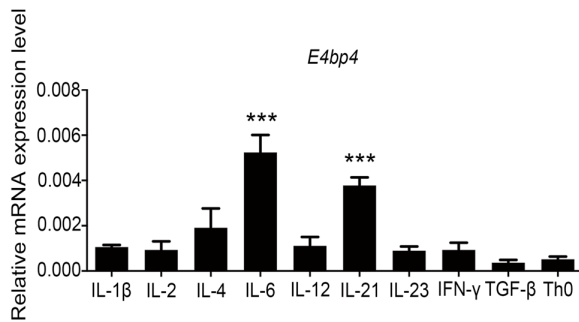


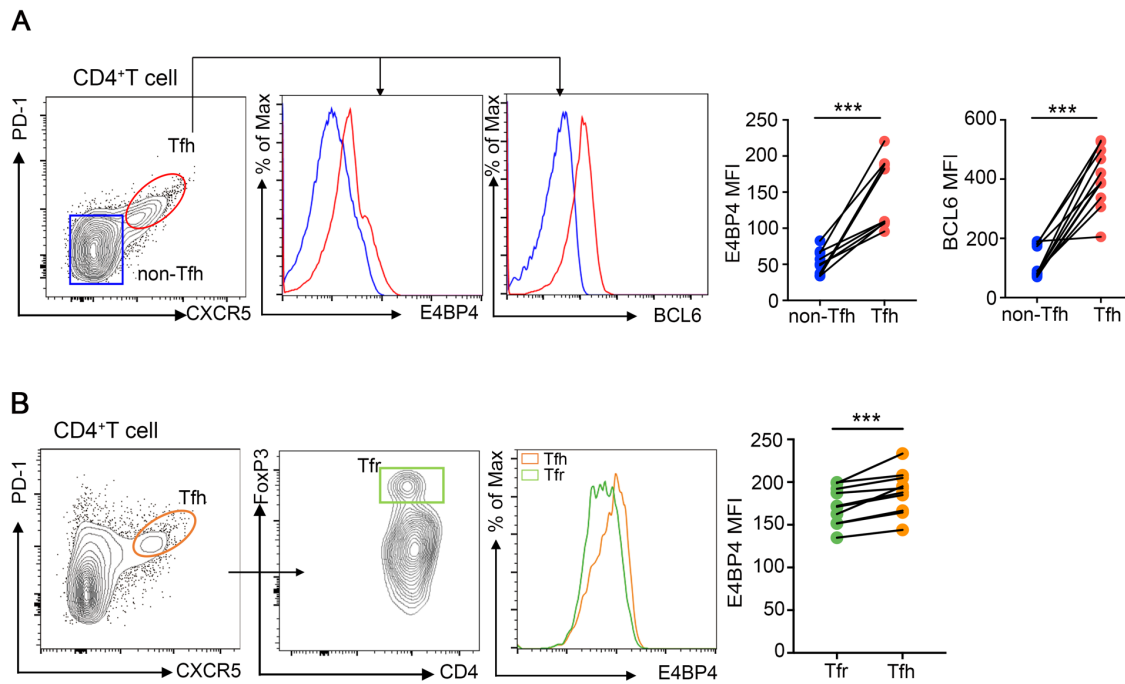
## Supplemental Figures



### Supplemental Figure 1. Cytokines for inducing E4BP4 expression

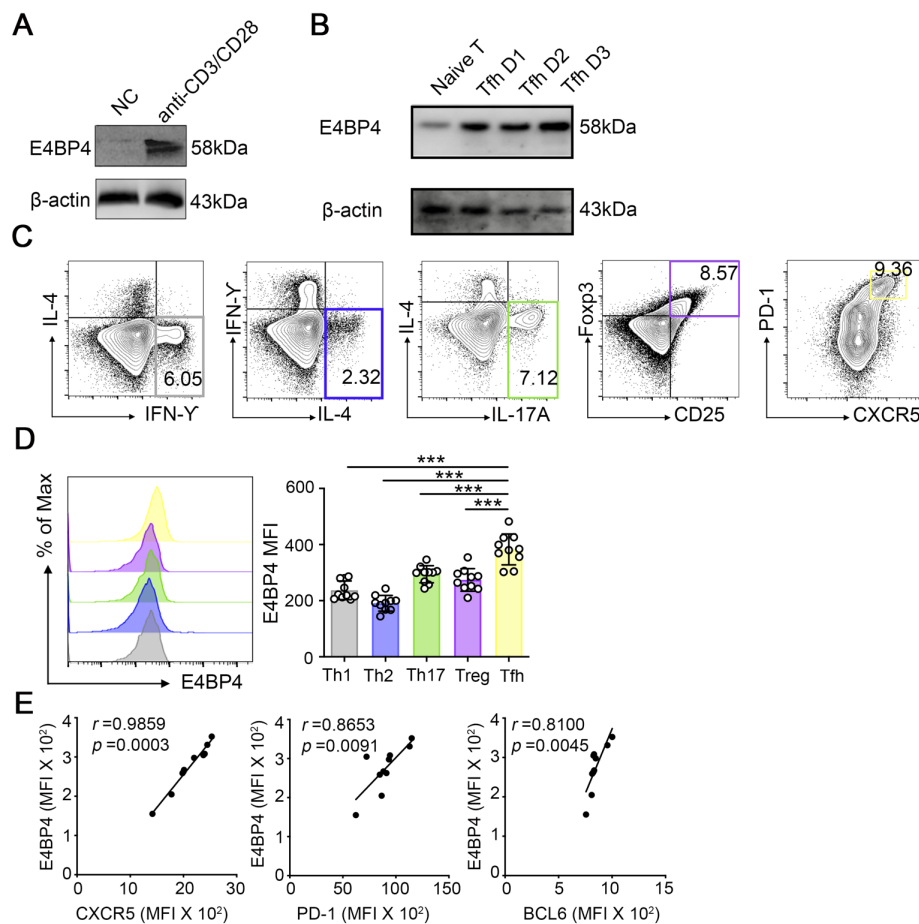
Naïve CD4<sup>+</sup> T cells from C57BL/6 mice were stimulated with anti-CD3/CD28 antibodies and a panel of cytokines was added. After three days, cells were obtained for quantitative PCR (qPCR) analysis of *E4bp4* expression. (n=3). Data are representative of three independent experiments. One-way ANOVA with Bonferroni's *post hoc* test.

\*\*\*P<0.001



**Supplemental Figure 2. E4BP4 expression is significantly increased in murine Tfh cells**

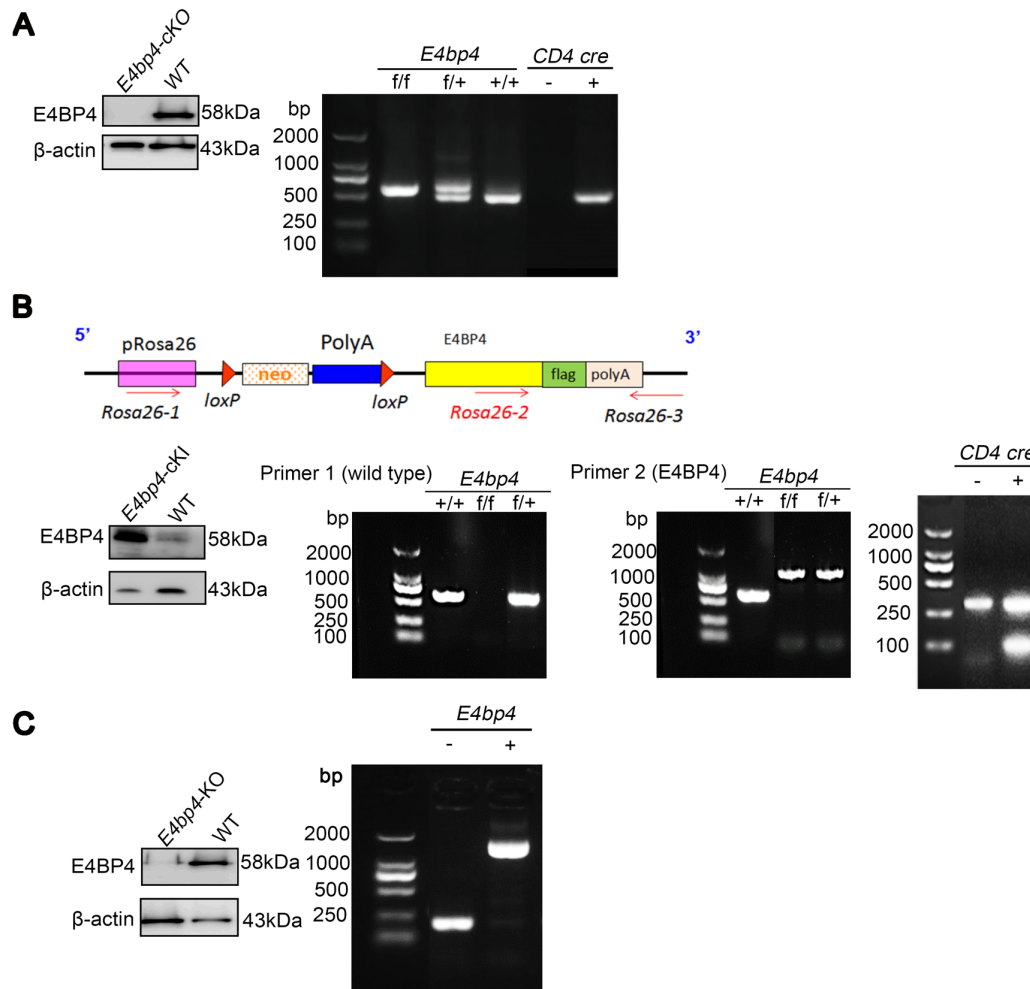
(A) Analysis of E4BP4 and BCL6 MFI expressions in Tfh or non-Tfh cells from C57BL/6 mice after seven days of SRBCs immunization; (n=10). (B) Analysis of E4BP4 expression in Tfh and Tfr cells from C57BL/6 mice following seven days of KLH immunization. (n=10). Data are representative of three independent experiments. Student's *t* test. \*\*\*P<0.001.



### Supplemental Figure 3. E4BP4 expression in human T cells

(A) Western blot analysis of E4BP4 protein expression in human peripheral CD4<sup>+</sup> T cells stimulated with anti-CD3/CD28 or untreated negative control (NC). (B) Western blot analysis of E4BP4 protein expression in human Tfh cells (*in vitro* polarized) on different days. (C) Flow cytometric analysis of the percentages of Th1 (IFN- $\gamma$ <sup>+</sup>), Th2 (IL-4<sup>+</sup>), Th17 (IL17A<sup>+</sup>), Treg (CD25<sup>+</sup>FoxP3<sup>+</sup>) and Tfh (CXCR5<sup>+</sup>PD-1<sup>+</sup>) cells in human tonsil CD4<sup>+</sup> T cells. (D) Analysis of E4BP4 MFI in T helper subsets outlined in (C). (E) The correlation between E4BP4 MFI

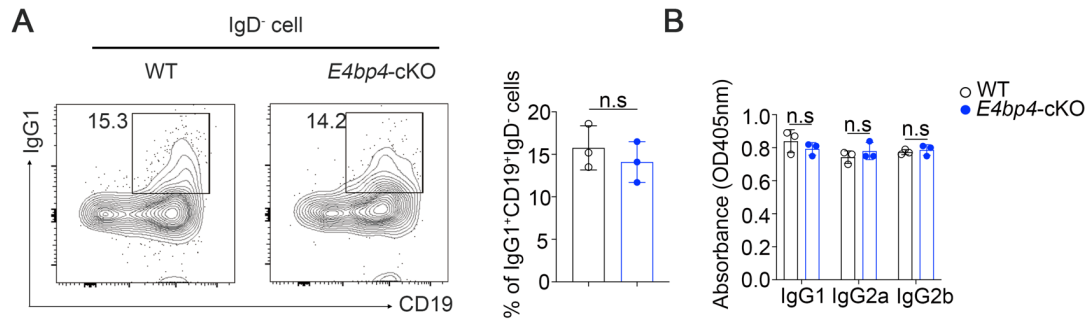
and CXCR5, BCL6 and PD-1 MFI in tonsillar CD4<sup>+</sup>CD45RO<sup>+</sup> memory/effector T cells. Dots indicate individual donors. (n=10). Data are representative of three independent experiments. For (D), one-way ANOVA analysis with Dunnett's *post hoc* test; For (E), Pearson's correlation coefficient was used for the correlation analysis (two-tailed); \*\*\*P<0.001.



**Supplemental Figure 4. Generation of *E4bp4*-cKI mice and genotype identification for *E4bp4*-cKI, *E4bp4*-cKO and *E4bp4*-KO mice**

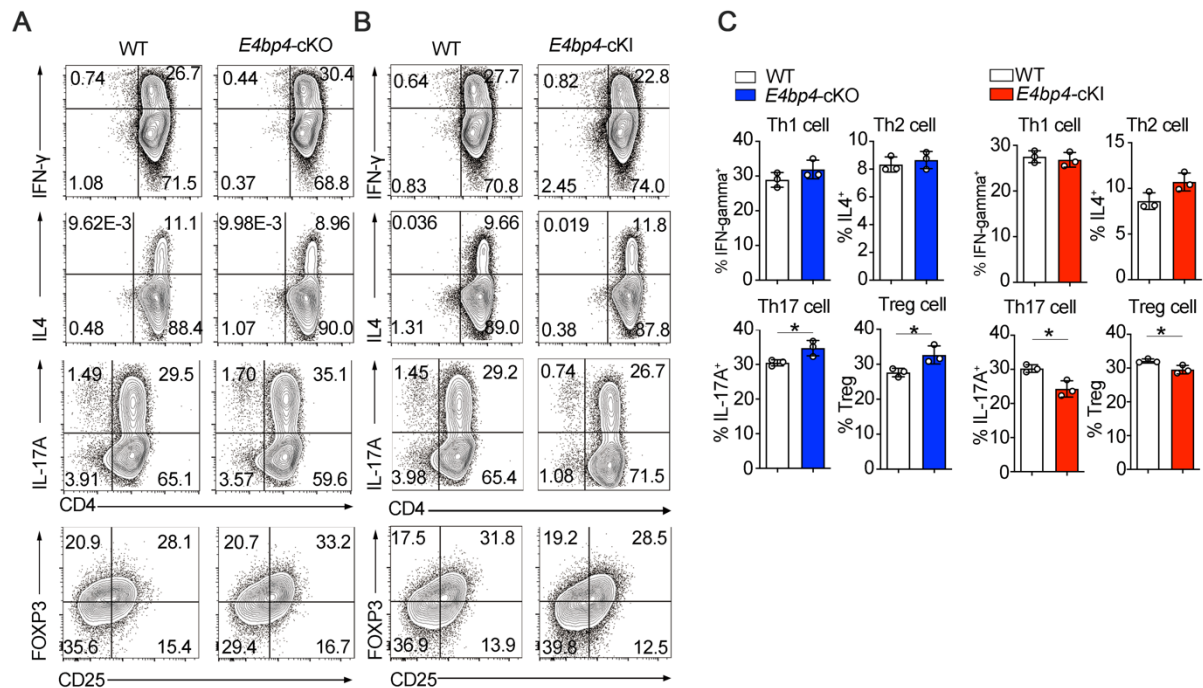
(A) Representative western blot and gel analysis of E4BP4 expression in CD4<sup>+</sup> T cells of *E4bp4*-cKO and WT mice. (B) Schematic representation of the E4BP4 locus and targeting strategy for generating the *E4bp4*-cKI mice. Cre-mediated recombination of loxP sites in mice. Representative western blot and gel analysis of E4BP4 expression in

CD4<sup>+</sup> T cells of the *E4bp4*-cKI and WT mice. (C) Representative western blot and gel analysis of E4BP4 expression of the *E4bp4*-KO and WT mice.



**Supplemental Figure 5. No alteration in stimulatory capacity was observed in the *E4bp4-cKO* mice**

Sorted CD4<sup>+</sup>CXCR5<sup>+</sup>PD-1<sup>+</sup> Tfh cells from the *E4bp4-cKO* and WT mice were co-cultured with GC B cells from the WT mice. (A) Flow cytometry analysis of the IgG1<sup>+</sup>CD19<sup>+</sup>IgD<sup>-</sup> cells was performed (left panel); statistical analysis is shown in the right-hand panel. (B) ELISA analysis of IgG1, IgG2a, IgG2b secretions in the coculture supernatant on day 7. (n =3); Data are representative of three independent experiments. Student's *t* test; n.s, not significant.

