ENSMUSG0	F8a	112.4601	4.676196488	1.364658	3.426644	0.000611	0.011906
ENSMUSG0	Gm43099	44.27492	8.74431568	2.552384	3.425941	0.000613	0.011924
ENSMUSG0	Ccl24	23.61213	7.906578759	2.30943	3.423605	0.000618	0.012015
ENSMUSG0	Ehd4	1603.044	1.211798743	0.354149	3.421725	0.000622	0.012073
ENSMUSG0	Gm7598	25.1217	7.475267672	2.184522	3.421924	0.000622	0.012073
ENSMUSG0	Gdpd1	412.3106	-1.346037826	0.393543	-3.4203	0.000626	0.012124
ENSMUSG0	Myrf	1800.743	0.798818562	0.2336	3.419601	0.000627	0.012143
ENSMUSG0	Chaf1b	951.8884	1.581226069	0.462706	3.417346	0.000632	0.012231
ENSMUSG0	1700030K09Rik	278.4477	2.229356327	0.652426	3.417025	0.000633	0.012233
ENSMUSG0	Map2k3os	27.55736	8.015703432	2.34687	3.415487	0.000637	0.01229
ENSMUSG0	Sema3d	1170.21	-1.894652549	0.554962	-3.41402	0.00064	0.012317
ENSMUSG0	Dnttip2	1856.267	0.764714195	0.223956	3.414575	0.000639	0.012317
ENSMUSG0	Exosc3	419.1178	1.474141614	0.431823	3.41376	0.000641	0.012317
ENSMUSG0	Slc22a21	84.48336	5.255938443	1.53944	3.414188	0.00064	0.012317
ENSMUSG0	Gm7658	809.7885	-1.158608835	0.339468	-3.41301	0.000642	0.012339
ENSMUSG0	Aff4	6301.019	-0.405088556	0.118791	-3.4101	0.000649	0.012458
ENSMUSG0	Rpl26-ps4	51.48309	-6.40175068	1.877761	-3.40925	0.000651	0.012485
ENSMUSG0	Gm13394	384.5378	-3.302102418	0.970108	-3.40385	0.000664	0.012721
ENSMUSG0	6720489N17Rik	246.6143	-2.361888784	0.693954	-3.40353	0.000665	0.012723
ENSMUSG0	AC154849.3	104.3864	-6.302459119	1.852172	-3.40274	0.000667	0.012747
ENSMUSG0	Elmsan1	2008.944	-0.657227453	0.193219	-3.40147	0.00067	0.012793
ENSMUSG0	Gm44260	47.17802	8.102007626	2.38352	3.399177	0.000676	0.012888
ENSMUSG0	Ccdc171	123.3221	2.887451432	0.849766	3.397936	0.000679	0.012933
ENSMUSG0	Gpr65	41.55824	5.64162765	1.661084	3.396354	0.000683	0.012995
ENSMUSG0	Wdr82	4845.441	-0.657576436	0.193663	-3.39547	0.000685	0.013024
ENSMUSG0	mt-Nd6	24272.11	-0.310889647	0.091587	-3.39446	0.000688	0.013059
ENSMUSG0	Neil2	141.7206	-3.241784871	0.956158	-3.39043	0.000698	0.013237
ENSMUSG0	Morn1	181.1149	-2.274525544	0.670912	-3.3902	0.000698	0.013237
ENSMUSG0	Dcaf12l1	157.6496	4.180058822	1.233515	3.388737	0.000702	0.013294
ENSMUSG0	AC166827.2	27.92409	8.713656632	2.57162	3.388392	0.000703	0.013295
ENSMUSG0	Alpk2	37.10345	9.555201105	2.820161	3.388176	0.000704	0.013295
ENSMUSG0	2310010J17Rik	81.98209	5.124052156	1.512811	3.387106	0.000706	0.013333
ENSMUSG0	Tagap1	146.8305	2.270475362	0.671231	3.382554	0.000718	0.013543
ENSMUSG0	Uqcrb	1156.3	-0.751454787	0.222368	-3.37933	0.000727	0.013661
ENSMUSG0	Gm17096	64.92269	7.436008122	2.200193	3.379708	0.000726	0.013661
ENSMUSG0	Srpk3	46.7199	7.958988334	2.355091	3.379482	0.000726	0.013661
ENSMUSG0	Dcaf4	503.1029	1.689213553	0.499974	3.378603	0.000729	0.013684
ENSMUSG0	Fcgr2b	36.32257	7.926917081	2.346814	3.377736	0.000731	0.013712
ENSMUSG0	Gm44249	31.68788	8.405670462	2.488732	3.377491	0.000732	0.013712
ENSMUSG0	Spi1	470.1579	2.372969891	0.702953	3.375715	0.000736	0.013773
ENSMUSG0	1110019D14Rik	44.03499	9.149429957	2.710154	3.375982	0.000736	0.013773

ENSMUSG0	Lrrc20	273.404	1.868794731	0.553674	3.375259	0.000737	0.013783
ENSMUSG0	Islr2	101.2114	-3.363781434	0.996824	-3.3745	0.000739	0.013807
ENSMUSG0	Syp12	66.44962	-8.867462913	2.629307	-3.37255	0.000745	0.013891
ENSMUSG0	Serpinb1a	43.19165	7.65791395	2.271756	3.370923	0.000749	0.01396
ENSMUSG0	Lsm7	327.0214	-1.608077006	0.477101	-3.37052	0.00075	0.013961
ENSMUSG0	Tpcn1	2661.527	0.710871734	0.210919	3.370355	0.000751	0.013961
ENSMUSG0	Myf6	46.82845	-15.86098843	4.710276	-3.36732	0.000759	0.014102
ENSMUSG0	As3mt	344.3847	1.611515092	0.478725	3.366264	0.000762	0.014142
ENSMUSG0	Fam221a	165.12	-2.022977505	0.601332	-3.36416	0.000768	0.014234
ENSMUSG0	4933431K23Rik	28.14961	7.689527115	2.285873	3.363935	0.000768	0.014234
ENSMUSG0	Cobll1	678.6656	1.937270934	0.57596	3.363551	0.000769	0.014239
ENSMUSG0	Fbxl15	33.63253	7.779713198	2.313988	3.362037	0.000774	0.014304
ENSMUSG0	AC122273.2	44.41433	7.806487992	2.322795	3.360816	0.000777	0.014353
ENSMUSG0	Gm37755	25.66472	7.945585412	2.365251	3.359298	0.000781	0.014418
ENSMUSG0	Gm26686	35.12652	-16.04595172	4.777294	-3.35879	0.000783	0.01443
ENSMUSG0	Gm8644	41.84573	16.13466319	4.805098	3.357822	0.000786	0.014467
ENSMUSG0	Dennd1c	354.53	-1.658215631	0.494466	-3.35355	0.000798	0.014677
ENSMUSG0	Chd7	5050.443	-0.464852637	0.138718	-3.35106	0.000805	0.014795
ENSMUSG0	Nfasc	425.937	-3.109432056	0.929781	-3.34426	0.000825	0.015148
ENSMUSG0	Tmem88b	51.48421	6.543961828	1.958363	3.341546	0.000833	0.015282
ENSMUSG0	Calb1	270.4509	3.39481947	1.016238	3.340576	0.000836	0.015321
ENSMUSG0	Ptp4a3	1188.078	0.728202824	0.218061	3.33945	0.000839	0.015353
ENSMUSG0	Gm2522	49.73364	15.12913159	4.530341	3.339513	0.000839	0.015353
ENSMUSG0	Spp1	82.93095	-4.460760911	1.336441	-3.33779	0.000844	0.015416
ENSMUSG0	Mak	23.13156	7.961792997	2.385361	3.337773	0.000845	0.015416
ENSMUSG0	Grpel1	1106.854	1.238218403	0.371102	3.336598	0.000848	0.015466
ENSMUSG0	Cldn6	1040.203	-1.295452841	0.388288	-3.33632	0.000849	0.015467
ENSMUSG0	Hapln3	190.1076	-1.74927645	0.52436	-3.33602	0.00085	0.015469
ENSMUSG0	Hmgb1-rs16	39.30724	7.679366231	2.303259	3.334131	0.000856	0.015559
ENSMUSG0	Ddx60	49.61581	6.774785971	2.032329	3.333509	0.000858	0.015579
ENSMUSG0	Gm45257	41.18966	9.308595086	2.793345	3.332419	0.000861	0.015625
ENSMUSG0	1700001O22Rik	38.9792	7.728525978	2.319443	3.332061	0.000862	0.01563
ENSMUSG0	Tpgs1	389.7679	1.484375095	0.445702	3.330422	0.000867	0.015707
ENSMUSG0	Usp37	1822.12	-1.225710521	0.3681	-3.32983	0.000869	0.015725
ENSMUSG0	Tgm5	100.0147	-8.944870926	2.686675	-3.32935	0.00087	0.015738
ENSMUSG0	Cep63	724.7353	1.162095731	0.349383	3.326135	0.000881	0.015905
ENSMUSG0	Tmco1	949.8756	1.294459944	0.389573	3.322763	0.000891	0.016083
ENSMUSG0	Gm44130	47.21753	12.53863741	3.774145	3.322246	0.000893	0.016097
ENSMUSG0	Zfp318	1853.718	0.880742169	0.265189	3.321192	0.000896	0.016143
ENSMUSG0	Mdm4-ps	40.51623	-6.842025126	2.061699	-3.31863	0.000905	0.016276
ENSMUSG0	Neur13	169.414	6.553747099	1.975051	3.318267	0.000906	0.016281
ENSMUSG0	CT030170.3	32.63502	7.350372337	2.216525	3.316169	0.000913	0.016389
ENSMUSG0	Ptprz1	229.0208	-1.787971464	0.539259	-3.31561	0.000914	0.016406
ENSMUSG0	Myh7b	155.9273	4.385779938	1.32339	3.314049	0.00092	0.016482
ENSMUSG0	Gm17971	35.92233	7.113469152	2.147542	3.312378	0.000925	0.016565
ENSMUSG0	Traf1	103.8674	-7.35144946	2.219943	-3.31155	0.000928	0.016598
ENSMUSG0	Zfp125	256.6851	3.366901729	1.017819	3.307958	0.00094	0.016797
ENSMUSG0	Fam181b	45.71104	-3.922957268	1.186362	-3.30671	0.000944	0.016841

ENSMUSG0	Slc12a1	318.7679	7.025346227	2.124587	3.306687	0.000944	0.016841
ENSMUSG0	Scube3	10167.04	-0.447133313	0.13524	-3.30623	0.000946	0.016853
ENSMUSG0	Phf11c	40.36293	6.820548445	2.063728	3.304964	0.00095	0.016913
ENSMUSG0	Zdhhc5	2784.378	0.839825354	0.25426	3.303024	0.000956	0.017014
ENSMUSG0	Gm37084	37.86485	7.889078635	2.389461	3.301615	0.000961	0.017084
ENSMUSG0	Dcakd	4066.506	-0.777001388	0.23542	-3.30049	0.000965	0.017124
ENSMUSG0	Npy1r	39.52273	9.015800584	2.731709	3.300425	0.000965	0.017124
ENSMUSG0	Cltb	481.8965	1.270206954	0.384897	3.300125	0.000966	0.017126
ENSMUSG0	Prrx1	1683.522	-1.090089385	0.330504	-3.29827	0.000973	0.017208
ENSMUSG0	Tssk6	28.79655	7.181492853	2.177238	3.298442	0.000972	0.017208
ENSMUSG0	Timp3	2588.41	-0.936745652	0.284111	-3.29711	0.000977	0.017262
ENSMUSG0	Kdm5a	3771.476	-0.680658622	0.206598	-3.2946	0.000986	0.017401
ENSMUSG0	Chd2	4448.107	-0.742572438	0.225525	-3.29263	0.000993	0.017507
ENSMUSG0	Pm20d1	85.42451	6.02493208	1.831636	3.289373	0.001004	0.017694
ENSMUSG0	Efna1	789.1533	-1.305392971	0.396931	-3.28871	0.001006	0.017703
ENSMUSG0	Gabra4	72.24655	6.406847117	1.948061	3.288833	0.001006	0.017703
ENSMUSG0	Zcchc10	210.8992	3.100588747	0.942989	3.288045	0.001009	0.017728
ENSMUSG0	Prkaa2	174.5697	2.108252353	0.641695	3.285442	0.001018	0.017876
ENSMUSG0	Gm42907	61.20872	-9.070864033	2.761448	-3.28482	0.00102	0.017882
ENSMUSG0	Gm12735	35.0847	-8.754768279	2.665058	-3.28502	0.00102	0.017882
ENSMUSG0	C1qbp	3404.656	0.531894541	0.162107	3.281135	0.001034	0.018101
ENSMUSG0	Zswim3	107.2548	3.503077068	1.068002	3.280028	0.001038	0.018155
ENSMUSG0	Chrna7	87.12126	3.371828576	1.028568	3.278177	0.001045	0.018257
ENSMUSG0	Gm42675	87.23269	-6.658698602	2.032212	-3.27658	0.001051	0.018344
ENSMUSG0	1110002E22Rik	122.6286	7.618016393	2.326797	3.274035	0.00106	0.018477
ENSMUSG0	CT030644.1	49.25802	15.75941608	4.813491	3.27401	0.00106	0.018477
ENSMUSG0	Mpc1	70.81072	8.312892179	2.541894	3.270353	0.001074	0.0187
ENSMUSG0	Il18r1	14.31286	-8.562251565	2.619156	-3.26909	0.001079	0.018767
ENSMUSG0	Gnb3	35.2479	7.385732222	2.259698	3.26846	0.001081	0.018791
ENSMUSG0	Nipal3	461.6151	-1.565527747	0.47907	-3.26785	0.001084	0.018806
ENSMUSG0	Gm12604	86.7137	12.2270598	3.741781	3.267711	0.001084	0.018806
ENSMUSG0	Gm44768	111.2355	15.68327448	4.807645	3.262153	0.001106	0.019161
ENSMUSG0	Phyhipl	120.5274	3.850973994	1.180822	3.261267	0.001109	0.019204
ENSMUSG0	Tmtc2	1163.265	-1.226937092	0.376549	-3.25838	0.001121	0.019383
ENSMUSG0	Plk2	3813.726	-0.669511825	0.205545	-3.25726	0.001125	0.019441
ENSMUSG0	Gm37531	94.9089	-6.195723676	1.902321	-3.25693	0.001126	0.019444
ENSMUSG0	Krt18	1216.822	-1.076646317	0.330595	-3.25669	0.001127	0.019444
ENSMUSG0	Vcp	5636.963	0.677834984	0.20818	3.255999	0.00113	0.019474
ENSMUSG0	Scd2	15906.2	-0.608991478	0.187056	-3.25567	0.001131	0.019479
ENSMUSG0	Tlr1	95.12329	8.454171884	2.597811	3.254344	0.001137	0.019552
ENSMUSG0	Hlf	171.3317	4.717337578	1.450119	3.253069	0.001142	0.019622
ENSMUSG0	Grin2c	19.9664	7.997529674	2.459534	3.251644	0.001147	0.019703
ENSMUSG0	Plekhg1	1951.659	-0.867503198	0.266848	-3.25093	0.00115	0.019734
ENSMUSG0	Nt5e	63.30192	7.899573155	2.430295	3.250459	0.001152	0.019749
ENSMUSG0	Mkrn2os	42.73951	-9.134251733	2.810431	-3.25012	0.001154	0.019754
ENSMUSG0	Pkm	17854.29	-0.312690434	0.096274	-3.24793	0.001162	0.019889
ENSMUSG0	Tmc3	66.48949	-7.581994473	2.334945	-3.24718	0.001166	0.019905
ENSMUSG0	Zcchc5	48.60863	6.720395623	2.069568	3.247246	0.001165	0.019905

ENSMUSG0	Myh6	534.9051	3.130378648	0.964445	3.245782	0.001171	0.019985
ENSMUSG0	Sod3	57.76543	5.999056461	1.848827	3.24479	0.001175	0.020037
ENSMUSG0	Dlg2	143.2676	4.509558817	1.390354	3.243462	0.001181	0.020112
ENSMUSG0	Prss56	90.98009	-4.000438372	1.233541	-3.24305	0.001183	0.020123
ENSMUSG0	Ptpn11	4244.999	0.517640809	0.159669	3.241956	0.001187	0.020182
ENSMUSG0	Slc44a1	1506.744	1.113998684	0.343706	3.241143	0.001191	0.020222
ENSMUSG0	Tppp	55.80792	8.610832958	2.65773	3.239921	0.001196	0.02029
ENSMUSG0	Gm29650	37.80384	7.350245238	2.269245	3.23907	0.001199	0.020332
ENSMUSG0	F420014N23Rik	23.34682	8.157370945	2.518742	3.238668	0.001201	0.020343
ENSMUSG0	Nppa	47.74678	12.54435978	3.876253	3.236208	0.001211	0.0205
ENSMUSG0	Sub1	3727.059	0.681650205	0.210674	3.235572	0.001214	0.020528
ENSMUSG0	March9	450.5965	-1.719015863	0.531488	-3.23434	0.001219	0.020561
ENSMUSG0	Irx3	1075.645	-1.309201395	0.404725	-3.23479	0.001217	0.020561
ENSMUSG0	Pfn2	1483.412	-0.934506175	0.288932	-3.23434	0.001219	0.020561
ENSMUSG0	AC131743.5	199.9455	-4.097976172	1.269474	-3.22809	0.001246	0.020997
ENSMUSG0	Gm20735	77.82193	8.316384391	2.577291	3.226793	0.001252	0.021073
ENSMUSG0	Abcg3	58.35602	5.721726739	1.773592	3.226066	0.001255	0.021108
ENSMUSG0	Lrrc39	36.20669	9.353846757	2.899931	3.225541	0.001257	0.021128
ENSMUSG0	Gstm6	34.19626	8.659135792	2.684959	3.225053	0.001259	0.021145
ENSMUSG0	F13a1	970.2005	3.290732459	1.02057	3.224405	0.001262	0.021174
ENSMUSG0	Hist3h2ba	140.1422	-3.107715316	0.964163	-3.22323	0.001268	0.021242
ENSMUSG0	Tmem9b	406.9647	1.163041869	0.360896	3.222653	0.00127	0.021266
ENSMUSG0	Rpl9-ps6	105.8654	-2.565266113	0.796147	-3.2221	0.001273	0.021288
ENSMUSG0	Slc39a1	1253.369	-0.676489058	0.209983	-3.22164	0.001275	0.021304
ENSMUSG0	Ttc3	11602.54	-0.565956412	0.17576	-3.22006	0.001282	0.021403
ENSMUSG0	Mus81	783.4525	-1.428972089	0.443917	-3.21901	0.001286	0.021444
ENSMUSG0	AW822252	54.11823	6.959438706	2.161988	3.219	0.001286	0.021444
ENSMUSG0	Qsox2	856.6982	-1.590919029	0.494672	-3.21611	0.001299	0.021642
ENSMUSG0	Patj	1328.279	-1.215177656	0.378078	-3.21409	0.001309	0.021755
ENSMUSG0	Gm11868	77.51149	3.353275209	1.043291	3.214132	0.001308	0.021755
ENSMUSG0	Olf1548-ps1	47.04171	-16.03403462	4.995433	-3.20974	0.001329	0.022068
ENSMUSG0	Gm21992	31.09508	7.351425939	2.29219	3.207162	0.001341	0.022247
ENSMUSG0	1500015A07Rik	62.66053	6.962222364	2.173351	3.203451	0.001358	0.022516
ENSMUSG0	Gm43375	40.67274	7.089196191	2.213755	3.202341	0.001363	0.022583
ENSMUSG0	Foxp4	6932.377	-0.502388177	0.156949	-3.20096	0.00137	0.022672
ENSMUSG0	Gna14	64.29306	6.658874418	2.081131	3.199641	0.001376	0.022756
ENSMUSG0	Anapc15-ps	64.25385	-5.374008719	1.679847	-3.19911	0.001379	0.022758
ENSMUSG0	Pnpla3	71.61954	-5.325551146	1.664629	-3.19924	0.001378	0.022758
ENSMUSG0	Aldh1l2	37.70896	7.842804781	2.45433	3.195497	0.001396	0.023024
ENSMUSG0	Grin2d	190.8418	-2.518954688	0.788352	-3.19522	0.001397	0.023027
ENSMUSG0	Prrxl1	50.23831	-7.553984256	2.36442	-3.19486	0.001399	0.023035
ENSMUSG0	Grb7	439.5792	-1.565736094	0.490229	-3.19389	0.001404	0.023093
ENSMUSG0	Gm42783	109.9813	7.044502029	2.205947	3.193413	0.001406	0.02311
ENSMUSG0	Sdad1	1122.505	0.996693474	0.312176	3.192734	0.001409	0.023144
ENSMUSG0	Appl1	1948.731	-0.854919783	0.267796	-3.19243	0.001411	0.023148
ENSMUSG0	Swt1	771.8695	-0.920678366	0.288446	-3.19186	0.001414	0.023174
ENSMUSG0	Mapk8ip3	3665.161	-0.646288164	0.202605	-3.18989	0.001423	0.023272
ENSMUSG0	Snx11	315.3876	1.662395372	0.521108	3.190115	0.001422	0.023272

ENSMUSG0	Slc9a9	144.4354	3.505071346	1.098736	3.190093	0.001422	0.023272
ENSMUSG0	Adam10	4274.261	0.721708258	0.226295	3.189229	0.001427	0.023305
ENSMUSG0	Ctsz	1438.866	1.069154917	0.335746	3.184416	0.00145	0.023675
ENSMUSG0	S100b	25.6182	-6.495012042	2.040564	-3.18295	0.001458	0.023775
ENSMUSG0	Ift172	1502.147	-0.6743423	0.21192	-3.18206	0.001462	0.023827
ENSMUSG0	Trpm3	572.9265	-2.491114872	0.78296	-3.18166	0.001464	0.02384
ENSMUSG0	Btk	148.9177	4.887981848	1.538283	3.177558	0.001485	0.024159
ENSMUSG0	Wdfy3	5793.958	-0.49654514	0.156517	-3.17247	0.001511	0.024565
ENSMUSG0	Ptprm	1870.61	-0.640591322	0.202072	-3.17012	0.001524	0.024658
ENSMUSG0	Cdk5rap2	3504.937	-0.468832149	0.147885	-3.17025	0.001523	0.024658
ENSMUSG0	A230057D06Rik	49.81818	4.055947728	1.279143	3.170832	0.00152	0.024658
ENSMUSG0	Oas2	50.29119	8.1517723	2.571085	3.170557	0.001521	0.024658
ENSMUSG0	Tmem28	18.31833	8.407269739	2.651966	3.170203	0.001523	0.024658
ENSMUSG0	Xist	8263.737	0.595380933	0.187882	3.168906	0.00153	0.02474
ENSMUSG0	Rnaseh2b	649.1281	1.482490763	0.467873	3.168574	0.001532	0.024747
ENSMUSG0	Zfp61	1095.08	-1.264304139	0.399058	-3.16822	0.001534	0.024756
ENSMUSG0	Eml1	1435.979	-0.876440057	0.27666	-3.16793	0.001535	0.024759
ENSMUSG0	Rgs11	158.4882	-2.99179393	0.944551	-3.16742	0.001538	0.024781
ENSMUSG0	AC173210.1	49.04557	-10.00563062	3.159467	-3.16687	0.001541	0.024807
ENSMUSG0	Txndc9	1211.134	0.988158986	0.312134	3.165816	0.001546	0.024859
ENSMUSG0	Hand1	366.2421	2.86011516	0.903451	3.165767	0.001547	0.024859
ENSMUSG0	Lrrc41	979.3883	1.269347202	0.401088	3.164758	0.001552	0.024924
ENSMUSG0	Smim13	569.2496	1.341757057	0.42406	3.164075	0.001556	0.024961
ENSMUSG0	Cabp1	228.0535	-1.825633085	0.577088	-3.16352	0.001559	0.024977
ENSMUSG0	Ctnna3	39.03708	7.464472354	2.359641	3.163394	0.001559	0.024977
ENSMUSG0	Sntb2	1616.692	-0.916441316	0.290109	-3.15896	0.001583	0.025296
ENSMUSG0	Ccdc116	109.1333	6.919451899	2.19026	3.159193	0.001582	0.025296
ENSMUSG0	Hoxd3	52.30858	7.800723794	2.469139	3.15929	0.001582	0.025296
ENSMUSG0	Acaca	1481.759	-1.213204613	0.384159	-3.15808	0.001588	0.025306
ENSMUSG0	Ccng2	2244.569	-0.861790506	0.272904	-3.15785	0.001589	0.025306
ENSMUSG0	Ptpn1	2038.18	0.781596643	0.247501	3.157957	0.001589	0.025306
ENSMUSG0	Dync1i1	25.87875	7.279037236	2.304835	3.15816	0.001588	0.025306
ENSMUSG0	Sox5	495.7175	-2.183500632	0.691734	-3.15656	0.001596	0.025397
ENSMUSG0	Acat1	1401.725	-0.784364924	0.248586	-3.15531	0.001603	0.025485
ENSMUSG0	Psm8	24.91986	7.083632558	2.246535	3.153138	0.001615	0.025653
ENSMUSG0	Mpl	42.5747	9.734484782	3.088848	3.151494	0.001624	0.025776
ENSMUSG0	Fzd9	27.43872	8.822290835	2.800915	3.149788	0.001634	0.025905
ENSMUSG0	Scn4b	21.45769	8.639051021	2.743868	3.148494	0.001641	0.025999
ENSMUSG0	Enah	5618.16	-0.540773691	0.171857	-3.14665	0.001652	0.026141
ENSMUSG0	Zfp516	4542.241	-0.558639399	0.177554	-3.1463	0.001654	0.02615
ENSMUSG0	Syk	1711.429	0.970010127	0.308385	3.14545	0.001658	0.026204
ENSMUSG0	Fryl	3347.824	-0.681549519	0.216735	-3.14462	0.001663	0.026257
ENSMUSG0	Rhbdd2	1024.354	-1.066380078	0.339174	-3.14405	0.001666	0.026286
ENSMUSG0	Fgl1	207.7532	-6.437768863	2.048246	-3.14306	0.001672	0.026353
ENSMUSG0	Cadm1	2370.211	-0.926472208	0.294847	-3.14221	0.001677	0.026389
ENSMUSG0	Rarres2	88.48031	5.922238504	1.884763	3.142166	0.001677	0.026389
ENSMUSG0	Frmpp2	37.50886	15.15963413	4.825512	3.141559	0.001681	0.026422
ENSMUSG0	Pirt	99.23875	-4.360345386	1.388247	-3.1409	0.001684	0.026459

ENSMUSG0	Smt3h1-ps	38.87913	-7.368078104	2.346655	-3.13982	0.001691	0.026535
ENSMUSG0	Gm45861	43.28911	-9.602710937	3.058738	-3.13944	0.001693	0.026548
ENSMUSG0	Nup133	1976.508	-0.796599998	0.253796	-3.13874	0.001697	0.026567
ENSMUSG0	Cmip	2288.107	-0.694637199	0.221306	-3.13881	0.001696	0.026567
ENSMUSG0	Lamp1	5134.598	0.675225218	0.215299	3.136224	0.001711	0.026773
ENSMUSG0	Gm12854	27.42219	7.116302258	2.270029	3.134895	0.001719	0.026873
ENSMUSG0	D5Erttd579e	1333.527	-0.74145679	0.236581	-3.13405	0.001724	0.026928
ENSMUSG0	Ranbp17	302.9135	2.061514297	0.657848	3.133727	0.001726	0.026935
ENSMUSG0	Gm7180	85.70343	-2.289851011	0.73108	-3.13215	0.001735	0.027039
ENSMUSG0	Aaas	1298.051	0.916043596	0.292468	3.132114	0.001736	0.027039
ENSMUSG0	Samd12	23.74615	-9.614794087	3.070529	-3.13132	0.00174	0.02709
ENSMUSG0	Acox1	41.51864	-9.25434458	2.956748	-3.12991	0.001749	0.027198
ENSMUSG0	Gm44735	31.87681	-10.1652813	3.250394	-3.1274	0.001764	0.027328
ENSMUSG0	BC026585	163.9414	1.685496594	0.538964	3.127287	0.001764	0.027328
ENSMUSG0	Bace2	89.29461	3.946166319	1.261821	3.127358	0.001764	0.027328
ENSMUSG0	Fbxo40	41.13637	7.870517994	2.516447	3.127631	0.001762	0.027328
ENSMUSG0	Fosl1	36.9328	8.05443322	2.575167	3.127733	0.001762	0.027328
ENSMUSG0	Aars	3590.337	0.648556425	0.207465	3.126102	0.001771	0.027416
ENSMUSG0	Pfn1	10098.72	0.446929817	0.143052	3.124237	0.001783	0.027568
ENSMUSG0	Gpr174	42.99279	14.59239026	4.671454	3.123736	0.001786	0.027592
ENSMUSG0	Btnl9	86.60851	-8.956536121	2.869923	-3.12083	0.001803	0.027816
ENSMUSG0	Tmem231	428.2576	-1.484393636	0.475724	-3.12028	0.001807	0.027816
ENSMUSG0	Dcbltd1	507.2534	-1.464264105	0.469293	-3.12015	0.001808	0.027816
ENSMUSG0	Dusp5	980.346	-1.329574823	0.426016	-3.12095	0.001803	0.027816
ENSMUSG0	Timm10	177.3611	1.944991195	0.623297	3.120486	0.001806	0.027816
ENSMUSG0	Gm44553	88.05266	-9.786765354	3.137603	-3.11918	0.001814	0.027862
ENSMUSG0	Ttc14	2037.738	-0.886746569	0.284271	-3.11937	0.001812	0.027862
ENSMUSG0	Kcnj5	34.95641	7.760506081	2.488231	3.118885	0.001815	0.027867
ENSMUSG0	Ppp1r10	2923.97	-0.810047341	0.259822	-3.1177	0.001823	0.027934
ENSMUSG0	Spn	24.80193	7.946402404	2.548654	3.117882	0.001822	0.027934
ENSMUSG0	Lcp1	2531.004	1.023743401	0.328637	3.115123	0.001839	0.028156
ENSMUSG0	9030624G23Rik	59.00977	-8.520600085	2.736574	-3.1136	0.001848	0.028279
ENSMUSG0	Spopl	600.4029	-1.118734198	0.359438	-3.11246	0.001855	0.028366
ENSMUSG0	Ago1	3842.798	-0.601827959	0.193513	-3.11001	0.001871	0.028579
ENSMUSG0	Grip1	830.9053	-1.788102129	0.575023	-3.10962	0.001873	0.028593
ENSMUSG0	Trit1	426.857	-1.216246414	0.39124	-3.1087	0.001879	0.028659
ENSMUSG0	Cnot6	4800.403	-0.420675177	0.13544	-3.106	0.001896	0.028899
ENSMUSG0	Pxmp4	351.4411	-1.408588117	0.453975	-3.10279	0.001917	0.029177
ENSMUSG0	Trim55	30.27528	9.357268696	3.015863	3.102684	0.001918	0.029177
ENSMUSG0	Ccdc163	254.1335	1.813639074	0.585171	3.099334	0.00194	0.029461
ENSMUSG0	Atp2a3	238.3781	2.001376383	0.645721	3.099444	0.001939	0.029461
ENSMUSG0	Slc16a5	23.94826	7.610122014	2.457571	3.096604	0.001958	0.02971
ENSMUSG0	Afmid	57.08077	8.078864681	2.609223	3.096272	0.00196	0.029719
ENSMUSG0	Hnf4a	644.8847	-5.762328459	1.862748	-3.09346	0.001978	0.029979
ENSMUSG0	Rnf17	35.41206	7.638417953	2.469414	3.093211	0.00198	0.029979
ENSMUSG0	Msmo1	987.0279	-0.754021039	0.243795	-3.09285	0.001982	0.029992
ENSMUSG0	Pcbp4	5484.36	-0.847764857	0.274169	-3.09213	0.001987	0.03004
ENSMUSG0	Gm11639	28.98511	8.363474486	2.705331	3.09148	0.001992	0.030082