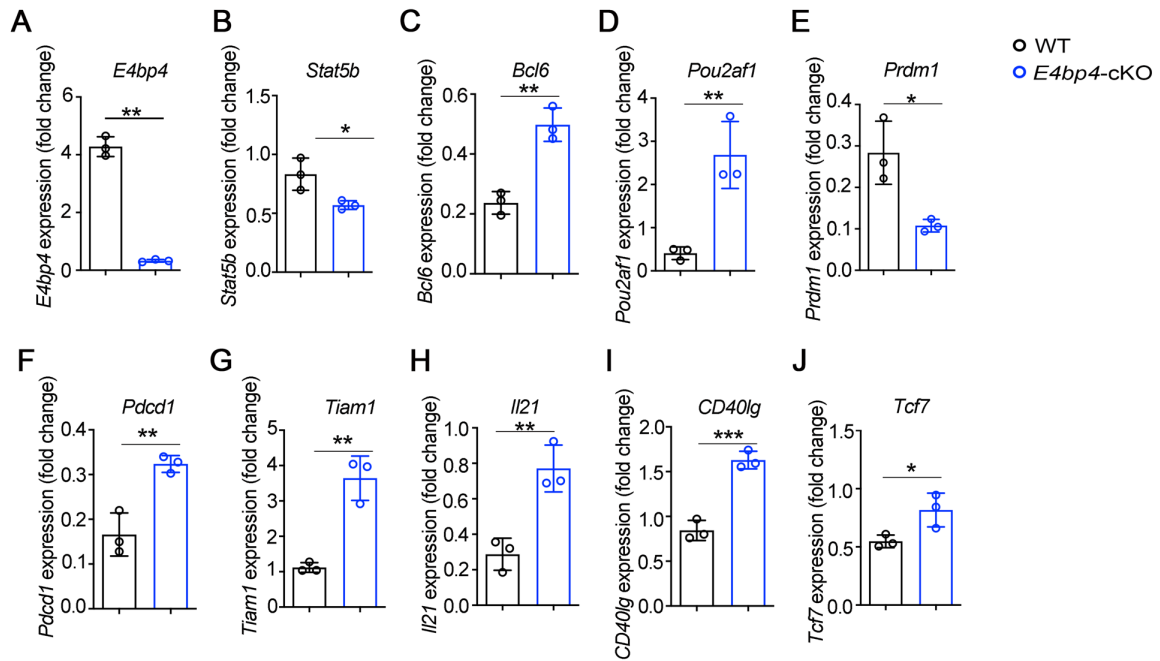


**Supplemental Figure 6. The effect of *E4bp4* deletion and *E4bp4* overexpression on *in vitro* differentiation of T helper subsets**

(A, B) Naïve CD4<sup>+</sup> T cells from the *E4bp4*-cKO and littermate controls, as well as the *E4bp4*-cKI and littermate controls, were cultured under classical Th1, Th17 and Treg polarizing conditions for three days, or in the case of the Th2 polarizing condition, for five days. Cells were stained with subset-specific markers to determine the differentiation potential of Th1, Th2, and Th17 cells and Tregs. (C) Statistical analysis of (A) and (B). (n = 3). Data are representative of

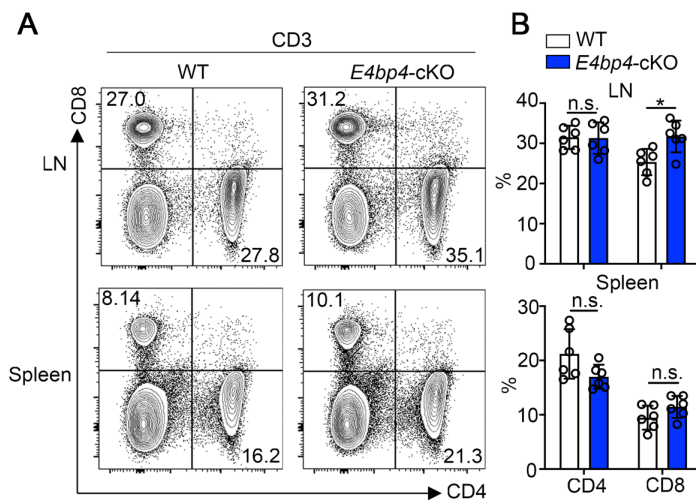


three independent experiments. Student's  $t$  test. \* $P < 0.05$ .



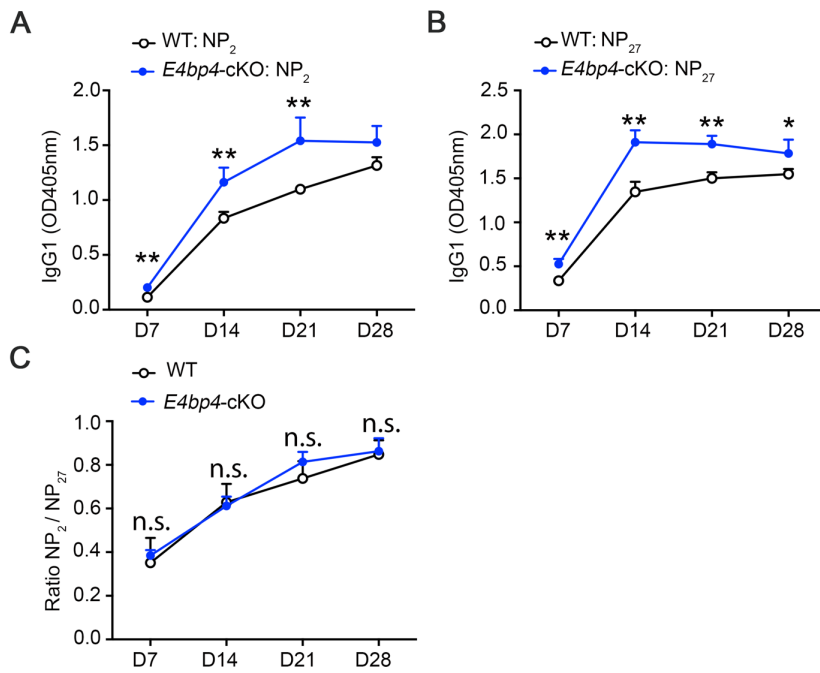
## Supplemental Figure 7. RT-qPCR verification of differentially expressed genes

Quantitative RT-PCR of selected genes, (A) *E4bp4*, (B) *Stat5b*, (C) *Bcl6*, (D) *Pou2af1*, (E) *Prdm1*, (F) *Pcdcl1*, (G) *Tiam1*, (H) *Il21*, (I) *Cd40lg*, (J) *Tcf7* in Figure 3H. Samples are from lymph node CD4<sup>+</sup> T cells of the *E4bp4*-cKO and WT mice seven days after KLH immunization. (n=3), Data are representative of three independent experiments. Student's *t* test. \*\*\*P<0.001, \*\*P<0.01, \*P<0.05.



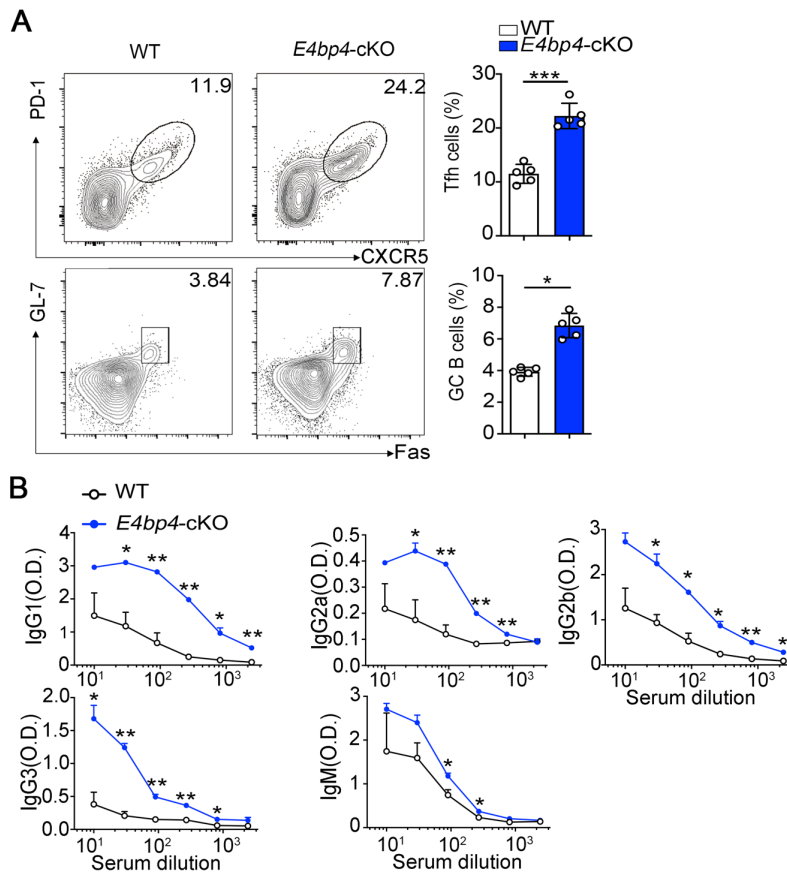
**Supplemental Fig 8. CD4, CD8 T cell populations in *E4bp4-cKO* mice upon immunization.**

(A) Flow cytometric analysis of CD4<sup>+</sup> and CD8<sup>+</sup> T cell distributions in CD3<sup>+</sup> T cells. (B) Analysis of (A). (n=6). Data are representative of three independent experiments. Student's *t* test. \*P<0.05.



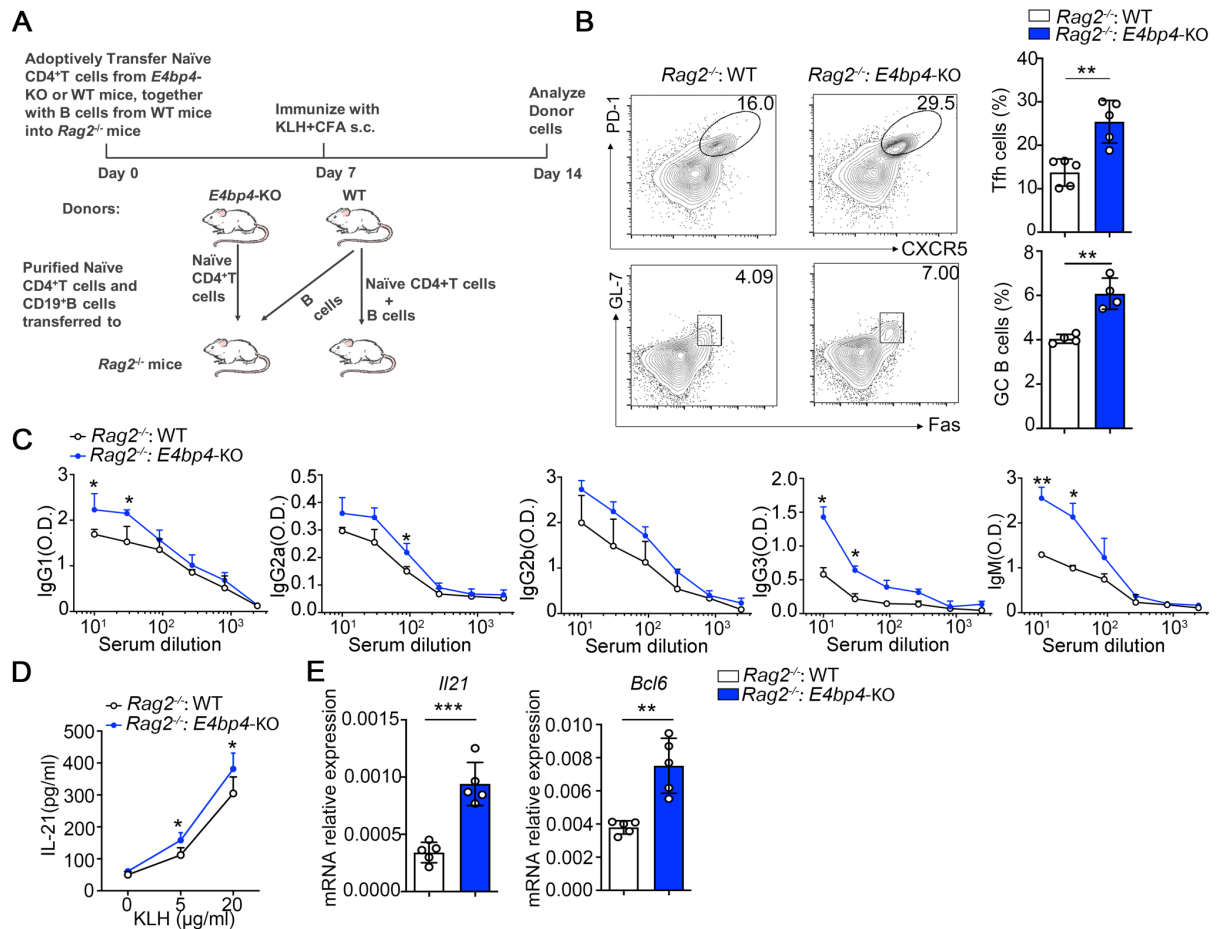
## Supplemental Figure 9. E4BP4 deficiency does not alter IgG1 affinity maturation

Age-matched *E4bp4*-cKO and WT mice were immunized with NP-KLH, and the high-affinity and total NP-specific IgG1 responses were determined on days 7, 14, 21 and 28. ELISA of anti-NP<sub>2</sub> (A) and anti-NP<sub>27</sub> (B) responses were shown. (C) NP<sub>2</sub>/NP<sub>27</sub> titer ratio in these mice. (n=6). Data are representative of three independent experiments. Student's *t* test. \*\*\*P<0.001, \*\*P<0.01, \*P<0.05; n.s., not significant.



## Supplemental Figure 10. *E4bp4*-cKO mice give rise to increased GC responses upon SRBC immunization

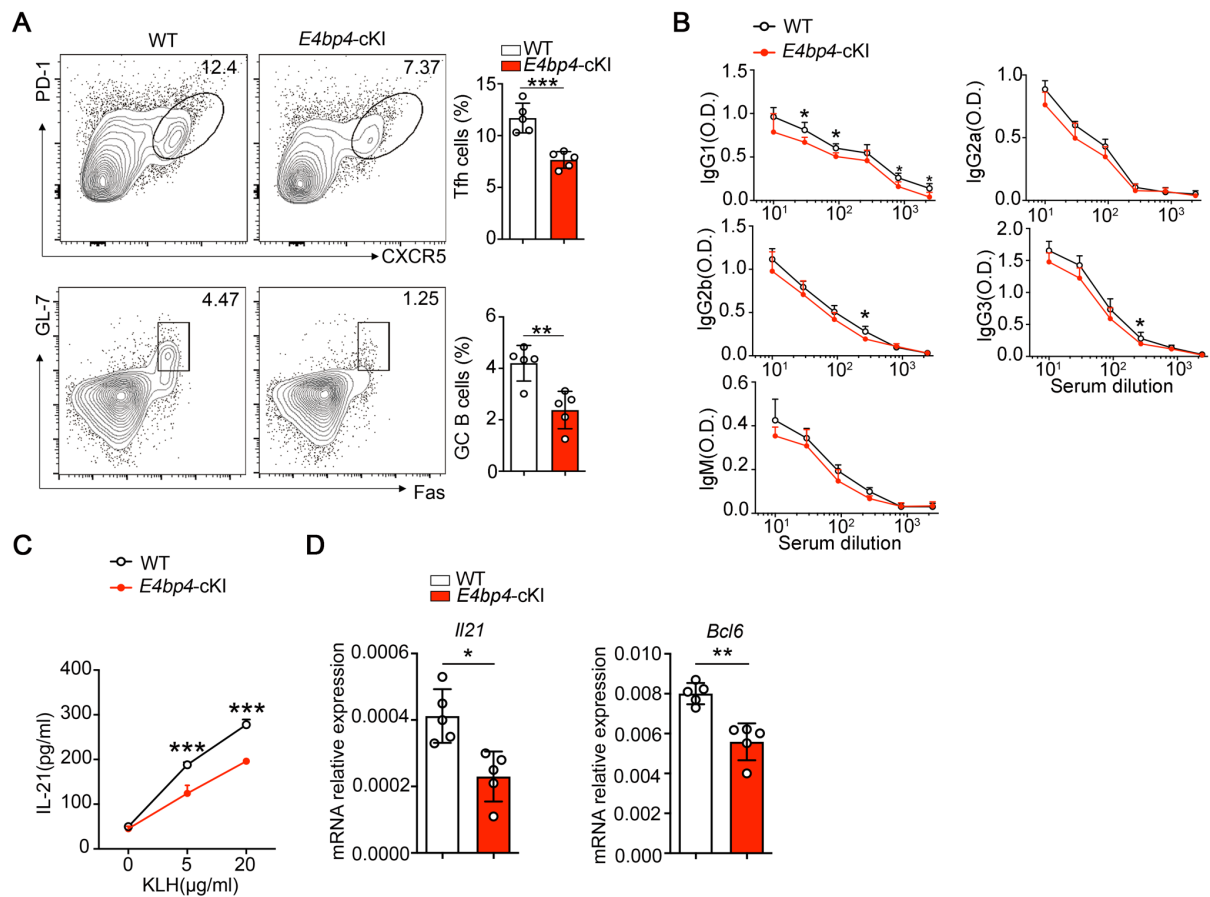
The *E4bp4*-cKO and WT mice were immunized with  $2 \times 10^9$  SRBCs and isolated lymphocytes were analyzed after seven days. (A) Analysis of CD4<sup>+</sup>CXCR5<sup>+</sup>PD-1<sup>+</sup> Tfh cells and B220<sup>+</sup>Fas<sup>+</sup>GL7<sup>+</sup> GC B cells by flow cytometry. (B) Titers of serum anti-SRBC-specific IgG1, IgG2a, IgG2b, IgG3 and IgM in WT and *E4bp4*-cKO mice. (n=5). Data are representative of three independent experiments. Student's *t* test; \*\*\*P<0.001, \*\*P<0.01, \*P<0.05.



## Supplemental Figure 11. E4BP4 regulates Tfh cell differentiation in a cell-intrinsic manner

(A) Scheme of adoptive co-transfer of WT B cells and WT naïve CD4<sup>+</sup> T cells or *E4bp4*-KO naïve CD4<sup>+</sup> T cells into *Rag2*<sup>-/-</sup> mice followed by KLH immunization for 7 days. (B, C) Analysis of CD4<sup>+</sup>CXCR5<sup>+</sup>PD-1<sup>+</sup> Tfh cells and B220<sup>+</sup>Fas<sup>+</sup>GL7<sup>+</sup> GC B cells from *Rag2*<sup>-/-</sup> hosts by flow cytometry. (n=5) (C) Titer of serum anti-KLH-specific IgG1, IgG2a, IgG2b, IgG3 and IgM antibodies in *Rag2*<sup>-/-</sup> hosts. (D) Draining lymph node cells were restimulated with KLH for three days followed by

detection of supernatant IL-21 expression levels by ELISA. (E) *Il21* and *Bcl6* mRNA expression levels were detected by RT-PCR. (n=5), Data are representative of three independent experiments. Student's *t* test; \*\*\*P<0.001, \*\*P<0.01, \*P<0.05.

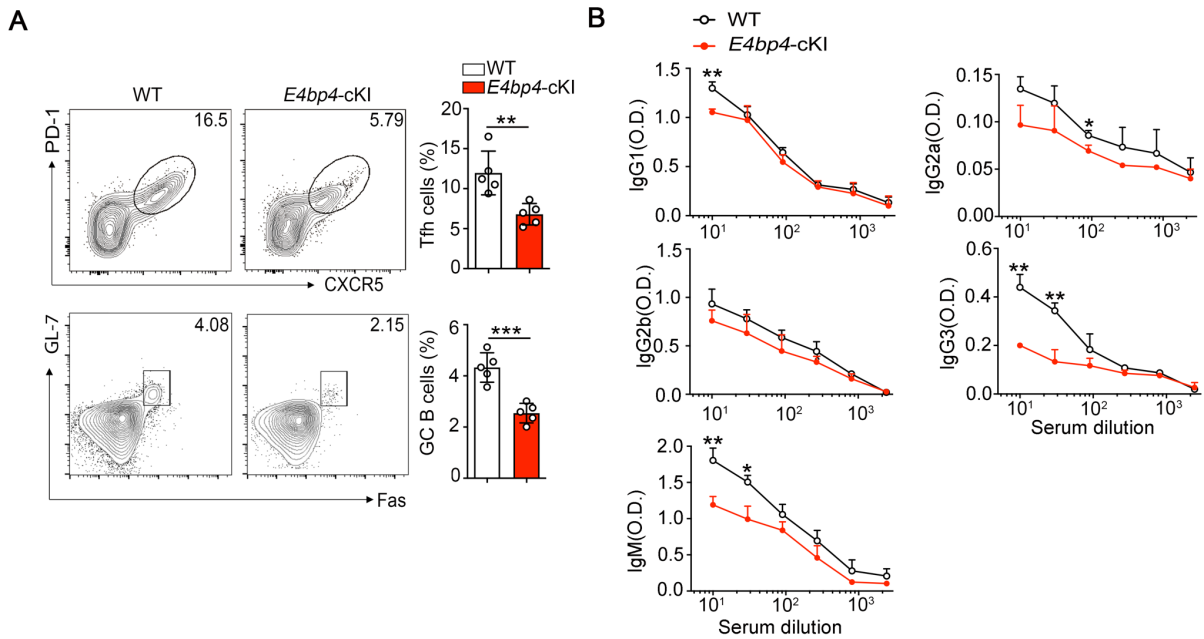


## Supplemental Figure 12. Forced expression of E4BP4 controls GC responses upon KLH immunization

The *E4bp4*-cKI mice and their littermates were immunized with KLH for 7 days. (A) Analysis of CD4<sup>+</sup>CXCR5<sup>+</sup>PD-1<sup>+</sup> Tfh cells and B220<sup>+</sup>Fas<sup>+</sup>GL7<sup>+</sup> GC B cells by flow cytometry. (B) Titers of serum anti-KLH-specific IgG1, IgG2a, IgG2b, IgG3 and IgM in *E4bp4*-cKI and WT mice. (C) Cells from draining lymph node were restimulated with KLH for three days and supernatant IL-21 was measured by

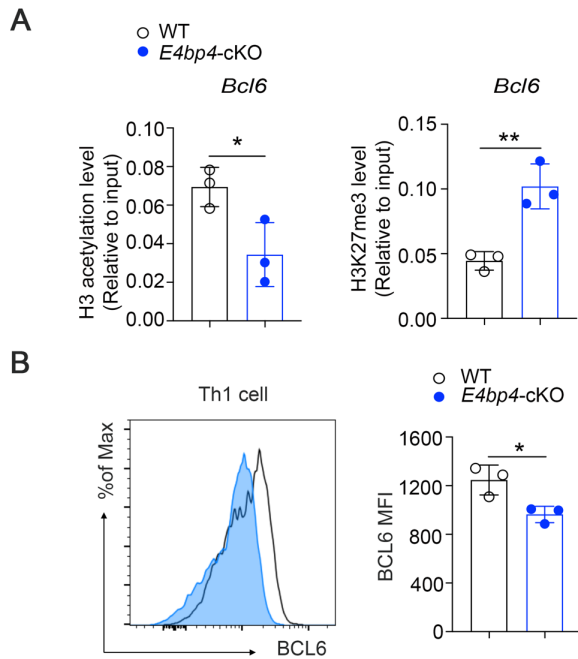


ELISA. (D) *Il21* and *Bcl6* mRNA expression levels were detected by RT-PCR. (n=5), Data are representative of three independent experiments. Student's *t* test; \*\*\*P<0.001, \*\*P<0.01, \*P<0.05.



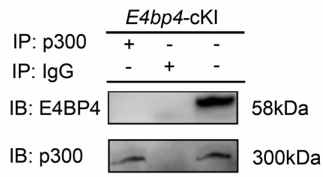
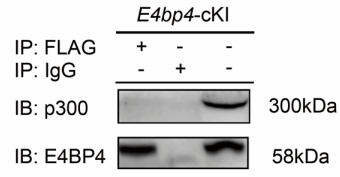
### Supplemental Figure 13. *E4bp4-cKI* mice controls Tfh cell differentiation upon SRBC immunization

The *E4bp4-cKI* and WT mice were immunized with  $2 \times 10^9$  SRBCs and isolated lymphocytes were analyzed after 7 days. (A) Analysis of CD4<sup>+</sup>CXCR5<sup>+</sup>PD-1<sup>+</sup> Tfh cells or B220<sup>+</sup>Fas<sup>+</sup>GL7<sup>+</sup> GC B cells by flow cytometry. (B) Titers of serum anti-SRBC-specific IgG1, IgG2a, IgG2b, IgG3 and IgM in the WT and the *E4bp4-cKI* mice. (n=5). Data are representative of three independent experiments. Student's *t* test; \*\*\*P<0.001, \*\*P<0.01, \*P<0.05.



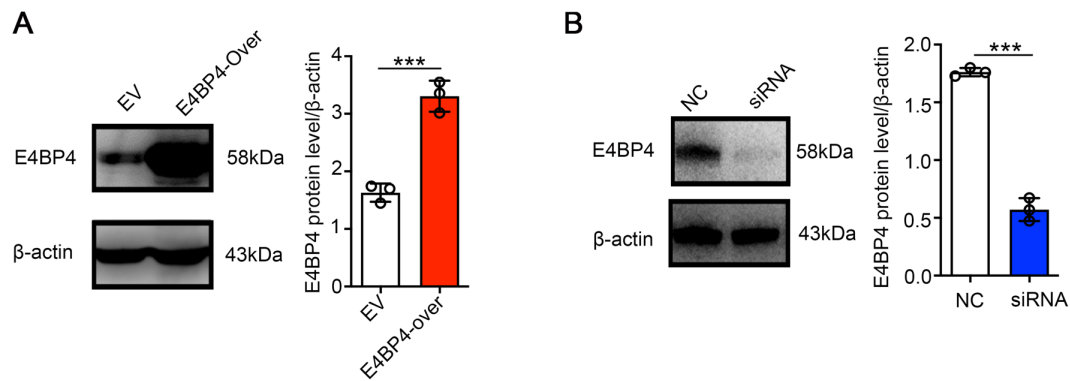
### Supplemental Figure 14. Histone modifications epigenetically regulate *Bcl6* in *E4bp4*-cKO Th1-skewed cells

Naïve CD4<sup>+</sup> T cells were isolated from WT and *E4bp4*-cKO mice, cells were cultured under Th1 skewing condition for 5 days. (A) The H3 acetylation and H3K27 tri-methylation levels in the *Bcl6* promoter region in WT vs. *E4bp4*-cKO mice. (B) Analysis of BCL6 expression in CD4<sup>+</sup>IFN- $\gamma$ <sup>+</sup> Th1 cells by flow cytometry. (n=3). Data are representative of three independent experiments. Student's *t* test, \*P < 0.05, \*\*P < 0.01.

**A****B**

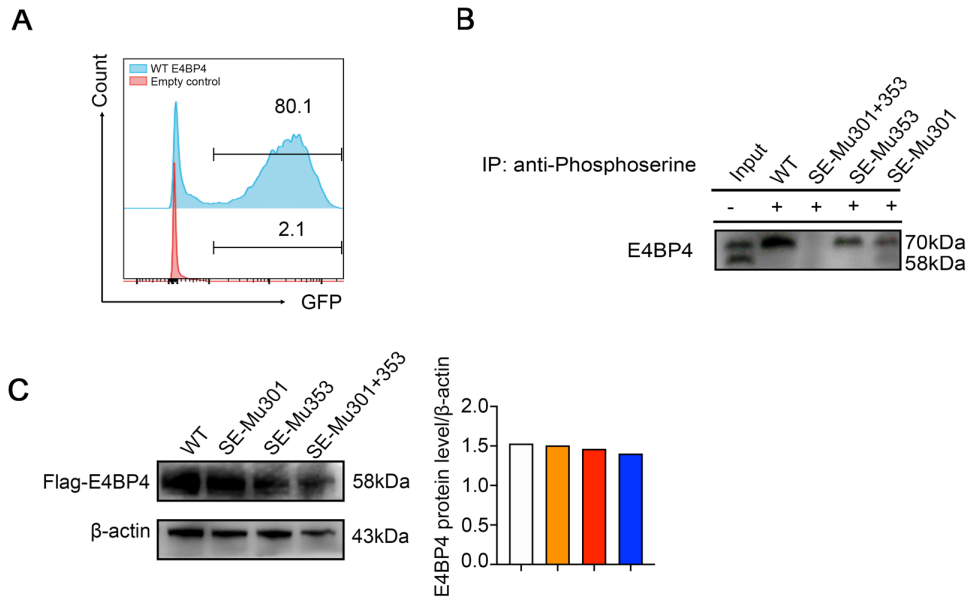
**Supplemental Figure 15. No interaction between E4BP4 and p300 in *E4bp4-cKI* Tfh-like cells**

(A, B) We used anti-FLAG antibody, anti-p300 antibodies for co-immunoprecipitation experiments to analyze the interaction between E4BP4 and p300 in *E4bp4-cKI* Tfh-like cells. Data are representative of three independent experiments.



## Supplemental Figure 16. Western blot analysis of E4BP4 expression

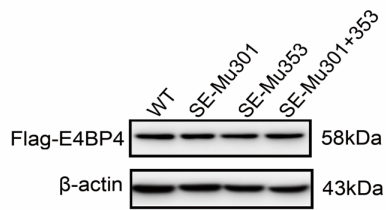
(A) Human CD4<sup>+</sup> T cells from healthy donors were transfected with an E4BP4 expression plasmid or empty vector plasmid. The quantification of three independent experiments is shown in the right-hand panel; (B) Human CD4<sup>+</sup> T cells were transfected with an E4BP4 siRNA or negative control (NC). The quantification is shown in the right-hand panel. (n=3). Data are representative of three independent experiments. Student's *t* test; \*\*\*P<0.001.