ENSMUSG0	AC153794.1	54.41795	5.65070901	1.829182	3.089199	0.002007	0.03029
ENSMUSG0	Gm14005	19.28495	8.291000799	2.684633	3.088318	0.002013	0.030355
ENSMUSG0	Fam208b	2349.024	-0.88286272	0.285964	-3.08732	0.00202	0.030433
ENSMUSG0	Morn2	156.0968	-1.97857904	0.640927	-3.08706	0.002021	0.030436
ENSMUSG0	Dus4l	211.921	1.433451248	0.464403	3.086655	0.002024	0.030452
ENSMUSG0	Sema5a	2516.6	-0.990882277	0.321136	-3.08555	0.002032	0.030517
ENSMUSG0	Gm44027	126.6158	8.554502146	2.772305	3.0857	0.002031	0.030517
ENSMUSG0	Dcun1d5	2328.253	-0.769455506	0.249423	-3.08495	0.002036	0.030551
ENSMUSG0	Erp29	2667.762	0.674825493	0.218762	3.084742	0.002037	0.030551
ENSMUSG0	Pcsk9	345.9771	5.286608374	1.7142	3.08401	0.002042	0.030578
ENSMUSG0	Glyctk	25.73916	7.01707074	2.275161	3.084209	0.002041	0.030578
ENSMUSG0	Prkg2	94.01133	-6.763558417	2.193472	-3.08349	0.002046	0.030606
ENSMUSG0	Slc9a5	862.8634	-0.898493162	0.29149	-3.08241	0.002053	0.030666
ENSMUSG0	Syng2	590.9833	1.340783164	0.434991	3.082327	0.002054	0.030666
ENSMUSG0	Cyba	541.7894	1.453473146	0.471586	3.082097	0.002055	0.030666
ENSMUSG0	Zbtb7c	1412.046	4.686958479	1.520765	3.081974	0.002056	0.030666
ENSMUSG0	Eif3h	4203.897	0.486329744	0.157817	3.08161	0.002059	0.030679
ENSMUSG0	1700006J14Rik	167.3175	5.542595269	1.798771	3.081324	0.002061	0.030684
ENSMUSG0	Plch2	194.6248	-2.307719577	0.749118	-3.08058	0.002066	0.030712
ENSMUSG0	Psat1	1875.176	1.051000858	0.341145	3.080802	0.002064	0.030712
ENSMUSG0	Clic5	928.9789	-1.890153594	0.614999	-3.07343	0.002116	0.031433
ENSMUSG0	Proca1	54.28026	6.239758669	2.030379	3.073198	0.002118	0.031433
ENSMUSG0	Actr2	4558.592	0.711618352	0.231638	3.072115	0.002125	0.031522
ENSMUSG0	Padi2	299.1508	-2.414239888	0.786001	-3.07155	0.00213	0.031557
ENSMUSG0	Smg5	3954.579	-0.430929784	0.140323	-3.07098	0.002134	0.031592
ENSMUSG0	Prss8	307.1584	-1.965807099	0.640266	-3.0703	0.002138	0.03164
ENSMUSG0	Eif3c	11000.14	0.364970584	0.118911	3.069262	0.002146	0.031717
ENSMUSG0	Tmem220	30.26461	7.148273916	2.329111	3.0691	0.002147	0.031717
ENSMUSG0	Fxr2	3524.761	-0.595630336	0.194124	-3.0683	0.002153	0.031778
ENSMUSG0	Ikzf1	314.691	2.79758281	0.912158	3.066995	0.002162	0.031891
ENSMUSG0	Zfp202	291.4275	-1.860539216	0.607361	-3.06332	0.002189	0.032261
ENSMUSG0	Mafb	3488.404	-0.96331583	0.314546	-3.06256	0.002195	0.032317
ENSMUSG0	3425401B19Rik	27.78063	7.581757712	2.476123	3.061947	0.002199	0.032358
ENSMUSG0	Smad3	2755.332	-0.546155713	0.178437	-3.06077	0.002208	0.032439
ENSMUSG0	Ooep	211.8968	7.12314465	2.327272	3.060727	0.002208	0.032439
ENSMUSG0	Gm45178	211.1603	-3.896707839	1.273786	-3.05915	0.00222	0.032585
ENSMUSG0	Oasl2	46.48033	7.990410311	2.612789	3.058192	0.002227	0.032664
ENSMUSG0	Fam162a	1425.189	-1.349621247	0.441471	-3.0571	0.002235	0.032757
ENSMUSG0	Agap1	3124.738	-0.6342618	0.20753	-3.05625	0.002241	0.032826
ENSMUSG0	Pou2f1	1825.741	-0.915954213	0.299907	-3.05413	0.002257	0.033006
ENSMUSG0	Gm13961	85.75795	6.669027274	2.183545	3.05422	0.002256	0.033006
ENSMUSG0	Gm24792	65.00453	-11.03827852	3.616159	-3.05249	0.00227	0.033111
ENSMUSG0	Tmem38a	270.1329	-1.360083621	0.445597	-3.05228	0.002271	0.033111
ENSMUSG0	Itpk1	592.8456	-0.965085113	0.316188	-3.05226	0.002271	0.033111
ENSMUSG0	Hdhd3	43.98392	8.009041846	2.623596	3.052697	0.002268	0.033111
ENSMUSG0	Ap2a2	4093.669	0.420347693	0.137733	3.051911	0.002274	0.033123
ENSMUSG0	Unc5d	173.11	-3.397088884	1.113304	-3.05136	0.002278	0.033133
ENSMUSG0	Ggt1	1054.054	1.12659176	0.369201	3.051429	0.002278	0.033133

ENSMUSG0	Snapc2	552.0252	-1.210750971	0.397027	-3.04954	0.002292	0.033308
ENSMUSG0	Gm17354	62.3939	4.402060401	1.443913	3.048702	0.002298	0.033375
ENSMUSG0	Ldhb	2230.381	-0.966778252	0.31731	-3.0468	0.002313	0.033562
ENSMUSG0	Cd3eap	711.0242	1.083885534	0.355802	3.046319	0.002317	0.033589
ENSMUSG0	H2afy2	2905.017	-0.888304257	0.29176	-3.04464	0.00233	0.033699
ENSMUSG0	Arhgap5	2802.206	-0.536185875	0.176089	-3.04496	0.002327	0.033699
ENSMUSG0	Prtn3	102.7345	4.764835502	1.564917	3.044785	0.002328	0.033699
ENSMUSG0	Gm19569	53.45792	8.633262419	2.835842	3.044338	0.002332	0.033707
ENSMUSG0	Zfp523	2325.335	-0.853784517	0.28082	-3.04033	0.002363	0.034133
ENSMUSG0	Thap1	289.2738	2.025125225	0.666252	3.039576	0.002369	0.034191
ENSMUSG0	Gm6969	300.5578	2.396621792	0.78859	3.039123	0.002373	0.034191
ENSMUSG0	Flt3l	29.97978	7.041336733	2.316764	3.039298	0.002371	0.034191
ENSMUSG0	Ppp1r26	528.9693	-1.741484248	0.573181	-3.03828	0.002379	0.034259
ENSMUSG0	Fzd7	3014.58	-0.884538539	0.291154	-3.03804	0.002381	0.034259
ENSMUSG0	Dusp7	1092.78	1.078088214	0.354887	3.037833	0.002383	0.034259
ENSMUSG0	Col26a1	3525.536	-0.76880863	0.253105	-3.03751	0.002385	0.03427
ENSMUSG0	Atp2b3	39.0165	-9.517134127	3.134067	-3.03667	0.002392	0.034313
ENSMUSG0	Tardbp	7171.386	-0.436084456	0.1436	-3.03679	0.002391	0.034313
ENSMUSG0	Hacd4	282.0069	1.683769606	0.554697	3.035476	0.002402	0.034423
ENSMUSG0	Gm13912	42.51013	-9.837508131	3.241908	-3.03448	0.002409	0.03451
ENSMUSG0	Gm43484	64.51155	-7.273660442	2.398221	-3.03294	0.002422	0.034635
ENSMUSG0	Zfp993	44.83859	6.292131986	2.074577	3.032971	0.002422	0.034635
ENSMUSG0	5830408C22Rik	25.15665	-8.842443275	2.916785	-3.03157	0.002433	0.034705
ENSMUSG0	Pigu	699.8752	-0.990097306	0.326613	-3.03141	0.002434	0.034705
ENSMUSG0	Ncoa2	3068.747	-0.443687927	0.146353	-3.03162	0.002432	0.034705
ENSMUSG0	Gm10785	29.86404	9.133060646	3.012405	3.031817	0.002431	0.034705
ENSMUSG0	Nfam1	275.4651	3.113581648	1.027389	3.030577	0.002441	0.034775
ENSMUSG0	Flnc	3069.455	1.022106959	0.337356	3.029759	0.002447	0.034806
ENSMUSG0	Nfkbiz	1668.203	1.219190208	0.402417	3.029668	0.002448	0.034806
ENSMUSG0	Zfp511	264.3837	3.044831055	1.005023	3.029615	0.002449	0.034806
ENSMUSG0	Sall2	2248.486	-0.684135282	0.225864	-3.02896	0.002454	0.034855
ENSMUSG0	Gm16353	57.53192	-10.01723413	3.307613	-3.02854	0.002457	0.034878
ENSMUSG0	Gata3	722.8788	-1.521838988	0.502567	-3.02813	0.002461	0.034899
ENSMUSG0	Mlkl	28.49301	6.733468503	2.224035	3.027591	0.002465	0.034931
ENSMUSG0	Gpr35	77.76671	7.434646421	2.455789	3.027396	0.002467	0.034931
ENSMUSG0	Sgcd	55.29775	8.371363409	2.76597	3.026556	0.002474	0.035002
ENSMUSG0	Ispd	238.8673	-2.333387759	0.771146	-3.02587	0.002479	0.035055
ENSMUSG0	Ehbp1l1	1171.65	0.868291994	0.28719	3.023403	0.002499	0.035316
ENSMUSG0	Timm8b	481.1102	1.663861058	0.55064	3.021687	0.002514	0.03549
ENSMUSG0	Mycbp2	4501.183	-0.676061851	0.223788	-3.02099	0.002519	0.035518
ENSMUSG0	Tmed9	2654.024	-0.473065872	0.156585	-3.02115	0.002518	0.035518
ENSMUSG0	Usp42	1634.714	-0.596283213	0.197487	-3.01935	0.002533	0.035537
ENSMUSG0	Minos1	1365.779	0.653158802	0.216298	3.019712	0.00253	0.035537
ENSMUSG0	Gm2272	111.9924	2.757463287	0.912989	3.020258	0.002526	0.035537
ENSMUSG0	Hint3	100.8105	3.074858191	1.018267	3.019697	0.00253	0.035537
ENSMUSG0	Gm44164	73.32287	3.379816902	1.119425	3.019243	0.002534	0.035537
ENSMUSG0	1810059H22Rik	59.23953	6.359428331	2.105683	3.020127	0.002527	0.035537
ENSMUSG0	Fsbp	23.66569	7.856013159	2.601664	3.019611	0.002531	0.035537

ENSMUSG0	Bcl11b	552.4102	-1.60278408	0.530986	-3.01851	0.00254	0.035597
ENSMUSG0	Rhbf2	933.8658	-1.367153454	0.452978	-3.01815	0.002543	0.035613
ENSMUSG0	Mettl6	833.657	-1.234215871	0.409008	-3.01758	0.002548	0.035653
ENSMUSG0	Tmem151a	46.75933	7.899221423	2.618446	3.016759	0.002555	0.035723
ENSMUSG0	Rnf14	1499.203	0.625349928	0.207348	3.015944	0.002562	0.035793
ENSMUSG0	Rgs10	149.5479	3.841016169	1.275035	3.012479	0.002591	0.036177
ENSMUSG0	Ptrh1	27.10554	7.468430449	2.479438	3.012147	0.002594	0.03619
ENSMUSG0	Rab2b	221.3546	-2.251952438	0.74781	-3.0114	0.0026	0.036253
ENSMUSG0	4930518115Rik	30.03001	7.933309464	2.635692	3.009953	0.002613	0.036399
ENSMUSG0	Gsn	1938.297	0.806843597	0.268118	3.009289	0.002619	0.036451
ENSMUSG0	Ppp4r4	229.2592	-2.941585568	0.978192	-3.00716	0.002637	0.036658
ENSMUSG0	Cmb1	33.88101	7.095123982	2.359519	3.007022	0.002638	0.036658
ENSMUSG0	C130089K02Rik	42.44896	7.902075148	2.627982	3.006898	0.002639	0.036658
ENSMUSG0	Tyropb	213.8247	2.880022161	0.957895	3.006615	0.002642	0.036665
ENSMUSG0	Plxnc1	425.3226	1.598237344	0.531702	3.005891	0.002648	0.036725
ENSMUSG0	Svip	125.9375	-2.470715617	0.822148	-3.0052	0.002654	0.036764
ENSMUSG0	Lin7c	2279.654	-0.679438836	0.226094	-3.00512	0.002655	0.036764
ENSMUSG0	4732471J01Rik	30.53983	6.944506813	2.311999	3.003681	0.002667	0.036911
ENSMUSG0	Gm14226	69.08565	6.185359023	2.05944	3.003418	0.00267	0.036912
ENSMUSG0	Gm17435	37.37902	7.299193233	2.430627	3.003009	0.002673	0.036912
ENSMUSG0	Fcna	25.20644	9.003553009	2.998122	3.003065	0.002673	0.036912
ENSMUSG0	Cpq	480.2475	-1.805233589	0.601402	-3.00171	0.002685	0.037042
ENSMUSG0	Pfkip	956.0421	-1.574579251	0.524627	-3.00133	0.002688	0.037061
ENSMUSG0	Gm35876	26.1305	7.721404278	2.573047	3.00088	0.002692	0.037089
ENSMUSG0	Gm43654	71.85075	8.60673349	2.869474	2.999411	0.002705	0.037241
ENSMUSG0	Atf7ip2	29.81405	7.493869899	2.499158	2.998558	0.002713	0.037291
ENSMUSG0	Gm42941	40.05278	7.641838767	2.548367	2.99872	0.002711	0.037291
ENSMUSG0	4931406B18Rik	162.9561	-2.8144555	0.939408	-2.99599	0.002736	0.037552
ENSMUSG0	Grik5	2369.765	-0.796023815	0.265693	-2.99603	0.002735	0.037552
ENSMUSG0	4930444P10Rik	34.80206	6.622645784	2.212307	2.993547	0.002758	0.037826
ENSMUSG0	Kihl26	660.8481	-1.748423152	0.584196	-2.99287	0.002764	0.037882
ENSMUSG0	Gm14117	79.94564	2.824028155	0.943759	2.992321	0.002769	0.037923
ENSMUSG0	Psmb8	54.1077	5.14625879	1.719992	2.992024	0.002771	0.037932
ENSMUSG0	Mon1a	214.6482	1.79422803	0.600085	2.989955	0.00279	0.038162
ENSMUSG0	Ret	300.5134	-2.119063661	0.708956	-2.98899	0.002799	0.038253
ENSMUSG0	Mybpc3	208.2963	5.153383959	1.724238	2.988789	0.002801	0.038253
ENSMUSG0	Gm37534	29.35768	8.149728199	2.729353	2.985956	0.002827	0.038581
ENSMUSG0	Selenow	3409.104	-0.638804047	0.214076	-2.98401	0.002845	0.038799
ENSMUSG0	Lrp2bp	26.80218	7.807248726	2.616845	2.983458	0.00285	0.038841
ENSMUSG0	Mme	2057.014	-1.012300841	0.339395	-2.98266	0.002858	0.038885
ENSMUSG0	4930481B07Rik	27.97842	6.273164636	2.103096	2.982824	0.002856	0.038885
ENSMUSG0	Gm2308	48.51237	-5.151322666	1.727674	-2.98165	0.002867	0.038958
ENSMUSG0	Sel1l3	1124.306	-1.709558226	0.573348	-2.98171	0.002866	0.038958
ENSMUSG0	Ccdc15	218.2627	2.705100625	0.907565	2.980614	0.002877	0.039062
ENSMUSG0	Adm	188.8081	-3.006921352	1.009135	-2.9797	0.002885	0.039094
ENSMUSG0	Rbm39	12819.11	-0.437519367	0.146815	-2.98007	0.002882	0.039094
ENSMUSG0	Tspo	407.0903	1.445182181	0.484988	2.979834	0.002884	0.039094
ENSMUSG0	Nagpa	310.9675	1.743252231	0.585208	2.978858	0.002893	0.039173

ENSMUSG0	Mmd	447.482	1.393279116	0.467822	2.978227	0.002899	0.039226
ENSMUSG0	Gm29113	30.86363	13.72118196	4.607764	2.97784	0.002903	0.039247
ENSMUSG0	Gli1	1572.872	-0.692118721	0.232543	-2.9763	0.002917	0.039388
ENSMUSG0	Derl1	1007.364	0.896549307	0.301227	2.976324	0.002917	0.039388
ENSMUSG0	Cry2	857.5814	-1.223367454	0.411111	-2.97576	0.002923	0.039429
ENSMUSG0	Mppe1	258.8476	1.73459329	0.582956	2.975515	0.002925	0.039433
ENSMUSG0	Chmp3	1028.793	1.008094527	0.33929	2.971185	0.002967	0.039964
ENSMUSG0	Pip4k2a	850.7765	1.369022441	0.460856	2.970605	0.002972	0.040011
ENSMUSG0	2510017J16Rik	37.56564	8.305285494	2.796916	2.969444	0.002983	0.040134
ENSMUSG0	Tcerg1l	47.22495	5.985103792	2.015784	2.96912	0.002987	0.040148
ENSMUSG0	AW551984	697.5588	-1.340157545	0.451403	-2.96887	0.002989	0.040151
ENSMUSG0	AC154558.1	71.60576	-6.849493163	2.307393	-2.9685	0.002993	0.040171
ENSMUSG0	Mars	2177.263	0.909131925	0.306354	2.967589	0.003001	0.040262
ENSMUSG0	Gm15609	42.56198	7.692761703	2.592464	2.967355	0.003004	0.040264
ENSMUSG0	Slc37a4	462.8825	-1.289544691	0.434701	-2.96651	0.003012	0.040346
ENSMUSG0	Gm13754	74.62342	-6.284156002	2.119257	-2.96526	0.003024	0.040481
ENSMUSG0	Opa3	1163.301	0.685975276	0.231393	2.96454	0.003031	0.040547
ENSMUSG0	Gm37215	52.45977	-9.244372603	3.119307	-2.9636	0.003041	0.040587
ENSMUSG0	Aldoc	88.87887	-3.934240811	1.327528	-2.96358	0.003041	0.040587
ENSMUSG0	Cldn3	305.6622	-1.500226819	0.506168	-2.96389	0.003038	0.040587
ENSMUSG0	Rpl23a	22.31641	8.079279652	2.726734	2.962988	0.003047	0.040637
ENSMUSG0	Ldb3	111.3344	5.309339102	1.792129	2.962588	0.003051	0.040661
ENSMUSG0	Gm45483	51.34552	-9.461810081	3.194092	-2.96228	0.003054	0.040672
ENSMUSG0	Pawr	1192.773	1.095097698	0.369774	2.961529	0.003061	0.040743
ENSMUSG0	Tars	2425.958	0.803896833	0.271474	2.961232	0.003064	0.040751
ENSMUSG0	Arid3a	2654.609	0.891230347	0.300986	2.961038	0.003066	0.040751
ENSMUSG0	Homez	398.4598	-1.773753046	0.599115	-2.96062	0.00307	0.040777
ENSMUSG0	Zfxh2	1580.314	-0.879228188	0.297092	-2.95944	0.003082	0.040868
ENSMUSG0	Slc35d3	27.18682	7.478642113	2.527178	2.959286	0.003084	0.040868
ENSMUSG0	Pax3	32.45756	9.309880864	3.145786	2.959477	0.003082	0.040868
ENSMUSG0	Astn2	429.9098	-2.359628398	0.797425	-2.95906	0.003086	0.040869
ENSMUSG0	Clrn1	40.38509	-5.895608541	1.992656	-2.95867	0.00309	0.040892
ENSMUSG0	Cryab	198.7182	3.70419661	1.252694	2.956984	0.003107	0.041087
ENSMUSG0	Tbx20	533.1779	6.121626681	2.070757	2.956226	0.003114	0.041159
ENSMUSG0	Klf3	1817.164	0.660823195	0.223627	2.955021	0.003126	0.041263
ENSMUSG0	AW011738	29.93416	7.332316367	2.48126	2.955078	0.003126	0.041263
ENSMUSG0	Dcxr	52.12366	3.41978352	1.159388	2.949646	0.003181	0.041958
ENSMUSG0	Gm15591	61.80436	-8.443897559	2.863732	-2.94856	0.003193	0.041965
ENSMUSG0	Cdhr1	622.4235	-2.446303248	0.829636	-2.94865	0.003192	0.041965
ENSMUSG0	Psmc3	4381.583	0.582404412	0.19748	2.949186	0.003186	0.041965
ENSMUSG0	Denr	1421.979	0.912019298	0.309315	2.948515	0.003193	0.041965
ENSMUSG0	Gm6712	23.6842	7.412559584	2.513979	2.948537	0.003193	0.041965
ENSMUSG0	Gm12097	25.52467	-4.894890767	1.660751	-2.9474	0.003205	0.042087
ENSMUSG0	Cacna1e	279.3352	-2.859932824	0.970498	-2.94687	0.00321	0.0421
ENSMUSG0	Smc4	8345.968	0.372481053	0.126398	2.946885	0.00321	0.0421
ENSMUSG0	Gm14634	58.29407	7.088120485	2.406061	2.945944	0.00322	0.042197
ENSMUSG0	Pgls	1333.974	0.833645887	0.283054	2.94518	0.003228	0.042261
ENSMUSG0	Polk	336.3376	1.223746196	0.415528	2.945042	0.003229	0.042261

ENSMUSG0	Gm28856	49.84568	12.41774948	4.219621	2.942859	0.003252	0.042531
ENSMUSG0	Cnn1	98.99167	5.463535834	1.858437	2.939855	0.003284	0.042886
ENSMUSG0	Olf1501-ps1	32.46831	14.15269787	4.813898	2.939966	0.003282	0.042886
ENSMUSG0	Arid4b	3560.364	-0.558020923	0.189957	-2.93762	0.003307	0.043166
ENSMUSG0	Cdh3	1661.924	-0.97156244	0.330816	-2.93686	0.003315	0.043197
ENSMUSG0	Lpin2	3320.537	-0.633337422	0.215659	-2.93675	0.003317	0.043197
ENSMUSG0	Apoo	119.4794	3.669126353	1.249346	2.936836	0.003316	0.043197
ENSMUSG0	AC132332.1	26.64653	9.17291851	3.123877	2.936389	0.003321	0.043218
ENSMUSG0	Ube4bos3	30.66591	6.972137355	2.37576	2.934698	0.003339	0.043424
ENSMUSG0	Map3k12	863.8168	-1.061927985	0.361953	-2.93388	0.003348	0.043498
ENSMUSG0	Fcrls	304.503	2.303428972	0.785208	2.933526	0.003351	0.043498
ENSMUSG0	Slc6a4	45.03557	7.357308099	2.507856	2.933704	0.003349	0.043498
ENSMUSG0	Gm9493	120.74	1.843658488	0.628663	2.932664	0.003361	0.043589
ENSMUSG0	Nmnat1	177.7217	1.917415229	0.654472	2.929711	0.003393	0.043975
ENSMUSG0	Cd72	36.59481	7.419477218	2.533149	2.928955	0.003401	0.044022
ENSMUSG0	Gm20394	25.77952	8.56623997	2.9245	2.92913	0.003399	0.044022
ENSMUSG0	AC099934.6	29.50659	-6.553364853	2.237809	-2.92847	0.003406	0.044058
ENSMUSG0	Ntn1	2333.238	-0.6734876	0.229999	-2.92822	0.003409	0.044058
ENSMUSG0	Gm26781	22.37374	7.875805559	2.689772	2.928057	0.003411	0.044058
ENSMUSG0	Gm8141	384.248	2.037616067	0.69613	2.927064	0.003422	0.044169
ENSMUSG0	Mmachc	598.8742	-1.15103166	0.39339	-2.92593	0.003434	0.04427
ENSMUSG0	Gm9530	29.35496	7.88642858	2.695196	2.926106	0.003432	0.04427
ENSMUSG0	Hmgn1	8580.323	0.496755459	0.170038	2.921444	0.003484	0.044851
ENSMUSG0	Bloc1s4	232.6616	2.505996144	0.857794	2.921441	0.003484	0.044851
ENSMUSG0	Mc1r	27.82072	6.713819744	2.299693	2.919442	0.003507	0.045109
ENSMUSG0	Lrp1b	59.9517	-6.562430421	2.248811	-2.91818	0.003521	0.04523
ENSMUSG0	Cyp4f16	396.9754	-1.335183476	0.45752	-2.91831	0.003519	0.04523
ENSMUSG0	Pdgc	1414.712	-1.355578964	0.464578	-2.91787	0.003524	0.045244
ENSMUSG0	Vars2	947.7921	-0.917952447	0.314668	-2.91721	0.003532	0.04531
ENSMUSG0	Wnt3a	29.99965	9.33534976	3.20041	2.916923	0.003535	0.04532
ENSMUSG0	Hoxb3	963.024	1.045755864	0.358573	2.916441	0.00354	0.045359
ENSMUSG0	Avl9	1206.463	-1.048627011	0.359604	-2.91606	0.003545	0.045383
ENSMUSG0	AC165148.1	56.70297	5.009295518	1.718317	2.915233	0.003554	0.04547
ENSMUSG0	Tmem27	74.47208	7.614668535	2.612201	2.915039	0.003556	0.04547
ENSMUSG0	Eral1	474.4737	1.678720644	0.576244	2.91321	0.003577	0.045706
ENSMUSG0	Nup37	348.2027	1.416866534	0.486472	2.912537	0.003585	0.045774
ENSMUSG0	Zbtb24	380.7361	2.047551947	0.703125	2.912073	0.00359	0.045811
ENSMUSG0	Tmem120b	264.3261	-1.957275561	0.672273	-2.91143	0.003598	0.045874
ENSMUSG0	Chn1os3	26.79486	7.708250913	2.649003	2.909869	0.003616	0.046055
ENSMUSG0	A430110C17Rik	50.63837	7.878811248	2.707827	2.909643	0.003618	0.046055
ENSMUSG0	Tnfrsf14	26.82464	8.277162154	2.844808	2.909567	0.003619	0.046055
ENSMUSG0	Cetn2	656.3625	-1.171564731	0.402874	-2.90802	0.003637	0.046221
ENSMUSG0	Tcf5	42.29973	4.873122882	1.675702	2.908108	0.003636	0.046221
ENSMUSG0	Pcdh19	1584.51	-0.967869967	0.332877	-2.90759	0.003642	0.046253
ENSMUSG0	Tg	18.08588	8.565137952	2.94608	2.9073	0.003646	0.046265
ENSMUSG0	Hspa8	25051.72	0.274143306	0.094336	2.906031	0.00366	0.046422
ENSMUSG0	Ccdc30	84.8864	3.727684354	1.283264	2.904846	0.003674	0.046472
ENSMUSG0	Gm14769	37.24243	5.030197688	1.731471	2.905159	0.003671	0.046472