## Supplemental Figure 17. Expression of mutant E4BP4 in human CD4<sup>+</sup> T cells

Isolated human CD4<sup>+</sup> T cells were transfected with E4BP4 phosphor-mutants (wild-type E4BP4 cDNA construct (WT), Ser301 Mutants (SE-Mu301), Ser305 Mutants (SE-Mu305), Ser301 and Ser305 double Mutants (SE-Mu301+353)). (A) GFP expression was analysed by flow cytometry in wild type (WT) E4BP4 and empty control group; (B) CD4<sup>+</sup> T cells from the above groups were then immunoprecipitated with anti-phosphoserine antibody prior to immunoblotting with anti-

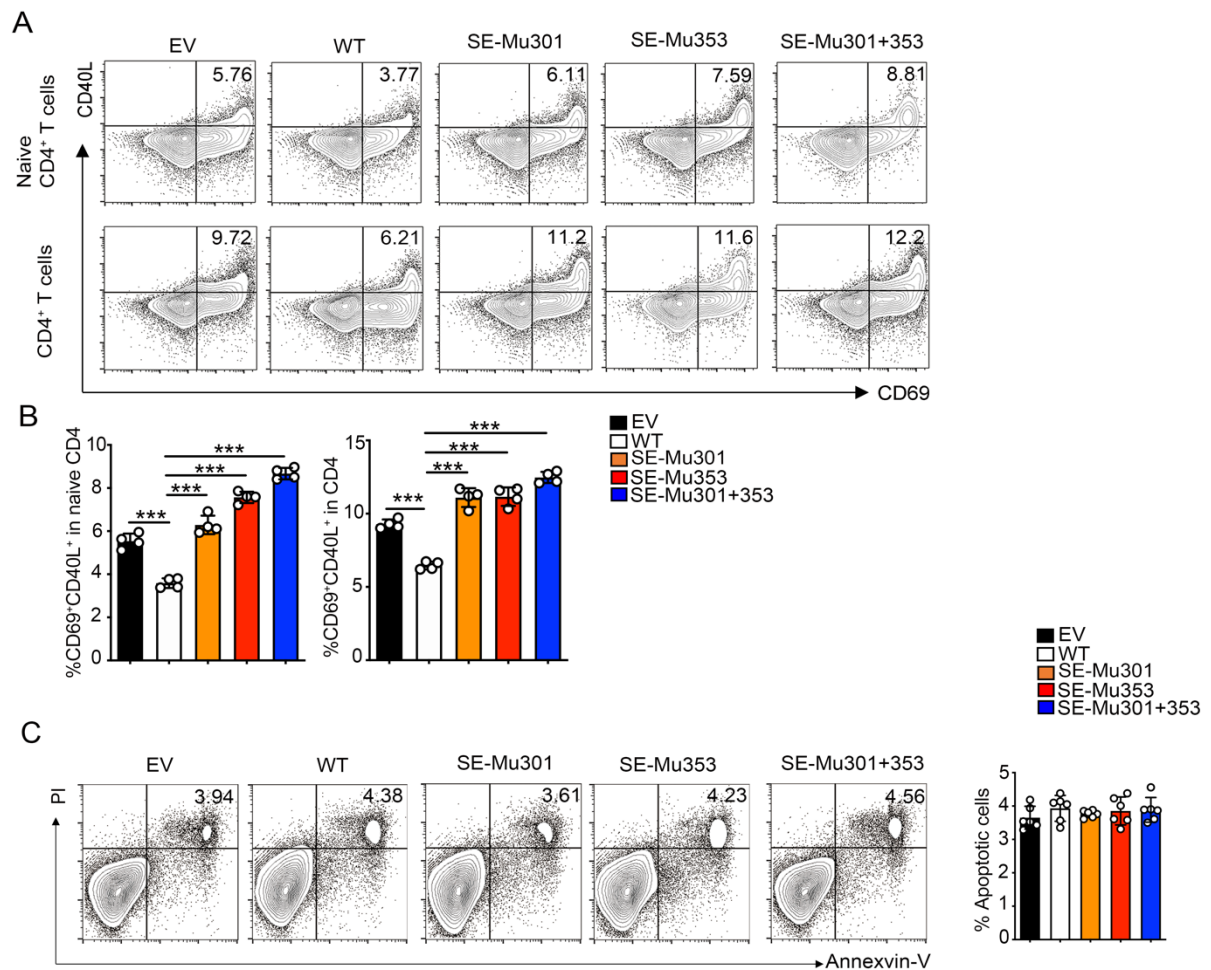
E4BP4 antibody. (C) Western blot analysis of total E4BP4 expression in CD4<sup>+</sup> T cells from the above groups. Data are representative of 2-3 independent experiments.



### **Supplemental Figure 18. E4BP4 expression in Jurkat T cells**

Jurkat cells were transfected with the mutant E4BP4 (wild-type E4BP4 cDNA construct (WT), Ser301 Mutants (SE-Mu301), Ser305 Mutants (SE-Mu305), Ser301 and Ser305 double Mutants (SE-Mu301+353). Anti-FLAG antibody was used to detect E4BP4 protein expression in Jurkat cells by western blotting.

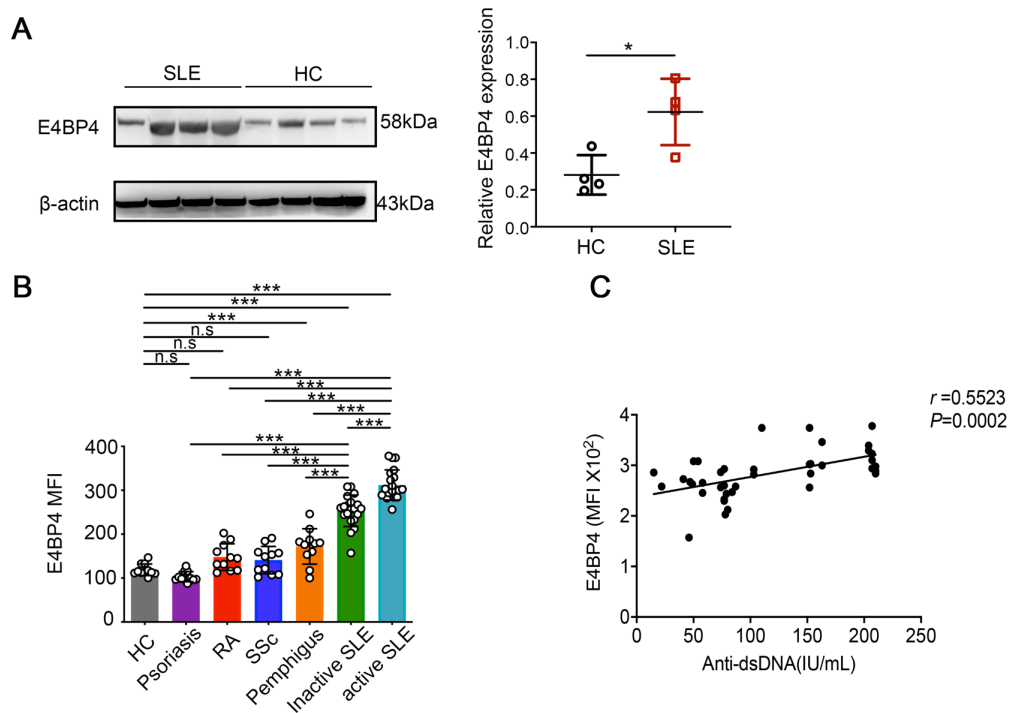




## Supplemental Figure 19. Mutant form of E4BP4 modulate has an altered effect on T cell activation

Naïve CD4<sup>+</sup> T and total CD4<sup>+</sup> T cells were expressed with the mutant version of E4BP4. (A) Analysis of CD4<sup>+</sup>CD69<sup>+</sup>CD40L<sup>+</sup> cells in different groups by flow cytometry; (B) Statistical analysis of (A), (n=4). (C) Analysis of annexin-V and propidium iodide (PI) staining of apoptotic cells in naïve CD4<sup>+</sup> T cells. Percentages of apoptotic cells are shown as (annexin-V-positive, PI-negative cells). (n=6). Data are

representative of three independent experiments. One-way ANOVA with Dunnett's *post hoc* test: \*\*\* $P < 0.001$ .



## Supplemental Figure 20. E4BP4 expression is increased in SLE patients

(A) Western blot analysis of anti-E4BP4 and anti- $\beta$ -actin antibodies in SLE and Healthy control (HC) CD4<sup>+</sup> T cells (n=4). Statistical analysis of relative E4BP4 expression to  $\beta$ -actin. (B) E4BP4 MFI in PBMC CD4<sup>+</sup> T cells from healthy controls. (HC, n = 10), Psoriasis (n=10), Rheumatoid arthritis (RA, n=10), Systemic Sclerosis (SSc, n=10), Pemphigus, (n=10), inactive SLE patients (n=20) and active SLE patients (n=20). Dots indicate individual donors. (C) Correlation

between E4BP4 expression level in CXCR5<sup>hi</sup>Tfh-like cells and serum anti-dsDNA levels from SLE patients (n=40). Data are representative of three independent experiments. For (A), Student's *t* test; (B), one-way ANOVA analysis with Dunnett's *post hoc* test; (C), Pearson's correlation coefficient was used for the correlation analysis (two-tailed). \*\*\* $p < 0.001$ , \* $P < 0.05$ . n.s. not significant.

**Supplemental Table 1. Downregulated genes in *E4bp4*-cKO Tfh cells**

cKO1	cKO2	cKO_C1	cKO_C2	log2FoldChange	pvalue	padj	GENE_NAME
48.8129	21.3928	3029.9122	3426.6637	-6.543852788	2.62E-104	2.12E-100	Nos2
175.519	188.97	2486.1264	2469.3929	-3.763876872	1.61E-101	8.64E-98	Tph1
301.186	336.046	4038.4352	4835.1323	-3.798233482	1.07E-95	4.30E-92	Nfil3
59.1986	32.9806	1851.1304	2413.298	-5.543931576	3.10E-78	9.99E-75	Ptgs2
1726.11	1571.48	10057.432	10966.543	-2.672731245	4.31E-73	1.16E-69	Ifitm1
58.1601	88.2455	1666.9729	1149.9444	-4.260949038	4.91E-46	9.90E-43	Procr
2701.33	2044.8	19568.473	15149.268	-2.871229075	1.39E-42	2.50E-39	Furin
228.486	175.6	1519.2994	1447.491	-2.879262016	1.75E-41	2.82E-38	Gcnt1
19.7329	18.7187	1156.1964	558.5096	-5.481645021	4.00E-37	5.87E-34	Il1a
99.703	95.3764	787.01275	706.06345	-2.937742063	1.97E-35	2.45E-32	Cybb
156.824	139.054	951.19091	1163.3584	-2.837747536	3.65E-35	4.20E-32	Ltb4r1
452.818	511.646	4552.6863	2927.9073	-2.955426533	3.77E-33	4.06E-30	Itgb3
61.2758	52.5908	507.30182	598.75156	-3.281883313	3.69E-31	3.72E-28	5830417110Rik
51.9286	24.067	782.66941	630.45735	-4.231206605	5.01E-31	4.75E-28	Myadm
151.632	106.073	1187.4685	892.6398	-3.017534922	1.30E-27	9.85E-25	Cd93
1298.22	1534.05	4910.5773	5711.9192	-1.906432135	1.34E-27	9.85E-25	Osm
21.81	49.0253	566.37121	906.05379	-4.364150885	1.09E-26	7.32E-24	Gpr141
1072.85	1447.58	5523.8566	7117.9488	-2.325701742	2.09E-26	1.35E-23	Padi2
94.5101	61.5044	736.63004	610.94609	-3.117560554	1.49E-25	9.23E-23	Cd244
10.3857	14.2619	285.79161	552.41234	-5.07648813	2.89E-25	1.73E-22	Nupr1
54.0058	29.4152	1471.5227	609.72664	-4.648970687	8.00E-25	4.61E-22	Cd14
4.15429	6.23958	300.55895	246.32956	-5.702120636	1.09E-24	6.06E-22	Clec7a
83.0858	63.2872	508.17048	635.33516	-2.968582651	1.97E-24	1.06E-21	Havcr2
617.951	425.183	3168.0304	2513.2932	-2.447004924	2.44E-24	1.27E-21	Scin
82.0472	63.2872	499.48381	619.48227	-2.947427167	2.61E-24	1.32E-21	Slc45a3
27.0029	15.1533	338.78032	317.05785	-3.974979801	5.65E-24	2.68E-21	D330045A20Rik
348.96	237.104	1981.4306	1532.8528	-2.586794681	8.55E-24	3.94E-21	Lat2
48.8129	98.0506	851.29414	729.23306	-3.420545425	9.54E-24	4.27E-21	Cdh17
291.839	218.385	2118.68	1376.7628	-2.778704502	1.08E-23	4.70E-21	Col18a1
30.1186	14.2619	974.64493	403.63904	-4.970613833	2.50E-23	1.06E-20	Slc7a2
994.952	916.327	4090.5552	3152.2867	-1.922781033	2.63E-23	1.09E-20	Ifitm3
30.1186	22.2842	471.68645	304.86332	-3.898346113	7.51E-23	3.03E-20	Mmp14
8.30858	13.3705	234.54022	262.18246	-4.50148888	1.44E-22	5.54E-20	Pla2g7
1356.38	1855.83	5866.9803	6528.9529	-1.947594116	3.37E-22	1.26E-19	Pim2
272.106	310.196	1792.9297	1231.6478	-2.377217338	1.18E-21	4.22E-19	Lmna
1888.12	3194.67	12798.947	15021.226	-2.452055055	1.21E-21	4.25E-19	Lilr4b
9787.51	11127.8	26966.914	26587.74	-1.356389953	1.60E-21	5.48E-19	Fth1
775.814	826.299	2209.8901	2353.5448	-1.509522017	3.75E-21	1.26E-18	Nefl
13.5014	31.1979	395.24371	323.15512	-3.990206772	6.19E-21	2.04E-18	Ly6i
58.1601	38.3289	423.90974	385.34724	-3.076360924	8.19E-21	2.59E-18	Cd34
1443.62	2378.17	8847.3784	9999.5169	-2.301496413	1.88E-20	5.60E-18	Lilrb4a
343.767	349.417	1092.7837	1182.8697	-1.714267944	3.22E-20	9.12E-18	Susd1
6.23143	24.067	346.59833	362.17762	-4.52034476	3.60E-20	1.00E-17	Gm1045

338.575	351.199	1084.9657	1145.0666	-1.692151553	6.13E-20	1.67E-17	Lrp12
137.092	219.277	956.40291	1134.0916	-2.548375044	7.70E-20	2.04E-17	Metrlnl
133.976	190.753	805.25477	806.05862	-2.307502311	1.01E-19	2.57E-17	Rasa4
1119.58	1134.71	3045.5482	2782.7924	-1.370706598	5.68E-19	1.43E-16	Atp8b4
574.331	655.156	2067.4286	2960.8326	-2.030837898	7.78E-19	1.93E-16	Tigit
38.4272	38.3289	283.1856	307.30223	-2.942786832	9.98E-19	2.44E-16	Olr1
429.969	371.701	1247.4065	1277.987	-1.65635958	1.46E-18	3.51E-16	Tcn2
210.83	146.184	1049.3503	820.69206	-2.392864938	1.49E-18	3.54E-16	Apobr
265.875	193.427	2467.0157	1224.3311	-3.008723799	1.92E-18	4.48E-16	Fgl2
198.367	82.8973	1830.2824	1181.6502	-3.425246593	2.39E-18	5.51E-16	Rnf128
2.07714	1.78274	220.64154	297.5466	-7.074107105	2.84E-18	6.46E-16	Crisp1
48.8129	47.2425	303.16496	378.03052	-2.82480227	3.48E-18	7.79E-16	Rasgrp4
136.053	140.836	612.41058	547.53452	-2.06722169	3.59E-18	7.94E-16	Avil
97.6258	94.4851	828.70879	501.1953	-2.793700767	3.88E-18	8.45E-16	Sh3pxd2b
19.7329	6.23958	281.44827	248.76847	-4.379714876	4.69E-18	9.94E-16	Clec4n
464.242	705.073	2362.7756	3121.8004	-2.228158182	5.01E-18	1.05E-15	Rhoq
1381.3	1652.6	4160.0486	5071.7062	-1.604736072	8.52E-18	1.76E-15	Creb3l2
64.3915	39.2202	964.22092	421.93084	-3.748392924	2.11E-17	4.20E-15	Anpep
1777	2266.75	6157.1152	8471.5419	-1.854523696	3.41E-17	6.70E-15	Zbtb32
3028.48	4344.53	12079.69	15310.236	-1.893019404	3.77E-17	7.32E-15	Grina
423.738	254.931	2123.892	1557.2418	-2.441783094	3.94E-17	7.56E-15	Aqp9
266.913	250.475	1275.2039	901.17597	-2.074461973	4.93E-17	9.35E-15	P2ry14
978.335	1009.03	2949.9948	2468.1734	-1.447422711	7.29E-17	1.35E-14	Glb1
11.4243	9.80506	233.67156	159.74838	-4.219507336	9.31E-17	1.69E-14	Slc11a1
110.089	75.7663	519.46316	897.51761	-2.932134904	1.11E-16	1.98E-14	Adssl1
145.4	94.4851	612.41058	906.05379	-2.66435556	1.29E-16	2.29E-14	Cd68
6.23143	3.56547	147.67347	196.33198	-5.152890239	1.33E-16	2.32E-14	Ptprg
446.586	491.144	1289.9712	1491.3914	-1.567162342	1.73E-16	2.99E-14	Unc119
6.23143	11.5878	168.52149	187.79581	-4.301398905	1.85E-16	3.17E-14	Pdpn
12.4629	2.67411	186.76351	368.27489	-5.230678027	1.96E-16	3.33E-14	Rhoj
368.693	398.442	1165.7518	1564.5586	-1.829917275	3.15E-16	5.14E-14	Tm6sf1
574.331	799.558	2232.4755	2390.1284	-1.749144648	3.23E-16	5.21E-14	Ier3
1228.63	1545.63	3958.5178	5226.5768	-1.726435382	4.34E-16	6.79E-14	Slc2a3
114.243	114.987	562.89654	1114.5803	-2.869629764	5.60E-16	8.62E-14	Ltbp3
1.03857	1.78274	242.35823	226.81831	-7.351763368	5.61E-16	8.62E-14	Vnn3
384.272	188.97	2046.5806	1592.606	-2.669097132	5.96E-16	9.01E-14	Fcer1g
330.266	538.387	1771.213	2409.6397	-2.264959288	1.05E-15	1.57E-13	Xdh
66.4686	32.9806	510.77649	374.37216	-3.163903102	1.12E-15	1.66E-13	Acpp
1401.03	1779.17	5125.1382	4198.5776	-1.551657284	4.92E-15	6.96E-13	Gem
15.5786	51.6994	622.83459	389.0056	-3.899174437	5.18E-15	7.27E-13	Slc16a11
76.8544	62.3958	504.69581	340.22747	-2.606192102	8.38E-15	1.16E-12	Nlrp3
1189.17	1168.58	2703.2932	2560.8519	-1.159103297	1.35E-14	1.83E-12	Plac8
82.0472	76.6577	413.48573	340.22747	-2.250437332	1.63E-14	2.20E-12	Tjpl
210.83	353.873	1219.6092	1991.3672	-2.504883908	1.81E-14	2.42E-12	Ppp1r3b
179.673	312.87	1121.4497	1147.5055	-2.200835777	2.36E-14	3.10E-12	Nt5e

141.246	118.552	487.32246	497.53694	-1.924490415	2.36E-14	3.10E-12	Pde4a
650.146	1025.97	3057.7096	4963.1749	-2.257624618	3.09E-14	4.01E-12	Vps37b
20.7714	19.6101	175.47083	196.33198	-3.203004217	3.47E-14	4.48E-12	1500004A13Rik
68.5458	43.6771	447.36376	315.8384	-2.773560053	3.87E-14	4.95E-12	Adora3
1348.07	2451.26	7702.4747	8089.8531	-2.054930833	4.25E-14	5.39E-12	Dusp5
10681.7	12980.1	26906.107	27046.254	-1.189050333	5.67E-14	7.09E-12	Srgn
2.07714	8.91369	194.58152	135.35931	-4.869725395	6.70E-14	8.31E-12	Hamp
115.282	303.065	1447.2	1682.8455	-2.900173144	7.14E-14	8.79E-12	Adamts14
516.17	362.787	1402.0293	1810.8881	-1.870703918	7.25E-14	8.86E-12	Pik3cg
1810.23	2178.51	5013.9488	4583.9249	-1.26660327	7.92E-14	9.60E-12	Cst3
499.553	430.531	1210.0538	1241.4034	-1.399011672	8.99E-14	1.08E-11	Hexa
115.282	120.335	420.43507	468.27006	-1.913642728	9.49E-14	1.13E-11	Plekhg3
2927.74	3340.85	6865.9479	6689.9207	-1.112544757	9.66E-14	1.15E-11	Inpp5b
273.145	341.394	905.15153	1073.1189	-1.684246859	9.83E-14	1.16E-11	Mir22hg
4101.32	3490.6	11552.409	8883.7172	-1.428894621	9.94E-14	1.16E-11	Ctsd
1856.97	1781.85	3849.0657	4522.9522	-1.201812115	1.25E-13	1.44E-11	Tnfrsf1b
692.728	1045.58	2723.2726	3305.9378	-1.793128536	1.27E-13	1.45E-11	Trem2
729.078	1280.9	4246.0467	3799.8164	-2.00035293	1.35E-13	1.53E-11	Ndr1
153.709	65.0699	751.39738	771.91393	-2.805002868	1.61E-13	1.79E-11	Muc13
9.34715	11.5878	194.58152	128.04259	-3.943277866	1.93E-13	2.13E-11	Meis1
30.1186	30.3065	200.66219	379.24997	-3.259153147	1.94E-13	2.13E-11	Mirt1
9.34715	12.4792	196.31885	130.4815	-3.899697325	2.11E-13	2.30E-11	Pbx1
8.30858	1.78274	136.3808	156.09002	-4.902033111	2.49E-13	2.69E-11	Hcar2
5036.04	5358.02	11543.722	10217.799	-1.066097244	4.22E-13	4.51E-11	Lif
116.32	56.1562	970.30159	499.97585	-3.097570555	4.91E-13	5.21E-11	Tbxas1
182.789	164.903	630.6526	1158.4806	-2.362268882	5.30E-13	5.59E-11	Txk
573.292	708.638	1742.547	1608.4589	-1.385669068	6.70E-13	6.96E-11	Mgat5
300.147	254.04	773.11407	845.08112	-1.546648733	6.73E-13	6.96E-11	Acs1
201.483	457.272	1716.487	2042.5842	-2.510276874	7.18E-13	7.37E-11	Filip1
77.8929	85.5714	363.10301	323.15512	-2.069604984	9.29E-13	9.48E-11	S100a1
451.779	604.348	1474.9974	1909.6638	-1.678433169	1.14E-12	1.15E-10	Swap70
66.4686	60.6131	336.17432	1014.5851	-3.408785458	1.28E-12	1.29E-10	Entpd1
66.4686	48.1339	300.55895	285.35207	-2.359487575	1.42E-12	1.42E-10	Camk1
11.4243	15.1533	152.01681	142.67603	-3.46406733	1.51E-12	1.49E-10	Rnf180
326.112	217.494	1179.6505	907.27324	-1.943715663	1.74E-12	1.71E-10	Emilin1
25.9643	35.6547	192.84418	291.44933	-2.965975993	1.75E-12	1.71E-10	4833407H14Rik
174.48	82.8973	935.55489	660.94368	-2.637989419	1.82E-12	1.77E-10	Tal1
830.858	1331.7	3808.2383	3412.0303	-1.738676618	1.99E-12	1.92E-10	Asb2
83.0858	60.6131	414.3544	312.18004	-2.343958154	2.13E-12	2.05E-10	Tlr2
110.089	127.466	425.64707	645.09079	-2.168673065	2.24E-12	2.14E-10	Arhgef40
18.6943	33.872	195.45019	437.78373	-3.579630305	2.85E-12	2.71E-10	Gzmd
2.07714	8.02232	128.56279	129.26205	-4.63450955	2.88E-12	2.71E-10	Gm44851
246.142	155.99	735.76137	842.64222	-1.975090536	2.93E-12	2.75E-10	Cd200r1
103.857	253.149	1265.6485	1006.049	-2.666712629	3.27E-12	3.03E-10	Selp
256.527	209.472	684.50999	907.27324	-1.772161643	3.38E-12	3.12E-10	AB124611

3499.99	4182.3	8739.6637	8061.8056	-1.128882651	3.61E-12	3.31E-10	Prdx5
2398.06	3525.36	7944.8329	9353.2067	-1.54571926	3.87E-12	3.51E-10	Ostf1
225.37	336.046	908.6262	1138.9694	-1.863891421	4.27E-12	3.84E-10	Frmd4b
43.62	24.067	284.05427	220.72104	-2.909829577	4.50E-12	4.03E-10	Ptges
295.993	246.018	1267.3859	809.71698	-1.940567509	4.78E-12	4.25E-10	Hmox1
36275.3	39112.4	69471.683	73324.506	-0.9215344	4.80E-12	4.25E-10	Actg1
72.7001	29.4152	479.50446	353.64145	-3.038247723	4.86E-12	4.29E-10	Pla2g4a
201.483	328.915	961.61492	1512.1221	-2.218715084	4.94E-12	4.33E-10	Sdcbp2
1585.9	1936.05	3990.6585	5010.7335	-1.353102968	5.16E-12	4.50E-10	Srgap3
40.5043	98.9419	436.93975	763.37775	-3.09821505	5.32E-12	4.62E-10	Bst1
33.2343	25.8497	198.05619	191.45417	-2.726262382	5.39E-12	4.65E-10	Clnk
370.77	525.016	1417.6654	1291.401	-1.595380144	6.17E-12	5.29E-10	Hilpda
389.465	414.486	972.90759	973.12372	-1.274876779	6.65E-12	5.67E-10	Ptgir
50.89	83.7887	710.57001	337.78856	-2.958585386	7.35E-12	6.20E-10	Fgfr1
6.23143	2.67411	110.32077	115.84806	-4.695607282	7.94E-12	6.67E-10	Il27
1100.89	1389.64	3348.7132	2876.6903	-1.321518057	8.03E-12	6.68E-10	Smim3
502.669	910.087	2591.2351	2764.5006	-1.92136362	8.04E-12	6.68E-10	Dennd3
19.7329	26.7411	162.44082	363.39708	-3.491911488	8.27E-12	6.84E-10	Ms4a4a
934.715	1540.29	4047.1219	4033.9515	-1.706428132	8.41E-12	6.92E-10	Arl4c
114.243	204.123	1081.491	658.50477	-2.448601122	1.02E-11	8.29E-10	Ly6g
1.03857	8.91369	154.62281	126.82314	-4.773836579	1.04E-11	8.39E-10	AL589871.1
3990.2	5300.97	10782.77	12845.721	-1.346326084	1.05E-11	8.43E-10	Gramd1a
20.7714	8.91369	304.03362	143.89549	-3.933701652	1.07E-11	8.53E-10	Ephx2
45.6972	80.2232	317.9323	528.02327	-2.74057735	1.15E-11	9.16E-10	Ceacam16
789.315	699.724	2254.1921	1707.2346	-1.412890564	1.50E-11	1.19E-09	Slc23a2
43.62	28.5238	203.26819	297.5466	-2.799244926	1.57E-11	1.23E-09	Cpne7
141.246	243.344	740.97337	1208.4782	-2.3381163	1.59E-11	1.25E-09	Spred3
8854.87	8953.8	16079.035	16094.344	-0.853278581	1.81E-11	1.40E-09	Ly6e
20.7714	4.45684	195.45019	204.86815	-4.01456531	2.17E-11	1.67E-09	Lrrc25
3391.98	3786.53	7039.6814	6963.0782	-0.963812407	2.19E-11	1.68E-09	Pld3
1045.84	1454.71	3132.415	3603.4844	-1.428754246	2.32E-11	1.78E-09	Rhof
173.442	195.21	529.88717	699.96618	-1.735302547	2.36E-11	1.79E-09	Pfkfb4
112.166	115.878	370.05235	491.43967	-1.914900062	2.48E-11	1.87E-09	Soat2
93.4715	38.3289	639.33928	395.10286	-2.980359332	2.49E-11	1.87E-09	Rab27b
9.34715	24.067	251.91357	158.52893	-3.604551768	2.53E-11	1.89E-09	AC163354.1
54.0058	36.5461	420.43507	229.25722	-2.850491169	2.94E-11	2.17E-09	Arhgap6
28.0415	78.4404	361.36568	702.40509	-3.311790818	3.12E-11	2.29E-09	Prph
2421.95	3138.51	6205.7606	6825.28	-1.228266299	3.23E-11	2.37E-09	Tes
115.282	57.939	465.60578	456.07553	-2.417732999	3.29E-11	2.40E-09	Tgm1
2350.29	2973.61	6731.3044	5797.2809	-1.2345728	3.38E-11	2.46E-09	Cd274
1573.44	1523.35	3140.233	3972.9788	-1.199267699	4.09E-11	2.95E-09	Hip1r
110.089	50.808	464.73711	463.39225	-2.534648327	4.37E-11	3.12E-09	Cnr2
1783.23	1882.57	3493.7807	3574.2176	-0.946935045	4.68E-11	3.32E-09	Ubash3b
28.0415	89.1369	511.64515	481.68405	-3.075369425	4.74E-11	3.35E-09	Acvrl1
1779.07	1865.63	3442.5293	3672.9933	-0.964808298	4.78E-11	3.37E-09	Rnf157



681.304	378.832	1838.9691	3292.5239	-2.275620726	4.93E-11	3.46E-09	Cd55
544.212	755.881	1677.3969	2027.9508	-1.509446947	5.05E-11	3.53E-09	Klrk1
3.11572	1.78274	195.45019	75.606103	-5.815641619	5.24E-11	3.64E-09	Tpsg1
18.6943	48.1339	236.27756	575.58195	-3.591885551	5.45E-11	3.78E-09	Hapln4
326.112	410.03	1074.5417	931.66231	-1.445849929	5.65E-11	3.88E-09	Itga5
3539.45	4319.57	8168.0805	9848.3047	-1.196556383	5.75E-11	3.93E-09	Tmem123
1042.73	1567.92	3534.608	3807.1331	-1.490962402	5.84E-11	3.98E-09	Arrb1
1116.47	1308.53	2785.8167	2524.2683	-1.130608603	5.89E-11	3.99E-09	Fndc3a
1207.86	1770.26	3894.2364	4147.3606	-1.432417193	6.48E-11	4.37E-09	Neurl3
1607.71	1705.19	3178.4544	3607.1428	-1.033831531	6.66E-11	4.48E-09	Crip1
2875.81	3101.96	5544.7046	5846.059	-0.929927116	6.74E-11	4.51E-09	Itm2c
10.3857	2.67411	154.62281	109.7508	-4.376106645	7.07E-11	4.67E-09	F10
65.4301	57.0476	260.60025	254.86574	-2.075745602	1.11E-10	7.25E-09	Aldh11l
22.8486	22.2842	165.91549	146.33439	-2.792391942	1.27E-10	8.17E-09	Col5a1
311.572	286.129	768.77073	719.47744	-1.317416882	1.38E-10	8.81E-09	Gla
1108.16	1230.09	2320.2109	2442.5649	-1.02577061	1.38E-10	8.82E-09	Lrrc8d
1371.95	1663.29	3156.7377	3468.1251	-1.125383228	1.48E-10	9.36E-09	Zfp219
165.133	150.641	472.55512	758.49994	-1.961362056	1.75E-10	1.10E-08	Lzts2
78.9315	158.664	539.44251	612.16555	-2.271940048	1.82E-10	1.14E-08	Fut4
502.669	793.318	1846.7871	2120.6293	-1.612692233	2.11E-10	1.31E-08	Fam46a
675.072	528.582	1588.7928	1399.9324	-1.313657446	2.37E-10	1.46E-08	Ints6l
1469.58	1506.41	3655.3528	7082.5847	-1.850885896	2.65E-10	1.61E-08	Irf8
1005.34	1211.37	2353.2202	2916.9322	-1.248403762	2.71E-10	1.64E-08	Net1
1491.39	2191.88	4811.5493	4708.3091	-1.369499942	2.85E-10	1.71E-08	Coro2a
98.6644	144.402	415.22306	592.65429	-2.046994629	3.01E-10	1.80E-08	Sema4c
96.5872	93.5937	509.90782	317.05785	-2.123552659	3.08E-10	1.83E-08	F2rl2
35.3115	21.3928	165.04682	247.54902	-2.86840926	3.23E-10	1.91E-08	Pkib
63.3529	41.003	334.43699	232.91558	-2.450600221	3.32E-10	1.95E-08	Nrp2
109.05	172.926	502.95848	918.24832	-2.329354673	3.35E-10	1.96E-08	Arhgef25
845.398	861.062	1720.8303	2134.0432	-1.174760582	3.61E-10	2.10E-08	Tex2
6171.2	7780.76	15212.105	22284.289	-1.426112659	4.00E-10	2.31E-08	Pim1
19.7329	78.4404	533.36184	421.93084	-3.273929	4.18E-10	2.41E-08	Scarf2
94.5101	39.2202	1711.275	996.29333	-4.342567321	4.34E-10	2.49E-08	Gpmb
77.8929	62.3958	264.94359	453.63662	-2.356080026	4.71E-10	2.69E-08	H2-Oa
501.63	573.15	1222.2152	1164.5779	-1.15057442	4.96E-10	2.83E-08	Dusp16
1174.63	1479.67	2817.0887	3296.1822	-1.202746254	5.32E-10	2.98E-08	Bcl2l11
4452.36	4169.82	7655.5666	8591.0484	-0.913918802	5.89E-10	3.26E-08	Itgb7
2541.39	2707.09	4791.5699	4761.9651	-0.864019787	6.63E-10	3.65E-08	Trpv2
8083.21	8408.28	15925.281	14256.628	-0.872032993	6.67E-10	3.66E-08	Psap
28.0415	17.8274	198.05619	141.45658	-2.899024444	7.40E-10	4.04E-08	Cxcl16
187.982	93.5937	654.10662	595.0932	-2.153857723	8.47E-10	4.58E-08	Lyn
135.014	322.675	1093.6524	1124.3359	-2.273955782	8.49E-10	4.58E-08	Lmtk3
2354.44	3387.2	6873.7659	10321.453	-1.582079315	8.67E-10	4.65E-08	Ctla4
1309.64	1949.42	4295.5608	4093.7047	-1.363614678	8.67E-10	4.65E-08	Crem
15.5786	28.5238	191.97552	147.55385	-2.935905915	9.22E-10	4.92E-08	Epas1