ENSMUSG0	Sp100	62.61995	5.920346734	2.037753	2.905331	0.003669	0.046472
ENSMUSG0	Gm18562	13.43581	7.008378168	2.412604	2.904903	0.003674	0.046472
ENSMUSG0	Ube2h	1642.752	0.708552444	0.24408	2.902948	0.003697	0.046724
ENSMUSG0	Gm42909	100.9352	5.511107595	1.899805	2.900881	0.003721	0.047001
ENSMUSG0	Cyp26c1	363.6734	-1.694993403	0.584721	-2.89881	0.003746	0.047218
ENSMUSG0	Os9	2490.385	-0.548625263	0.189248	-2.89897	0.003744	0.047218
ENSMUSG0	Ddit4l	31.22618	5.154725587	1.778029	2.899124	0.003742	0.047218
ENSMUSG0	Gm45854	40.90341	7.578221227	2.615619	2.897295	0.003764	0.047415
ENSMUSG0	D130020L05Rik	32.73754	6.119300726	2.112789	2.896315	0.003776	0.047531
ENSMUSG0	Thy1	206.2789	6.375646841	2.201589	2.89593	0.00378	0.047558
ENSMUSG0	Nphp4	370.017	-2.273897483	0.7854	-2.89521	0.003789	0.04758
ENSMUSG0	Dcaf17	745.3718	-1.395713918	0.482207	-2.89443	0.003799	0.04758
ENSMUSG0	Nol11	1467.262	-0.711109104	0.245623	-2.89512	0.00379	0.04758
ENSMUSG0	Abraxas1	190.2113	1.871667178	0.646592	2.894667	0.003796	0.04758
ENSMUSG0	Adamts15	31.56082	7.021656561	2.425975	2.894365	0.003799	0.04758
ENSMUSG0	Clec4n	19.62093	7.595288171	2.623435	2.89517	0.00379	0.04758
ENSMUSG0	AC123705.2	27.25513	8.166349101	2.821508	2.894321	0.0038	0.04758
ENSMUSG0	Smt3h2-ps	108.9766	7.022044849	2.426882	2.893443	0.00381	0.047681
ENSMUSG0	Zmym3	1945.637	-0.75868503	0.262369	-2.89168	0.003832	0.047918
ENSMUSG0	Ntrk1	115.9539	-2.532699335	0.87628	-2.89028	0.003849	0.048048
ENSMUSG0	Ankrd24	1100.376	-1.272935142	0.440408	-2.89035	0.003848	0.048048
ENSMUSG0	Nfatc1	696.626	1.140291258	0.394537	2.890197	0.00385	0.048048
ENSMUSG0	Prokr2	49.92486	8.853123011	3.065707	2.887792	0.00388	0.048385
ENSMUSG0	Slc22a13b-ps	28.25204	-9.704574249	3.362423	-2.88618	0.003899	0.048569
ENSMUSG0	Cox7a1	27.20106	7.269853786	2.518829	2.886204	0.003899	0.048569
ENSMUSG0	Hspa2	370.6661	-1.659881915	0.575254	-2.88548	0.003908	0.048646
ENSMUSG0	Adamts12	779.2514	-1.543015242	0.534897	-2.8847	0.003918	0.048702
ENSMUSG0	Slc41a2	110.9565	4.9516002	1.716394	2.884885	0.003916	0.048702
ENSMUSG0	Tnni2	53.00981	7.887024675	2.734691	2.884064	0.003926	0.048768
ENSMUSG0	Krt19	322.4285	-2.137767416	0.741305	-2.88379	0.003929	0.048778
ENSMUSG0	Tanc2	1488.773	0.73495686	0.254944	2.88282	0.003941	0.048896
ENSMUSG0	Slain1	255.5882	-1.31681547	0.456844	-2.88242	0.003946	0.048927
ENSMUSG0	Scpep1	1388.753	1.001381369	0.347445	2.882132	0.00395	0.048939
ENSMUSG0	Dhh	25.50965	7.715125445	2.677432	2.881539	0.003957	0.048999
ENSMUSG0	Hyal2	1335.59	-0.674667627	0.234224	-2.88044	0.003971	0.049125
ENSMUSG0	Eef1d	3757.863	0.912830577	0.316921	2.88031	0.003973	0.049125
ENSMUSG0	Siglece	14.13209	7.676645268	2.666259	2.879182	0.003987	0.049269
ENSMUSG0	Rcn2	3415.253	-0.500157219	0.17374	-2.87876	0.003992	0.049302
ENSMUSG0	Caskin1	521.1374	-1.317430631	0.457707	-2.87833	0.003998	0.049338
ENSMUSG0	Mical2	927.9716	2.155333947	0.749235	2.876713	0.004018	0.049559
ENSMUSG0	AC124453.1	60.50848	-9.596908104	3.337604	-2.87539	0.004035	0.049689
ENSMUSG0	Matk	224.3336	-1.82169844	0.63372	-2.87461	0.004045	0.049689
ENSMUSG0	Aldh6a1	578.7077	-1.737571786	0.604462	-2.87458	0.004046	0.049689
ENSMUSG0	Map3k4	2388.755	-0.735833984	0.255974	-2.87465	0.004045	0.049689
ENSMUSG0	Elovl6	2525.944	-0.710499444	0.247179	-2.87444	0.004047	0.049689
ENSMUSG0	Mrpl54	1212.281	0.706053072	0.245619	2.87459	0.004046	0.049689
ENSMUSG0	Sp140	28.85179	6.640847126	2.309481	2.875472	0.004034	0.049689
ENSMUSG0	Onecut1	62.69775	-5.598226929	1.949529	-2.87158	0.004084	0.050076

ENSMUSG0	Ptk2b	141.3245	4.442574345	1.547017	2.871703	0.004083	0.050076
ENSMUSG0	Scx	314.0277	-2.274544968	0.792159	-2.87132	0.004088	0.050083
ENSMUSG0	Mtif3	178.8265	3.863468905	1.346143	2.870028	0.004104	0.050256
ENSMUSG0	Cdh10	69.67456	6.875353708	2.396517	2.868895	0.004119	0.050404
ENSMUSG0	Tspan2	554.2724	1.428163094	0.497869	2.86855	0.004124	0.050426
ENSMUSG0	Trim63	35.16833	4.655960394	1.623444	2.867952	0.004131	0.050458
ENSMUSG0	Gm26737	19.15884	7.189764003	2.506944	2.86794	0.004132	0.050458
ENSMUSG0	Zfp846	496.1161	-1.737428851	0.605927	-2.86739	0.004139	0.050513
ENSMUSG0	Thsd7b	270.8223	-4.446680613	1.551005	-2.86697	0.004144	0.050547
ENSMUSG0	AC115891.3	44.49636	12.42565935	4.334735	2.866532	0.00415	0.050584
ENSMUSG0	Ccdc25	921.7287	1.290294299	0.45017	2.866241	0.004154	0.050598
ENSMUSG0	Ly6a	158.5858	-5.772216023	2.014179	-2.86579	0.00416	0.050606
ENSMUSG0	Olfir709-ps1	82.65209	-5.451363735	1.902821	-2.86489	0.004172	0.050606
ENSMUSG0	Rarres1	75.40468	-4.228912346	1.476183	-2.86476	0.004173	0.050606
ENSMUSG0	Zc3h15	3556.389	-0.420848294	0.146885	-2.86515	0.004168	0.050606
ENSMUSG0	Arhgdia	11279.8	0.43203103	0.150759	2.865714	0.004161	0.050606
ENSMUSG0	Haus1	344.5854	1.640719398	0.572687	2.864951	0.004171	0.050606
ENSMUSG0	Clca3a1	215.4601	3.76590384	1.314316	2.865297	0.004166	0.050606
ENSMUSG0	B230217O12Rik	18.15736	8.247006038	2.879193	2.864346	0.004179	0.05064
ENSMUSG0	BB218582	26.75955	6.458753838	2.256682	2.862057	0.004209	0.050974
ENSMUSG0	Gm16298	61.75909	-6.953580269	2.42977	-2.86183	0.004212	0.050978
ENSMUSG0	Syt15	35.95533	-9.661737144	3.376727	-2.86127	0.004219	0.051035
ENSMUSG0	Ptafr	69.96541	6.45495555	2.257484	2.859358	0.004245	0.051311
ENSMUSG0	Car15	18.0316	8.401076828	2.938325	2.859138	0.004248	0.051313
ENSMUSG0	Ddx24	2592.993	0.609737208	0.213292	2.858691	0.004254	0.051326
ENSMUSG0	Mrgprf	46.96506	5.97598437	2.09049	2.858652	0.004254	0.051326
ENSMUSG0	Tm9sf3	5831.757	0.372389536	0.130294	2.858073	0.004262	0.051354
ENSMUSG0	Col19a1	28.50098	8.518189457	2.980283	2.858181	0.004261	0.051354
ENSMUSG0	Prr13	594.2206	1.456390038	0.509613	2.857837	0.004265	0.051359
ENSMUSG0	9330020H09Rik	46.09028	7.861910597	2.7518	2.857007	0.004277	0.051461
ENSMUSG0	Gm26583	61.19667	5.547013204	1.941814	2.856614	0.004282	0.051492
ENSMUSG0	Rims4	240.199	5.664696861	1.983454	2.855976	0.00429	0.051562
ENSMUSG0	Gpr137	439.8039	-1.124867975	0.394058	-2.85458	0.004309	0.051757
ENSMUSG0	C130021120Rik	525.2846	-1.642759265	0.575597	-2.85401	0.004317	0.051816
ENSMUSG0	Veph1	230.6769	-2.913982319	1.02113	-2.85368	0.004322	0.051837
ENSMUSG0	Syt11	831.7741	-1.339873912	0.469766	-2.85222	0.004342	0.051977
ENSMUSG0	Gm4875	52.97337	6.510366058	2.282469	2.852335	0.00434	0.051977
ENSMUSG0	Rgs18	18.74892	8.600271877	3.015087	2.852412	0.004339	0.051977
ENSMUSG0	Gm15428	29.62771	5.076311795	1.780526	2.851018	0.004358	0.05214
ENSMUSG0	Nrep	6373.513	-0.423053717	0.148451	-2.84978	0.004375	0.05231
ENSMUSG0	Pnkp	446.7932	1.812881174	0.63622	2.849458	0.004379	0.05233
ENSMUSG0	Vsnl1	38.22673	-9.123438542	3.204095	-2.84743	0.004407	0.052598
ENSMUSG0	Grm2	49.1182	-5.572931581	1.957336	-2.8472	0.004411	0.052598
ENSMUSG0	Map3k5	378.5259	2.535943296	0.890605	2.84744	0.004407	0.052598
ENSMUSG0	Pianp	53.46713	7.419575829	2.606077	2.847028	0.004413	0.052598
ENSMUSG0	Tm7sf3	867.6791	-1.180717538	0.415012	-2.84502	0.004441	0.052897
ENSMUSG0	Gm11914	103.584	3.455536514	1.214969	2.844135	0.004453	0.052977
ENSMUSG0	Gm43609	40.99994	7.41808673	2.608047	2.844307	0.004451	0.052977

ENSMUSG0	Etl4	3378.779	-1.082230985	0.380591	-2.84355	0.004461	0.053007
ENSMUSG0	Pomc	35.82589	6.485240233	2.280637	2.843609	0.004461	0.053007
ENSMUSG0	Tpi1	3653.692	-0.364349896	0.128148	-2.8432	0.004466	0.053031
ENSMUSG0	1700039E22Rik	62.65506	-4.372700647	1.538673	-2.84187	0.004485	0.053218
ENSMUSG0	Rab21	1348.956	-0.747073099	0.262898	-2.84168	0.004488	0.053218
ENSMUSG0	Matn2	604.466	2.242610905	0.789303	2.841256	0.004494	0.053255
ENSMUSG0	Fam71e1	18.5754	7.730099623	2.72085	2.841061	0.004496	0.053255
ENSMUSG0	Slc25a18	32.15106	7.682641851	2.704918	2.84025	0.004508	0.053357
ENSMUSG0	Sptbn2	1281.839	-1.617183734	0.569472	-2.8398	0.004514	0.05338
ENSMUSG0	Rrp36	609.1539	-1.447457298	0.509738	-2.83961	0.004517	0.05338
ENSMUSG0	Extl2	485.2941	-1.402304245	0.493854	-2.83951	0.004518	0.05338
ENSMUSG0	Gnrh1	20.65659	8.308048738	2.927079	2.838341	0.004535	0.053542
ENSMUSG0	Ralgps1	329.539	-1.764099206	0.621904	-2.83661	0.00456	0.053732
ENSMUSG0	Otud6b	1138.884	0.742426671	0.261718	2.836746	0.004558	0.053732
ENSMUSG0	Mitf	290.6383	3.767669117	1.328063	2.836965	0.004554	0.053732
ENSMUSG0	Six3	15.87868	7.783334526	2.744138	2.83635	0.004563	0.053742
ENSMUSG0	Gm17530	47.42822	-5.251380471	1.852151	-2.83529	0.004578	0.053857
ENSMUSG0	Tmem51	92.64753	2.729020416	0.962525	2.835271	0.004579	0.053857
ENSMUSG0	Atp6v0a2	1393.385	1.316091951	0.464329	2.834394	0.004591	0.053971
ENSMUSG0	Nudt6	23.41521	7.838783481	2.766072	2.833904	0.004598	0.05402
ENSMUSG0	Jade1	1398.043	-0.632647122	0.22331	-2.83305	0.004611	0.054132
ENSMUSG0	Eda2r	104.3893	-4.213541706	1.487701	-2.83225	0.004622	0.054177
ENSMUSG0	Dnpep	1286.087	1.011587654	0.357194	2.832043	0.004625	0.054177
ENSMUSG0	Zdhhc14	98.91604	4.528767643	1.598881	2.832461	0.004619	0.054177
ENSMUSG0	Gm14399	13.15188	7.309564965	2.581081	2.831978	0.004626	0.054177
ENSMUSG0	Cd40	177.5348	3.478990572	1.229246	2.830182	0.004652	0.054448
ENSMUSG0	Gm44837	45.31719	7.963151002	2.813845	2.82999	0.004655	0.054448
ENSMUSG0	Fam227a	219.7554	-1.309802796	0.462993	-2.82899	0.00467	0.054555
ENSMUSG0	A4galt	34.53042	7.434721179	2.628072	2.828964	0.00467	0.054555
ENSMUSG0	4930426D05Rik	275.0064	-2.63002255	0.929971	-2.82807	0.004683	0.054572
ENSMUSG0	Pgpep1	759.544	-1.432377439	0.506402	-2.82854	0.004676	0.054572
ENSMUSG0	St13	5098.78	0.522426253	0.184704	2.828457	0.004677	0.054572
ENSMUSG0	Gm10143	24.58083	7.823212588	2.766193	2.828151	0.004682	0.054572
ENSMUSG0	Mdm4	3745.506	-0.512842561	0.181435	-2.82659	0.004705	0.054784
ENSMUSG0	Stip1	5363.602	0.326325464	0.115455	2.826428	0.004707	0.054784
ENSMUSG0	Afg3l1	1503.953	1.204318163	0.42618	2.825841	0.004716	0.054817
ENSMUSG0	Atp6v1e1	882.3758	1.283195526	0.454081	2.825917	0.004715	0.054817
ENSMUSG0	Wdr43	2793.954	0.603314073	0.213515	2.825626	0.004719	0.05482
ENSMUSG0	2310014F06Rik	51.27994	7.510991884	2.658577	2.825192	0.004725	0.05486
ENSMUSG0	Dll3	66.07209	5.284235115	1.870657	2.824802	0.004731	0.054893
ENSMUSG0	Rps13-ps1	82.37431	-2.320932662	0.821903	-2.82385	0.004745	0.055022
ENSMUSG0	Prrg3	1284.561	-1.435329693	0.508323	-2.82365	0.004748	0.055022
ENSMUSG0	Cnrip1	227.5717	3.085921889	1.093403	2.822309	0.004768	0.055152
ENSMUSG0	1700109K24Rik	50.73334	6.132907549	2.172719	2.822688	0.004762	0.055152
ENSMUSG0	St14	633.3583	-1.582665527	0.560928	-2.82151	0.00478	0.055187
ENSMUSG0	Gm6645	27.65097	8.709127412	3.087336	2.82092	0.004789	0.055255
ENSMUSG0	Nap1l3	58.23892	4.668430527	1.656429	2.81837	0.004827	0.055641
ENSMUSG0	Hpn	333.4417	-2.486866987	0.88283	-2.81693	0.004849	0.055776

ENSMUSG0	Capn3	23.02422	6.717328722	2.384609	2.816952	0.004848	0.055776
ENSMUSG0	Ly96	82.05201	-4.014358597	1.425406	-2.81629	0.004858	0.055818
ENSMUSG0	Scn8a	894.5871	-1.527307282	0.54272	-2.81417	0.00489	0.05611
ENSMUSG0	Nup35	261.1962	2.012544153	0.715482	2.812852	0.00491	0.056247
ENSMUSG0	Gm8770	35.85359	8.032779594	2.857736	2.810889	0.00494	0.056523
ENSMUSG0	Gm11952	19.95087	-8.963872477	3.189638	-2.81031	0.004949	0.05659
ENSMUSG0	Gm15584	224.6598	-3.042205917	1.082966	-2.80914	0.004967	0.056596
ENSMUSG0	Dmd	728.7173	-2.062937956	0.734218	-2.80971	0.004959	0.056596
ENSMUSG0	Adrb2	99.08809	4.185165312	1.489702	2.809397	0.004963	0.056596
ENSMUSG0	Nlrc5	52.8625	7.927579356	2.822102	2.809105	0.004968	0.056596
ENSMUSG0	Gm8826	14.22429	8.170238942	2.907853	2.809716	0.004959	0.056596
ENSMUSG0	Gm14094	50.77178	-9.10949824	3.243415	-2.80861	0.004976	0.056648
ENSMUSG0	Mmp23	529.2656	1.701323949	0.606646	2.804474	0.00504	0.057208
ENSMUSG0	Ano3	66.06287	6.890702936	2.457023	2.804493	0.00504	0.057208
ENSMUSG0	Pthr2	321.2333	1.847069952	0.659072	2.802533	0.00507	0.057518
ENSMUSG0	E030026E10Rik	60.19114	7.286785506	2.600987	2.801547	0.005086	0.057614
ENSMUSG0	Gm45353	15.89838	8.125041909	2.900338	2.801412	0.005088	0.057614
ENSMUSG0	Cys1	216.6882	5.541313504	1.978299	2.80105	0.005094	0.057645
ENSMUSG0	Aatk	315.3512	-2.688948439	0.96006	-2.80081	0.005097	0.057652
ENSMUSG0	Cd300a	126.7503	4.302299431	1.537051	2.799061	0.005125	0.057922
ENSMUSG0	Tmem147os	17.86701	7.63391218	2.727451	2.798918	0.005127	0.057922
ENSMUSG0	Gm12362	28.97494	7.720023341	2.758487	2.798644	0.005132	0.057928
ENSMUSG0	Gm42658	110.3518	4.397763895	1.574044	2.793926	0.005207	0.058648
ENSMUSG0	Slc13a4	12.95381	7.77196883	2.782162	2.7935	0.005214	0.05869
ENSMUSG0	Jph2	215.7846	2.589279807	0.92705	2.793031	0.005222	0.05874
ENSMUSG0	Stard3nl	651.1945	-1.499157294	0.536968	-2.79189	0.00524	0.058877
ENSMUSG0	Gm16104	30.71967	8.824319689	3.16121	2.791438	0.005247	0.058924
ENSMUSG0	Gm7599	66.28756	-5.594079092	2.004755	-2.7904	0.005264	0.059077
ENSMUSG0	Gm9078	148.9906	-5.87013258	2.105275	-2.7883	0.005299	0.059321
ENSMUSG0	Tnik	654.3499	-1.703405012	0.61112	-2.78735	0.005314	0.059321
ENSMUSG0	Plscr2	137.3951	6.132967103	2.199975	2.787744	0.005308	0.059321
ENSMUSG0	Gm15903	26.01406	6.378895706	2.288492	2.78738	0.005314	0.059321
ENSMUSG0	Psors1c2	19.54939	7.404292126	2.656404	2.787336	0.005314	0.059321
ENSMUSG0	Klhl10	27.57927	7.664944663	2.750485	2.786761	0.005324	0.059392
ENSMUSG0	Rpph1	23.95251	7.154535991	2.569233	2.784697	0.005358	0.0597
ENSMUSG0	9130008F23Rik	22.12267	7.554460084	2.714079	2.783434	0.005379	0.059897
ENSMUSG0	Eif4e3	303.7256	1.665638265	0.598572	2.782687	0.005391	0.059962
ENSMUSG0	Bco1	39.38617	6.037273697	2.169705	2.782532	0.005394	0.059962
ENSMUSG0	Gm42970	23.85964	7.109152746	2.554944	2.782508	0.005394	0.059962
ENSMUSG0	Gm4117	376.1127	-1.905154355	0.684992	-2.78128	0.005415	0.060154
ENSMUSG0	Klhdc8a	144.0219	-4.721950357	1.698078	-2.78076	0.005423	0.060159
ENSMUSG0	Rrp7a	980.2077	1.327136773	0.477336	2.780299	0.005431	0.060159
ENSMUSG0	Mcur1	727.2534	1.421801987	0.511329	2.780602	0.005426	0.060159
ENSMUSG0	Parp9	134.5365	2.477084606	0.890707	2.781033	0.005419	0.060159
ENSMUSG0	Gm15835	15.68166	8.190454785	2.946612	2.779617	0.005442	0.060214
ENSMUSG0	Gtf2h5	846.8475	1.31533005	0.473469	2.778071	0.005468	0.060324
ENSMUSG0	Lama3	96.05164	3.882846805	1.397494	2.778435	0.005462	0.060324
ENSMUSG0	Bank1	34.90826	7.289983141	2.624313	2.777864	0.005472	0.060327

ENSMUSG0	Slc25a5-ps	44.89366	5.473469292	1.971364	2.776489	0.005495	0.060547
ENSMUSG0	Hoxa10	1562.332	4.266502612	1.536815	2.776197	0.0055	0.060566
ENSMUSG0	Olf387-ps1	33.4005	-5.703280661	2.055238	-2.775	0.00552	0.060719
ENSMUSG0	Lpin1	269.0841	-2.120782498	0.764322	-2.77472	0.005525	0.060735
ENSMUSG0	Gm29340	67.94417	-9.131916953	3.293481	-2.77272	0.005559	0.061038
ENSMUSG0	Poglut1	947.7691	-1.438295561	0.519021	-2.77117	0.005586	0.061258
ENSMUSG0	Hoxa9	1234.696	-2.279387211	0.823959	-2.76638	0.005668	0.061948
ENSMUSG0	Fam20a	109.5921	-3.330074307	1.203977	-2.7659	0.005677	0.062005
ENSMUSG0	Gm8744	262.7826	-4.468908585	1.616426	-2.76468	0.005698	0.062164
ENSMUSG0	AA414768	23.4859	7.738299724	2.799799	2.763877	0.005712	0.062246
ENSMUSG0	Gata4	393.5665	4.757920827	1.722418	2.76235	0.005739	0.062357
ENSMUSG0	1010001N08Rik	20.73662	7.674587362	2.778144	2.762487	0.005736	0.062357
ENSMUSG0	Rnf112	28.95205	-8.102846637	2.934694	-2.76105	0.005762	0.062569
ENSMUSG0	Zfp551	75.43978	3.936053017	1.425766	2.760659	0.005768	0.062608
ENSMUSG0	Car7	82.43247	-6.590557497	2.388147	-2.75969	0.005786	0.062613
ENSMUSG0	Dner	54.58887	-3.518855514	1.274849	-2.76021	0.005776	0.062613
ENSMUSG0	Gm11224	34.34659	4.967781559	1.799641	2.760429	0.005773	0.062613
ENSMUSG0	Gab3	17.77756	7.247040736	2.625905	2.759826	0.005783	0.062613
ENSMUSG0	Nkain3	153.3515	-3.275774479	1.187291	-2.75903	0.005797	0.062704
ENSMUSG0	Crif2	195.1464	3.787260323	1.3729	2.758584	0.005805	0.062754
ENSMUSG0	Gm3636	62.06008	3.585203015	1.300118	2.757599	0.005823	0.062871
ENSMUSG0	Tmc4	288.2776	-2.767770163	1.003969	-2.75683	0.005837	0.062911
ENSMUSG0	5430431A17Rik	80.36118	5.427347836	1.968626	2.756921	0.005835	0.062911
ENSMUSG0	Gm43412	70.66805	-2.75091952	0.998229	-2.7558	0.005855	0.063037
ENSMUSG0	Olf881	82.21099	-5.877832468	2.133393	-2.75516	0.005866	0.063125
ENSMUSG0	Gpsm3	413.7564	1.756950384	0.637973	2.753957	0.005888	0.063248
ENSMUSG0	AC159139.1	27.64128	-3.872967971	1.406823	-2.75299	0.005905	0.063399
ENSMUSG0	AC117232.2	82.43104	-8.664567539	3.152615	-2.74837	0.005989	0.064262
ENSMUSG0	Gm19187	40.8614	-6.841939867	2.491076	-2.74658	0.006022	0.064561
ENSMUSG0	Syne4	298.6701	-1.484980445	0.540758	-2.74611	0.006031	0.064561
ENSMUSG0	AC131187.2	120.4892	1.910713738	0.695753	2.746252	0.006028	0.064561
ENSMUSG0	Sox30	37.68787	7.537377554	2.744495	2.746362	0.006026	0.064561
ENSMUSG0	Zeb2os	21.6997	7.689291544	2.800922	2.745271	0.006046	0.064689
ENSMUSG0	Snord66	19.87975	7.528334006	2.744515	2.743047	0.006087	0.065091
ENSMUSG0	Pcbd2	119.2437	-2.048908582	0.747356	-2.74154	0.006115	0.065353
ENSMUSG0	Pla2g7	829.207	1.348842402	0.492086	2.741073	0.006124	0.065372
ENSMUSG0	Sgsh	331.5122	3.088750572	1.127853	2.738612	0.00617	0.065789
ENSMUSG0	Myct1	455.7689	-1.631771451	0.595948	-2.73811	0.006179	0.065853
ENSMUSG0	Gm8730	1157.048	-1.512973353	0.552783	-2.73701	0.0062	0.06596
ENSMUSG0	Sim2	135.5452	7.156089417	2.614397	2.737185	0.006197	0.06596
ENSMUSG0	Pcdhb7	38.73702	6.22457746	2.276218	2.734613	0.006245	0.066371
ENSMUSG0	Gm43913	24.70009	6.32638398	2.316358	2.731177	0.006311	0.066956
ENSMUSG0	Tap2	50.17465	8.095972449	2.964307	2.731152	0.006311	0.066956
ENSMUSG0	Cxcl9	21.28128	-6.819578196	2.500478	-2.72731	0.006385	0.067608
ENSMUSG0	Oxtr	535.2686	4.639563065	1.70121	2.727214	0.006387	0.067608
ENSMUSG0	Ildr2	641.8466	1.330345085	0.487858	2.726911	0.006393	0.067632
ENSMUSG0	Olf1340	61.05014	-7.519588264	2.758474	-2.726	0.006411	0.067781
ENSMUSG0	Rpsa-ps4	71.76304	2.518236095	0.923958	2.725488	0.006421	0.06781

ENSMUSG0	Fscn2	20.62749	6.544362116	2.401144	2.725518	0.00642	0.06781
ENSMUSG0	lsg20	17.34529	7.585962825	2.78482	2.724041	0.006449	0.068031
ENSMUSG0	Nudt22	96.53968	3.824624039	1.405002	2.722148	0.006486	0.068384
ENSMUSG0	Gm10364	29.57401	-6.231993408	2.290055	-2.72133	0.006502	0.068397
ENSMUSG0	Avpr1b	111.4248	6.491859229	2.385493	2.72139	0.006501	0.068397
ENSMUSG0	Gm26785	71.71078	6.868082793	2.523957	2.721157	0.006505	0.068397
ENSMUSG0	A930012L18Rik	173.4921	7.758527305	2.850928	2.721405	0.006501	0.068397
ENSMUSG0	AC151971.9	32.79733	-7.39999269	2.720874	-2.71971	0.006534	0.068472
ENSMUSG0	Plet1	104.2704	-2.640489338	0.970619	-2.72042	0.00652	0.068472
ENSMUSG0	Bbs10	27.70491	7.039984769	2.588101	2.720135	0.006526	0.068472
ENSMUSG0	Rerg	201.0751	2.135463144	0.786018	2.716811	0.006591	0.069008
ENSMUSG0	Rmdn2	255.1075	2.277907651	0.838471	2.71674	0.006593	0.069008
ENSMUSG0	Glrbl	234.5025	-1.663312447	0.612772	-2.71441	0.006639	0.069342
ENSMUSG0	Gm23727	25.86046	7.992840964	2.944154	2.714817	0.006631	0.069342
ENSMUSG0	Gm6505	42.68933	6.507375459	2.397817	2.713875	0.00665	0.069415
ENSMUSG0	Gm29718	16.07385	5.032188123	1.855306	2.712322	0.006681	0.069703
ENSMUSG0	AC141560.1	47.7563	7.339976371	2.706478	2.712003	0.006688	0.069731
ENSMUSG0	Gm29418	83.20414	-4.645618975	1.713352	-2.71142	0.0067	0.069815
ENSMUSG0	Sema3e	438.5134	-1.546434927	0.570466	-2.71083	0.006712	0.069901
ENSMUSG0	Gm3716	153.1014	3.541950492	1.306809	2.710382	0.006721	0.069923
ENSMUSG0	Cacnb4	203.7051	5.057560934	1.866011	2.71036	0.006721	0.069923
ENSMUSG0	Fbxo48	51.01004	3.710946657	1.369651	2.709411	0.00674	0.070045
ENSMUSG0	Crfl1	271.3017	-4.975815203	1.836756	-2.70902	0.006748	0.070088
ENSMUSG0	Catsper2	187.2217	-2.551364011	0.94225	-2.70773	0.006774	0.070284
ENSMUSG0	Srcap	823.7031	-1.367041772	0.504927	-2.70741	0.006781	0.070314
ENSMUSG0	Ino80dos	35.43289	7.147557235	2.640524	2.706871	0.006792	0.07035
ENSMUSG0	Pxdc1	144.9551	1.677172596	0.619694	2.706454	0.006801	0.0704
ENSMUSG0	Insm2	34.91621	-8.025794968	2.966401	-2.70557	0.006819	0.07055
ENSMUSG0	Trim80	30.26668	7.88324737	2.914526	2.704813	0.006834	0.070594
ENSMUSG0	Gm18717	25.3716	-7.944970652	2.93818	-2.70405	0.00685	0.070718
ENSMUSG0	Susd1	690.6484	1.661049946	0.614356	2.703723	0.006857	0.070748
ENSMUSG0	Parvg	170.2718	3.011486048	1.114591	2.701876	0.006895	0.071064
ENSMUSG0	Zfp960	37.50442	-8.812039327	3.263282	-2.70036	0.006926	0.071271
ENSMUSG0	Crym	449.3485	-1.760970319	0.652105	-2.70044	0.006925	0.071271
ENSMUSG0	Ano5	107.3301	5.986971643	2.219517	2.697421	0.006988	0.071747
ENSMUSG0	AC153969.1	76.64302	-7.278293418	2.698972	-2.69669	0.007003	0.071865
ENSMUSG0	Leprotl1	600.5411	1.474229432	0.546813	2.69604	0.007017	0.071967
ENSMUSG0	Dhrs11	97.18391	1.823117762	0.676727	2.694024	0.00706	0.072364
ENSMUSG0	C130073E24Rik	52.29421	6.92211	2.570531	2.692872	0.007084	0.07256
ENSMUSG0	Cadps	221.3393	-2.929662239	1.088097	-2.69246	0.007093	0.072585
ENSMUSG0	Dgkb	90.71526	6.288756902	2.336301	2.691758	0.007108	0.072699
ENSMUSG0	Faap20	418.6103	1.333009708	0.495335	2.691129	0.007121	0.072797
ENSMUSG0	4833418N02Rik	23.27967	5.477367387	2.036732	2.689293	0.00716	0.07304
ENSMUSG0	Rimklb	982.8187	-1.520959523	0.565652	-2.68886	0.00717	0.073095
ENSMUSG0	Slfn10-ps	13.55959	7.980357155	2.970562	2.68648	0.007221	0.073498
ENSMUSG0	Gm10638	104.773	-3.343530845	1.244895	-2.68579	0.007236	0.073577
ENSMUSG0	Dynlt1a	29.35382	5.259181316	1.958171	2.685762	0.007236	0.073577
ENSMUSG0	Flrt1	165.9804	3.206993643	1.194949	2.683792	0.007279	0.073932

ENSMUSG0	Senp8	334.4847	-2.043265936	0.761531	-2.6831	0.007294	0.074044
ENSMUSG0	Nlrp5-ps	27.94159	6.481476524	2.418253	2.680231	0.007357	0.074588
ENSMUSG0	3110099E03Rik	14.96071	6.725674882	2.509475	2.680113	0.00736	0.074588
ENSMUSG0	Gm45605	112.2474	-6.332769957	2.364733	-2.67801	0.007406	0.074857
ENSMUSG0	Mdga1	474.1979	-1.744765824	0.651516	-2.67801	0.007406	0.074857
ENSMUSG0	Was	245.87	3.124390787	1.166871	2.67758	0.007416	0.074912
ENSMUSG0	Kcnk1	267.3189	-2.045359683	0.764068	-2.67693	0.00743	0.074977
ENSMUSG0	Mfsd7c	16.22949	6.303300683	2.354608	2.677006	0.007428	0.074977
ENSMUSG0	AI413582	90.1103	2.161964982	0.807921	2.675961	0.007452	0.075115
ENSMUSG0	Stat1	154.7817	3.788826252	1.415878	2.675956	0.007452	0.075115
ENSMUSG0	AC107819.3	85.45704	4.768786016	1.782343	2.675571	0.00746	0.075161
ENSMUSG0	Zfp869	419.521	-1.596164942	0.596721	-2.67489	0.007475	0.075273
ENSMUSG0	Gm15445	29.81136	7.097771249	2.654913	2.673447	0.007508	0.075558
ENSMUSG0	Dok2	303.5219	2.336209382	0.873947	2.67317	0.007514	0.07558
ENSMUSG0	Kbtbd13	17.52503	7.468991613	2.796433	2.6709	0.007565	0.075971
ENSMUSG0	Rgs4	319.1426	-1.785608842	0.6687	-2.67027	0.007579	0.076074
ENSMUSG0	9230112E08Rik	89.16328	3.510982649	1.315222	2.669498	0.007596	0.076167
ENSMUSG0	Ttll13	22.56939	6.233664861	2.33611	2.668395	0.007621	0.076336
ENSMUSG0	Zfp64	760.439	1.49226768	0.559689	2.666245	0.00767	0.076704
ENSMUSG0	Gm7047	18.25189	7.690181625	2.884591	2.665952	0.007677	0.07673
ENSMUSG0	Gm14295	33.17813	7.641243068	2.866534	2.665674	0.007683	0.076753
ENSMUSG0	Synpo2l	132.4048	2.952556964	1.108536	2.663474	0.007734	0.077174
ENSMUSG0	BC048403	122.8229	2.691895388	1.011538	2.661191	0.007786	0.077658
ENSMUSG0	Ly86	195.0961	3.477044512	1.307054	2.660215	0.007809	0.077786
ENSMUSG0	Tmie	87.94571	7.270592271	2.733329	2.659977	0.007815	0.077786
ENSMUSG0	Gm4705	102.1937	4.247507832	1.598035	2.657957	0.007862	0.078118
ENSMUSG0	Fxyd2	220.8986	5.309165029	1.998622	2.656413	0.007898	0.078435
ENSMUSG0	Gm37333	24.81989	8.405318148	3.164649	2.656003	0.007907	0.078489
ENSMUSG0	Gm12473	124.1186	-2.780365278	1.04742	-2.65449	0.007943	0.078759
ENSMUSG0	AC153382.2	35.67068	7.393477385	2.786326	2.653487	0.007966	0.078952
ENSMUSG0	Chst9	20.4328	-7.58358278	2.860242	-2.65138	0.008016	0.079279
ENSMUSG0	Tcf21	1401.913	3.735954637	1.409689	2.650198	0.008044	0.079432
ENSMUSG0	Gm4342	50.32303	-3.630820426	1.370168	-2.64991	0.008051	0.079458
ENSMUSG0	Nlgn3	165.3775	-2.993494792	1.130152	-2.64875	0.008079	0.079605
ENSMUSG0	Has2os	22.84184	-9.431534292	3.561311	-2.64833	0.008089	0.079663
ENSMUSG0	C1qb	725.9545	2.189312427	0.827035	2.647182	0.008117	0.07985
ENSMUSG0	Gstt3	76.64283	7.170460138	2.710309	2.645625	0.008154	0.080068
ENSMUSG0	Musk	47.95616	-10.0248742	3.791099	-2.64432	0.008186	0.080274
ENSMUSG0	Gm19028	18.6403	5.045923576	1.908175	2.644372	0.008184	0.080274
ENSMUSG0	Tal2	14.60357	7.443079346	2.816935	2.642261	0.008235	0.080599
ENSMUSG0	Gm45555	54.94052	5.29311331	2.003569	2.641842	0.008246	0.080656
ENSMUSG0	Gm26551	30.69866	7.445870666	2.818837	2.641469	0.008255	0.080703
ENSMUSG0	Gm37352	32.31713	7.038696988	2.666831	2.639349	0.008307	0.081126
ENSMUSG0	Aktip	780.6911	1.77470984	0.672573	2.638687	0.008323	0.081241
ENSMUSG0	Gm42776	39.3415	12.44642921	4.717212	2.638514	0.008327	0.081241
ENSMUSG0	Gm42728	22.49799	-9.417403076	3.570137	-2.63783	0.008344	0.081328
ENSMUSG0	Kif1a	1315.932	-1.843002564	0.698689	-2.6378	0.008345	0.081328
ENSMUSG0	FrmD3	30.87427	-6.272200596	2.378418	-2.63713	0.008361	0.081336

ENSMUSG0	Ubox5	302.1591	1.771731445	0.671874	2.637	0.008364	0.081336
ENSMUSG0	Arhgef6	223.47	3.206289664	1.216034	2.636679	0.008372	0.081336
ENSMUSG0	Khk	107.7947	4.423413423	1.677229	2.637334	0.008356	0.081336
ENSMUSG0	Lbx2	25.57388	6.2048311	2.353217	2.636744	0.008371	0.081336
ENSMUSG0	Vstm5	34.87738	7.76553494	2.945171	2.636701	0.008372	0.081336
ENSMUSG0	Tubb3	1271.484	-1.533826566	0.581814	-2.63628	0.008382	0.081356
ENSMUSG0	Gm43682	23.61856	7.938686107	3.011579	2.636054	0.008388	0.081369
ENSMUSG0	Gm10224	35.80992	-3.753428278	1.424537	-2.63484	0.008418	0.081531
ENSMUSG0	Nrarp	203.8957	-1.610013063	0.611038	-2.63488	0.008417	0.081531
ENSMUSG0	Mob3a	266.2751	1.865981481	0.708226	2.634724	0.008421	0.081531
ENSMUSG0	Cnpy1	21.39181	8.697041287	3.300986	2.63468	0.008422	0.081531
ENSMUSG0	Lgals2	24.5453	-9.102087546	3.45522	-2.6343	0.008431	0.08158
ENSMUSG0	Tgm1	56.46206	5.405513329	2.054504	2.631055	0.008512	0.08211
ENSMUSG0	Gm37105	55.02408	7.026233381	2.670387	2.631167	0.008509	0.08211
ENSMUSG0	Itgb3	245.1595	1.686097655	0.641155	2.629784	0.008544	0.082375
ENSMUSG0	Gm5597	28.07512	-8.523409564	3.24177	-2.62925	0.008557	0.082463
ENSMUSG0	Gm33594	51.28009	-3.785883326	1.441224	-2.62685	0.008618	0.082749
ENSMUSG0	Myh14	315.675	-2.057244086	0.783009	-2.62736	0.008605	0.082749
ENSMUSG0	Rpain	241.3662	2.688507642	1.023408	2.627014	0.008614	0.082749
ENSMUSG0	Gm45737	15.59639	7.085419637	2.696667	2.627473	0.008602	0.082749
ENSMUSG0	Tigar	250.8686	2.92442767	1.113977	2.625214	0.008659	0.083106
ENSMUSG0	Slc15a2	125.0266	-3.51923018	1.341216	-2.62391	0.008693	0.083297
ENSMUSG0	Creg1	464.8308	2.162190528	0.823996	2.624031	0.00869	0.083297
ENSMUSG0	Hlcs	550.8098	1.590459812	0.606452	2.622563	0.008727	0.083465
ENSMUSG0	Plekhh1	244.679	-3.104599006	1.183906	-2.62234	0.008733	0.083471
ENSMUSG0	4933423P22Rik	36.50638	-7.853503669	2.995366	-2.62188	0.008745	0.083539
ENSMUSG0	Gm37621	23.54814	7.154733781	2.729149	2.621599	0.008752	0.083566
ENSMUSG0	Tfcp2l1	493.7821	-4.154252121	1.584991	-2.62099	0.008767	0.08363
ENSMUSG0	Ccr9	69.85491	-3.027771009	1.155149	-2.62111	0.008764	0.08363
ENSMUSG0	Fstl4	67.32283	2.867811341	1.095408	2.61803	0.008844	0.084275
ENSMUSG0	Kcnab2	196.5388	2.013672846	0.769607	2.616496	0.008884	0.084611
ENSMUSG0	D130017N08Rik	122.9451	3.014532029	1.152584	2.615455	0.008911	0.084799
ENSMUSG0	Gm37818	136.8657	4.906921799	1.876169	2.615394	0.008912	0.084799
ENSMUSG0	Palm3	330.5789	1.875774869	0.717366	2.61481	0.008928	0.084851
ENSMUSG0	Gm28192	21.64265	7.011279051	2.681266	2.614913	0.008925	0.084851
ENSMUSG0	Gm45853	32.08783	7.582602034	2.900822	2.61395	0.00895	0.084944
ENSMUSG0	Akr1cl	244.8225	4.2890337	1.640952	2.613747	0.008956	0.084951
ENSMUSG0	Gm7984	32.94086	5.75593169	2.203058	2.612701	0.008983	0.085152
ENSMUSG0	Rdh12	45.60645	6.768499823	2.59072	2.612594	0.008986	0.085152
ENSMUSG0	Havcr2	20.45023	8.767953353	3.35711	2.611756	0.009008	0.085318
ENSMUSG0	Gm6397	24.9824	7.138057846	2.734983	2.609909	0.009057	0.085651
ENSMUSG0	Satb2	516.1837	-1.314947987	0.50397	-2.60918	0.009076	0.085748
ENSMUSG0	Gm35040	67.25208	7.140472951	2.73655	2.609298	0.009073	0.085748
ENSMUSG0	Lsm1	378.0336	1.594524196	0.611212	2.60879	0.009086	0.085802
ENSMUSG0	Angptl8	35.44906	5.808302137	2.227263	2.60782	0.009112	0.08596
ENSMUSG0	Gm22478	59.31275	6.385756696	2.449367	2.607105	0.009131	0.08601
ENSMUSG0	1700055D18Rik	20.86796	7.426270525	2.848406	2.607167	0.009129	0.08601
ENSMUSG0	Thnsl2	136.068	3.371114196	1.293427	2.606343	0.009151	0.086159

ENSMUSG0	Mgst1	290.7082	1.890860372	0.725595	2.605946	0.009162	0.086215
ENSMUSG0	Med29	112.2654	2.809896687	1.078512	2.605346	0.009178	0.086244
ENSMUSG0	Gm37678	18.2258	7.769576038	2.982588	2.604978	0.009188	0.086244
ENSMUSG0	Laptm5	1333.412	1.593340273	0.611715	2.60471	0.009195	0.086268
ENSMUSG0	Gpr162	268.9257	-2.413191147	0.926903	-2.6035	0.009228	0.086507
ENSMUSG0	Gm7514	33.45451	7.530439289	2.892708	2.603249	0.009234	0.086507
ENSMUSG0	D5Ertd605e	31.13516	8.60065158	3.304614	2.602619	0.009251	0.08658
ENSMUSG0	AC153536.3	65.1664	-4.24542133	1.631609	-2.60198	0.009269	0.086697
ENSMUSG0	Gm11451	120.4762	3.725215436	1.432008	2.601393	0.009285	0.086804
ENSMUSG0	Gchfr	32.7868	6.905383215	2.655286	2.600618	0.009306	0.086957
ENSMUSG0	Alpk3	202.4083	2.573222251	0.989957	2.599328	0.009341	0.087241
ENSMUSG0	Rnf26	30.28581	-8.337001117	3.209885	-2.59729	0.009396	0.087472
ENSMUSG0	Myo1g	215.6967	2.4046057	0.92561	2.59786	0.009381	0.087472
ENSMUSG0	Raet1e	70.78105	4.716195419	1.815643	2.597534	0.00939	0.087472
ENSMUSG0	Ttc22	124.6124	-4.864101734	1.873854	-2.59577	0.009438	0.087713
ENSMUSG0	Rnd1	64.00639	3.495744324	1.346827	2.595541	0.009444	0.08773
ENSMUSG0	Socs2	424.9541	-1.342026463	0.517385	-2.59386	0.00949	0.088116
ENSMUSG0	Rpp25l	175.6843	2.676559656	1.032277	2.592871	0.009518	0.088282
ENSMUSG0	Gm36963	15.75002	7.884884492	3.042078	2.591941	0.009544	0.088435
ENSMUSG0	Hsf2bp	64.19256	-6.889723713	2.660071	-2.59005	0.009596	0.088834
ENSMUSG0	Ipp	169.0961	2.008551022	0.775672	2.589435	0.009613	0.08895
ENSMUSG0	Dlgap1	138.4283	-3.433616072	1.326338	-2.58879	0.009631	0.089028
ENSMUSG0	AC154861.1	17.78274	5.841168081	2.25625	2.588883	0.009629	0.089028
ENSMUSG0	Spa17	80.21896	-3.401453408	1.314347	-2.58794	0.009655	0.089161
ENSMUSG0	Adra2b	48.05198	6.988189543	2.700123	2.5881	0.009651	0.089161
ENSMUSG0	Has1	46.19866	8.02170191	3.101867	2.586088	0.009707	0.089554
ENSMUSG0	Cdh26	37.69035	-7.098158035	2.746395	-2.58454	0.009751	0.089839
ENSMUSG0	Fam167a	170.0213	3.047113269	1.179003	2.584484	0.009752	0.089839
ENSMUSG0	Nhlh1	177.709	-2.583690349	1.000147	-2.58331	0.009786	0.090101
ENSMUSG0	Mcoln2	65.7479	4.446278901	1.721971	2.582087	0.00982	0.090377
ENSMUSG0	Zfx4	1678.435	-1.681301608	0.651307	-2.58143	0.009839	0.090462
ENSMUSG0	Gm10451	23.99788	6.025510819	2.335083	2.580427	0.009868	0.09068
ENSMUSG0	Rbm6-ps1	167.0429	1.922031165	0.745216	2.579159	0.009904	0.090883
ENSMUSG0	Nme9	41.56852	6.246909871	2.422081	2.579149	0.009904	0.090883
ENSMUSG0	Gm5239	58.15331	2.821911675	1.094749	2.57768	0.009947	0.091226
ENSMUSG0	Mustn1	46.93185	6.463792956	2.508127	2.577139	0.009962	0.091324
ENSMUSG0	Ii4ra	805.822	2.384454641	0.925712	2.575805	0.010001	0.091588
ENSMUSG0	Fbxo44	271.6286	-3.309690366	1.286058	-2.57352	0.010067	0.092001
ENSMUSG0	Samd10	236.3806	-2.102864252	0.817141	-2.57344	0.010069	0.092001
ENSMUSG0	Hotairm1	57.47914	5.172777314	2.009943	2.573594	0.010065	0.092001
ENSMUSG0	Gm42680	105.6369	6.7027498	2.607436	2.570629	0.010151	0.092563
ENSMUSG0	Lrrn4cl	33.69255	4.506804544	1.753468	2.570223	0.010163	0.092626
ENSMUSG0	Scml4	30.76201	7.625709511	2.967448	2.569787	0.010176	0.092698
ENSMUSG0	Rpl15-ps2	16.32841	-7.186525514	2.796913	-2.56945	0.010186	0.092714
ENSMUSG0	Rph3a	27.74471	-5.95337439	2.317035	-2.56939	0.010188	0.092714
ENSMUSG0	C2cd4c	33.5289	6.626832493	2.579399	2.569138	0.010195	0.092737
ENSMUSG0	Ccrl2	34.65917	6.167878829	2.401341	2.568514	0.010214	0.092785
ENSMUSG0	Gabrb2	66.22928	6.304083461	2.454423	2.568459	0.010215	0.092785

ENSMUSG0	Trip4	868.4522	1.349053287	0.52554	2.566983	0.010259	0.093135
ENSMUSG0	Klc3	96.37306	-2.666332614	1.039071	-2.56607	0.010286	0.093201
ENSMUSG0	Kif12	1106.874	4.055060087	1.580161	2.566233	0.010281	0.093201
ENSMUSG0	Aff2	506.2554	-2.118629762	0.825964	-2.56504	0.010316	0.093388
ENSMUSG0	Gm20324	13.04681	7.303826688	2.848915	2.563723	0.010356	0.093654
ENSMUSG0	Prelid3b	876.9617	1.385168055	0.540522	2.562649	0.010388	0.093853
ENSMUSG0	Slc35c2	542.0392	1.826109772	0.712676	2.562327	0.010397	0.093895
ENSMUSG0	Smad1	1440.626	-1.241776301	0.484828	-2.56127	0.010429	0.094091
ENSMUSG0	Mkks	396.1571	1.673109077	0.653201	2.561398	0.010425	0.094091
ENSMUSG0	Zfp62	1450.771	-1.295515731	0.505925	-2.56069	0.010447	0.094159
ENSMUSG0	CT571252.1	17.68721	4.083065097	1.595008	2.559903	0.01047	0.094326
ENSMUSG0	Gm42462	23.53997	7.070423212	2.762492	2.559436	0.010484	0.094369
ENSMUSG0	Gpr34	52.43632	6.612856382	2.584265	2.558893	0.010501	0.094465
ENSMUSG0	H2-M2	242.426	-3.900561107	1.524523	-2.55855	0.010511	0.09447
ENSMUSG0	Scn9a	152.4287	-3.250989641	1.270559	-2.55871	0.010506	0.09447
ENSMUSG0	1700066J03Rik	32.95781	8.156502099	3.188239	2.558309	0.010518	0.094489
ENSMUSG0	Ttpa	78.41528	2.986336815	1.167468	2.557959	0.010529	0.094539
ENSMUSG0	AC138284.4	113.834	3.533174981	1.381515	2.557464	0.010544	0.094628
ENSMUSG0	Fam22a	817.4953	-1.522786893	0.595802	-2.55586	0.010593	0.09493
ENSMUSG0	C3	46.24022	6.692539276	2.618771	2.555604	0.0106	0.094954
ENSMUSG0	Gm20689	19.31511	5.323239566	2.083218	2.555297	0.01061	0.094993
ENSMUSG0	Tmem52b	78.67443	5.826876765	2.280628	2.554944	0.01062	0.095044
ENSMUSG0	Vstm4	355.6035	2.246757709	0.879722	2.55394	0.010651	0.095183
ENSMUSG0	AC124421.1	72.00644	-8.219594388	3.219963	-2.5527	0.010689	0.095432
ENSMUSG0	Gm10155	44.06428	-5.888914691	2.306837	-2.55281	0.010686	0.095432
ENSMUSG0	Plppr5	21.75572	7.871364952	3.083903	2.552404	0.010698	0.095467
ENSMUSG0	Gm29502	27.04074	-6.047714896	2.370401	-2.55135	0.010731	0.095576
ENSMUSG0	Magee1	514.3148	-1.468797277	0.575674	-2.55144	0.010728	0.095576
ENSMUSG0	Kcnab3	87.56149	5.647058038	2.213631	2.551039	0.01074	0.095616
ENSMUSG0	Snap91	387.1794	-2.490274253	0.976428	-2.55039	0.01076	0.095748
ENSMUSG0	4921536K21Rik	85.77006	-4.113352713	1.613087	-2.54999	0.010773	0.095814
ENSMUSG0	BC035947	19.84346	-9.406065382	3.68958	-2.54936	0.010792	0.095908
ENSMUSG0	Mrap	62.50892	6.014319414	2.36043	2.547976	0.010835	0.096232
ENSMUSG0	Tmem86a	282.2901	-1.532915498	0.601937	-2.54664	0.010877	0.096386
ENSMUSG0	Gm3854	91.47534	3.483682777	1.367977	2.546595	0.010878	0.096386
ENSMUSG0	4930525G20Rik	31.72822	7.684800005	3.017257	2.546949	0.010867	0.096386
ENSMUSG0	Gm20656	23.88819	6.240297214	2.450975	2.546047	0.010895	0.096492
ENSMUSG0	Mindy3	643.1584	-1.512055351	0.593961	-2.54571	0.010905	0.096493
ENSMUSG0	Dscam	62.1703	-6.252402	2.457289	-2.54443	0.010946	0.096757
ENSMUSG0	4930432K21Rik	30.79544	6.938569123	2.727223	2.544189	0.010953	0.096779
ENSMUSG0	Ubash3a	20.23717	8.764126373	3.445331	2.543769	0.010966	0.09685
ENSMUSG0	Rasgef1a	25.98331	-6.724917107	2.646791	-2.54078	0.011061	0.097498
ENSMUSG0	Gm14326	23.28656	4.919754609	1.936193	2.540943	0.011055	0.097498
ENSMUSG0	Slc17a8	34.09105	-7.505649372	2.955422	-2.53962	0.011097	0.097701
ENSMUSG0	Fkbp1b	90.92178	4.380506945	1.724905	2.539564	0.011099	0.097701
ENSMUSG0	Chga	732.4303	-2.022045746	0.796967	-2.53718	0.011175	0.098278
ENSMUSG0	Gm37212	18.81604	6.324481866	2.493613	2.536272	0.011204	0.098486
ENSMUSG0	Gm18757	93.833	-8.659328707	3.415071	-2.53562	0.011225	0.098623

ENSMUSG0	Gm44154	18.826	8.03026119	3.167261	2.535396	0.011232	0.098641
ENSMUSG0	Myod1	59.84607	-7.55350098	2.97973	-2.53496	0.011246	0.098717
ENSMUSG0	4933437G19Rik	20.24751	7.18734629	2.835678	2.534613	0.011257	0.098727
ENSMUSG0	Adrb1	15.16398	7.916202422	3.123258	2.534598	0.011258	0.098727
ENSMUSG0	Slc10a1	22.33515	5.672972301	2.238436	2.534346	0.011266	0.098752
ENSMUSG0	Slc38a11	27.13254	8.096740418	3.195872	2.533499	0.011293	0.098899
ENSMUSG0	Ly6c1	19.12733	-7.82574327	3.089595	-2.53294	0.011311	0.098971
ENSMUSG0	Fam206a	713.4211	1.403694896	0.554181	2.532919	0.011312	0.098971
ENSMUSG0	Gm8618	37.79657	-5.188664577	2.048869	-2.53245	0.011327	0.09901
ENSMUSG0	Tom1l2	1326.811	-1.25846733	0.497049	-2.53188	0.011345	0.099127
ENSMUSG0	Cntn6	64.50406	-7.519082541	2.972395	-2.52964	0.011418	0.099577
ENSMUSG0	Epha6	43.66136	-9.207949456	3.640533	-2.52929	0.011429	0.099631
ENSMUSG0	Ttn	545.7287	2.751533088	1.088239	2.528426	0.011458	0.099794
ENSMUSG0	Gm43860	119.3017	3.817946508	1.510032	2.528388	0.011459	0.099794
ENSMUSG0	Stc1	444.1591	-1.770612084	0.700393	-2.52803	0.011471	0.099851
ENSMUSG0	Abca14	30.38618	-8.45942329	3.347404	-2.52716	0.011499	0.100051
ENSMUSG0	4930579G18Rik	145.5795	2.574915769	1.019032	2.526825	0.01151	0.1001
ENSMUSG0	Tlhc1	482.0936	-1.435361549	0.568235	-2.526	0.011537	0.100242
ENSMUSG0	Rps27l	814.6874	1.265158109	0.50105	2.525014	0.011569	0.100307
ENSMUSG0	Fam169b	57.0946	7.013891627	2.777706	2.525067	0.011568	0.100307
ENSMUSG0	Bbs12	254.7923	2.547922577	1.009465	2.524032	0.011602	0.100527
ENSMUSG0	AC187103.3	73.82339	3.268114357	1.295461	2.522742	0.011644	0.100745
ENSMUSG0	Nkx6-2	40.23482	9.750570948	3.865251	2.522623	0.011648	0.100745
ENSMUSG0	Gm26711	18.43832	7.333757422	2.90765	2.522229	0.011661	0.100765
ENSMUSG0	Gm45112	41.33133	7.007207276	2.779739	2.520815	0.011708	0.100986
ENSMUSG0	Atxn7l1os2	13.94358	7.349976808	2.916852	2.519832	0.011741	0.101176
ENSMUSG0	Wdr83os	224.6026	-1.540963494	0.611734	-2.51901	0.011769	0.101366
ENSMUSG0	1110046J04Rik	29.11677	-5.938995255	2.358764	-2.51784	0.011808	0.101516
ENSMUSG0	Rpl36-ps10	29.41357	-7.234343431	2.873748	-2.51739	0.011823	0.10157
ENSMUSG0	Ankrd1	142.3703	4.426732158	1.758499	2.517335	0.011825	0.10157
ENSMUSG0	Lrrc2	27.07033	-9.234247011	3.668829	-2.51695	0.011838	0.101635
ENSMUSG0	Glt1d1	51.40459	-5.957831479	2.369755	-2.51411	0.011933	0.102362
ENSMUSG0	Zfp939	77.98576	2.581952456	1.027286	2.513372	0.011958	0.102531
ENSMUSG0	4933413G19Rik	15.30118	6.864116869	2.732544	2.511987	0.012005	0.10284
ENSMUSG0	Gm9006	24.73521	7.235541505	2.880589	2.511827	0.012011	0.10284
ENSMUSG0	Gm16437	16.08615	5.727026665	2.281639	2.510049	0.012071	0.103172
ENSMUSG0	Tesmin	23.18446	6.114215725	2.436512	2.509413	0.012093	0.103264
ENSMUSG0	Tmem116	15.52749	6.24407172	2.488935	2.508733	0.012117	0.103416
ENSMUSG0	Gm37846	176.1653	-9.595140069	3.825415	-2.50826	0.012133	0.103507
ENSMUSG0	Gm26943	14.56588	7.609727761	3.03417	2.50801	0.012141	0.103534
ENSMUSG0	Farp2	259.0995	1.478773261	0.589689	2.507719	0.012151	0.103573
ENSMUSG0	Chrd	286.9019	-2.726017887	1.087649	-2.50634	0.012199	0.10393
ENSMUSG0	Gm24346	19.24656	6.422245367	2.562965	2.505787	0.012218	0.104046
ENSMUSG0	Sdccag8	322.7559	1.847867942	0.737501	2.505581	0.012225	0.104059
ENSMUSG0	Car11	143.6981	2.996181785	1.196082	2.504997	0.012245	0.104137
ENSMUSG0	Vgf	18.77139	-6.169661655	2.46372	-2.50421	0.012273	0.104229
ENSMUSG0	Plppr4	55.95483	5.180165405	2.068809	2.503936	0.012282	0.104261
ENSMUSG0	5330417C22Rik	28.40647	6.768567211	2.704215	2.502969	0.012316	0.104406

ENSMUSG0	Tspan32	19.8527	8.381806375	3.350628	2.501563	0.012365	0.10468
ENSMUSG0	Mbp	461.9641	-1.969022128	0.787254	-2.50113	0.01238	0.104714
ENSMUSG0	Shisa9	56.37563	-7.860100221	3.145944	-2.49849	0.012472	0.105308
ENSMUSG0	Gm37986	19.47283	8.241898632	3.300279	2.497334	0.012513	0.105604
ENSMUSG0	Rbks	99.94933	-5.387397258	2.15749	-2.49707	0.012523	0.105612
ENSMUSG0	Gm44567	15.44911	6.808610766	2.727075	2.496672	0.012536	0.105612
ENSMUSG0	BE692007	19.9682	7.070535802	2.831983	2.496673	0.012536	0.105612
ENSMUSG0	Rgs9	70.57391	3.391452904	1.358904	2.495726	0.01257	0.105705
ENSMUSG0	Myl4	296.3857	4.248405015	1.70313	2.494468	0.012615	0.106032
ENSMUSG0	Gm12571	15.64954	7.470439576	2.9956	2.493804	0.012638	0.106184
ENSMUSG0	Gm11646	51.11112	-9.537384339	3.826139	-2.49269	0.012678	0.106359
ENSMUSG0	Gm6415	25.70108	-2.907489814	1.1663	-2.49292	0.01267	0.106359
ENSMUSG0	Arg1	139.2644	3.433840876	1.377683	2.492476	0.012686	0.106359
ENSMUSG0	Ptprt	317.643	-1.947353409	0.781456	-2.49196	0.012704	0.106453
ENSMUSG0	Nkx2-1	57.46899	7.84249168	3.14851	2.490858	0.012744	0.106687
ENSMUSG0	Mturn	491.7875	-1.664768766	0.668488	-2.49035	0.012762	0.106761
ENSMUSG0	lah1	290.2875	-1.620403221	0.651153	-2.48851	0.012828	0.107202
ENSMUSG0	Gm15792	23.11379	7.208527441	2.896671	2.488556	0.012826	0.107202
ENSMUSG0	AC108401.3	28.33309	-7.275696437	2.925549	-2.48695	0.012884	0.107529
ENSMUSG0	A630033H2ORik	16.40123	8.335768339	3.351968	2.486828	0.012889	0.107529
ENSMUSG0	Gm45309	17.55899	-8.876618533	3.570446	-2.48614	0.012914	0.107634
ENSMUSG0	Adh1	525.6692	4.443292518	1.787657	2.48554	0.012935	0.107767
ENSMUSG0	Fam129a	281.3308	3.371248884	1.35768	2.483096	0.013025	0.108462
ENSMUSG0	Gm43523	55.3968	-9.303410614	3.748366	-2.48199	0.013065	0.108654
ENSMUSG0	Thbs2	309.0484	-2.727353747	1.099108	-2.48143	0.013086	0.108779
ENSMUSG0	CT009480.2	26.85786	-9.907517063	3.995619	-2.4796	0.013153	0.109055
ENSMUSG0	Cbln3	21.78453	5.921092943	2.387936	2.479586	0.013154	0.109055
ENSMUSG0	Cdh19	20.40772	8.43314341	3.403961	2.47745	0.013233	0.109611
ENSMUSG0	Ky	15.82442	8.053865433	3.252364	2.476311	0.013275	0.109913
ENSMUSG0	Gm16005	21.13098	-8.870809037	3.583795	-2.47526	0.013314	0.109937
ENSMUSG0	Gng10	20.57302	-7.284625265	2.943555	-2.47477	0.013332	0.109937
ENSMUSG0	Gm16439	22.95476	-3.705480585	1.496695	-2.47578	0.013295	0.109937
ENSMUSG0	Gm12338	43.33281	3.685489772	1.488589	2.475828	0.013293	0.109937
ENSMUSG0	Gm4587	14.95875	4.920771227	1.988586	2.474508	0.013342	0.109937
ENSMUSG0	1700088E04Rik	33.20352	6.354162801	2.567162	2.47517	0.013317	0.109937
ENSMUSG0	Flt3	24.43967	7.540211568	3.046022	2.475429	0.013308	0.109937
ENSMUSG0	Tlr5	26.41407	7.558526015	3.054283	2.47473	0.013334	0.109937
ENSMUSG0	Cyp19a1	23.55854	-9.183058512	3.713938	-2.47259	0.013414	0.110479
ENSMUSG0	Gm24080	28.56176	8.259799654	3.342684	2.471008	0.013473	0.110873
ENSMUSG0	Ap3m1-ps	38.98112	4.062263227	1.644268	2.47056	0.01349	0.110964
ENSMUSG0	Gm44587	147.1731	-2.525036597	1.022121	-2.47039	0.013497	0.110968
ENSMUSG0	Apba2	356.8098	-1.848354518	0.748419	-2.46968	0.013523	0.111141
ENSMUSG0	Myl7	175.0694	4.681101817	1.895802	2.469193	0.013542	0.111243
ENSMUSG0	Polh	334.1112	1.299497018	0.526323	2.469009	0.013549	0.111251
ENSMUSG0	Smim5	20.61679	7.128224937	2.888108	2.468129	0.013582	0.111456
ENSMUSG0	Zbtb11os1	33.69099	7.498698961	3.038517	2.467882	0.013592	0.111456
ENSMUSG0	Hmox1	696.5094	1.399151042	0.567352	2.466105	0.013659	0.111913
ENSMUSG0	Tdg-ps	46.33845	-5.409049261	2.193973	-2.46541	0.013686	0.112014