19.7329	14.2619	113.79544	252.42683	-3.43086908	9.35E-10	4.97E-08	Copz2
754.004	815.602	1551.4401	1786.4991	-1.087497386	9.98E-10	5.28E-08	Snx18
485.013	786.187	1778.1624	2116.9709	-1.613977941	1.01E-09	5.32E-08	Vegfa
84.1244	44.5684	568.97721	286.57152	-2.739982368	1.13E-09	5.89E-08	P2rx1
4.15429	0.89137	130.30012	71.947744	-5.379296353	1.14E-09	5.90E-08	Msr1
71.6615	35.6547	537.70518	257.30464	-2.897012504	1.26E-09	6.52E-08	I830077J02Rik
166.172	150.641	425.64707	482.9035	-1.519718283	1.30E-09	6.69E-08	Phldb3
6.23143	9.80506	110.32077	93.897903	-3.659701386	1.50E-09	7.63E-08	Plau
2678.48	3429.1	6232.6893	6743.5766	-1.086833791	1.71E-09	8.67E-08	Cyth4
899.404	913.653	1710.4063	1871.8608	-0.981870051	1.73E-09	8.70E-08	Fuca2
633.529	730.031	1486.2901	1401.1518	-1.082060715	1.81E-09	9.11E-08	Snap23
78.9315	149.75	447.36376	1086.5329	-2.741596579	1.89E-09	9.44E-08	Fasl
19.7329	26.7411	135.51213	176.82073	-2.740165778	1.93E-09	9.62E-08	Sh3tc1
289.762	434.988	1181.3878	978.00153	-1.57402502	1.96E-09	9.74E-08	Ifi209
6.23143	0	96.422092	117.06751	-5.168520691	2.01E-09	9.95E-08	Mmp8
75.8158	61.5044	244.09557	304.86332	-1.999795877	2.11E-09	1.04E-07	Gm13012
12.4629	4.45684	239.75223	85.36173	-4.288001896	2.40E-09	1.17E-07	Cd33
61.2758	16.936	370.92102	310.96059	-3.135408221	2.56E-09	1.24E-07	Rusc2
569.138	607.022	1176.1758	1340.1792	-1.096076771	2.61E-09	1.26E-07	Card19
63.3529	60.6131	231.06555	486.56186	-2.530571338	2.68E-09	1.29E-07	Cd38
711.422	1028.64	2961.2875	2092.5818	-1.538107429	2.91E-09	1.38E-07	Itpripl2
171.364	256.714	621.09726	728.01361	-1.652681468	2.91E-09	1.38E-07	Mcf2l
18.6943	19.6101	142.46147	121.94533	-2.787883126	2.96E-09	1.40E-07	Myof
46.7358	37.4375	182.42017	442.66154	-2.891623472	2.97E-09	1.40E-07	Fam114a1
54.0058	57.0476	719.25669	219.50159	-3.081459929	3.10E-09	1.46E-07	Illrn
1589.02	2465.53	6787.7678	4949.7609	-1.533378855	3.12E-09	1.46E-07	Adam8
2.07714	1.78274	91.210087	73.167197	-5.420936818	3.22E-09	1.50E-07	Creb5
2.07714	0	141.5928	85.36173	-6.874179737	3.28E-09	1.53E-07	Wfdc17
588.871	865.519	1861.5544	3265.6959	-1.81656467	3.43E-09	1.59E-07	Abcb9
1039.61	1195.33	2242.0308	2169.4074	-0.980668229	3.58E-09	1.66E-07	Nfkbiz
90.3558	37.4375	464.73711	321.93567	-2.630057128	3.75E-09	1.73E-07	Cd63-ps
74.7772	161.338	502.08981	619.48227	-2.242741236	3.84E-09	1.77E-07	Gm13546
498.515	806.689	1880.6651	1831.6188	-1.506888421	3.88E-09	1.78E-07	Klrc1
299.109	355.656	749.66005	938.97903	-1.364419793	4.09E-09	1.87E-07	Paqr7
87.2401	50.808	295.34695	307.30223	-2.1318052	4.43E-09	2.02E-07	Renbp
2854	2689.26	4801.1252	5257.0631	-0.859451934	4.48E-09	2.03E-07	Id2
1168.39	1322.79	2348.0082	2482.8069	-0.954792543	4.49E-09	2.03E-07	Gba
52.9672	31.1979	272.76159	193.89307	-2.480328334	4.68E-09	2.11E-07	Nlrp6
116.32	127.466	418.69773	340.22747	-1.639316859	4.71E-09	2.12E-07	Matk
2805.18	1567.03	7508.7618	6036.2937	-1.631806913	5.06E-09	2.27E-07	Serpina3g
23.8872	20.5015	126.82545	154.87057	-2.666789082	5.18E-09	2.31E-07	Cd72
387.388	399.333	860.84949	1203.6004	-1.390150255	5.25E-09	2.34E-07	Lrrk1
6667.63	7270	11891.189	12522.566	-0.808578889	5.44E-09	2.41E-07	Btg1
32.1957	84.68	304.90229	523.14546	-2.816404533	5.59E-09	2.47E-07	Adh1
16.6172	32.9806	150.27948	208.52651	-2.841819412	5.61E-09	2.47E-07	Gzme

900.442	728.248	2370.5936	1725.5264	-1.331867836	6.04E-09	2.65E-07	Litaf
18.6943	9.80506	131.16879	115.84806	-3.130636914	6.56E-09	2.86E-07	Cacng8
948.217	1278.22	2400.1283	2940.1019	-1.261123379	6.81E-09	2.96E-07	Zkscan3
84.1244	85.5714	337.04299	260.963	-1.819469449	7.06E-09	3.06E-07	Arhgef10l
31.1572	9.80506	211.0862	167.0651	-3.223936151	7.32E-09	3.17E-07	Cdk18
0	0	73.836737	108.53134	-9.006007156	7.81E-09	3.37E-07	Fpr2
34.2729	8.91369	317.9323	170.72346	-3.516826128	8.32E-09	3.57E-07	Hbb-bt
687.535	462.62	1452.4121	1527.975	-1.374809412	8.33E-09	3.57E-07	Gab2
14.54	1.78274	155.49148	129.26205	-4.159772947	8.81E-09	3.75E-07	Pkd21l
9257.83	14920.6	29191.571	48004.998	-1.674726196	1.03E-08	4.32E-07	Tnfrsf9
552.521	617.718	1210.9225	1176.7724	-1.028379867	1.03E-08	4.32E-07	P2rx4
328.189	186.296	954.66558	792.64463	-1.766960477	1.06E-08	4.44E-07	Tec
410.236	497.384	968.56426	1136.5305	-1.211811845	1.21E-08	5.06E-07	Sytl3
119.436	41.003	705.35801	401.20013	-2.792508634	1.26E-08	5.23E-07	Gas7
41.5429	20.5015	178.9455	197.55143	-2.610784733	1.31E-08	5.41E-07	Grk3
261.72	231.756	760.95273	570.70414	-1.434834305	1.31E-08	5.41E-07	Vcl
2852.96	2750.76	7745.0394	5294.8661	-1.218838171	1.35E-08	5.59E-07	Ero1l
3097.02	4129.71	7898.7935	13996.885	-1.59895309	1.50E-08	6.14E-07	Cblb
17.6557	41.003	163.30949	308.52168	-2.995534825	1.56E-08	6.37E-07	Eml1
19957.2	30636.3	61040.396	59373.961	-1.250947201	1.57E-08	6.41E-07	Gzmb
62.3143	32.9806	278.84227	215.84323	-2.385102465	1.58E-08	6.41E-07	Tmem51
1980.56	2163.35	5520.3819	3910.7867	-1.186772829	1.59E-08	6.41E-07	Gsn
235.756	416.269	952.05957	1260.9147	-1.760397402	1.59E-08	6.41E-07	Rhoc
462.165	508.972	1027.6336	981.65989	-1.048683197	1.68E-08	6.74E-07	Ern1
142.284	189.862	458.65644	788.98627	-1.905670109	1.70E-08	6.77E-07	Zcchc24
51.9286	36.5461	198.92486	193.89307	-2.156115162	1.80E-08	7.15E-07	Wipi1
3756.52	4477.34	7446.2178	8708.1159	-0.971952289	1.85E-08	7.31E-07	Gpx4
326.112	489.361	1045.8757	1847.4717	-1.825044284	1.88E-08	7.41E-07	Aldoc
1943.17	2413.83	4329.4388	4219.3084	-0.972069572	1.93E-08	7.57E-07	Nedd4
84.1244	114.987	315.3263	342.66637	-1.72033182	1.99E-08	7.74E-07	Lzts1
462.165	376.158	1319.5059	924.34559	-1.422538882	2.00E-08	7.75E-07	Rab31
628.336	926.132	1815.5151	2677.9194	-1.530061733	2.02E-08	7.82E-07	Arhgef10
25.9643	27.6324	125.95679	199.99034	-2.599377708	2.06E-08	7.96E-07	Slc30a2
1361.57	1563.46	2949.1261	4658.3115	-1.378270779	2.10E-08	8.09E-07	Gimap7
410.236	218.385	1177.0445	976.78208	-1.779186567	2.12E-08	8.12E-07	Dmxl2
14.54	8.02232	136.3808	89.020089	-3.337187887	2.24E-08	8.60E-07	Aoah
105.934	139.054	407.40506	349.98309	-1.626948084	2.30E-08	8.75E-07	C1qtnf6
37.3886	47.2425	211.95487	169.50401	-2.170990389	2.56E-08	9.69E-07	Psd3
31.1572	39.2202	147.67347	293.88824	-2.642615544	2.57E-08	9.70E-07	Lhfp12
536.942	559.78	1051.9563	1186.528	-1.028234359	2.61E-08	9.82E-07	Unc93b1
3039.9	3650.15	6129.3178	7580.1216	-1.034669986	2.65E-08	9.95E-07	Atp11b
682.342	1080.34	2188.1734	2414.5175	-1.383617916	2.65E-08	9.95E-07	Mctp2
109.05	66.8526	317.06364	339.00801	-1.903408052	2.78E-08	1.04E-06	Zfp516
2538.27	3039.57	5148.5922	6516.7583	-1.063968963	2.81E-08	1.04E-06	Hmgcs1
1800.88	2066.19	3640.5855	5042.4393	-1.166330914	2.82E-08	1.04E-06	Ugcg

57.1215	82.0059	242.35823	703.62454	-2.760928879	3.04E-08	1.12E-06	Hao
44.6586	20.5015	284.92294	165.84565	-2.802001969	3.05E-08	1.12E-06	Hgfac
25.9643	13.3705	207.61153	114.62861	-3.048313183	3.20E-08	1.18E-06	Pilrb2
816.318	1067.86	1927.5732	2225.5022	-1.139085764	3.35E-08	1.22E-06	Rasa3
412.313	205.015	7072.6907	3143.7506	-4.049229582	3.46E-08	1.26E-06	Thbs1
122.552	73.9836	367.44635	343.88583	-1.860782445	3.80E-08	1.38E-06	Lair1
8.30858	14.2619	124.21945	87.800636	-3.222851124	4.43E-08	1.59E-06	Cacna1h
683.381	738.053	1324.7179	1581.6309	-1.030608688	4.44E-08	1.59E-06	Spty2d1
535.903	617.718	1125.7931	1295.0594	-1.067832028	4.56E-08	1.62E-06	Trio
81.0086	96.2678	260.60025	324.37457	-1.718232898	5.10E-08	1.80E-06	Ebi3
1308.6	1093.71	2265.4848	2341.3503	-0.939768914	5.72E-08	1.99E-06	Ctla2a
68.5458	43.6771	218.90421	241.45175	-2.041179761	5.80E-08	2.01E-06	Rab11fip5
869.285	656.939	1586.1868	1756.0127	-1.131369016	6.10E-08	2.11E-06	Rnf130
72.7001	188.97	542.04852	778.01119	-2.330085763	6.36E-08	2.19E-06	Syt12
18.6943	28.5238	114.66411	248.76847	-2.934280741	6.58E-08	2.26E-06	Rcn3
10579.9	10085.8	16479.491	17639.392	-0.723297033	6.86E-08	2.34E-06	Fxyd5
40.5043	16.0446	170.25883	204.86815	-2.740529996	7.07E-08	2.40E-06	Erg
19.7329	8.02232	149.41081	102.43408	-3.200762278	7.15E-08	2.42E-06	Tbc1d9
8.30858	3.56547	193.71285	53.655944	-4.403617301	7.86E-08	2.64E-06	Lilra6
645.992	797.775	1450.6747	1488.9525	-1.024797526	7.88E-08	2.64E-06	Plcg2
204.599	306.631	706.22667	679.23548	-1.436209083	7.91E-08	2.64E-06	Klk8
2217.35	3480.79	6317.8187	8352.0355	-1.363870201	8.06E-08	2.68E-06	Birc2
12.4629	10.6964	92.078754	95.117356	-3.018232673	8.24E-08	2.72E-06	Adamts11
104.896	146.184	997.23028	362.17762	-2.437203962	8.55E-08	2.82E-06	Oasl2
384.272	409.138	796.56809	1048.7298	-1.215829699	8.59E-08	2.83E-06	Naga
22646.1	21743.2	35636.215	41952.851	-0.805604181	9.21E-08	3.00E-06	Rps3a1
244.065	122.118	1083.2284	570.70414	-2.178840149	9.42E-08	3.06E-06	Prkar2b
514.093	620.393	1130.1364	1467.0023	-1.193095031	9.52E-08	3.09E-06	Agrn
95.5487	47.2425	316.19497	301.20496	-2.118828476	9.83E-08	3.18E-06	Hhex
3111.56	3802.58	6176.2259	6850.8885	-0.913536036	9.87E-08	3.18E-06	Tmem30a
140.207	137.271	362.23435	356.08036	-1.372682801	1.01E-07	3.26E-06	Tmem158
28.0415	13.3705	158.09748	124.38423	-2.784109011	1.02E-07	3.28E-06	Hs6st2
66.4686	128.357	377.87036	381.68888	-1.957900815	1.02E-07	3.28E-06	Slc41a2
566.022	646.242	1149.2471	1313.3512	-1.021044707	1.03E-07	3.31E-06	AC153368.1
398.812	630.198	1825.9391	1231.6478	-1.570824851	1.04E-07	3.31E-06	Ntrk3
157.863	236.213	512.51382	718.25798	-1.639208017	1.11E-07	3.52E-06	Trib3
1910.97	2301.51	3763.9363	4282.7199	-0.933130096	1.12E-07	3.54E-06	Chsy1
23697.1	27871.3	49424.574	43510.093	-0.849730227	1.17E-07	3.69E-06	B2m
679.226	537.495	1525.3801	1217.0144	-1.174170111	1.26E-07	3.94E-06	Pdlim5
18.6943	15.1533	337.91166	79.264463	-3.629858239	1.29E-07	4.04E-06	Cxcl3
902.519	804.015	1779.8997	1538.95	-0.96076398	1.32E-07	4.10E-06	Gns
8.30858	17.8274	106.8461	108.53134	-3.027303499	1.35E-07	4.21E-06	Il12a
359.346	417.161	788.75009	852.39784	-1.078045956	1.45E-07	4.46E-06	Acsbg1
180.712	201.449	1068.461	473.14787	-2.013612803	1.45E-07	4.46E-06	Kit
254.45	548.192	1251.7499	1620.6534	-1.837413624	1.45E-07	4.46E-06	Galc