ENSMUSG0	Dcun1d4	483.4874	1.285624041	0.521447	2.465492	0.013683	0.112014
ENSMUSG0	C1qtnf3	96.55818	2.412034632	0.978489	2.465061	0.013699	0.112045
ENSMUSG0	Gm15675	30.70741	5.263002968	2.136828	2.462998	0.013778	0.112545
ENSMUSG0	Cog2	1218.981	-1.293173563	0.525193	-2.46228	0.013806	0.112721
ENSMUSG0	Adam1a	122.4505	4.720199883	1.917539	2.461593	0.013832	0.112879
ENSMUSG0	Ankra2	341.9668	-1.362575636	0.553689	-2.4609	0.013859	0.112959
ENSMUSG0	Cenpp	113.1177	2.841624257	1.154653	2.461019	0.013854	0.112959
ENSMUSG0	Mrps18b	115.3731	3.897162442	1.583982	2.460357	0.01388	0.113082
ENSMUSG0	Gm8463	26.16709	-7.064908049	2.872098	-2.45984	0.0139	0.113183
ENSMUSG0	Cnr1	157.0158	-2.084826754	0.847838	-2.45899	0.013933	0.113316
ENSMUSG0	Shc4	45.52477	5.975240537	2.432627	2.456292	0.014038	0.113975
ENSMUSG0	6430511E19Rik	33.70191	-6.491802538	2.643455	-2.4558	0.014057	0.114081
ENSMUSG0	Zfp955b	69.97667	5.144038723	2.095452	2.454858	0.014094	0.114332
ENSMUSG0	Gm14207	33.27737	-8.314406203	3.388	-2.45407	0.014125	0.114433
ENSMUSG0	Tubg2	192.3924	-3.055011289	1.244823	-2.45417	0.014121	0.114433
ENSMUSG0	Sox1	18.71021	8.490089887	3.459583	2.454079	0.014125	0.114433
ENSMUSG0	Serinc2	473.7411	-1.988240743	0.810804	-2.45218	0.014199	0.114824
ENSMUSG0	Gm5648	95.62647	-1.614039847	0.658235	-2.45207	0.014204	0.114824
ENSMUSG0	Slc47a1	100.5373	6.519835253	2.65873	2.452236	0.014197	0.114824
ENSMUSG0	Meox2	329.8626	1.800223479	0.734832	2.449845	0.014292	0.11529
ENSMUSG0	Ccdc88b	236.9272	2.278343056	0.929908	2.450073	0.014283	0.11529
ENSMUSG0	Nxph3	17.02426	6.576525883	2.684657	2.449671	0.014299	0.115296
ENSMUSG0	Snap25	210.8577	-3.564258765	1.455165	-2.44939	0.01431	0.115319
ENSMUSG0	Zfp605	235.7299	1.339798371	0.547027	2.449238	0.014316	0.115319
ENSMUSG0	Gm12194	18.8361	4.454438848	1.818936	2.448926	0.014328	0.115337
ENSMUSG0	AC151971.3	13.26509	6.994423275	2.85677	2.448368	0.01435	0.115417
ENSMUSG0	Cyp2c29	47.18555	-9.981586295	4.077116	-2.4482	0.014357	0.115422
ENSMUSG0	9430025C20Rik	229.6338	-2.573612222	1.051846	-2.44676	0.014415	0.115738
ENSMUSG0	Gem	157.2638	1.832325943	0.7489	2.446689	0.014418	0.115738
ENSMUSG0	Gm5380	18.78716	4.258142831	1.74083	2.446042	0.014443	0.115772
ENSMUSG0	4933405D12Rik	18.63512	-7.948309899	3.252964	-2.44341	0.014549	0.116469
ENSMUSG0	Hoxb3os	67.69928	3.054263244	1.249939	2.44353	0.014544	0.116469
ENSMUSG0	Slc18b1	349.9218	-1.457107608	0.596688	-2.44199	0.014606	0.116827
ENSMUSG0	AC134860.1	260.8546	-2.733489548	1.119579	-2.44153	0.014625	0.116876
ENSMUSG0	Gm7972	20.07456	7.689838337	3.149451	2.441644	0.014621	0.116876
ENSMUSG0	Ankrd37	305.3424	-2.708740535	1.109624	-2.44113	0.014641	0.116956
ENSMUSG0	Gpr39	34.26738	6.95086058	2.848292	2.440361	0.014673	0.117157
ENSMUSG0	Xlr3b	28.34479	-4.304657762	1.764494	-2.4396	0.014704	0.117341
ENSMUSG0	Gm26983	22.76996	-9.436385711	3.869841	-2.43844	0.014751	0.117574
ENSMUSG0	Nr5a1	279.2519	-8.381590996	3.437327	-2.4384	0.014752	0.117574
ENSMUSG0	Ramp1	16.79204	6.836402725	2.803745	2.438311	0.014756	0.117574
ENSMUSG0	Slc5a12	45.85599	-9.069676985	3.720796	-2.43756	0.014787	0.117618
ENSMUSG0	Fut2	103.9985	-4.28768783	1.758818	-2.43782	0.014776	0.117618
ENSMUSG0	Prss12	107.1716	5.04530965	2.069437	2.438011	0.014768	0.117618
ENSMUSG0	Pdlim3	511.879	5.899289544	2.42248	2.435227	0.014882	0.118099
ENSMUSG0	AC121788.4	51.91105	5.947716525	2.442421	2.435173	0.014885	0.118099
ENSMUSG0	Nos1	94.9869	-4.228018515	1.736683	-2.43454	0.014911	0.118142
ENSMUSG0	Unc13a	255.2601	-2.36683122	0.972233	-2.43443	0.014915	0.118142

ENSMUSG0	Sox4	5309.263	-0.747428723	0.306997	-2.43464	0.014906	0.118142
ENSMUSG0	Neurog1	98.57312	-3.832315797	1.574466	-2.43404	0.014931	0.118183
ENSMUSG0	Lpl	1134.716	1.220151533	0.501295	2.434	0.014933	0.118183
ENSMUSG0	Erbp3	1180.408	-1.577926611	0.648408	-2.43354	0.014952	0.118234
ENSMUSG0	Ogdhl	771.387	-1.342403562	0.551613	-2.4336	0.01495	0.118234
ENSMUSG0	Tmem159	256.9548	-1.576401969	0.648	-2.43272	0.014986	0.118402
ENSMUSG0	AC153962.3	84.50104	3.052728917	1.254803	2.432836	0.014981	0.118402
ENSMUSG0	Gm10355	53.67858	-8.069416982	3.321031	-2.42979	0.015107	0.119213
ENSMUSG0	Gm17227	51.33773	4.350745225	1.790814	2.429479	0.015121	0.119216
ENSMUSG0	Psmg4	337.0397	1.556012971	0.640554	2.429169	0.015133	0.119218
ENSMUSG0	Gm12115	124.3874	3.769197484	1.551941	2.428699	0.015153	0.119323
ENSMUSG0	Thrsp	25.18663	-8.876632501	3.655189	-2.4285	0.015161	0.119338
ENSMUSG0	Smpx	14.45309	7.264893993	2.992503	2.427698	0.015195	0.119453
ENSMUSG0	Fam198b	447.3687	1.850198206	0.76223	2.427349	0.01521	0.119468
ENSMUSG0	Gm43185	48.90192	3.933823967	1.620549	2.427464	0.015205	0.119468
ENSMUSG0	Polr2i	263.396	1.862155116	0.767468	2.426361	0.015251	0.119694
ENSMUSG0	Gm16536	181.8418	-2.769078659	1.141408	-2.42602	0.015265	0.119756
ENSMUSG0	Disp2	103.2701	-2.999125266	1.236422	-2.42565	0.015281	0.119829
ENSMUSG0	Nphs2	386.2338	4.108788766	1.694538	2.424725	0.01532	0.120084
ENSMUSG0	Ncf2	631.3861	2.120823462	0.874832	2.424265	0.015339	0.120186
ENSMUSG0	Pou1f1	139.0662	-1.998234622	0.824432	-2.42377	0.01536	0.1203
ENSMUSG0	Clec14a	637.7127	-1.205374734	0.497491	-2.42291	0.015397	0.120535
ENSMUSG0	Nefh	30.76847	-6.649569276	2.745334	-2.42213	0.01543	0.120742
ENSMUSG0	Armc5	897.1695	1.268078071	0.523672	2.42151	0.015456	0.12082
ENSMUSG0	Exoc8	611.9196	-1.667505175	0.688726	-2.42114	0.015472	0.120821
ENSMUSG0	Tmem139	42.07634	7.715999242	3.186909	2.421154	0.015471	0.120821
ENSMUSG0	Hapln4	20.46681	-6.191077293	2.558041	-2.42024	0.01551	0.121021
ENSMUSG0	A730017L22Rik	207.7453	-1.527978758	0.631772	-2.41856	0.015582	0.121129
ENSMUSG0	Zbtb8os	349.5115	-1.495581889	0.618331	-2.41874	0.015574	0.121129
ENSMUSG0	Gm12722	93.00847	2.989738089	1.235759	2.419355	0.015548	0.121129
ENSMUSG0	Avil	121.1929	4.683488908	1.936061	2.419081	0.01556	0.121129
ENSMUSG0	Hoxa7	650.173	5.834815668	2.412108	2.41897	0.015565	0.121129
ENSMUSG0	Slc5a7	17.90746	7.78912374	3.2199	2.419057	0.015561	0.121129
ENSMUSG0	Dctn3	507.0824	-1.938694486	0.801728	-2.41815	0.0156	0.121176
ENSMUSG0	Gm8797	66.82429	3.93915448	1.62923	2.417802	0.015615	0.121182
ENSMUSG0	Dnah12	22.7841	7.755610598	3.2087	2.417057	0.015647	0.12138
ENSMUSG0	Myo5c	338.3363	-3.121081882	1.291658	-2.41634	0.015678	0.121382
ENSMUSG0	Gm37632	41.79399	7.479295026	3.095096	2.416499	0.015671	0.121382
ENSMUSG0	AC154642.2	43.02145	9.16858256	3.794208	2.416468	0.015672	0.121382
ENSMUSG0	Pgr	60.51131	-2.884703518	1.194202	-2.41559	0.01571	0.121486
ENSMUSG0	Fra10ac1	477.0521	-1.292426995	0.535046	-2.41554	0.015712	0.121486
ENSMUSG0	Lctl	26.16464	7.231145197	2.994233	2.415024	0.015734	0.121609
ENSMUSG0	Ethe1	166.6333	1.89651518	0.785946	2.413035	0.01582	0.122074
ENSMUSG0	Zfp385c	74.92719	-4.663134355	1.933347	-2.41195	0.015867	0.122338
ENSMUSG0	Abcb11	102.8143	5.419651649	2.247234	2.411699	0.015878	0.12237
ENSMUSG0	4933430117Rik	25.75894	8.564037077	3.551251	2.411555	0.015885	0.12237
ENSMUSG0	Cldn2	113.9887	-6.281164885	2.607819	-2.40859	0.016014	0.123268
ENSMUSG0	1810014B01Rik	43.96257	4.742531203	1.969983	2.407397	0.016067	0.12357

ENSMUSG0	Gm43657	164.0753	-6.234953504	2.591107	-2.40629	0.016115	0.123844
ENSMUSG0	Gm43429	29.37769	6.966396777	2.896122	2.405422	0.016154	0.124037
ENSMUSG0	AC122525.2	137.6805	-6.857568332	2.852134	-2.40436	0.016201	0.124244
ENSMUSG0	Gm3468	35.88472	7.91947783	3.293716	2.40442	0.016198	0.124244
ENSMUSG0	Gm44013	18.32085	8.06318256	3.353172	2.404643	0.016188	0.124244
ENSMUSG0	Cdh18	28.18981	6.214556009	2.585794	2.403346	0.016246	0.12454
ENSMUSG0	Gm6177	44.83381	-4.827222636	2.008805	-2.40303	0.01626	0.124596
ENSMUSG0	Catip	20.62791	6.596477379	2.746887	2.401438	0.016331	0.124944
ENSMUSG0	Prr16	55.23811	-2.747548826	1.144233	-2.40121	0.016341	0.124962
ENSMUSG0	C730045M19Rik	16.76948	-8.858124859	3.691129	-2.39984	0.016402	0.12533
ENSMUSG0	Mreg	251.3444	-2.684868688	1.118989	-2.39937	0.016423	0.12539
ENSMUSG0	5330406M23Rik	50.13936	-9.516397378	3.96925	-2.39753	0.016506	0.125919
ENSMUSG0	Gm44694	21.34871	6.330008032	2.642616	2.395357	0.016604	0.126463
ENSMUSG0	Gm26660	33.39809	-5.567714108	2.324764	-2.39496	0.016622	0.126498
ENSMUSG0	Ndrp1	363.7001	-1.629129956	0.680385	-2.39442	0.016646	0.126617
ENSMUSG0	Gm28875	17.62617	6.939970065	2.898514	2.39432	0.016651	0.126617
ENSMUSG0	Exosc5	519.0184	-1.441578631	0.602256	-2.39363	0.016683	0.12665
ENSMUSG0	Aspn	13.68802	7.048980458	2.944817	2.393691	0.01668	0.12665
ENSMUSG0	Ctsf	619.115	-1.268849511	0.530134	-2.39345	0.016691	0.126662
ENSMUSG0	Grap2	66.15796	5.308667637	2.219336	2.392007	0.016757	0.127094
ENSMUSG0	4930528J11Rik	53.87827	-7.035197429	2.942518	-2.39088	0.016808	0.127398
ENSMUSG0	Gm37416	64.14567	-5.121553388	2.142594	-2.39035	0.016832	0.127529
ENSMUSG0	Gm19590	18.80728	6.418012837	2.685487	2.389888	0.016854	0.127602
ENSMUSG0	Gm26514	52.4442	-6.739416877	2.82158	-2.38853	0.016916	0.127827
ENSMUSG0	Gm15824	92.02501	-6.28047694	2.629459	-2.38851	0.016917	0.127827
ENSMUSG0	AC159193.5	143.4503	-2.846462398	1.191633	-2.38871	0.016908	0.127827
ENSMUSG0	Cpn1	492.0606	-3.322972924	1.391724	-2.38767	0.016956	0.128052
ENSMUSG0	Rorc	79.20764	-6.207951335	2.601002	-2.38675	0.016998	0.128259
ENSMUSG0	Dnah2	170.0751	-2.362129165	0.989734	-2.38663	0.017004	0.128259
ENSMUSG0	Slc40a1	669.7047	2.216073637	0.928513	2.38669	0.017001	0.128259
ENSMUSG0	Steap1	39.04446	6.14355571	2.57464	2.386181	0.017024	0.128365
ENSMUSG0	Wnk3	565.7427	-1.840097826	0.771673	-2.38456	0.0171	0.128778
ENSMUSG0	Gm28043	153.8276	-1.471701646	0.617179	-2.38456	0.0171	0.128778
ENSMUSG0	4933403O08Rik	36.87211	-7.698952901	3.229768	-2.38375	0.017137	0.128855
ENSMUSG0	Stambpl1	132.935	2.353633035	0.987359	2.383765	0.017137	0.128855
ENSMUSG0	Gm43482	31.73776	6.592504692	2.765342	2.383974	0.017127	0.128855
ENSMUSG0	Lbx1	16.88191	8.169184499	3.426941	2.383812	0.017134	0.128855
ENSMUSG0	Apom	44.23169	6.343432474	2.661939	2.383012	0.017172	0.128959
ENSMUSG0	Gba	568.2974	1.564641201	0.656774	2.382314	0.017204	0.1291
ENSMUSG0	Rac2	429.051	2.574400209	1.080792	2.381958	0.017221	0.129174
ENSMUSG0	Foxg1	269.9598	-3.340010392	1.402505	-2.38146	0.017244	0.129181
ENSMUSG0	Mtx2	888.3722	1.347205255	0.565698	2.381492	0.017243	0.129181
ENSMUSG0	Gm44226	13.07487	6.556230243	2.753157	2.38135	0.017249	0.129181
ENSMUSG0	Myl1	14.30306	7.533638134	3.163023	2.381784	0.017229	0.129181
ENSMUSG0	Efcab2	235.4723	-1.97748213	0.830653	-2.38064	0.017283	0.12938
ENSMUSG0	Plcb1	700.5588	2.962707683	1.244865	2.379942	0.017315	0.129536
ENSMUSG0	Zfp3	70.85015	4.15879877	1.747469	2.379899	0.017317	0.129536
ENSMUSG0	C130083M11Rik	56.20157	5.43832829	2.285689	2.379295	0.017346	0.129697

ENSMUSG0	Rbmx2-ps	21.57336	7.850034048	3.300567	2.37839	0.017388	0.129913
ENSMUSG0	Klhl40	19.46621	-8.347558645	3.510113	-2.37815	0.0174	0.129947
ENSMUSG0	C1qtnf12	656.9194	-1.950235147	0.820854	-2.37586	0.017508	0.130502
ENSMUSG0	Rn7sk	170.2197	5.790455082	2.436883	2.376173	0.017493	0.130502
ENSMUSG0	Abcc2	47.20714	5.820006043	2.449063	2.376421	0.017481	0.130502
ENSMUSG0	Zfp867	144.836	1.698303803	0.714984	2.375305	0.017534	0.130589
ENSMUSG0	Ypel3	938.3585	-1.239775556	0.522035	-2.37489	0.017554	0.130667
ENSMUSG0	Zcchc12	66.06692	3.514538482	1.479936	2.374791	0.017559	0.130667
ENSMUSG0	Gm23479	57.15134	6.94226923	2.925321	2.373165	0.017636	0.131192
ENSMUSG0	Doc2a	59.44637	4.523424449	1.907306	2.37163	0.01771	0.131635
ENSMUSG0	Gm14286	30.57944	-8.048164442	3.394515	-2.37093	0.017743	0.131779
ENSMUSG0	Ghsr	27.57662	-9.837521396	4.14999	-2.37049	0.017764	0.131884
ENSMUSG0	Gm10252	16.38165	8.033699405	3.39074	2.369306	0.017822	0.132256
ENSMUSG0	Gm43172	61.12925	-6.16454259	2.603961	-2.36737	0.017915	0.132688
ENSMUSG0	Gm13443	119.11	-3.336774759	1.40929	-2.3677	0.017899	0.132688
ENSMUSG0	C130050O18Rik	18.83448	8.499217948	3.589937	2.367512	0.017908	0.132688
ENSMUSG0	Senp7	951.0732	-1.395711141	0.589746	-2.36663	0.017951	0.1329
ENSMUSG0	Mipol1	188.3836	1.953381869	0.825587	2.366052	0.017979	0.133047
ENSMUSG0	Zfp414	381.8231	1.348457512	0.570137	2.365147	0.018023	0.133196
ENSMUSG0	Gm45640	96.84354	5.689162963	2.405482	2.365083	0.018026	0.133196
ENSMUSG0	Ar	101.2661	5.413305509	2.289421	2.364487	0.018055	0.133244
ENSMUSG0	Ahnak2	15.94514	6.111136506	2.584721	2.364331	0.018063	0.133244
ENSMUSG0	Gpr75	16.99701	6.890112253	2.914028	2.364463	0.018056	0.133244
ENSMUSG0	Ryr1	492.3339	-1.607670583	0.680185	-2.36358	0.018099	0.133423
ENSMUSG0	1110059G10Rik	181.3959	2.720944958	1.151523	2.362911	0.018132	0.133612
ENSMUSG0	Rorb	37.8592	-2.84384089	1.203746	-2.36249	0.018152	0.13371
ENSMUSG0	Ccl12	16.43549	7.972306537	3.375129	2.362075	0.018173	0.133809
ENSMUSG0	Mpo	586.0885	2.203797312	0.933279	2.36135	0.018209	0.133966
ENSMUSG0	AC124516.3	36.80268	5.995641223	2.539757	2.360715	0.01824	0.134143
ENSMUSG0	Gm9722	17.5111	6.939077048	2.940308	2.359983	0.018276	0.134303
ENSMUSG0	Bnip3l-ps	163.1868	-2.44944601	1.038272	-2.35916	0.018317	0.134497
ENSMUSG0	Abhd11os	15.51504	6.972315136	2.955327	2.359236	0.018313	0.134497
ENSMUSG0	Gm13622	42.82587	5.482316759	2.324105	2.358894	0.018329	0.13454
ENSMUSG0	Pou6f2	107.2744	-4.466990685	1.894282	-2.35814	0.018367	0.134707
ENSMUSG0	Gm44250	230.6314	2.001855705	0.848902	2.35817	0.018365	0.134707
ENSMUSG0	Dgki	24.23922	7.199858408	3.054201	2.357362	0.018405	0.134833
ENSMUSG0	Clec4a1	87.28243	2.601948122	1.103937	2.356971	0.018425	0.134923
ENSMUSG0	Atoh8	384.5432	1.469624325	0.623576	2.356769	0.018435	0.134944
ENSMUSG0	Steap4	41.20594	-5.521093505	2.343373	-2.35605	0.018471	0.135154
ENSMUSG0	Cadm3	394.6378	-1.948981485	0.827517	-2.35522	0.018512	0.135351
ENSMUSG0	Tubb4a	492.8374	-1.564200649	0.664195	-2.35503	0.018521	0.135366
ENSMUSG0	Neurog2	63.4479	-4.061348219	1.724876	-2.35457	0.018544	0.13548
ENSMUSG0	Aspa	42.74878	3.627707121	1.540808	2.354419	0.018552	0.135484
ENSMUSG0	4732491K20Rik	15.14359	5.958842767	2.531152	2.354202	0.018563	0.135511
ENSMUSG0	Gm37633	80.74518	-3.187192813	1.354417	-2.35318	0.018613	0.135724
ENSMUSG0	Naip2	83.12412	3.015876347	1.282052	2.352383	0.018654	0.135964
ENSMUSG0	Anks1b	95.32435	4.114018205	1.748982	2.352236	0.018661	0.135965
ENSMUSG0	Gm26742	19.28174	8.395890299	3.570696	2.351332	0.018706	0.136191

ENSMUSG0	Gm45501	18.18491	6.645217731	2.82674	2.350841	0.018731	0.136318
ENSMUSG0	Mt1	247.0135	1.628776854	0.69307	2.35009	0.018769	0.13654
ENSMUSG0	Shank2	315.1279	-1.896172169	0.807038	-2.34954	0.018796	0.136635
ENSMUSG0	Zfp771	543.0098	1.249880702	0.5321	2.348959	0.018826	0.136797
ENSMUSG0	Tha1	89.27583	-4.510337188	1.920478	-2.34855	0.018847	0.136842
ENSMUSG0	Oifr352	52.82788	-9.459571735	4.029694	-2.34747	0.018902	0.137082
ENSMUSG0	Gm26545	33.03229	5.808010763	2.474982	2.346688	0.018941	0.137263
ENSMUSG0	Il34	28.77967	6.761444774	2.882682	2.34554	0.019	0.137528
ENSMUSG0	Gm20033	68.79208	5.41994525	2.311505	2.344769	0.019039	0.137706
ENSMUSG0	Naprt	63.09249	3.981035394	1.69806	2.344461	0.019055	0.137767
ENSMUSG0	Jtb	607.2555	1.304080428	0.556592	2.342973	0.019131	0.138102
ENSMUSG0	Gm15784	92.95333	-3.516935215	1.5019	-2.34166	0.019198	0.138441
ENSMUSG0	Acpp	168.2498	-4.069108117	1.737964	-2.34131	0.019216	0.138511
ENSMUSG0	Sgip1	351.1368	-2.180923999	0.93192	-2.34025	0.019271	0.138616
ENSMUSG0	Nkx2-5	71.18846	3.746717539	1.600979	2.340267	0.01927	0.138616
ENSMUSG0	Llph-ps1	66.18282	-8.4341463	3.605141	-2.33948	0.019311	0.138713
ENSMUSG0	Pglyrp1	56.15296	-6.241201527	2.667691	-2.33955	0.019307	0.138713
ENSMUSG0	Lpin3	124.6999	-3.061317673	1.308835	-2.33896	0.019337	0.138851
ENSMUSG0	Rnf113a2	226.6897	1.736496071	0.742763	2.337886	0.019393	0.13904
ENSMUSG0	Rpl31-ps11	21.1218	4.065131213	1.738736	2.33798	0.019388	0.13904
ENSMUSG0	Crbn	606.1443	-1.427378681	0.610765	-2.33704	0.019437	0.139244
ENSMUSG0	Ttll11	63.22145	6.043013562	2.585898	2.336911	0.019444	0.139244
ENSMUSG0	1700007J10Rik	26.10331	8.265643604	3.538187	2.336124	0.019485	0.139484
ENSMUSG0	CT030197.1	36.47176	-10.3758716	4.443805	-2.33491	0.019548	0.139885
ENSMUSG0	Ptrhd1	134.7634	-2.606245577	1.1164	-2.33451	0.019569	0.139981
ENSMUSG0	1700008J07Rik	70.56971	3.68849872	1.580149	2.334273	0.019581	0.140016
ENSMUSG0	Tacstd2	170.7134	2.42650616	1.039668	2.333925	0.0196	0.140093
ENSMUSG0	Ly9	42.69383	5.357464167	2.296137	2.333251	0.019635	0.140293
ENSMUSG0	Oifr1310	139.2085	-2.772336431	1.188266	-2.33309	0.019643	0.140298
ENSMUSG0	Otog	210.5917	-3.422292882	1.4671	-2.33269	0.019664	0.140329
ENSMUSG0	Jph1	246.1351	-2.020113608	0.865984	-2.33274	0.019662	0.140329
ENSMUSG0	H60b	29.41849	6.002881367	2.576006	2.330305	0.01979	0.141025
ENSMUSG0	Mtg1	230.9552	2.652097472	1.138644	2.329171	0.01985	0.141239
ENSMUSG0	Rnls	39.57894	5.857791767	2.519185	2.325273	0.020057	0.142497
ENSMUSG0	Gm13241	154.555	-3.726442034	1.60334	-2.32418	0.020116	0.142808
ENSMUSG0	Bach2	1094.803	-1.250722867	0.538174	-2.32401	0.020125	0.142817
ENSMUSG0	Ftcd	14.81057	6.334953246	2.726996	2.323052	0.020176	0.143128
ENSMUSG0	Amigo1	407.1835	-1.671507952	0.719888	-2.3219	0.020238	0.143459
ENSMUSG0	Lactb	310.1115	2.190071921	0.943288	2.321743	0.020247	0.143466
ENSMUSG0	Scamp5	439.211	1.733694808	0.746815	2.321453	0.020262	0.143468
ENSMUSG0	Nfatc2	251.7574	2.444540924	1.052979	2.321547	0.020257	0.143468
ENSMUSG0	Gm13647	30.09792	-9.268348765	3.996359	-2.3192	0.020384	0.144223
ENSMUSG0	Atp6v0e2	233.5189	1.211699771	0.523081	2.316469	0.020533	0.14498
ENSMUSG0	Gm43336	33.48271	4.648560146	2.006732	2.316483	0.020532	0.14498
ENSMUSG0	Gm43684	54.96976	4.84542165	2.091809	2.316379	0.020538	0.14498
ENSMUSG0	Pin4	63.47415	2.762548843	1.192785	2.316049	0.020556	0.145053
ENSMUSG0	Zfp575	106.927	1.65364647	0.714247	2.315231	0.0206	0.14531
ENSMUSG0	Asb2	100.9485	4.066289013	1.756701	2.314731	0.020628	0.145345

ENSMUSG0	Gm42913	20.91831	6.253039448	2.701416	2.314727	0.020628	0.145345
ENSMUSG0	Stxbp5l	41.80097	-7.242550893	3.130457	-2.31358	0.020691	0.145576
ENSMUSG0	Ppp6c	1057.803	1.535372083	0.66352	2.31398	0.020669	0.145576
ENSMUSG0	Hspb9	16.01491	6.297526961	2.722002	2.313564	0.020692	0.145576
ENSMUSG0	Gm6768	239.6935	1.725649025	0.746146	2.31275	0.020736	0.145836
ENSMUSG0	Ccdc74a	188.6484	-3.151087269	1.363027	-2.31183	0.020787	0.145975
ENSMUSG0	S1pr5	82.45432	5.774182537	2.497599	2.311894	0.020784	0.145975
ENSMUSG0	4930511M06Rik	37.85243	-6.626070046	2.867405	-2.31082	0.020843	0.146244
ENSMUSG0	Ly75	407.8003	1.442924332	0.62445	2.310713	0.020849	0.146244
ENSMUSG0	Clic3	29.33267	6.281384996	2.719657	2.309624	0.020909	0.146612
ENSMUSG0	C130083A15Rik	24.55204	-9.659583107	4.185117	-2.30808	0.020995	0.147104
ENSMUSG0	Gm38047	18.317	-9.26335599	4.014163	-2.30767	0.021018	0.147154
ENSMUSG0	Ccl27a	94.34976	-3.824609792	1.657647	-2.30725	0.021041	0.147178
ENSMUSG0	Cox19	527.4691	-1.559576787	0.676002	-2.30706	0.021051	0.147178
ENSMUSG0	Pgghg	720.06	-1.263933934	0.547857	-2.30705	0.021052	0.147178
ENSMUSG0	Rpp40	175.3798	2.171849374	0.941398	2.307047	0.021052	0.147178
ENSMUSG0	4933412A08Rik	25.16819	6.452514978	2.797489	2.306538	0.021081	0.147322
ENSMUSG0	Bnip3	414.4173	-1.571982664	0.681795	-2.30565	0.02113	0.147509
ENSMUSG0	Gm12069	33.76891	-9.711312576	4.2125	-2.30536	0.021147	0.147564
ENSMUSG0	Klf8	125.9099	-2.579284554	1.11915	-2.30468	0.021184	0.147772
ENSMUSG0	Cavin4	297.3685	1.895578362	0.822976	2.30332	0.021261	0.148196
ENSMUSG0	Rhbdl2	19.93197	7.80852904	3.391081	2.302666	0.021298	0.148342
ENSMUSG0	Gm13453	28.68564	-3.26875372	1.420203	-2.30161	0.021357	0.148702
ENSMUSG0	Car5b	31.80806	5.603113463	2.434871	2.301196	0.021381	0.14881
ENSMUSG0	Gm38910	28.69187	-6.859702914	2.981604	-2.30068	0.02141	0.148905
ENSMUSG0	Fstl3	31.32381	5.297213662	2.302723	2.300413	0.021425	0.148953
ENSMUSG0	Cntd1	16.23294	-5.004940067	2.176801	-2.29922	0.021493	0.149258
ENSMUSG0	Hpx	17.77996	6.302541492	2.74105	2.299316	0.021487	0.149258
ENSMUSG0	A930036K24Rik	33.41739	-9.540567867	4.151626	-2.29803	0.02156	0.149616
ENSMUSG0	Kcna1	134.1893	-4.483890297	1.951866	-2.29723	0.021606	0.149822
ENSMUSG0	Hebp1	248.4305	2.472768798	1.076548	2.296942	0.021622	0.149881
ENSMUSG0	Poln	16.66807	7.229864033	3.148473	2.296308	0.021658	0.150077
ENSMUSG0	Gm42611	35.41188	4.288150677	1.868517	2.294949	0.021736	0.15045
ENSMUSG0	Fgf18	86.55592	-2.034442754	0.886672	-2.29447	0.021764	0.150584
ENSMUSG0	Grik4	197.2348	-1.555894222	0.678261	-2.29395	0.021794	0.150736
ENSMUSG0	Tnfrsf25	91.13183	2.233403703	0.973687	2.293759	0.021804	0.150756
ENSMUSG0	Gm38065	36.60936	-8.806600953	3.83987	-2.29346	0.021821	0.150818
ENSMUSG0	Wnt7b	202.7798	-1.356543224	0.591724	-2.29253	0.021875	0.15108
ENSMUSG0	Gm7108	59.47829	5.948057409	2.59511	2.292025	0.021904	0.151224
ENSMUSG0	Capn5	477.7783	-1.41798089	0.618731	-2.29176	0.02192	0.151275
ENSMUSG0	Zfp87	199.9844	-1.99078298	0.868987	-2.29092	0.021968	0.151451
ENSMUSG0	9530053A07Rik	13.27388	-7.266158999	3.175861	-2.28793	0.022141	0.152359
ENSMUSG0	Pms1	398.0531	1.806204604	0.790305	2.285453	0.022286	0.153132
ENSMUSG0	BTF3L4	37.91076	3.073472146	1.345241	2.2847	0.02233	0.153323
ENSMUSG0	Gm11793	16.53254	3.538232233	1.550393	2.282151	0.02248	0.154297
ENSMUSG0	C3ar1	298	1.864521981	0.817272	2.281397	0.022525	0.154481
ENSMUSG0	Stk33	14.59942	6.56636208	2.878246	2.281376	0.022526	0.154481
ENSMUSG0	Phf2os1	26.42511	-6.726315703	2.949923	-2.28017	0.022598	0.154749

ENSMUSG0	Al464131	252.6591	-1.898628635	0.832683	-2.28013	0.0226	0.154749
ENSMUSG0	Eldr	93.25954	2.975923634	1.305818	2.278973	0.022669	0.15508
ENSMUSG0	Gm5445	16.07952	4.855495355	2.130475	2.279068	0.022663	0.15508
ENSMUSG0	Oifr243	27.87909	-9.43426744	4.140822	-2.27836	0.022705	0.155258
ENSMUSG0	Irgm2	18.66191	7.96869832	3.499115	2.277347	0.022766	0.155516
ENSMUSG0	Cldn12	793.6005	-1.568979009	0.689156	-2.27667	0.022806	0.15568
ENSMUSG0	Pbld2	57.44219	5.861601824	2.57457	2.27673	0.022802	0.15568
ENSMUSG0	Gm16551	92.52177	-1.800601939	0.791107	-2.27605	0.022843	0.155761
ENSMUSG0	Ang	17.68496	6.334912341	2.784045	2.275435	0.02288	0.155875
ENSMUSG0	Gm37070	27.60173	2.736883464	1.203357	2.274373	0.022944	0.156166
ENSMUSG0	Siglec1	52.14877	4.705886559	2.069086	2.27438	0.022943	0.156166
ENSMUSG0	Gmds	291.5213	1.323760889	0.582156	2.273893	0.022972	0.156249
ENSMUSG0	Gpr183	89.38097	2.995958665	1.317959	2.27318	0.023015	0.156428
ENSMUSG0	Vrk2	162.1767	3.076145088	1.35376	2.272297	0.023069	0.156676
ENSMUSG0	Gm26885	47.52134	6.624850121	2.916168	2.271766	0.023101	0.156781
ENSMUSG0	K230010J24Rik	62.29976	-2.186113139	0.963549	-2.26881	0.02328	0.157768
ENSMUSG0	Slc30a2	37.01603	3.979949296	1.754184	2.268832	0.023279	0.157768
ENSMUSG0	Kctd14	29.72527	4.218677978	1.859872	2.268262	0.023313	0.157939
ENSMUSG0	Dab1	717.3079	-1.204198435	0.531253	-2.26671	0.023408	0.15848
ENSMUSG0	Ficd	91.80112	2.041182406	0.900681	2.266265	0.023435	0.15848
ENSMUSG0	AC158239.2	55.58716	2.304837877	1.016904	2.266524	0.023419	0.15848
ENSMUSG0	Fbxo10	896.5954	-1.566020455	0.691204	-2.26564	0.023473	0.158682
ENSMUSG0	Hypk	169.4125	-2.763627678	1.220032	-2.26521	0.0235	0.158736
ENSMUSG0	Ptcd1	441.4654	2.043030111	0.901962	2.265096	0.023507	0.158736
ENSMUSG0	Alox5	26.43586	5.035752589	2.22596	2.262283	0.02368	0.159562
ENSMUSG0	3110056K07Rik	143.4802	-1.976113773	0.873695	-2.26179	0.02371	0.159711
ENSMUSG0	Gm43462	31.00732	7.286868229	3.22306	2.260854	0.023768	0.160043
ENSMUSG0	Prrt3	61.62846	-5.031978923	2.226656	-2.25988	0.023829	0.16023
ENSMUSG0	Gm45509	51.72041	-4.348496899	1.924343	-2.25973	0.023838	0.16023
ENSMUSG0	Gm43747	22.16615	-5.937676031	2.627953	-2.25943	0.023857	0.160254
ENSMUSG0	Gpr21	26.85758	6.293619646	2.78641	2.258684	0.023903	0.160433
ENSMUSG0	Fam160a1	264.3442	-1.949900287	0.863644	-2.25776	0.023961	0.160762
ENSMUSG0	Nlgn1	61.12304	5.240709683	2.321694	2.257278	0.023991	0.16085
ENSMUSG0	Nprl2	641.8804	-1.742954929	0.772534	-2.25615	0.024061	0.161207
ENSMUSG0	Tmem150b	90.14433	-6.474267956	2.87175	-2.25447	0.024167	0.161346
ENSMUSG0	Prkag3	256.2999	-3.801182625	1.685226	-2.25559	0.024096	0.161346
ENSMUSG0	Lrrc15	125.918	-2.319350363	1.028459	-2.25517	0.024123	0.161346
ENSMUSG0	Cox4i2	75.73034	4.603658627	2.041226	2.25534	0.024112	0.161346
ENSMUSG0	Gm26606	14.60116	7.011474952	3.110056	2.254453	0.024168	0.161346
ENSMUSG0	BC030499	27.60637	7.132318068	3.163627	2.254475	0.024166	0.161346
ENSMUSG0	Gm30329	30.69129	7.606789341	3.376193	2.253067	0.024255	0.161814
ENSMUSG0	Phlda2	17.70028	6.832182416	3.032725	2.25282	0.024271	0.161861
ENSMUSG0	2900093K20Rik	16.75035	-9.038001731	4.0123	-2.25257	0.024286	0.161907
ENSMUSG0	Pik3r5	104.3907	3.681358489	1.63589	2.250371	0.024425	0.162548
ENSMUSG0	Fam46b	19.46565	7.70616439	3.425665	2.249538	0.024478	0.162842
ENSMUSG0	Nox3	32.16951	-9.57502158	4.257192	-2.24914	0.024504	0.162953
ENSMUSG0	Mro	20.62175	6.680981327	2.971551	2.248314	0.024556	0.163237
ENSMUSG0	Pcdhga2	195.0176	-2.698210916	1.200465	-2.24764	0.024599	0.163321

ENSMUSG0	Zfp583	133.0551	-1.6272875	0.723998	-2.24764	0.024599	0.163321
ENSMUSG0	Sag	19.1459	6.555293046	2.916585	2.247592	0.024602	0.163321
ENSMUSG0	9130019O22Rik	56.42968	-4.209144841	1.873102	-2.24715	0.02463	0.163429
ENSMUSG0	Hoxb4	764.6311	2.423101133	1.07844	2.246858	0.024649	0.163429
ENSMUSG0	Wdr74	22.3321	7.251799877	3.227521	2.246864	0.024649	0.163429
ENSMUSG0	Rpl7a-ps7	34.03453	-6.319067368	2.813301	-2.24614	0.024695	0.163648
ENSMUSG0	Cntnap2	128.9221	2.887593887	1.286359	2.244781	0.024782	0.164129
ENSMUSG0	Cox16	23.78847	3.859476356	1.719345	2.244736	0.024785	0.164129
ENSMUSG0	Pou4f1	139.3794	-2.99569426	1.334804	-2.2443	0.024813	0.164259
ENSMUSG0	Ppp1r1c	23.79798	-8.227939304	3.666841	-2.24388	0.02484	0.16438
ENSMUSG0	Zfp955a	193.1436	-2.882983033	1.285151	-2.2433	0.024877	0.164526
ENSMUSG0	Insm1	280.4312	-2.060639597	0.918591	-2.24326	0.02488	0.164526
ENSMUSG0	Adam33	120.4657	-4.342877548	1.936319	-2.24285	0.024906	0.164585
ENSMUSG0	Klhl35	21.9359	7.849175861	3.500189	2.2425	0.024929	0.164618
ENSMUSG0	Prph	132.5552	-3.102664293	1.383766	-2.24219	0.024949	0.164636
ENSMUSG0	C1qc	809.805	1.299435705	0.579716	2.241504	0.024993	0.164755
ENSMUSG0	Pdxk-ps	29.89359	4.912127487	2.191361	2.241587	0.024988	0.164755
ENSMUSG0	Pip5k1b	238.5564	-1.746185144	0.779304	-2.2407	0.025046	0.164984
ENSMUSG0	Tsfm	397.2966	1.311135934	0.585141	2.240718	0.025044	0.164984
ENSMUSG0	H2-M3	12.94003	7.612614118	3.397642	2.240558	0.025055	0.164986
ENSMUSG0	Cct3-ps1	20.3731	4.952786377	2.211627	2.239431	0.025128	0.16538
ENSMUSG0	Slc27a5	19.20205	7.962929435	3.55719	2.238545	0.025186	0.165616
ENSMUSG0	Gpr179	26.21472	-6.748039585	3.015053	-2.23812	0.025213	0.165683
ENSMUSG0	Fadd	230.601	2.054292669	0.918198	2.237308	0.025266	0.165892
ENSMUSG0	3110083C13Rik	13.69907	7.892742064	3.527918	2.237224	0.025272	0.165892
ENSMUSG0	Ccdc120	484.61	-1.255069203	0.561089	-2.23684	0.025296	0.165989
ENSMUSG0	Tomm5	290.9966	2.257734115	1.009391	2.236728	0.025304	0.165989
ENSMUSG0	Gm3235	24.3476	7.845922124	3.508475	2.236277	0.025334	0.166067
ENSMUSG0	L1td1	92.54537	4.655330687	2.082189	2.235786	0.025366	0.16622
ENSMUSG0	Tnip2	234.0101	-1.360155361	0.608722	-2.23444	0.025454	0.166682
ENSMUSG0	G430095P16Rik	53.29912	-7.337316837	3.285146	-2.23348	0.025517	0.166964
ENSMUSG0	Htr3a	63.67274	-3.497021451	1.565861	-2.23329	0.02553	0.166964
ENSMUSG0	Klf14	152.1001	-3.426738969	1.534271	-2.23346	0.025518	0.166964
ENSMUSG0	Elmod3	331.0134	-1.438357867	0.644299	-2.23244	0.025586	0.167215
ENSMUSG0	Pggt1b	719.0652	1.292734159	0.579114	2.232264	0.025598	0.167215
ENSMUSG0	Dmbx1	16.57066	7.42893578	3.328839	2.23169	0.025635	0.167346
ENSMUSG0	Gm26762	44.71397	-6.33357683	2.841126	-2.22925	0.025797	0.168286
ENSMUSG0	Gm12397	31.63571	-5.897463017	2.645727	-2.22905	0.02581	0.168313
ENSMUSG0	Ddit4	460.1782	-2.09154569	0.938498	-2.22861	0.02584	0.168389
ENSMUSG0	Armc9	581.8294	1.703596679	0.764897	2.227225	0.025932	0.168623
ENSMUSG0	Peg12	375.6815	2.642852198	1.186409	2.227607	0.025907	0.168623
ENSMUSG0	Gm20661	30.72265	6.361903883	2.856168	2.227426	0.025919	0.168623
ENSMUSG0	Muc3a	22.74025	-9.623030118	4.321783	-2.22663	0.025972	0.168664
ENSMUSG0	Tmem252	130.3854	-2.445988712	1.098415	-2.22684	0.025958	0.168664
ENSMUSG0	Phex	29.01287	6.197430903	2.783183	2.226742	0.025964	0.168664
ENSMUSG0	AC125321.2	21.74896	-9.571653671	4.301648	-2.22511	0.026074	0.169209
ENSMUSG0	Rnft2	509.4371	-1.858370283	0.835611	-2.22396	0.026151	0.169476
ENSMUSG0	Gm24616	13.9941	6.26538926	2.818775	2.222735	0.026234	0.169954

ENSMUSG0	Cenpo	270.3737	1.672955006	0.752702	2.2226	0.026243	0.169955
ENSMUSG0	Rmdn1	92.1627	4.168887274	1.875863	2.222384	0.026257	0.169991
ENSMUSG0	Rab30	231.1843	-1.482988565	0.667421	-2.22197	0.026285	0.170114
ENSMUSG0	Gm6781	45.71777	-4.269585262	1.921681	-2.2218	0.026297	0.170131
ENSMUSG0	Gm38012	30.28911	-10.03582363	4.517955	-2.22132	0.026329	0.170281
ENSMUSG0	Myo3b	46.36798	7.663209424	3.450139	2.22113	0.026342	0.170305
ENSMUSG0	Gm5784	22.06588	4.949527039	2.2286	2.220913	0.026357	0.170342
ENSMUSG0	Kctd8	49.33029	-4.362683972	1.964721	-2.22051	0.026384	0.170342
ENSMUSG0	Tmem181b-ps	103.6698	1.606713757	0.7236	2.220445	0.026389	0.170342
ENSMUSG0	AC164561.1	91.14192	3.796733496	1.71001	2.2203	0.026398	0.170342
ENSMUSG0	5430405H02Rik	85.41064	3.991526629	1.797689	2.220365	0.026394	0.170342
ENSMUSG0	Gm6733	69.16955	-2.384502439	1.074284	-2.21962	0.026445	0.170557
ENSMUSG0	Gm38101	41.17109	-7.348773985	3.311328	-2.21928	0.026467	0.170609
ENSMUSG0	Zfp607a	149.3446	-2.234840669	1.00704	-2.21922	0.026472	0.170609
ENSMUSG0	Tac2	40.57782	5.698222181	2.567804	2.219103	0.02648	0.170609
ENSMUSG0	Prl3b1	18.95702	8.596588292	3.874424	2.218804	0.0265	0.170681
ENSMUSG0	Rph3al	288.4725	-1.734512763	0.781869	-2.21842	0.026526	0.170791
ENSMUSG0	AC153566.1	22.36412	-9.595011172	4.32575	-2.21812	0.026547	0.170867
ENSMUSG0	Gm13204	23.61939	5.1138423	2.306264	2.217371	0.026598	0.171018
ENSMUSG0	Fstl5	19.59291	7.274190134	3.280518	2.21739	0.026596	0.171018
ENSMUSG0	Prr36	554.8488	-1.480120939	0.66766	-2.21688	0.026632	0.171177
ENSMUSG0	Commd8	758.9211	1.304381898	0.588627	2.215975	0.026693	0.171288
ENSMUSG0	Abcb1a	38.47211	5.304140158	2.393291	2.216254	0.026674	0.171288
ENSMUSG0	Gm14204	83.09633	5.825678537	2.628966	2.215958	0.026694	0.171288
ENSMUSG0	Slc43a2	733.1741	1.218459664	0.549987	2.215435	0.02673	0.17146
ENSMUSG0	Plcx3	29.57162	5.60258707	2.529116	2.215235	0.026744	0.171489
ENSMUSG0	Dlgap2	15.32266	-8.625148274	3.896411	-2.21361	0.026855	0.172032
ENSMUSG0	Pigw	251.6956	-1.561383708	0.705732	-2.21243	0.026937	0.172032
ENSMUSG0	Tjp3	219.4605	-1.54825791	0.699734	-2.21264	0.026923	0.172032
ENSMUSG0	4921531C22Rik	53.02249	2.489726986	1.125203	2.212691	0.026919	0.172032
ENSMUSG0	Dock8	585.9492	2.551929289	1.153207	2.212898	0.026905	0.172032
ENSMUSG0	Alkbh7	84.43248	2.705787823	1.223005	2.21241	0.026938	0.172032
ENSMUSG0	Lrrc4c	27.24898	4.635971015	2.094891	2.212989	0.026898	0.172032
ENSMUSG0	Lilr4b	18.46075	7.279770931	3.291945	2.211389	0.027009	0.172361
ENSMUSG0	Il1rn	37.09818	7.547718022	3.413297	2.211269	0.027017	0.172361
ENSMUSG0	AC126943.1	19.87986	-3.660013586	1.655637	-2.21064	0.027061	0.172581
ENSMUSG0	Hs6st3	19.06654	5.839321152	2.641621	2.210507	0.02707	0.172581
ENSMUSG0	Gm14277	81.19273	2.083949559	0.942898	2.210154	0.027094	0.172585
ENSMUSG0	Rpl31-ps8	147.2296	2.087871575	0.944696	2.2101	0.027098	0.172585
ENSMUSG0	AC154176.1	37.29335	3.835197343	1.735237	2.210186	0.027092	0.172585
ENSMUSG0	Dusp18	370.617	1.466879898	0.663923	2.209414	0.027146	0.17283
ENSMUSG0	Fam217a	121.1347	-4.004048789	1.812654	-2.20894	0.027179	0.172863
ENSMUSG0	Gpr27	268.4405	-2.092208639	0.947126	-2.20901	0.027174	0.172863
ENSMUSG0	Ntf3	154.1245	-1.799246779	0.814467	-2.20911	0.027167	0.172863
ENSMUSG0	Nfkbie	128.1377	1.901830033	0.861327	2.208023	0.027243	0.173095
ENSMUSG0	1700097M23Rik	18.39744	-8.113150945	3.675487	-2.20737	0.027288	0.173237
ENSMUSG0	Tbc1d23	552.6135	-1.342607714	0.608211	-2.20747	0.027281	0.173237
ENSMUSG0	Gm44053	17.36568	6.721604072	3.04516	2.207308	0.027293	0.173237

ENSMUSG0	E230016M11Rik	68.30823	-4.373470458	1.981951	-2.20665	0.027339	0.17347
ENSMUSG0	Gm15519	98.35832	2.395265795	1.085661	2.206273	0.027365	0.173578
ENSMUSG0	Sh2d6	18.04016	7.980495114	3.619694	2.204743	0.027472	0.174083
ENSMUSG0	Ryr3	162.0415	-1.307009307	0.593	-2.20406	0.02752	0.17421
ENSMUSG0	Trim6	278.5781	2.129764789	0.967054	2.202323	0.027642	0.174809
ENSMUSG0	Gm13858	43.64042	-6.420344782	2.91745	-2.20067	0.027759	0.175489
ENSMUSG0	Gatb	287.6176	1.329272067	0.604228	2.199952	0.02781	0.175752
ENSMUSG0	Hist1h1e	284.9013	-7.657487586	3.481428	-2.19952	0.027841	0.175885
ENSMUSG0	Pip5k1l	52.52836	5.43369916	2.472175	2.197943	0.027953	0.176537
ENSMUSG0	Gm3470	19.38878	6.670641933	3.035504	2.19754	0.027982	0.176659
ENSMUSG0	Olf678	103.312	-3.305530272	1.504371	-2.19728	0.028	0.176715
ENSMUSG0	Dhrs13	158.5298	2.381773656	1.084128	2.196949	0.028024	0.176806
ENSMUSG0	Gm11536	38.60162	5.010186154	2.280968	2.196517	0.028055	0.176882
ENSMUSG0	Rpl29-ps5	15.34431	5.26142074	2.395744	2.196154	0.028081	0.176987
ENSMUSG0	Naaladl2	69.96377	-2.125566878	0.968104	-2.1956	0.028121	0.177179
ENSMUSG0	Nfkb2	623.1667	1.776294984	0.80917	2.195206	0.028149	0.177223
ENSMUSG0	Ctxn3	26.50923	5.366524677	2.444768	2.195106	0.028156	0.177223
ENSMUSG0	Mzb1	20.02751	8.368999012	3.812811	2.194969	0.028166	0.177225
ENSMUSG0	AC140477.3	17.9801	7.844410062	3.574039	2.194831	0.028176	0.177228
ENSMUSG0	ligp1	97.36005	2.979737154	1.357765	2.19459	0.028193	0.177278
ENSMUSG0	Cfap69	250.5526	-1.50385963	0.685551	-2.19365	0.028261	0.177643
ENSMUSG0	Dhps	695.0783	-1.646693712	0.750736	-2.19344	0.028276	0.17768
ENSMUSG0	Abcb1b	99.6146	3.015890713	1.375323	2.192861	0.028317	0.177882
ENSMUSG0	Daw1	22.14144	7.642687333	3.486729	2.191936	0.028384	0.178241
ENSMUSG0	Gm37470	29.10815	-10.01892432	4.572959	-2.19091	0.028459	0.178519
ENSMUSG0	Gm21411	39.04441	-7.731499573	3.529076	-2.1908	0.028466	0.178519
ENSMUSG0	Atraid	428.2875	-1.262564361	0.57626	-2.19096	0.028455	0.178519
ENSMUSG0	Card9	104.5158	3.465272571	1.581553	2.191057	0.028448	0.178519
ENSMUSG0	Syne3	296.0251	3.139855612	1.433729	2.189992	0.028525	0.178657
ENSMUSG0	CT025561.2	50.00216	5.549387184	2.533675	2.190252	0.028506	0.178657
ENSMUSG0	Rassf4	580.5338	1.594047337	0.728263	2.188835	0.028609	0.178936
ENSMUSG0	Msh4	25.22228	-7.658605508	3.499164	-2.1887	0.028619	0.17894
ENSMUSG0	Gm5841	147.2789	-2.927740596	1.337912	-2.18829	0.028648	0.179005
ENSMUSG0	6820431F20Rik	197.9921	-2.726734334	1.246829	-2.18693	0.028747	0.179523
ENSMUSG0	AC069074.2	60.55954	-8.578878188	3.923914	-2.18631	0.028793	0.179612
ENSMUSG0	Myo1f	418.0786	1.571998703	0.718936	2.186563	0.028774	0.179612
ENSMUSG0	Gm43034	22.40838	6.776726127	3.099502	2.186392	0.028787	0.179612
ENSMUSG0	Gm38126	38.10822	6.625287071	3.030864	2.18594	0.02882	0.179719
ENSMUSG0	Pigf	103.8912	-1.993395246	0.91227	-2.18509	0.028882	0.179984
ENSMUSG0	Angptl7	14.10992	5.968064142	2.73142	2.184968	0.028891	0.179984
ENSMUSG0	6430500D05Rik	24.6968	5.613177171	2.569592	2.184462	0.028928	0.180156
ENSMUSG0	Gm26359	15.29322	7.686369252	3.519997	2.183629	0.028989	0.180467
ENSMUSG0	Gm45819	104.5981	-4.660407157	2.135158	-2.1827	0.029058	0.180664
ENSMUSG0	Tk2	467.4582	1.519830173	0.696465	2.182205	0.029094	0.180831
ENSMUSG0	Gm11408	91.28983	-2.696839528	1.236133	-2.18167	0.029134	0.180836
ENSMUSG0	Tgif2	286.5545	2.115328337	0.969493	2.181891	0.029118	0.180836
ENSMUSG0	Lilrb4a	32.9258	4.17828087	1.915027	2.181839	0.029121	0.180836
ENSMUSG0	Tll7	331.9768	-1.990019983	0.913095	-2.17942	0.0293	0.181811

ENSMUSG0	Gm43566	30.64737	4.393972802	2.016892	2.178586	0.029362	0.182076
ENSMUSG0	Neat1	402.7405	2.729989795	1.253495	2.177903	0.029413	0.182242
ENSMUSG0	Gm17396	49.9036	3.144550812	1.443888	2.177836	0.029418	0.182242
ENSMUSG0	Tcte2	49.36496	-4.473580608	2.055881	-2.17599	0.029556	0.182831
ENSMUSG0	Fbxl2	66.01231	3.058393994	1.405445	2.176104	0.029547	0.182831
ENSMUSG0	Rtp4	17.43336	7.183077008	3.301182	2.175911	0.029562	0.182831
ENSMUSG0	A730089K16Rik	20.94029	6.489311598	2.985812	2.173383	0.029752	0.183762
ENSMUSG0	Ap3s1-ps2	35.54097	3.885797734	1.78997	2.170873	0.029941	0.184689
ENSMUSG0	Tnfrsf8	18.21947	8.559410882	3.943507	2.170507	0.029968	0.184799
ENSMUSG0	Srcin1	438.1417	-1.615676176	0.744433	-2.17035	0.029981	0.184814
ENSMUSG0	Gm14165	93.95417	-2.513197919	1.158223	-2.16987	0.030016	0.184856
ENSMUSG0	Nova1	312.7265	-1.451917322	0.669277	-2.16938	0.030054	0.184903
ENSMUSG0	Gm21188	13.11288	7.394471827	3.408571	2.169376	0.030054	0.184903
ENSMUSG0	Thsd7a	1075.533	-1.216604178	0.560953	-2.16882	0.030097	0.185104
ENSMUSG0	Gm38253	16.81829	7.86212386	3.625586	2.168511	0.03012	0.185186
ENSMUSG0	Cilp	23.83791	-9.364701519	4.319067	-2.16822	0.030142	0.185239
ENSMUSG0	4930523C07Rik	179.3139	1.538206038	0.710362	2.165383	0.030358	0.186123
ENSMUSG0	Spry3	23.87598	5.360386885	2.475402	2.165461	0.030352	0.186123
ENSMUSG0	Gm15337	28.99752	5.683164553	2.62422	2.165658	0.030337	0.186123
ENSMUSG0	Hmgb1-ps8	24.98459	4.652054134	2.149184	2.164568	0.030421	0.186324
ENSMUSG0	Mgam	92.17866	4.623461427	2.136302	2.164236	0.030446	0.186341
ENSMUSG0	Gm28447	24.4409	-7.878904567	3.641197	-2.16382	0.030478	0.186353
ENSMUSG0	Hddc3	104.799	-2.87526628	1.329183	-2.16318	0.030527	0.186533
ENSMUSG0	Efhd1	74.21147	6.077107131	2.810137	2.162566	0.030575	0.186701
ENSMUSG0	AC124739.3	22.7722	7.433313722	3.438892	2.161543	0.030653	0.187122
ENSMUSG0	Gm13930	46.39327	-9.34053988	4.321496	-2.16141	0.030663	0.187122
ENSMUSG0	Klrg2	27.96832	3.090199553	1.430183	2.160702	0.030718	0.187336
ENSMUSG0	Rab32	223.2822	2.819779157	1.305735	2.159534	0.030809	0.187766
ENSMUSG0	Gm44738	30.43917	-6.376783991	2.953341	-2.15918	0.030837	0.187874
ENSMUSG0	A730011C13Rik	66.14453	3.545920631	1.642795	2.158469	0.030891	0.188026
ENSMUSG0	Ggn	28.95801	7.117183861	3.299277	2.157195	0.03099	0.188446
ENSMUSG0	Vsig10	340.3311	-1.279118336	0.59301	-2.15699	0.031006	0.18848
ENSMUSG0	Rfx2	178.5747	2.282600073	1.05839	2.156671	0.031031	0.188573
ENSMUSG0	Nkain2	18.24202	-6.031281375	2.797394	-2.15604	0.031081	0.188813
ENSMUSG0	Nlrp3	131.008	2.874126066	1.333555	2.155236	0.031143	0.18907
ENSMUSG0	Spns3	34.87863	7.246481508	3.362777	2.15491	0.031169	0.189129
ENSMUSG0	Trim30e-ps1	31.24599	-9.772910414	4.536814	-2.15414	0.03123	0.189206
ENSMUSG0	Gm45137	24.72312	5.393375271	2.503419	2.154404	0.031208	0.189206
ENSMUSG0	Olf920	18.94242	6.570666249	3.050298	2.154106	0.031232	0.189206
ENSMUSG0	Zfp97	18.71097	6.86819758	3.188393	2.154125	0.03123	0.189206
ENSMUSG0	Rps3a3	1199.822	1.500738264	0.696908	2.153423	0.031285	0.189444
ENSMUSG0	Mypop	80.57898	2.27433775	1.056332	2.153052	0.031315	0.18956
ENSMUSG0	Gm20604	62.18562	4.32237732	2.008074	2.152499	0.031358	0.189701
ENSMUSG0	Scrn2	450.1829	1.709664778	0.794449	2.152014	0.031396	0.18981
ENSMUSG0	Gm45338	43.14515	-5.969295639	2.775148	-2.15098	0.031478	0.190096
ENSMUSG0	N4bp2os	15.22736	5.74807837	2.67227	2.151009	0.031475	0.190096
ENSMUSG0	1700101111Rik	15.03357	8.206046379	3.815933	2.150469	0.031518	0.19018
ENSMUSG0	Krt24	80.09451	-7.380694681	3.433229	-2.14978	0.031572	0.190205