3469.87	3733.94	5975.5637	5959.4682	-0.728259329	1.46E-07	4.48E-06	Tspo
5.19286	8.91369	67.756065	101.21462	-3.564759454	1.47E-07	4.50E-06	Prss12
1365.72	1633.88	2692.8692	3033.9998	-0.93221017	1.49E-07	4.56E-06	Msmo1
163.056	114.987	382.2137	426.80865	-1.543030577	1.50E-07	4.57E-06	H2-DMb1
6.23143	8.91369	68.624732	98.775716	-3.453509421	1.57E-07	4.77E-06	Gm13522
1782.19	1774.72	3008.1955	3735.1854	-0.922309715	1.60E-07	4.85E-06	Gm15500
40.5043	59.7217	174.60217	517.04819	-2.781125617	1.68E-07	5.07E-06	Tmem108
4145.98	6223.54	10736.73	14952.936	-1.3085958	1.69E-07	5.07E-06	Tgm2
1089.46	1163.24	1941.4719	2043.8037	-0.822493504	1.82E-07	5.44E-06	Plgrkt
3457.41	4152.89	6894.6139	9834.8907	-1.136025346	1.84E-07	5.47E-06	Sipa111
61.2758	79.3318	218.90421	275.59644	-1.808993855	1.84E-07	5.48E-06	Stard9
1213.05	1240.79	2070.0346	2185.2603	-0.793843785	2.16E-07	6.35E-06	Tmbim4
61.2758	109.638	349.20433	296.32715	-1.913233518	2.25E-07	6.59E-06	Fam110c
1685.6	2468.2	4447.5776	4571.7303	-1.11812394	2.38E-07	6.95E-06	Capn2
3988.12	3968.37	6522.8242	6300.9151	-0.688700562	2.51E-07	7.30E-06	Sqstm1
15.5786	7.13095	117.27011	85.36173	-3.176246286	2.55E-07	7.41E-06	Casp12
405.043	772.817	1600.0855	1952.3447	-1.591116199	2.64E-07	7.64E-06	Ikzf2
4164.68	8290.62	17786.836	17547.933	-1.504194759	2.71E-07	7.82E-06	Sell
112.166	187.187	620.22859	419.49193	-1.795026853	2.84E-07	8.16E-06	Mical2
276.26	599	1446.3314	1470.6607	-1.735069824	2.94E-07	8.44E-06	Tmtc2
32.1957	11.5878	155.49148	149.99275	-2.817001383	2.96E-07	8.48E-06	Cd300lb
1333.53	1665.08	2759.7566	3627.8735	-1.090133513	2.98E-07	8.52E-06	Gpr146
5.19286	13.3705	88.604084	96.336809	-3.295613382	3.02E-07	8.62E-06	Gm15473
1841.39	2174.94	3493.7807	4288.8172	-0.953711376	3.03E-07	8.62E-06	Tubb6
4000.58	5689.61	9478.031	13344.477	-1.235590925	3.13E-07	8.91E-06	Socs3
149.554	141.728	343.99233	401.20013	-1.354105139	3.20E-07	9.09E-06	Nt5dc2
373.886	429.64	787.01275	981.65989	-1.136135536	3.21E-07	9.09E-06	Acp5
7468.37	12065.6	23547.838	21795.288	-1.214823032	3.26E-07	9.18E-06	Nabp1
7868.22	12341.9	22376.875	22918.405	-1.164185258	3.38E-07	9.47E-06	Ccr7
232.64	213.928	972.03893	506.07311	-1.729151896	3.48E-07	9.72E-06	Cma1
143.323	278.107	702.752	671.91876	-1.702972633	3.55E-07	9.90E-06	Nmrk1
71.6615	64.1785	224.11621	210.96542	-1.681619526	3.64E-07	1.01E-05	B3gnt8
12.4629	16.0446	96.422092	95.117356	-2.742891152	4.11E-07	1.13E-05	As3mt
2674.32	2538.62	4250.3901	5177.7986	-0.85457195	4.11E-07	1.13E-05	Osbpl8
125.667	164.012	370.92102	1109.7025	-2.35108483	4.38E-07	1.19E-05	Slc37a2
900.442	1534.05	2850.9667	3397.3968	-1.359007977	4.44E-07	1.21E-05	Pde4b
0	0.89137	85.129414	109.7508	-7.665090052	4.47E-07	1.21E-05	Aqp8
8871.49	10725.8	16736.617	21536.764	-0.965532476	4.61E-07	1.25E-05	Sdf4
449.702	672.092	1262.1739	1371.8849	-1.22990728	4.68E-07	1.26E-05	Osbpl3
2072.99	2380.85	3732.6642	4371.74	-0.863076251	4.95E-07	1.33E-05	Mier1
20.7714	5.34821	148.54214	106.09244	-3.307396103	5.07E-07	1.36E-05	Hck
176.557	235.321	476.89845	580.45976	-1.356763846	5.08E-07	1.36E-05	Kctd12
83.0858	82.8973	236.27756	248.76847	-1.546474401	5.18E-07	1.38E-05	Cxxc5
66.4686	151.533	380.47636	582.89867	-2.138263284	5.20E-07	1.38E-05	Wispl
173.442	422.509	1082.3597	1119.4581	-1.883220802	5.45E-07	1.44E-05	Myo1e

29.08	24.9583	121.61345	131.70095	-2.230644879	5.93E-07	1.56E-05	Selenbp1
39.4658	76.6577	627.17793	191.45417	-2.816157022	5.97E-07	1.57E-05	Rsad2
719.731	1242.57	3895.9737	2234.0384	-1.643228187	6.16E-07	1.61E-05	Slc15a3
119.436	147.967	436.07108	324.37457	-1.508334973	6.20E-07	1.62E-05	Itga2
45.6972	34.7634	246.70157	139.01767	-2.268497161	6.77E-07	1.76E-05	Gmpr
671.956	1350.42	3611.9194	2596.216	-1.617683888	6.99E-07	1.81E-05	Ccl5
14.54	26.7411	125.08812	117.06751	-2.542669982	7.08E-07	1.84E-05	1700012B09Rik
21.81	4.45684	218.03554	97.556262	-3.608388119	7.15E-07	1.85E-05	Csflr
29.08	37.4375	123.35078	221.9405	-2.368437295	7.24E-07	1.87E-05	Foxp3
10.3857	15.1533	94.684757	86.581183	-2.820135077	7.25E-07	1.87E-05	C2cd4b
6.23143	20.5015	160.70349	93.897903	-3.236957213	7.26E-07	1.87E-05	Dll4
1361.57	1633.88	3034.2556	2594.9966	-0.910213995	7.49E-07	1.93E-05	E330009J07Rik
1066.61	1129.36	1828.5451	2090.1429	-0.834670324	7.69E-07	1.97E-05	Tnfaip8l2
117.359	144.402	317.06364	457.29498	-1.560489765	7.81E-07	1.99E-05	Acsf2
32.1957	34.7634	108.58344	486.56186	-3.148339652	7.91E-07	2.01E-05	Igsf23
29.08	30.3065	292.74095	107.31189	-2.755820141	7.93E-07	2.01E-05	Nrip3
46.7358	22.2842	1979.6932	481.68405	-5.158570089	8.39E-07	2.12E-05	Il1b
83.0858	173.817	382.2137	875.56746	-2.287311857	9.12E-07	2.29E-05	Gm19705
23.8872	44.5684	160.70349	163.40674	-2.234684908	9.22E-07	2.31E-05	Gipr
20.7714	32.9806	118.13878	158.52893	-2.353877685	9.69E-07	2.42E-05	Sgip1
54493.9	57826.7	88459.886	85545.867	-0.631512353	9.72E-07	2.42E-05	Tmsb4x
206.676	350.308	943.3729	688.9911	-1.550288903	9.75E-07	2.42E-05	Kctd11
6331.14	7273.57	10933.049	11789.674	-0.73985531	9.93E-07	2.46E-05	Ddit4
96.5872	41.8943	489.92847	243.89066	-2.412777964	9.94E-07	2.46E-05	Rgs18
389.465	594.543	1066.7237	1565.778	-1.417680012	1.01E-06	2.48E-05	Pck2
10.3857	33.872	117.27011	281.69371	-3.157913044	1.02E-06	2.51E-05	Ripor3
892.134	983.18	1594.8735	1740.1598	-0.829694065	1.03E-06	2.52E-05	Iqsec1
14.54	6.23958	96.422092	81.70337	-3.118697849	1.04E-06	2.54E-05	Oit3
159.94	273.65	577.66388	668.2604	-1.519485472	1.05E-06	2.57E-05	Nol4l
203.56	295.043	567.23987	754.84158	-1.40353427	1.08E-06	2.62E-05	Nbeal1
2359.64	1870.98	3703.1295	4231.5029	-0.907384207	1.12E-06	2.70E-05	Slc48a1
35.3115	10.6964	192.84418	139.01767	-2.865812745	1.18E-06	2.84E-05	Lpcat2
58.1601	71.3095	188.50085	256.08519	-1.774508857	1.19E-06	2.86E-05	Tmem205
43.62	43.6771	139.85547	248.76847	-2.150081485	1.19E-06	2.87E-05	Slc9a2
1303.41	1080.34	2169.9314	2130.3849	-0.851843531	1.20E-06	2.89E-05	Ifitm2
32.1957	31.1979	115.53278	187.79581	-2.254584334	1.21E-06	2.90E-05	Sptal
1943.17	2937.06	4818.4986	6650.8982	-1.232256049	1.23E-06	2.94E-05	Lamc1
38.4272	24.067	205.8742	120.72587	-2.395611046	1.27E-06	3.01E-05	Bear3
1909.93	1494.83	3049.0229	3336.4242	-0.907469552	1.28E-06	3.03E-05	Rin3
2661.86	3076.11	4690.8045	5586.3155	-0.840341086	1.29E-06	3.05E-05	Cmip
105.934	259.388	577.66388	965.807	-2.075296541	1.36E-06	3.20E-05	App12
27.0029	17.8274	306.63963	85.36173	-3.136657713	1.37E-06	3.22E-05	Oasl1
1430.11	1222.07	2281.1208	2358.4226	-0.80712848	1.48E-06	3.44E-05	Vat1
5730.84	9198.03	15226.004	18869.82	-1.191324139	1.53E-06	3.54E-05	Traf1
21.81	18.7187	104.2401	104.87298	-2.370140389	1.56E-06	3.62E-05	Osgin1

913.944	1125.8	1945.8152	1830.3994	-0.888156651	1.58E-06	3.66E-05	Chst12
3.11572	22.2842	212.82354	104.87298	-3.626980523	1.60E-06	3.69E-05	Gad1
3250.73	3013.72	5014.8174	6422.8604	-0.868268588	1.62E-06	3.74E-05	Rpl21
99.703	177.382	379.6077	573.14304	-1.776941959	1.65E-06	3.79E-05	Lamc2
663.648	747.858	1235.2452	1574.3142	-0.991607066	1.68E-06	3.85E-05	Gale
240.949	155.098	489.0598	570.70414	-1.421756251	1.73E-06	3.95E-05	Blvrb
49.8515	88.2455	220.64154	315.8384	-1.950608447	1.77E-06	4.04E-05	B430306N03Rik
1093.62	1937.84	3379.9852	4479.0519	-1.373627668	1.79E-06	4.07E-05	Bend4
606.526	493.818	1069.3297	1057.266	-0.95167962	1.79E-06	4.07E-05	Pag1
158.902	168.469	354.41634	495.09803	-1.372654887	1.80E-06	4.10E-05	Abcb4
1450.89	2151.76	3612.7881	3941.273	-1.067598937	1.84E-06	4.18E-05	Lrrc8c
759.196	930.589	1538.4101	1599.9227	-0.892220825	1.85E-06	4.18E-05	Fam126a
1199.55	1227.41	1961.4512	2084.0457	-0.736742261	1.87E-06	4.23E-05	Rnasel
44.6586	17.8274	207.61153	146.33439	-2.514021325	1.92E-06	4.34E-05	Gda
33.2343	15.1533	292.74095	98.775716	-3.027761344	1.96E-06	4.40E-05	Cxcl2
1722.99	2215.94	3455.5593	4002.2457	-0.920295431	1.99E-06	4.46E-05	D16Ertd472e
609.642	388.637	1366.414	1082.8745	-1.296825287	2.01E-06	4.50E-05	Napsa
10.3857	29.4152	109.4521	179.25963	-2.842897134	2.05E-06	4.59E-05	Gm19345
54.0058	94.4851	235.40889	301.20496	-1.846792097	2.07E-06	4.60E-05	Zfp768
7.27001	8.02232	206.74286	39.022505	-4.0096227	2.07E-06	4.60E-05	Tlr13
2.07714	10.6964	71.230735	93.897903	-3.659697521	2.08E-06	4.63E-05	Gm43636
212.907	107.856	634.12727	456.07553	-1.769340148	2.12E-06	4.69E-05	Dtx4
93.4715	401.116	6755.6271	4329.0591	-4.485607045	2.28E-06	5.02E-05	Serpinb9b
230.563	234.43	464.73711	653.62696	-1.263696174	2.30E-06	5.04E-05	Gsap
20.7714	2.67411	168.52149	109.7508	-3.593345873	2.32E-06	5.09E-05	Lyz2
682.342	688.137	1159.6711	1415.7853	-0.908995594	2.36E-06	5.16E-05	Gm12715
64.3915	71.3095	185.89484	253.64628	-1.691242661	2.36E-06	5.16E-05	Manscl
415.429	672.983	1198.7611	1487.733	-1.301693724	2.38E-06	5.19E-05	Usp35
3308.89	3467.42	6090.2278	5214.3822	-0.738571965	2.39E-06	5.20E-05	Zyx
1.03857	4.45684	108.58344	35.364145	-4.680658721	2.48E-06	5.37E-05	Tpsb2
670.918	535.713	1421.14	1106.0441	-1.068356665	2.50E-06	5.42E-05	Mindy1
4217.64	4920.36	7375.8557	7728.8949	-0.72482715	2.51E-06	5.42E-05	Dock10
97.6258	113.204	310.98296	257.30464	-1.430980845	2.56E-06	5.52E-05	Tcp11l1
12206.3	13407.1	20130.501	26388.969	-0.860819932	2.56E-06	5.52E-05	Cd53
1950.44	2477.11	3819.531	4285.1588	-0.871685717	2.58E-06	5.54E-05	Pkp3
649.108	549.974	1471.5227	1076.7772	-1.089373493	2.59E-06	5.54E-05	Dapp1
231.602	161.338	470.81778	496.31749	-1.301557296	2.59E-06	5.54E-05	Evi2a
5085.89	6919.69	10628.147	12704.264	-0.958398178	2.59E-06	5.54E-05	Fosl2
19.7329	28.5238	114.66411	117.06751	-2.257107737	2.59E-06	5.54E-05	Tlr4
194.213	275.433	622.83459	523.14546	-1.285935944	2.61E-06	5.57E-05	Gm29216
1422.84	1814.83	2940.4395	5163.1652	-1.322949057	2.65E-06	5.64E-05	2410006H16Rik
122.552	133.705	290.13494	423.15029	-1.473228897	2.79E-06	5.91E-05	Smpdl3a
3.11572	2.67411	70.362067	40.241958	-4.265923166	2.82E-06	5.95E-05	Clec4a1
49.8515	53.4821	150.27948	263.40191	-1.996275226	2.85E-06	6.00E-05	H2-Ob
5.19286	12.4792	62.54406	112.1897	-3.284177541	2.93E-06	6.14E-05	Gdf15