ENSMUSG0	Rasef	339.9919	-2.03636945	0.947183	-2.14992	0.031561	0.190205
ENSMUSG0	Cpa2	115.3737	3.607691235	1.678029	2.149957	0.031559	0.190205
ENSMUSG0	Gipc3	30.66582	7.150708196	3.326247	2.149782	0.031572	0.190205
ENSMUSG0	Gm9522	43.45471	-2.501348449	1.163861	-2.14918	0.03162	0.190429
ENSMUSG0	Faah	115.4625	-2.491632923	1.159688	-2.14854	0.031671	0.190553
ENSMUSG0	AC162938.2	93.62466	-6.920188048	3.222699	-2.14733	0.031767	0.190656
ENSMUSG0	Pcp4	29.75961	-5.123544052	2.38638	-2.14699	0.031794	0.190656
ENSMUSG0	Dock3	72.17548	-2.381217619	1.108939	-2.14729	0.03177	0.190656
ENSMUSG0	Ap1m2	295.9162	-2.225817189	1.036323	-2.1478	0.031729	0.190656
ENSMUSG0	Ftx	399.8142	-1.864548811	0.868224	-2.14754	0.03175	0.190656
ENSMUSG0	Crb3	123.0783	-1.613959887	0.751675	-2.14715	0.031781	0.190656
ENSMUSG0	Brms1l	540.5335	1.242730447	0.578666	2.147579	0.031747	0.190656
ENSMUSG0	CT009512.1	22.90977	7.451069301	3.470316	2.147087	0.031786	0.190656
ENSMUSG0	AC118202.1	21.00336	8.825912039	4.110962	2.146921	0.0318	0.190656
ENSMUSG0	Gm4279	21.29274	5.291219558	2.464817	2.146698	0.031817	0.190701
ENSMUSG0	Cd300lf	34.81541	6.107040675	2.845385	2.146296	0.031849	0.190772
ENSMUSG0	Pla2g3	13.26486	6.404451947	2.985729	2.145021	0.031951	0.191153
ENSMUSG0	Gm14827	147.7679	-3.857006473	1.800168	-2.14258	0.032147	0.191784
ENSMUSG0	Kremen2	22.29563	7.016618229	3.27492	2.142531	0.032151	0.191784
ENSMUSG0	Mx1	14.33502	8.224004538	3.838199	2.142673	0.032139	0.191784
ENSMUSG0	Gm20548	51.23361	2.81546611	1.314172	2.142388	0.032162	0.191791
ENSMUSG0	Gm43196	54.85914	-9.86387011	4.604706	-2.14213	0.032183	0.191798
ENSMUSG0	4930579K19Rik	13.08127	6.666595343	3.112153	2.142116	0.032184	0.191798
ENSMUSG0	Wdr25	279.4042	-1.371283439	0.640567	-2.14074	0.032295	0.1923
ENSMUSG0	Slc5a2	77.75219	4.857426768	2.269153	2.140634	0.032304	0.1923
ENSMUSG0	Myh11	32.79188	4.904949582	2.291562	2.14044	0.032319	0.192301
ENSMUSG0	E230029C05Rik	36.37229	5.410407722	2.528168	2.140051	0.032351	0.19237
ENSMUSG0	Al467606	64.48122	5.482391893	2.562029	2.139863	0.032366	0.192396
ENSMUSG0	Gm16050	18.36974	-9.355685478	4.372747	-2.13954	0.032392	0.192488
ENSMUSG0	Gm43527	22.86774	-9.475987421	4.42978	-2.13916	0.032423	0.192554
ENSMUSG0	Gm10822	28.53191	-9.091041683	4.251397	-2.13837	0.032487	0.192644
ENSMUSG0	Hist1h3g	17.18271	7.703108065	3.602357	2.138352	0.032488	0.192644
ENSMUSG0	Tmbim4	414.076	-1.562343859	0.731016	-2.13722	0.03258	0.193017
ENSMUSG0	AC138284.5	27.13227	8.652898679	4.048741	2.137183	0.032583	0.193017
ENSMUSG0	Gpr156	129.1329	-4.301019308	2.012709	-2.13693	0.032604	0.193078
ENSMUSG0	Gm38312	17.30843	7.105319642	3.32566	2.136514	0.032638	0.193157
ENSMUSG0	Gm45104	16.037	5.493326135	2.571455	2.136272	0.032657	0.193213
ENSMUSG0	Rab25	69.31438	-2.77138679	1.297494	-2.13595	0.032683	0.193244
ENSMUSG0	Ggt1	328.2474	-2.125281562	0.995145	-2.13565	0.032708	0.19333
ENSMUSG0	Clec16a	702.6178	-1.355718887	0.634921	-2.13526	0.03274	0.193398
ENSMUSG0	5330438D12Rik	66.28419	3.536798209	1.656358	2.135286	0.032738	0.193398
ENSMUSG0	Gm6665	40.45379	-5.312100477	2.489217	-2.13404	0.032839	0.193862
ENSMUSG0	Gm26664	21.889	5.190012393	2.433093	2.133093	0.032917	0.19414
ENSMUSG0	Smarca5-ps	50.06789	3.788047984	1.776271	2.132585	0.032959	0.19426
ENSMUSG0	Ppcs	181.9793	2.481278695	1.163855	2.131949	0.033011	0.194389
ENSMUSG0	Gm13205	13.87925	7.285770079	3.417231	2.132069	0.033001	0.194389
ENSMUSG0	Rmi1	284.3595	-2.212519157	1.038047	-2.13142	0.033054	0.194583
ENSMUSG0	Gm38124	28.07975	-9.966931732	4.677713	-2.13073	0.033112	0.194741

ENSMUSG0	AC126262.1	36.90958	-2.319042665	1.088637	-2.13023	0.033153	0.194819
ENSMUSG0	Slc38a3	305.6365	-1.327251187	0.622997	-2.13043	0.033136	0.194819
ENSMUSG0	Prss35	278.6686	2.729314266	1.281259	2.130182	0.033157	0.194819
ENSMUSG0	Gm11218	21.95155	-8.725579183	4.097073	-2.12971	0.033196	0.194987
ENSMUSG0	Slc12a8	41.06413	-5.758395606	2.704772	-2.12898	0.033256	0.195222
ENSMUSG0	Chst13	47.83805	-6.825291294	3.206873	-2.12833	0.03331	0.19545
ENSMUSG0	Dcst2	22.72706	7.472295904	3.510993	2.128257	0.033316	0.19545
ENSMUSG0	Togaram2	29.11997	6.918392519	3.251646	2.127659	0.033365	0.19568
ENSMUSG0	Adcy8	86.85259	-2.635524876	1.239239	-2.12673	0.033443	0.195886
ENSMUSG0	1110065P20Rik	131.0628	1.969869464	0.926189	2.126855	0.033432	0.195886
ENSMUSG0	Cgref1	75.14445	2.751393051	1.293983	2.126297	0.033478	0.19594
ENSMUSG0	Sp7	19.22366	5.311813846	2.498211	2.126247	0.033483	0.19594
ENSMUSG0	Uty	456.5635	-1.813141218	0.852827	-2.12604	0.0335	0.195982
ENSMUSG0	Tagln3	210.4681	-1.750819249	0.823902	-2.12503	0.033584	0.196288
ENSMUSG0	Rnf125	55.44007	4.387186097	2.064471	2.12509	0.033579	0.196288
ENSMUSG0	Gm45807	36.34701	7.258219933	3.416076	2.124724	0.03361	0.196378
ENSMUSG0	Gm14001	28.73757	-8.654543921	4.074845	-2.1239	0.033679	0.196722
ENSMUSG0	Gm45768	126.3036	-2.895005083	1.36332	-2.1235	0.033712	0.196794
ENSMUSG0	Cdk15	363.9747	-1.796080528	0.845785	-2.12357	0.033706	0.196794
ENSMUSG0	Snord32a	19.83718	-8.533056112	4.018917	-2.12322	0.033735	0.196796
ENSMUSG0	Gm5745	43.36872	-7.290398598	3.434825	-2.12249	0.033796	0.196796
ENSMUSG0	Cst6	97.75419	-4.952095958	2.332931	-2.12269	0.03378	0.196796
ENSMUSG0	Zfand1	375.6921	-2.544147234	1.198365	-2.12301	0.033753	0.196796
ENSMUSG0	Gm22392	27.28551	3.805495926	1.792717	2.122753	0.033775	0.196796
ENSMUSG0	Nipal1	34.35422	5.474979114	2.579354	2.122617	0.033786	0.196796
ENSMUSG0	Gm7837	70.46944	5.791236687	2.727999	2.122888	0.033763	0.196796
ENSMUSG0	Chad	24.44743	7.215499268	3.39837	2.123224	0.033735	0.196796
ENSMUSG0	9530052E02Rik	22.68611	-8.215141299	3.871983	-2.12169	0.033864	0.197027
ENSMUSG0	2700097O09Rik	315.638	1.837387468	0.866282	2.121003	0.033922	0.197027
ENSMUSG0	A930007I19Rik	56.59921	5.653753585	2.665888	2.120777	0.033941	0.197027
ENSMUSG0	Gm43313	35.64562	5.982326852	2.820226	2.121223	0.033903	0.197027
ENSMUSG0	Crtam	15.2361	7.25030618	3.417548	2.121493	0.03388	0.197027
ENSMUSG0	Loxl3	554.5595	-1.554935188	0.733244	-2.12062	0.033954	0.197041
ENSMUSG0	Elovl1	713.162	1.282314412	0.604905	2.119862	0.034018	0.197292
ENSMUSG0	Impa2	425.1425	1.505515289	0.710158	2.119974	0.034008	0.197292
ENSMUSG0	Gm15351	20.05486	-7.83489345	3.697747	-2.11883	0.034105	0.197676
ENSMUSG0	Nfkbil1	385.737	1.221036895	0.576271	2.11886	0.034102	0.197676
ENSMUSG0	Begain	342.027	1.510635817	0.713144	2.118275	0.034152	0.197887
ENSMUSG0	Fam169a	460.2642	-1.538033224	0.726373	-2.11742	0.034225	0.198171
ENSMUSG0	Zkscan2	398.5699	1.864749886	0.880725	2.11729	0.034235	0.198171
ENSMUSG0	Gnat2	21.19904	7.577644024	3.579101	2.117192	0.034244	0.198171
ENSMUSG0	Abhd14a	394.5334	1.403073574	0.662787	2.116931	0.034266	0.198181
ENSMUSG0	Gm38340	18.04398	6.962593029	3.289544	2.116583	0.034295	0.19823
ENSMUSG0	Adam30	55.60205	-7.004227953	3.312635	-2.1144	0.034481	0.199163
ENSMUSG0	Fam96b	372.1082	1.363152982	0.644726	2.114315	0.034488	0.199163
ENSMUSG0	Ppm1e	198.3253	1.460115852	0.690791	2.113688	0.034542	0.199411
ENSMUSG0	Gdpgp1	74.50145	1.997442894	0.945063	2.113555	0.034553	0.199415
ENSMUSG0	5930420M18Rik	134.3835	-2.453181684	1.161097	-2.11281	0.034617	0.199597

ENSMUSG0	Cacna1a	535.8765	-1.365121285	0.646092	-2.11289	0.03461	0.199597
ENSMUSG0	AC161884.1	44.64293	-10.07234596	4.769471	-2.11184	0.0347	0.199888
ENSMUSG0	Psemb5	514.3319	1.668020715	0.789805	2.11194	0.034692	0.199888
ENSMUSG0	Paqr9	93.61295	5.424462186	2.568774	2.111693	0.034713	0.199888
ENSMUSG0	Mlip	17.54471	6.070343184	2.874789	2.111578	0.034723	0.199888
ENSMUSG0	AC139568.2	23.61699	7.833355506	3.709883	2.111483	0.034731	0.199888
ENSMUSG0	Mettl11b	30.14526	-10.10109273	4.785581	-2.11073	0.034795	0.199972
ENSMUSG0	Tekt5	22.66952	-8.34731571	3.955043	-2.11055	0.034811	0.199972
ENSMUSG0	Rtn1	626.3277	-2.127500183	1.008086	-2.11044	0.034821	0.199972
ENSMUSG0	Gm16861	13.02016	5.87761228	2.785169	2.110325	0.03483	0.199972
ENSMUSG0	AC163040.2	21.81845	7.346248286	3.481507	2.110077	0.034852	0.200033
ENSMUSG0	Gnat1	23.33419	5.134217827	2.433427	2.109871	0.034869	0.200074
ENSMUSG0	Nell1	292.4861	-2.209683277	1.04743	-2.10962	0.034891	0.200085
ENSMUSG0	Plaur	103.8228	3.224912102	1.528772	2.109479	0.034903	0.200085
ENSMUSG0	Gm43360	18.58131	5.431014458	2.574514	2.10953	0.034899	0.200085
ENSMUSG0	Nlrp1b	15.05908	8.114696134	3.847265	2.109212	0.034926	0.200156
ENSMUSG0	Tpcn2	474.5441	-1.46586762	0.695068	-2.10896	0.034948	0.200222
ENSMUSG0	Plxna4os1	16.72829	8.434667509	4.001416	2.10792	0.035038	0.200551
ENSMUSG0	Dclre1c	314.9934	1.231480796	0.584528	2.106796	0.035135	0.201048
ENSMUSG0	Fars2	240.3723	2.403964356	1.141821	2.105378	0.035258	0.201504
ENSMUSG0	Gm42939	46.60988	5.697972221	2.706539	2.105261	0.035269	0.201504
ENSMUSG0	Gm5857	19.65357	6.640048419	3.156256	2.103774	0.035398	0.202002
ENSMUSG0	Pigyl	223.4026	-1.60196352	0.761556	-2.10354	0.035418	0.202054
ENSMUSG0	Kcnmb3	16.86749	-8.966929597	4.264674	-2.10261	0.0355	0.202397
ENSMUSG0	Cep57l1	366.5955	1.6532073	0.786483	2.102026	0.035551	0.202564
ENSMUSG0	Gm45620	36.71457	-10.05868718	4.785608	-2.10186	0.035565	0.202585
ENSMUSG0	AC152945.2	28.8444	-9.98453117	4.750777	-2.10166	0.035583	0.202621
ENSMUSG0	Rbm41	407.1491	-1.325027454	0.630589	-2.10125	0.035619	0.202621
ENSMUSG0	Rarb	481.6741	1.289140571	0.613512	2.101248	0.035619	0.202621
ENSMUSG0	Dscaml1	17.03307	8.069131738	3.839976	2.101349	0.03561	0.202621
ENSMUSG0	Lrrc61	286.0862	-1.442365646	0.686612	-2.1007	0.035667	0.202797
ENSMUSG0	Gm13199	46.71074	-4.409570935	2.099798	-2.1	0.035729	0.202964
ENSMUSG0	1700029J03Rik	29.14438	-10.04129492	4.78562	-2.09822	0.035885	0.20373
ENSMUSG0	4930448E22Rik	75.89011	4.928171318	2.349693	2.097368	0.035961	0.204097
ENSMUSG0	Drp2	244.9515	-2.707231477	1.2915	-2.09619	0.036065	0.204442
ENSMUSG0	Gm7299	56.35065	3.549882938	1.693293	2.096437	0.036043	0.204442
ENSMUSG0	Gm8173	71.6795	-4.057928349	1.938214	-2.09364	0.036292	0.205294
ENSMUSG0	Rep15	16.2907	6.510820124	3.111023	2.092823	0.036365	0.205646
ENSMUSG0	Zfp963	66.42125	2.933865503	1.402052	2.092551	0.036389	0.205721
ENSMUSG0	Zfp455	26.1314	7.215062255	3.45227	2.089947	0.036623	0.206978
ENSMUSG0	Nkain4	127.5674	3.586929926	1.716407	2.08979	0.036637	0.206996
ENSMUSG0	Olf337-ps1	36.18267	-8.841799662	4.231522	-2.08951	0.036662	0.207077
ENSMUSG0	Sox8	309.3462	-2.172297659	1.039915	-2.08892	0.036715	0.207275
ENSMUSG0	Slc6a15	209.7265	-2.103874272	1.007181	-2.08887	0.036719	0.207275
ENSMUSG0	AC132344.1	25.49456	-9.22026467	4.415856	-2.08799	0.036799	0.207405
ENSMUSG0	Neurod1	213.8842	-2.001597813	0.958487	-2.08829	0.036772	0.207405
ENSMUSG0	Gm16069	24.73832	8.308691693	3.97948	2.087884	0.036808	0.207405
ENSMUSG0	Gm11405	52.32273	3.160853878	1.514268	2.087381	0.036854	0.207599

ENSMUSG0	Kcnt2	144.5191	3.465848483	1.661041	2.086552	0.036929	0.207896
ENSMUSG0	AC159195.2	56.15916	-7.156199392	3.430374	-2.08613	0.036967	0.207998
ENSMUSG0	Atp8b5	65.54045	-6.239479176	2.990966	-2.08611	0.036969	0.207998
ENSMUSG0	Kcnb1	415.4146	-2.51510014	1.20582	-2.0858	0.036997	0.208033
ENSMUSG0	Slc35c1	402.2196	1.528640473	0.732881	2.085796	0.036997	0.208033
ENSMUSG0	9030617003Rik	28.63539	-3.990181403	1.913951	-2.08479	0.037089	0.208408
ENSMUSG0	Slc6a16	23.10128	-9.184727709	4.409242	-2.08306	0.037246	0.20893
ENSMUSG0	Sgtb	294.7284	-1.227801026	0.589362	-2.08327	0.037226	0.20893
ENSMUSG0	Ptges2	376.6503	1.395981862	0.670074	2.083323	0.037222	0.20893
ENSMUSG0	Ifna13	28.15734	-9.966927611	4.785669	-2.08266	0.037282	0.209073
ENSMUSG0	Gm12090	39.42389	-6.386669527	3.06819	-2.08158	0.037381	0.209269
ENSMUSG0	Gm38375	47.26318	-5.240907581	2.517674	-2.08165	0.037375	0.209269
ENSMUSG0	Gm12060	25.59483	5.977214339	2.871056	2.081887	0.037353	0.209269
ENSMUSG0	Gm43570	13.20991	6.743966785	3.24007	2.081426	0.037395	0.209269
ENSMUSG0	Foxh1	15.90571	8.367128466	4.018734	2.082031	0.03734	0.209269
ENSMUSG0	Gm15506	23.05986	4.927516761	2.368231	2.080674	0.037464	0.209592
ENSMUSG0	Gm44911	95.72094	-4.653922916	2.236998	-2.08043	0.037486	0.209654
ENSMUSG0	A230072E10Rik	34.10091	-7.724854593	3.717272	-2.0781	0.0377	0.210603
ENSMUSG0	Olfcr898	250.3041	-2.545063484	1.224959	-2.07767	0.03774	0.210759
ENSMUSG0	Wdr47	415.1046	-1.506994108	0.725444	-2.07734	0.03777	0.210868
ENSMUSG0	Pde6g	22.50045	-9.282177761	4.468691	-2.07716	0.037787	0.210899
ENSMUSG0	Gm10382	38.84326	-4.091384044	1.970048	-2.07679	0.037821	0.210998
ENSMUSG0	Mob3b	277.5709	-1.554373181	0.748555	-2.0765	0.037848	0.210998
ENSMUSG0	Ctf2	34.20181	4.47964095	2.157439	2.076369	0.03786	0.210998
ENSMUSG0	Kif17	51.76599	4.488259112	2.161728	2.076236	0.037872	0.210998
ENSMUSG0	Scn4a	71.24659	4.395813708	2.118429	2.075034	0.037983	0.211556
ENSMUSG0	Rxrg	165.6264	-3.201589551	1.544278	-2.0732	0.038154	0.212164
ENSMUSG0	Il10rb	135.0588	1.79276711	0.864823	2.072987	0.038173	0.212164
ENSMUSG0	Gnpnat1	310.3243	1.852591598	0.893674	2.073006	0.038172	0.212164
ENSMUSG0	Nlrp4a	38.50474	8.778939484	4.236286	2.07232	0.038236	0.212362
ENSMUSG0	Ccdc51	116.2696	1.953927119	0.94304	2.071945	0.038271	0.212422
ENSMUSG0	Gm42981	22.99403	5.019619945	2.422956	2.071692	0.038294	0.212469
ENSMUSG0	Fgl2	112.5223	1.696121759	0.819194	2.070476	0.038408	0.212974
ENSMUSG0	Gpr141	16.17123	7.583574214	3.664666	2.069377	0.038511	0.213419
ENSMUSG0	Tpbgl	23.66976	5.581976367	2.699504	2.067779	0.038661	0.214125
ENSMUSG0	Hscb	162.462	2.27333766	1.100176	2.066339	0.038796	0.214708
ENSMUSG0	Gm7027	27.21944	4.184766302	2.025248	2.066298	0.0388	0.214708
ENSMUSG0	H2-M5	112.3478	-2.693190599	1.303595	-2.06597	0.038831	0.214753
ENSMUSG0	AC158388.2	122.6911	-2.625877958	1.271299	-2.06551	0.038875	0.214783
ENSMUSG0	Mrpl51	510.0993	1.495331427	0.724	2.065374	0.038888	0.214783
ENSMUSG0	Art4	92.31399	4.455625766	2.157814	2.06488	0.038934	0.214944
ENSMUSG0	AC164426.2	61.02935	4.749152857	2.300246	2.064628	0.038958	0.21501
ENSMUSG0	Jakmip1	48.75007	-3.016979236	1.461846	-2.06381	0.039035	0.215123
ENSMUSG0	H2-DMa	75.2311	-3.861459308	1.871372	-2.06344	0.039071	0.215257
ENSMUSG0	Gm7099	15.79706	4.77554949	2.315329	2.062579	0.039153	0.215265
ENSMUSG0	Tex45	31.69857	6.901142408	3.345743	2.062664	0.039145	0.215265
ENSMUSG0	Gm37018	14.29608	-7.506584582	3.639864	-2.06233	0.039177	0.215273
ENSMUSG0	Snhg20	150.0553	-2.405885612	1.16659	-2.06232	0.039177	0.215273

ENSMUSG0	Elovl7	62.40559	-3.059883406	1.484017	-2.06189	0.039218	0.215436
ENSMUSG0	AC159813.1	14.85077	5.459146099	2.648541	2.06119	0.039285	0.215615
ENSMUSG0	Phlda1	736.7463	-1.368492857	0.664534	-2.05933	0.039463	0.216418
ENSMUSG0	Gm17825	17.71788	4.716078875	2.290141	2.059297	0.039466	0.216418
ENSMUSG0	Fgf6	19.91219	-9.425051062	4.578646	-2.05848	0.039544	0.216761
ENSMUSG0	Gm37563	37.34778	-6.582329801	3.197783	-2.0584	0.039551	0.216761
ENSMUSG0	Gm6257	15.43835	6.02219387	2.926677	2.05769	0.03962	0.217073
ENSMUSG0	Chrm4	16.23514	5.119570961	2.488307	2.057451	0.039643	0.217136
ENSMUSG0	Prss43	19.96465	8.600482897	4.180805	2.057136	0.039673	0.217239
ENSMUSG0	Sdcbp2	36.3996	8.486470868	4.126114	2.056771	0.039708	0.217367
ENSMUSG0	Zfp775	121.1055	3.175546583	1.544069	2.05661	0.039724	0.217389
ENSMUSG0	Gm43032	22.40714	7.167791581	3.486046	2.056138	0.039769	0.217575
ENSMUSG0	AC138330.1	13.12698	7.286165551	3.543995	2.055919	0.03979	0.217627
ENSMUSG0	Rps18-ps3	107.2449	-3.292964532	1.601961	-2.05558	0.039823	0.217694
ENSMUSG0	Rfx4	115.0664	2.337285862	1.137327	2.05507	0.039872	0.217885
ENSMUSG0	Wdr20rt	13.74675	8.125341677	3.955273	2.054306	0.039946	0.218225
ENSMUSG0	Tpmt	145.1498	1.737498533	0.845884	2.054062	0.03997	0.218227
ENSMUSG0	Gm43421	29.84392	5.261385851	2.561398	2.054107	0.039965	0.218227
ENSMUSG0	Slc8a3	101.9467	-2.022508873	0.984749	-2.05383	0.039992	0.218286
ENSMUSG0	Toporsos	16.43595	5.843130528	2.846044	2.053071	0.040066	0.218458
ENSMUSG0	Sla2	19.79322	6.31487365	3.075886	2.053026	0.04007	0.218458
ENSMUSG0	Gm12576	26.5872	-5.734727383	2.793895	-2.05259	0.040112	0.218624
ENSMUSG0	Rftn1	313.1062	1.561275733	0.760875	2.051947	0.040175	0.218831
ENSMUSG0	Pdzk1	215.2137	3.763839794	1.834159	2.052079	0.040162	0.218831
ENSMUSG0	Htr2a	42.1903	-6.959405123	3.392521	-2.0514	0.040228	0.219004
ENSMUSG0	Osmr	141.5541	-2.408054372	1.174516	-2.05025	0.04034	0.219246
ENSMUSG0	Chid1	574.1034	1.297284428	0.632708	2.050369	0.040328	0.219246
ENSMUSG0	Dennd2d	25.79341	4.322429592	2.108274	2.050222	0.040343	0.219246
ENSMUSG0	Gpld1	27.11524	4.466910529	2.178661	2.050301	0.040335	0.219246
ENSMUSG0	Nr6a1os	14.85516	7.158460501	3.491411	2.050306	0.040335	0.219246
ENSMUSG0	Gbx2	149.8228	-3.023635607	1.475152	-2.04971	0.040393	0.219454
ENSMUSG0	Lingo3	13.96552	-8.281719033	4.042585	-2.04862	0.040499	0.219793
ENSMUSG0	Mkx	164.3322	-1.600927486	0.781554	-2.04839	0.040522	0.219793
ENSMUSG0	9530078K11Rik	21.16722	7.141314308	3.486362	2.048357	0.040525	0.219793
ENSMUSG0	Ak9	13.21855	6.853886148	3.346349	2.048169	0.040543	0.219793
ENSMUSG0	Tfpt	411.4531	1.717935545	0.839023	2.047543	0.040605	0.219987
ENSMUSG0	B3galt1	120.1083	2.640572268	1.289716	2.047406	0.040618	0.219987
ENSMUSG0	Lrrc46	29.54891	3.631266474	1.773604	2.047395	0.040619	0.219987
ENSMUSG0	Nkpd1	16.51479	5.521136757	2.697196	2.046991	0.040659	0.220075
ENSMUSG0	Gm22662	24.43218	-9.786072995	4.785802	-2.04481	0.040873	0.221076
ENSMUSG0	1700063H04Rik	13.30284	-4.943067921	2.41794	-2.04433	0.040921	0.221112
ENSMUSG0	Zfp786	31.29592	-4.93224591	2.41239	-2.04455	0.040899	0.221112
ENSMUSG0	Txnrd3	335.0068	1.819508551	0.890023	2.044338	0.04092	0.221112
ENSMUSG0	Gm12971	24.2853	-9.682804264	4.739168	-2.04314	0.041038	0.221673
ENSMUSG0	Zfp386	1431.966	-1.274532678	0.623917	-2.04279	0.041073	0.221742
ENSMUSG0	Gm18935	55.56965	-3.61245849	1.76901	-2.04208	0.041144	0.22205
ENSMUSG0	Dguok	272.2528	1.963850198	0.961739	2.041979	0.041154	0.22205
ENSMUSG0	Gm10420	52.08217	3.215830769	1.576198	2.040245	0.041326	0.222738

ENSMUSG0	Lynx1	126.5409	4.428393973	2.170673	2.040102	0.04134	0.222738
ENSMUSG0	D930036K23Rik	29.41939	7.650902495	3.75016	2.040154	0.041335	0.222738
ENSMUSG0	Gm11476	13.38797	7.84702664	3.84613	2.040239	0.041326	0.222738
ENSMUSG0	Gm14292	132.9044	-2.120298873	1.039467	-2.03979	0.041371	0.222775
ENSMUSG0	Gm44625	54.63911	-7.753773801	3.801908	-2.03944	0.041406	0.2229
ENSMUSG0	Gm23833	13.67513	7.399524482	3.628592	2.039228	0.041427	0.222952
ENSMUSG0	Fam189a2	317.4378	-1.785558584	0.875715	-2.03897	0.041453	0.222961
ENSMUSG0	Col6a2	2308.089	-1.228921295	0.602836	-2.03857	0.041493	0.223115
ENSMUSG0	Ccbe1	285.9991	-1.373674746	0.674003	-2.03808	0.041542	0.223311
ENSMUSG0	Gm42548	16.47349	5.987766006	2.939656	2.036893	0.041661	0.22376
ENSMUSG0	Adad1	27.6503	5.371912784	2.637633	2.036641	0.041686	0.223768
ENSMUSG0	Gm45399	19.363	6.248895923	3.068177	2.03668	0.041682	0.223768
ENSMUSG0	Ankfn1	31.77081	-3.753291653	1.844366	-2.035	0.04185	0.224373
ENSMUSG0	Snx16	93.41179	2.144303656	1.053738	2.034949	0.041856	0.224373
ENSMUSG0	Dcx	497.6577	-1.35389332	0.665449	-2.03456	0.041896	0.224444
ENSMUSG0	Snph	71.91604	-3.209490914	1.577723	-2.03426	0.041926	0.22448
ENSMUSG0	Slc11a1	235.4954	1.704738715	0.838121	2.034	0.041952	0.224491
ENSMUSG0	Gm15894	94.51522	6.041631789	2.970324	2.033998	0.041952	0.224491
ENSMUSG0	Slc4a9	15.02809	7.047337188	3.46561	2.033506	0.042001	0.224628
ENSMUSG0	Il1rap1	20.15458	7.459760679	3.669903	2.032686	0.042084	0.224943
ENSMUSG0	Cars2	462.5338	-1.510090464	0.743044	-2.0323	0.042123	0.225023
ENSMUSG0	AC115910.1	50.5921	4.949347451	2.435882	2.03185	0.042169	0.22514
ENSMUSG0	Slnf3	53.34119	-1.767139515	0.870088	-2.03099	0.042256	0.225514
ENSMUSG0	AC154220.1	23.91574	-9.71259211	4.78586	-2.02943	0.042414	0.226192
ENSMUSG0	Gatm	15.18081	4.964210995	2.446572	2.029048	0.042453	0.226338
ENSMUSG0	AC122828.4	17.10322	7.100755017	3.500536	2.028477	0.042512	0.226392
ENSMUSG0	Gm45867	86.38187	-4.023508316	1.9858	-2.02614	0.04275	0.227342
ENSMUSG0	Itpr2	625.1945	1.201745949	0.593179	2.02594	0.042771	0.227386
ENSMUSG0	Chrm3	55.52709	-4.249075834	2.097971	-2.02533	0.042834	0.227593
ENSMUSG0	Gm10086	63.41241	5.299447628	2.616533	2.02537	0.042829	0.227593
ENSMUSG0	Adamts2	362.9518	2.26914911	1.120579	2.024979	0.04287	0.227718
ENSMUSG0	Alx4	581.5204	-1.465272215	0.723677	-2.02476	0.042892	0.227773
ENSMUSG0	Yipf1	370.1738	-1.353452201	0.668629	-2.02422	0.042948	0.227943
ENSMUSG0	Gm9967	14.73336	7.646932094	3.779817	2.023096	0.043063	0.228425
ENSMUSG0	L3mbtl1	19.92494	-7.036348458	3.478633	-2.02273	0.043101	0.22849
ENSMUSG0	H2-Ea-ps	23.6552	-9.677386044	4.78589	-2.02207	0.04317	0.22851
ENSMUSG0	6330415B21Rik	89.91215	-5.950616022	2.942831	-2.02207	0.043169	0.22851
ENSMUSG0	Gm15492	14.42768	7.9729106	3.944086	2.021485	0.04323	0.228727
ENSMUSG0	Plek2	29.50705	6.787978927	3.358437	2.021172	0.043262	0.228834
ENSMUSG0	CT009718.3	134.4732	-2.007362573	0.993509	-2.02048	0.043334	0.22915
ENSMUSG0	Gm5898	161.8814	-1.792078757	0.887284	-2.01973	0.043411	0.229493
ENSMUSG0	Dnajc12	83.56402	-2.141433626	1.060396	-2.01947	0.043439	0.229511
ENSMUSG0	Rpl21-ps3	59.01215	-2.427879298	1.202468	-2.01908	0.043479	0.229601
ENSMUSG0	Pirb	42.69194	3.757951807	1.861232	2.019067	0.04348	0.229601
ENSMUSG0	Rpl3-ps2	29.94613	3.087019293	1.52944	2.018398	0.04355	0.229775
ENSMUSG0	4930520O04Rik	21.58905	7.453807995	3.695057	2.017237	0.043671	0.230284
ENSMUSG0	AC153144.1	94.50331	-4.670004723	2.315915	-2.01648	0.043749	0.230441
ENSMUSG0	Tnf	47.73921	4.126410356	2.046236	2.016586	0.043739	0.230441

ENSMUSG0	Kdm5d	773.4103	-1.27656413	0.633322	-2.01566	0.043835	0.230816
ENSMUSG0	Pla2g2e	22.48223	-9.641320971	4.78592	-2.01452	0.043955	0.231171
ENSMUSG0	Gm15368	22.25816	-9.641313287	4.78592	-2.01452	0.043955	0.231171
ENSMUSG0	Mapk4	264.7189	-2.773023035	1.37711	-2.01365	0.044046	0.231419
ENSMUSG0	Gm38034	22.79477	-8.314686544	4.130385	-2.01305	0.044109	0.231492
ENSMUSG0	Sp9	147.3186	-4.081289289	2.027314	-2.01315	0.044099	0.231492
ENSMUSG0	Zfp248	273.7116	-1.48154394	0.735934	-2.01315	0.044099	0.231492
ENSMUSG0	Olfr1195	14.35249	-7.473092625	3.712541	-2.01293	0.044122	0.231495
ENSMUSG0	Klk13	17.85187	6.157715651	3.059387	2.012729	0.044143	0.231542
ENSMUSG0	Lin37	212.4174	1.206763532	0.599641	2.012478	0.04417	0.231616
ENSMUSG0	Myo1h	87.48951	2.985094849	1.483595	2.012069	0.044213	0.231778
ENSMUSG0	Gm37549	21.75303	-9.624449342	4.785935	-2.01099	0.044327	0.232312
ENSMUSG0	AC132609.2	18.56932	6.25798821	3.112086	2.010866	0.04434	0.232314
ENSMUSG0	Gm13573	49.99852	4.402134683	2.189544	2.010525	0.044376	0.232438
ENSMUSG0	Cfap70	71.07844	3.462375343	1.72237	2.010239	0.044406	0.232532
ENSMUSG0	Rft1	197.1192	1.808329581	0.89978	2.009746	0.044458	0.23274
ENSMUSG0	Gm43813	25.17533	3.76060227	1.871354	2.009563	0.044478	0.232777
ENSMUSG0	Zfp14	88.75816	3.379927808	1.682061	2.009397	0.044495	0.232804
ENSMUSG0	Star	712.257	-2.292655089	1.14114	-2.00909	0.044527	0.232844
ENSMUSG0	1500009L16Rik	312.2654	1.736344365	0.864211	2.009167	0.044519	0.232844
ENSMUSG0	Xdh	15.97688	7.576699349	3.776154	2.006459	0.044807	0.234047
ENSMUSG0	Trhde	50.45498	-5.718432876	2.851235	-2.0056	0.044899	0.234397
ENSMUSG0	Gm37437	22.09671	-9.594440365	4.785961	-2.0047	0.044995	0.2347
ENSMUSG0	Gm12295	115.7389	-9.58564738	4.785969	-2.00286	0.045192	0.235338
ENSMUSG0	AC129085.2	85.30878	-2.329741865	1.1631	-2.00305	0.045172	0.235338
ENSMUSG0	Slc16a13	333.0344	1.994667513	0.995955	2.002768	0.045202	0.235338
ENSMUSG0	Fbxw10	77.66194	5.881497073	2.936714	2.002747	0.045204	0.235338
ENSMUSG0	Prkag2os2	26.39828	-8.766486796	4.377939	-2.00242	0.045239	0.235389
ENSMUSG0	Mlxipl	197.3629	-2.219203431	1.108417	-2.00214	0.04527	0.235483
ENSMUSG0	Vmn2r-ps26	23.89622	-9.575949268	4.785978	-2.00083	0.04541	0.23598
ENSMUSG0	Tnr	43.64336	-7.148623494	3.572909	-2.00079	0.045416	0.23598
ENSMUSG0	Gm24907	20.83563	-6.656834224	3.32699	-2.00086	0.045408	0.23598
ENSMUSG0	CT009718.1	238.5676	-1.247867536	0.623841	-2.0003	0.045468	0.236058
ENSMUSG0	Tec	200.4219	1.441399952	0.720567	2.000369	0.04546	0.236058
ENSMUSG0	Omd	20.99121	6.936426871	3.468193	2.000012	0.045499	0.236153
ENSMUSG0	Gdap1l1	82.08699	-2.182163062	1.091906	-1.99849	0.045664	0.236877
ENSMUSG0	Olfr1508	20.85974	-9.563707576	4.785989	-1.99827	0.045687	0.236934
ENSMUSG0	Gm42715	127.4087	-1.764664678	0.883213	-1.99801	0.045716	0.237019
ENSMUSG0	Rspo3	503.721	-1.482699824	0.742389	-1.9972	0.045803	0.237286
ENSMUSG0	Ccdc38	19.96556	5.881136266	2.94472	1.99718	0.045806	0.237286
ENSMUSG0	Fgf23	20.94922	-9.55669289	4.785995	-1.9968	0.045847	0.237368
ENSMUSG0	E030032P16Rik	96.00424	-2.261536135	1.132547	-1.99686	0.04584	0.237368
ENSMUSG0	Usp29	434.5227	1.337513878	0.669871	1.996674	0.045861	0.237375
ENSMUSG0	Gm8902	13.97209	-5.924941213	2.9683	-1.99607	0.045926	0.237518
ENSMUSG0	Chgb	844.8291	-3.851490946	1.929505	-1.9961	0.045923	0.237518
ENSMUSG0	Snord49b	15.34366	7.301709506	3.658362	1.995896	0.045945	0.237552
ENSMUSG0	Ncan	192.8513	-1.959222683	0.981722	-1.9957	0.045967	0.237598
ENSMUSG0	Gm2199	23.07833	-3.753028306	1.880849	-1.99539	0.046	0.237706

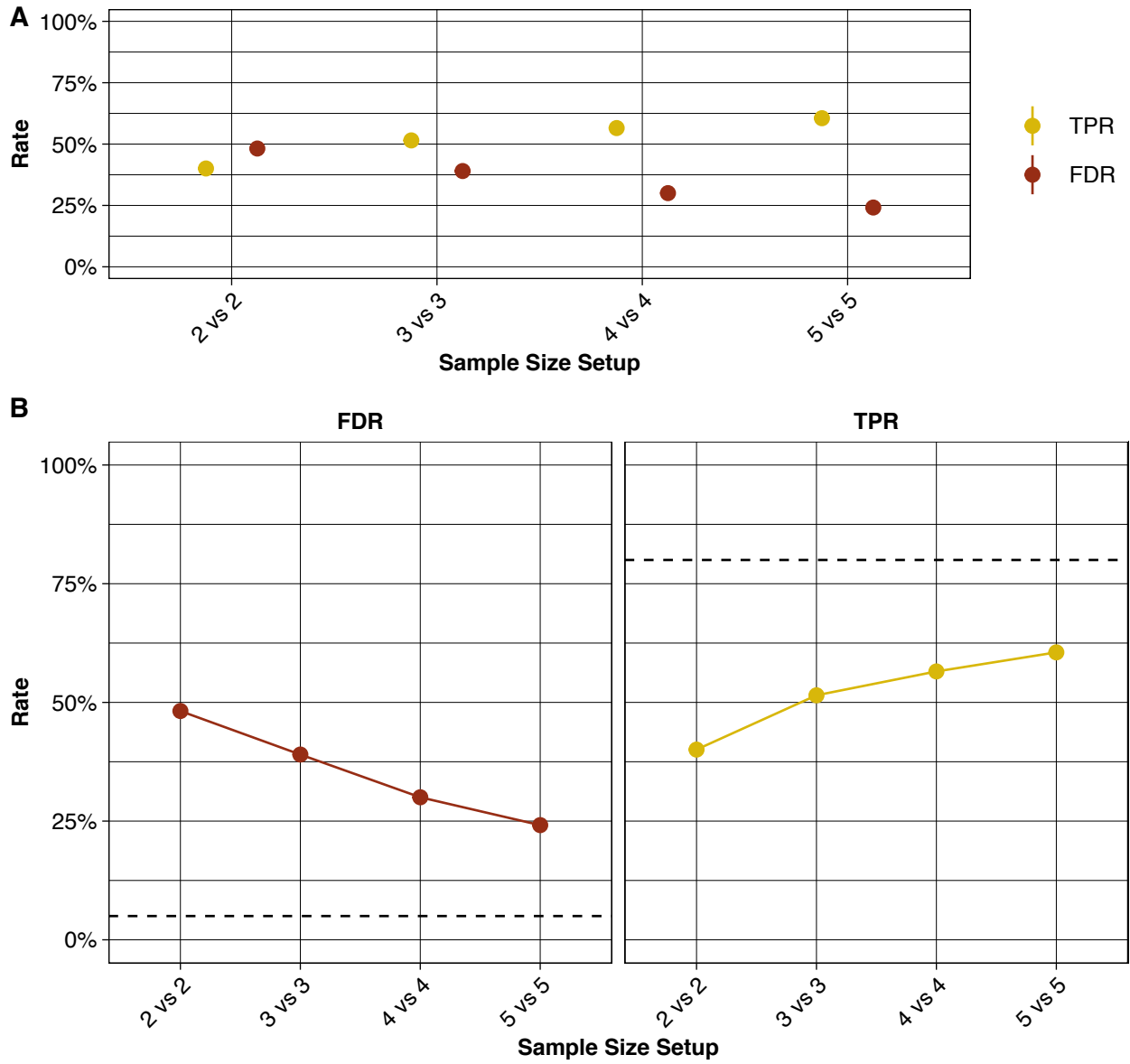
ENSMUSG0	Atcay	97.45732	-2.319824932	1.163471	-1.99388	0.046165	0.23837
ENSMUSG0	Ctss	381.2049	1.745996218	0.875684	1.993865	0.046167	0.23837
ENSMUSG0	Dusp23	132.1394	2.30927365	1.158188	1.993867	0.046167	0.23837
ENSMUSG0	Ggt5	182.1489	-1.514202866	0.759854	-1.99275	0.046288	0.238754
ENSMUSG0	Themis2	264.2726	1.611708952	0.808798	1.992722	0.046292	0.238754
ENSMUSG0	Cngb3	22.99842	-9.53239832	4.786018	-1.99172	0.046402	0.239125
ENSMUSG0	Arfgef3	453.4065	-1.20237741	0.603835	-1.99123	0.046455	0.239334
ENSMUSG0	Neb	148.803	-2.739210397	1.375904	-1.99084	0.046498	0.239489
ENSMUSG0	Trim67	208.9243	-2.285482051	1.148086	-1.99069	0.046515	0.239511
ENSMUSG0	Ifi214	41.14724	7.786667916	3.911871	1.990522	0.046533	0.23954
ENSMUSG0	Gm6378	14.56571	-4.622304376	2.322911	-1.98988	0.046605	0.239841
ENSMUSG0	Hoxaas3	46.3409	6.315803636	3.174523	1.989528	0.046643	0.239973
ENSMUSG0	Gm6483	81.11412	-2.356039104	1.186014	-1.98652	0.046976	0.241392
ENSMUSG0	Zfp992	242.412	-1.290306877	0.6495	-1.98662	0.046965	0.241392
ENSMUSG0	Tesc	31.53803	4.747267822	2.389821	1.986453	0.046983	0.241392
ENSMUSG0	Gm29773	24.24111	5.297391439	2.666984	1.986286	0.047002	0.241422
ENSMUSG0	A2m	101.4543	-1.792657184	0.902598	-1.98611	0.047021	0.241452
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ENSMUSG0	Gm2449	21.0944	-6.013096205	3.028556	-1.98547	0.047093	0.241604
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ENSMUSG0	Gm6249	57.31347	5.149152066	2.593503	1.985405	0.047099	0.241604
ENSMUSG0	Hp	60.57209	3.599507961	1.813224	1.985142	0.047129	0.241679
ENSMUSG0	Ccdc69	16.26066	4.74463696	2.390305	1.98495	0.04715	0.241722
ENSMUSG0	Alkbh4	293.9831	-2.146798981	1.081678	-1.98469	0.047179	0.241803
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ENSMUSG0	AC154552.7	27.30714	-5.826209341	2.937244	-1.98356	0.047305	0.242251
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ENSMUSG0	Lrrc8e	16.33578	7.080275805	3.571021	1.982704	0.047401	0.242426
ENSMUSG0	Zc3h3	292.0852	-1.448729661	0.730878	-1.98218	0.04746	0.242517
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ENSMUSG0	Gm37967	127.2	-3.688506543	1.862378	-1.98054	0.047643	0.243258
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ENSMUSG0	Gadd45a	699.9412	1.240786349	0.626835	1.979447	0.047766	0.243634
ENSMUSG0	Gm44710	78.42026	-4.37341651	2.209882	-1.97903	0.047813	0.243793
ENSMUSG0	Gm28800	23.20614	2.46549942	1.246034	1.978678	0.047852	0.243927
ENSMUSG0	Gm26823	45.92045	4.652657442	2.352034	1.978142	0.047913	0.244103
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ENSMUSG0	C1qtnf2	42.1022	4.718074923	2.387221	1.976388	0.048111	0.244781
ENSMUSG0	4933431K14Rik	16.93363	5.94670098	3.009458	1.976004	0.048154	0.244936
ENSMUSG0	Gm12002	19.74694	-9.456477934	4.78609	-1.97583	0.048175	0.244973
ENSMUSG0	Serpinc1	69.1319	4.762635645	2.410983	1.975392	0.048224	0.245091
ENSMUSG0	Pou4f3	25.57193	-9.450946794	4.786096	-1.97467	0.048306	0.245376
ENSMUSG0	Gm20492	14.54414	5.541631007	2.806262	1.974738	0.048298	0.245376
ENSMUSG0	Dach2	206.5099	-1.930271071	0.977727	-1.97424	0.048354	0.245488

ENSMUSG0	Gm5547	22.80299	-8.184935077	4.146299	-1.97403	0.048378	0.245543
ENSMUSG0	Cdkl2	76.7131	3.710961552	1.881322	1.972529	0.048549	0.246249
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ENSMUSG0	Gm38374	26.63551	-6.472794447	3.283374	-1.97138	0.04868	0.24647
ENSMUSG0	Rab27a	195.2723	1.656947715	0.840378	1.97167	0.048647	0.24647
ENSMUSG0	D2Bwg1423e	56.6311	2.764579897	1.402552	1.971106	0.048712	0.24647
ENSMUSG0	Kdm6bos	32.83487	6.346895359	3.220241	1.970938	0.048731	0.24647
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ENSMUSG0	Micu3	339.567	-1.910836224	0.969715	-1.97051	0.04878	0.24665
ENSMUSG0	Gm9497	20.28952	-9.425505513	4.786121	-1.96934	0.048914	0.246931
ENSMUSG0	Alg5	584.329	-1.573757079	0.799225	-1.9691	0.048941	0.247003
ENSMUSG0	Fgf11	131.9991	-2.432794079	1.235698	-1.96876	0.048981	0.247069
ENSMUSG0	Gbp8	16.55031	5.036677523	2.558645	1.968494	0.049011	0.247157
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ENSMUSG0	Slc48a1	707.6983	1.252467778	0.636359	1.968178	0.049048	0.247208
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ENSMUSG0	Kcnj10	21.14231	5.523192212	2.806838	1.967763	0.049095	0.24732
ENSMUSG0	Alox5ap	42.57993	3.417900529	1.738624	1.965866	0.049314	0.248152
ENSMUSG0	ChrnB1	201.3697	-2.239372092	1.139491	-1.96524	0.049387	0.24828
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ENSMUSG0	Rpl30-ps3	16.39826	5.735249796	2.918229	1.965319	0.049377	0.24828
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ENSMUSG0	Slc35a5	186.2988	2.077388882	1.058759	1.962098	0.049751	0.249086
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ENSMUSG0	Pcdhac2	24.71356	6.521641258	3.323523	1.962268	0.049731	0.249086
ENSMUSG0	Ap1s2	858.9789	1.48135992	0.755293	1.961304	0.049844	0.249351
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ENSMUSG0	Crip3	26.6853	6.674783574	3.40655	1.959397	0.050066	0.250066
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ENSMUSG0	Arhgef26	484.2272	-1.72427633	0.880733	-1.95778	0.050256	0.250555
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ENSMUSG0	C430049B03Rik	340.4458	-1.205944772	0.616466	-1.95622	0.050439	0.251127
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ENSMUSG0	Pde1c	172.4306	-1.890526954	0.966923	-1.9552	0.050559	0.251395
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ENSMUSG0	Gm42829	64.28037	-2.451931676	1.254997	-1.95373	0.050733	0.252122
ENSMUSG0	Ube2ql1	140.652	-1.521896653	0.77934	-1.9528	0.050843	0.252604
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ENSMUSG0	Fam120c	427.7197	-1.529401459	0.783494	-1.95203	0.050935	0.252769
ENSMUSG0	Wbscr17	322.9458	-1.502930552	0.770136	-1.95151	0.050996	0.25283
ENSMUSG0	Gm15545	79.28081	3.808799127	1.951667	1.951562	0.05099	0.25283
ENSMUSG0	AC140409.4	18.53193	-9.328419926	4.786221	-1.94902	0.051294	0.253904
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ENSMUSG0	Prr33	57.91586	4.866831985	2.499927	1.946789	0.05156	0.254877
ENSMUSG0	Depdc7	107.9148	2.902747732	1.491502	1.946191	0.051632	0.255016
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ENSMUSG0	Tmem189	693.2973	-1.429240042	0.734585	-1.94564	0.051698	0.255234
ENSMUSG0	Aldh3b2	15.19927	7.149864746	3.676658	1.944664	0.051815	0.25548
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ENSMUSG0	Rpl36a-ps1	64.38534	1.763584756	0.907639	1.943046	0.052011	0.255772
ENSMUSG0	Pap0lb	17.27257	5.706338923	2.936103	1.943508	0.051955	0.255772
ENSMUSG0	Slc38a5	29.8437	5.836100867	3.003367	1.943186	0.051994	0.255772
ENSMUSG0	Prr22	89.98129	-2.142930603	1.102936	-1.94293	0.052024	0.255772
ENSMUSG0	Fyb	409.6727	2.632139465	1.355166	1.942301	0.052101	0.256031
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ENSMUSG0	Gm45820	13.69204	7.053000989	3.633882	1.9409	0.05227	0.25638
ENSMUSG0	AC154573.2	48.46402	-3.435245963	1.770383	-1.9404	0.052331	0.256543
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ENSMUSG0	AC163667.2	13.9531	-8.895198341	4.585925	-1.93967	0.052419	0.256776
ENSMUSG0	AC122876.1	18.76698	-9.282083023	4.786271	-1.93931	0.052463	0.256923
ENSMUSG0	AL606496.1	17.12192	-9.27999255	4.786274	-1.93888	0.052516	0.25711
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ENSMUSG0	Ube4bos1	18.19847	5.527595194	2.851441	1.938527	0.052559	0.25711
ENSMUSG0	Gbx1	16.09753	7.10546358	3.665795	1.938315	0.052585	0.257118
ENSMUSG0	Syt1	206.1152	-3.867246774	1.995584	-1.9379	0.052635	0.25723
ENSMUSG0	Paxx	168.025	2.663269027	1.374598	1.937489	0.052686	0.25741
ENSMUSG0	Kcnmb4	112.4892	1.838921003	0.949368	1.936995	0.052746	0.257572
ENSMUSG0	Al480526	49.61102	2.960725442	1.528652	1.936822	0.052767	0.257572
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ENSMUSG0	Art5	29.32791	3.11390882	1.6081	1.93639	0.05282	0.257598
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ENSMUSG0	Gm26917	4621.252	-1.721492059	0.889407	-1.93555	0.052923	0.257766
ENSMUSG0	N4bp211	74.60675	2.900719259	1.498636	1.935573	0.05292	0.257766

ENSMUSG0	Cmtr1	100.0267	-2.24201144	1.159028	-1.93439	0.053065	0.258393
ENSMUSG0	H2-T3	16.99571	-9.256358886	4.7863	-1.93393	0.053122	0.258469
ENSMUSG0	Hmgb1-ps1	118.8987	-1.993862773	1.030988	-1.93393	0.053121	0.258469
ENSMUSG0	Foxf2	201.718	1.389398168	0.718422	1.933959	0.053118	0.258469
ENSMUSG0	Uncx	3822.068	1.589033399	0.821867	1.933443	0.053182	0.258692
ENSMUSG0	Mamld1	267.2578	-1.82188431	0.942875	-1.93226	0.053327	0.25913
ENSMUSG0	Tmprss4	16.77667	-9.246137605	4.786312	-1.93179	0.053386	0.259261
ENSMUSG0	Pclo	443.2095	-1.338014121	0.692638	-1.93176	0.053389	0.259261
ENSMUSG0	Cd200	220.0616	-2.301475176	1.191675	-1.93129	0.053447	0.259384
ENSMUSG0	Atf3	1160.011	1.213558584	0.628647	1.930429	0.053554	0.259545
ENSMUSG0	Gm13192	27.71817	2.892812546	1.498467	1.930515	0.053543	0.259545
ENSMUSG0	AC161265.1	77.40085	3.137237714	1.62522	1.930346	0.053564	0.259545
ENSMUSG0	Slc9a7	14.71041	6.606152805	3.421556	1.930745	0.053515	0.259545
ENSMUSG0	D130051D11Rik	23.39534	-4.137463624	2.144222	-1.92959	0.053658	0.259798
ENSMUSG0	Ptpn2	914.1208	-1.202660129	0.623308	-1.92948	0.053671	0.259798
ENSMUSG0	AC166341.3	16.77423	-9.232314624	4.786327	-1.92889	0.053744	0.260082
ENSMUSG0	4930579G24Rik	134.3943	1.837573367	0.952989	1.928221	0.053828	0.260312
ENSMUSG0	Hs3st3a1	36.98991	4.734146736	2.456149	1.927467	0.053921	0.26054
ENSMUSG0	Rundc1	411.1163	1.472090562	0.763958	1.926927	0.053989	0.26071
ENSMUSG0	Gm45528	19.92275	-9.22020465	4.786341	-1.92636	0.05406	0.260873
ENSMUSG0	AC173210.4	21.3528	-9.207894009	4.786356	-1.92378	0.054382	0.261966
ENSMUSG0	AC153141.3	16.28524	-9.207835082	4.786356	-1.92377	0.054384	0.261966
ENSMUSG0	Dera	748.4349	1.35826969	0.705983	1.923941	0.054362	0.261966

Table S2. Power analysis of RNA-seq using powsimR*.



A) Marginal TPR and FDR per sample size setup (mean \pm standard error).

B) Marginal TPR and FDR per sample size setup with dashed line indicating nominal alpha level (type I error) and nominal 1-beta level, i.e. 80% power (type II error).

*For sample size 2 per group, the true positive rate (TPR) for the differential genes ($padj < 0.05$) is close to 40% and the false discovery rate (FDR) is close to 50%. TPR increase and FDR decreases by increasing sample size per group.

Table S3. Primer sequences for RT-qPCR or ChIP-qPCR

Target	Forward	Reverse
Primers for RT-qPCR		
Oc90	AGTCCGAGGATCCCTGTGAG	GAGTCTGAGGGAGGCAGAAG
Gata5	CATCGCAGGGGCAAAGGCAA	ATGTGATAACAGACACCTAG
Tbx20	ACTTTACTTCTGGCACAAG	GCAAACAGGGAGACTGTGAC
Map3k5	GACTCGATGTATTTTCCCCA	GTGAGAATCACATTGAGGAG
β -actin	AACGGCTCCGGCATGTGCAAAG	ACACGCAGCTCATTGTAGAAG
Primers for ChIP-qPCR*		
Eya1+185kb (+185713 to +185886), 174bp - unbound site	CACATCAGCATAACACAGTTC	GAGTGACAATAGTTATAGAG
Eya1-0.5kb (-453 to -295), 159bp - Pro	GTACCTACCTACTTACAGGTCTG	AACTGAAGCCTTTGGCCTCC
Eya1-197kb (-197609 to -197438), 172bp - intergenic-A	GGGCTATGTAGGCATCAGGG	CCTCAGGCTTACAACCTGCAAAA
Eya1-196kb (-196936 to -196762), 175bp - intergenic-B	TGCCACGCCTTGTAGAGTTT	CACTGCCGACCAGTTCATA
Sox2+146kb (+146777 to +146924), 148bp - unbound site	CTTATTTGGTTGTGTGCAGA	CACAGCAAGCCTGACTCACC
Sox2+146kb (+146808 to +146954), 147bp - unbound site	CTTTCCATCCCCGTTTCTG	GGACTGCTTCTTCCTCCGA
Sox2+146kb (+145717 to +145865), 149bp - Enh1	CTGGAGACCCTGAAGCAGCTG	AGGCAGATTAACAGCAGCAC
Sox2+669kb (+669695 to +669861), 167bp - Enh2	CAGGTAATGAGGTAACCAGA	CAGGTGTAGATAAAGTCATTC
Sox2+690kb (+690830 to +691010), 181bp - Enh3-A	AGGACAGGCTGAGAGCTAGG	GTCACCGCAGAAACCCTGA
Sox2+691kb (+691200 to +691356), 157bp - Enh3-B	GCAGCAAGCAAAGAGGCTA	GCCCCATCTTCGTTGAAACT
Sox2+691kb (+691335 to +691518), 184bp - Enh3-C	AGTTTCAACGAAGATGGGGGC	ATGCACGAGGAGGTTGAATCAT

*The DNA positions are denoted relative to the transcriptional start site (TSS, +1). Yellow highlight indicates regions used as negative control for qPCR.

Table S4. Sequences of the 1540-bp of Sox2 Enh3 +691-kb

GGATGTTTCCGGACCCTCAAAATACAAGGTTTGTCTTAAATCAGCAATACACGTATTTTCCCTAATTATCTAGGCTT
TCTTGATGCCATTTAAAAACAAGTGTCTGCCCATTTCTTTCATCCCTGTCCATTCTTCTAAAAACCATGAAGTA
ATTGTTCTGTGCACTATAGCACTCACGGGTGCGCCAAAAGGAAAAGAAAGACAAAAGAACCCTTCAGTCCTGAGA
CTGCCAGCGGCGTATGCAAACCTTGAGAAAGCAAGCTGGTGTGCAAGAAAACCGTTTTTCATCACTAGCTCTAACCA
CCCGCCTCTTTCTTAAGAAGAGGATGAGGCCACAGGATAATAAAAGGCTGCGGAACCACAAAAAGTTCCACAT
GTACAACCTCCTGAGTGGCCTTCAAGGGGGTAAGGGCAGGAGGTGGGCGGAGGACAGGCTGAGAGCTAGGCAG
AAAGCCCTGCTTCTGGAAAGGCAGCTCACCTTACAAAAACATAATTCACTCTCGGGGCCCTGCTCCGAAGATCTT
GTTATCAGAAGGAAACAACAAACCAATAAATTGTAACACAATAATAAGCTGAGCCCTAGCGGTGAGGGTTTCTGC
GGTGACCCACGGGATTGCAGGAGGGGAGTCTGTGAAGCGCCCTTAGTCTGGGGGGAGGGGACAGAGTCCGGCG
CTTCAGCTTCTAAGTGGCCACAGCTGCTCCTGCCGCACTCGGGCCAGGTCCTTCTCTCCCTTCACAGCCCCCAATC
CAAAACCAGCACTAAGGAGCCAGACTGGGGGGGGGGGGTTTCATCCGCAGCAAGCAAAGAGGCTACCCACTT
AGGAAGAAACTGTGGGGCTGGAGAGCGGAGCGGAGGCTGGGGGATCTGCAGGGAGGGAGGCACCTTCATTTTAA
TGCGCCACAGACAGAGTGAGATCTGATACTGGCAAAGTTTCAACGAAGATGGGGGCGAGGGGGCGGGAGGAGA
AGAAAGGACTCTTTGACTGCTCAATGCTTGTGAGTTTTCTGAGGAGGAGCATAAGGTCCAGTGGACATTCTGGG
AATAATAATGAGGAACACACAGCATCAGAACACCAAATGAGGCTGACGATGATTCAACCTCCTCGTGCATCTGCG
CCCACAAAACAGGACTTCAATTAAACAACCTTGCAGATCTGAACAGAAGAGAGAGCAGGGGGATTTTTTTTAAAT
GAACCAAGTCCCTTTGGTCAAATAGGTGTTTGTCTAAACTTCAATTCCTAAGCTGTGAACCTGTGCAGAGAGA
GGGAGCTGGCCGGTTTCTTTCCAACAGTTTTTGAACCAGTGTCCCTTCCCTTAGCGAGGCACCTCTACAAATTGTTTC
AACCAGGCGGAGGGTAAGAGAATTCTAAATGAAGTGCTTTTTCCGTTTTTTGTTGGTTTTGTTTTGCTATTTCAACT
GGCACAAACACATTGATATACAGACCTTGCAGAGTGTGGCATCAACGCTGTATGTTTACAAAAAACAACGGA
AAGCACACCCGCGCAAACAAGACCCGTGCCTCA

Green: predicted SOX motifs

Red: predicted SIX motifs