3492.72	3745.53	5786.1942	7909.374	-0.919632774	2.98E-06	6.24E-05	Rabac1
3978.77	5999.8	9418.9616	13005.469	-1.167902556	3.00E-06	6.27E-05	Il12rb2
67.5072	56.1562	262.33758	171.94291	-1.817812068	3.02E-06	6.31E-05	Creb3l1
17.6557	20.5015	90.341419	110.97025	-2.394152987	3.05E-06	6.37E-05	Trim6
2184.12	2151.76	3356.5312	3502.2698	-0.661505034	3.06E-06	6.37E-05	Inpp5d
2576.7	3090.38	4643.0278	5752.1611	-0.874733122	3.21E-06	6.66E-05	Flot1
43496.5	48150	70201.364	71700.195	-0.630722762	3.22E-06	6.66E-05	H2-D1
49.8515	34.7634	162.44082	153.65111	-1.907044184	3.22E-06	6.66E-05	Ttc12
2518.54	5267.1	10138.218	10849.476	-1.43042808	3.34E-06	6.87E-05	Rbpj
12.4629	26.7411	99.896762	140.23713	-2.600627007	3.39E-06	6.97E-05	Ovol2
1322.1	1701.62	3146.3137	2635.2385	-0.935080644	3.41E-06	6.99E-05	Eif2ak3
19.7329	2.67411	170.25883	96.336809	-3.59724125	3.44E-06	7.04E-05	Pilra
172.403	289.695	563.7652	703.62454	-1.452219034	3.48E-06	7.12E-05	Ifngr2
254.45	240.67	503.82715	503.6342	-1.025367938	3.60E-06	7.36E-05	Mob3c
338.575	320.001	624.57193	643.87133	-0.94576387	3.78E-06	7.72E-05	Plod1
4.15429	2.67411	59.938057	46.339225	-3.976827613	3.86E-06	7.85E-05	l-Mar
27.0029	16.0446	122.48212	101.21462	-2.388114036	3.97E-06	8.06E-05	Batf2
132.937	109.638	515.11982	279.2548	-1.715555773	4.01E-06	8.13E-05	Slc6a9
6371.64	9775.64	15247.721	20062.445	-1.128628459	4.02E-06	8.14E-05	Rpl17
131.899	163.12	353.54767	349.98309	-1.25187913	4.23E-06	8.50E-05	Tirap
131.899	222.842	433.46508	668.2604	-1.630792736	4.24E-06	8.50E-05	Sipa1l2
545.251	499.166	905.15153	1085.3134	-0.929657833	4.24E-06	8.50E-05	AI413582
8.30858	6.23958	95.553424	49.997585	-3.334870527	4.38E-06	8.76E-05	Clec5a
73.7386	145.293	334.43699	404.85849	-1.749707287	4.47E-06	8.92E-05	Jdp2
11.4243	8.02232	85.998082	63.411571	-2.952905157	4.48E-06	8.92E-05	Fmn12
2032.49	4331.16	16262.324	22069.665	-2.59053264	4.50E-06	8.95E-05	Serpinb6b
32.1957	25.8497	112.05811	134.13986	-2.086029307	4.59E-06	9.09E-05	Rapsn
195.252	285.238	519.46316	832.88659	-1.489548218	4.60E-06	9.10E-05	Tsc22d3
12.4629	16.0446	84.260747	85.36173	-2.567549349	4.69E-06	9.26E-05	Zfp683
1261.87	1699.84	2701.5559	2898.6404	-0.918340329	4.76E-06	9.39E-05	Lss
2906.96	3536.06	5244.1457	6491.1498	-0.864590811	4.90E-06	9.64E-05	Crybg1
1650.29	1930.7	2996.9029	2990.0994	-0.74111628	4.92E-06	9.66E-05	Rab5b
506.823	680.114	1117.1064	1763.3294	-1.277299828	5.12E-06	0.0001	Sla2
127.744	61.5044	364.84035	304.86332	-1.829026967	5.22E-06	0.000101	Slc41a3
495.399	237.995	1227.4272	960.92919	-1.579415482	5.32E-06	0.000103	Ncf2
1787.38	2288.14	3690.0995	3558.3647	-0.830371009	5.33E-06	0.000103	Hacd3
28.0415	11.5878	122.48212	110.97025	-2.572273346	5.37E-06	0.000103	Fkbp9
117.359	46.3512	285.79161	421.93084	-2.115876206	5.42E-06	0.000104	Vill
1043.77	1879.01	3163.687	4146.1412	-1.32176234	5.46E-06	0.000105	Camk4
146.439	232.647	1025.8963	428.0281	-1.939599514	5.47E-06	0.000105	Lrp1
86.2015	201.449	408.27372	820.69206	-2.090834015	5.58E-06	0.000106	Cxcr6
246.142	97.1592	930.34289	503.6342	-2.066206121	5.58E-06	0.000106	Ccr1
1413.5	1635.66	2572.9931	4033.9515	-1.114809496	5.59E-06	0.000107	Tpt1-ps3
808.009	935.937	1465.4421	1613.3367	-0.818928534	5.72E-06	0.000109	Mxi1
97.6258	93.5937	225.85355	449.97826	-1.818344119	5.73E-06	0.000109	Prdm1



83.0858	156.881	360.49701	391.4445	-1.643206288	5.80E-06	0.00011	Siah3
887.979	931.48	1487.1588	1536.5111	-0.732351658	6.01E-06	0.000113	Zc3h12a
1947.32	2068.87	3088.9816	3331.5464	-0.676437043	6.03E-06	0.000113	Cep85
1739.61	1779.17	2823.1694	4007.1235	-0.956238808	6.10E-06	0.000114	Nxpe3
822.549	884.238	1560.9955	1387.7378	-0.789208251	6.12E-06	0.000115	Hopx
2141.54	3014.61	4590.039	6798.452	-1.142706044	6.43E-06	0.00012	mt-Rnr1
3728.47	4720.69	6965.8446	8074.0002	-0.831577206	6.52E-06	0.000121	Cds2
37085.3	38775.4	59773.879	91628.5	-0.996929654	6.57E-06	0.000122	Tpt1
630.413	260.28	1638.3069	1259.6952	-1.703824438	6.58E-06	0.000122	Creg1
42.5815	33.872	456.05043	102.43408	-2.873494308	6.66E-06	0.000123	Ptgs1
122.552	211.254	1005.917	386.56669	-2.060575408	6.79E-06	0.000125	Usp18
1.03857	2.67411	64.281395	35.364145	-4.719880025	6.86E-06	0.000126	Rnf150
22.8486	18.7187	84.260747	134.13986	-2.392227346	6.87E-06	0.000126	Abcc3
15.5786	4.45684	110.32077	71.947744	-3.209197948	6.94E-06	0.000127	Layn
1683.53	2371.04	3618.0001	5174.1403	-1.116022968	6.96E-06	0.000127	Ifngr1
4211.41	4503.19	6551.4902	6869.1803	-0.622764402	7.01E-06	0.000128	Atf4
30.1186	16.936	132.90613	102.43408	-2.333534231	7.04E-06	0.000128	Rbpms
155.786	95.3764	341.38633	360.95817	-1.486867993	7.12E-06	0.00013	Rassf4
90.3558	68.6354	218.03554	232.91558	-1.506445685	7.35E-06	0.000133	Ctsl
418.545	253.149	1572.2882	710.94126	-1.767365011	7.36E-06	0.000133	Cfp
68.5458	49.9166	165.91549	242.6712	-1.786367761	8.01E-06	0.000144	Slc52a3
7.27001	1.78274	52.988717	68.289384	-3.774723715	8.22E-06	0.000147	Entpd3
8794.63	9077.7	13191.585	15841.918	-0.699841052	8.55E-06	0.000152	Rps27
18601.9	23592.7	37746.209	34373.949	-0.773325427	8.58E-06	0.000153	Ly6a
2385.6	3014.61	4444.1029	5555.8291	-0.888369793	8.59E-06	0.000153	Dgkd
3.11572	0	85.129414	31.705785	-5.307380392	8.84E-06	0.000157	Fpr1
6.23143	4.45684	45.17071	73.167197	-3.472869218	8.88E-06	0.000157	Slc8a1
41.5429	69.5268	164.17816	289.01043	-2.020802278	8.94E-06	0.000158	2410004P03Rik
40.5043	55.2649	150.27948	179.25963	-1.776823817	8.95E-06	0.000158	Lst1
11.4243	14.2619	164.17816	54.875398	-3.094508772	8.98E-06	0.000158	Ifi204
7.27001	2.67411	58.200722	57.314304	-3.563567399	9.19E-06	0.000162	Dbn1
2079.22	2100.96	3458.1653	3144.97	-0.659906118	9.25E-06	0.000162	B4galt1
0	0	32.140697	35.364145	-7.574383079	9.36E-06	0.000164	Hoxa10
488.129	900.282	1666.9729	1738.9404	-1.293434225	9.56E-06	0.000167	AA467197
2048.06	2457.5	3660.5648	5176.5792	-0.971261978	9.85E-06	0.000171	Lfng
1698.07	583.846	10040.928	9632.4615	-3.108123817	1.02E-05	0.000176	Cyp11a1
3882.18	5957.02	9004.6073	12134.78	-1.103051336	1.03E-05	0.000177	Emb
168.249	401.116	909.49487	892.6398	-1.660121462	1.03E-05	0.000178	Klrd1
44.6586	57.0476	453.44443	129.26205	-2.520039554	1.07E-05	0.000184	Rtp4
75.8158	116.769	246.70157	336.56911	-1.592891021	1.07E-05	0.000184	Hpse
61.2758	13.3705	385.68837	170.72346	-2.908118597	1.07E-05	0.000184	Cd300lf
29.08	14.2619	93.816089	147.55385	-2.483830668	1.07E-05	0.000184	Mylip
1031.3	1050.03	1681.7403	2392.5673	-0.968065446	1.08E-05	0.000185	Clip2
69.5844	101.616	231.06555	262.18246	-1.521635027	1.08E-05	0.000185	Fdps
203.56	383.289	962.48358	696.30782	-1.498016933	1.09E-05	0.000187	Tpbg

2266.17	2753.44	4183.5027	4164.433	-0.733551327	1.10E-05	0.000188	Cflar
27.0029	17.8274	122.48212	92.678449	-2.272491594	1.11E-05	0.00019	Cadm3
3.11572	0.89137	63.412727	34.144692	-4.650181257	1.13E-05	0.000192	Gm13053
7816.3	8386	12934.459	22256.242	-1.118860099	1.17E-05	0.000198	Ablim1
2876.85	4612.83	8668.4329	7188.6771	-1.082032777	1.20E-05	0.000203	Mxd1
2408.45	2626.86	4004.5572	6148.4834	-1.011276611	1.23E-05	0.000207	Stk17b
760.235	1377.16	2705.0306	2358.4226	-1.243710386	1.24E-05	0.000208	Arl14ep
1627.44	2131.26	3218.4131	5607.0462	-1.230829096	1.24E-05	0.000209	Gatsl3
2197.62	3122.46	4869.75	5100.9731	-0.905858751	1.29E-05	0.000214	Fam129a
1199.55	1110.65	1984.0366	1807.2298	-0.715421532	1.30E-05	0.000215	BC037034
637.683	562.454	1004.1796	1193.8448	-0.872523778	1.30E-05	0.000216	Cerk
236.795	162.229	485.58513	449.97826	-1.232423867	1.32E-05	0.000219	Tbc1d8
96.5872	53.4821	241.48956	242.6712	-1.695119057	1.34E-05	0.000221	Dynl1c
9.34715	7.13095	116.40144	43.900318	-3.293851506	1.34E-05	0.000222	Cd180
34.2729	56.1562	136.3808	253.64628	-2.100234957	1.36E-05	0.000224	Extl1
39.4658	10.6964	213.6922	123.16478	-2.761433514	1.37E-05	0.000226	Pilrb1
5892.86	9910.24	16130.287	17340.626	-1.082567974	1.37E-05	0.000226	Lama5
292.877	135.488	651.50062	632.89625	-1.587057074	1.39E-05	0.000228	Pglyrp1
5.19286	16.936	74.705405	103.65353	-2.989515443	1.41E-05	0.000231	Sell13
13512.9	15935	22558.426	24397.602	-0.673059744	1.43E-05	0.000234	H2-T23
5.19286	8.02232	77.311407	47.558678	-3.234618892	1.43E-05	0.000234	Hrc
1636.79	2605.47	4145.2813	4671.7255	-1.054934372	1.44E-05	0.000235	AW112010
871.362	951.09	1459.3614	1884.0553	-0.874189088	1.47E-05	0.000239	Ndufa6
117.359	73.9836	322.27564	245.11011	-1.573955339	1.53E-05	0.000247	Fam174b
3642.27	3635	6513.2689	5368.0333	-0.707545035	1.54E-05	0.000249	Plek
1210.98	2305.97	3811.713	4792.4514	-1.290117603	1.55E-05	0.000249	Espn
813.202	1050.92	1636.5696	3660.7987	-1.505899798	1.55E-05	0.00025	Trib2
96.5872	131.031	306.63963	273.15753	-1.34720438	1.56E-05	0.000251	Wls
734.271	631.089	1436.776	1132.8721	-0.913926006	1.56E-05	0.000252	Nt5c3
119.436	171.143	419.5664	326.81348	-1.360204652	1.58E-05	0.000253	Phlda1
348.96	421.617	689.72199	947.5152	-1.084774584	1.60E-05	0.000256	Spata6
27.0029	47.2425	139.85547	151.21221	-1.963116104	1.60E-05	0.000256	Rgs8
81.0086	65.0699	226.72222	187.79581	-1.50930682	1.61E-05	0.000257	Ms4a6d
43015.6	50624.4	71314.995	76268.267	-0.656305763	1.61E-05	0.000257	H2-K1
27.0029	39.2202	103.37143	221.9405	-2.287817038	1.65E-05	0.000262	Smim24
423.738	884.238	3159.3437	5368.0333	-2.704386875	1.72E-05	0.000272	Gzma
15.5786	1.78274	81.654745	114.62861	-3.524082782	1.72E-05	0.000273	Csrp3
743.618	954.656	1461.0987	1685.2844	-0.888312802	1.73E-05	0.000273	Zfp52
50.89	67.744	177.20817	180.47909	-1.588393361	1.74E-05	0.000275	Zfp945
736.348	1050.92	1814.6464	1673.0899	-0.963923087	1.75E-05	0.000275	Fam214b
1489.31	1786.3	2603.3965	3224.2345	-0.830303842	1.83E-05	0.000288	Mtmt6
152.67	65.9613	511.64515	312.18004	-1.919311699	1.84E-05	0.000288	Ly11
13.5014	50.808	200.66219	170.72346	-2.519911655	1.85E-05	0.00029	Il22
34.2729	39.2202	316.19497	98.775716	-2.500362643	1.87E-05	0.000293	Oas2
896.288	1219.39	1851.1304	3868.1058	-1.433837534	1.89E-05	0.000295	Ctsw

20.7714	4.45684	106.8461	97.556262	-3.038951934	1.89E-05	0.000295	Gna14
549.405	723.791	1216.1345	1168.2362	-0.904309405	1.91E-05	0.000298	Tmbim1
1959.79	2244.47	3228.8371	3709.5769	-0.722138403	1.93E-05	0.0003	Osbpl9
6.23143	12.4792	62.54406	76.825557	-2.880650023	1.99E-05	0.000307	Mamdc2
997.03	982.288	1541.0161	1638.9452	-0.683668299	2.03E-05	0.000314	Vps13c
48.8129	93.5937	207.61153	297.5466	-1.819519869	2.06E-05	0.000318	Bspry
119.436	180.948	377.87036	365.83598	-1.30510792	2.07E-05	0.000318	Aifm2
2.07714	6.23958	34.7467	91.458996	-3.893081362	2.16E-05	0.00033	Gm27162
3990.2	5228.77	7593.8912	8369.1079	-0.79177803	2.16E-05	0.00033	Igf2r
2825.96	3529.82	5038.2715	6405.7881	-0.847989553	2.16E-05	0.00033	Unc119b
301.186	346.742	578.53255	703.62454	-0.982253764	2.17E-05	0.000332	Mgat4a
113.204	32.9806	350.073	319.49676	-2.201684381	2.20E-05	0.000335	Card9
104.896	73.9836	233.67156	247.54902	-1.430674684	2.24E-05	0.00034	Man1c1
1.03857	0.89137	61.675392	28.047425	-5.551504047	2.25E-05	0.000341	Fcgr1
952.371	820.059	1461.0987	1513.3415	-0.747278393	2.25E-05	0.000341	Plxnd1
338.575	485.796	787.01275	997.51278	-1.111782401	2.28E-05	0.000345	Klhl22
6.23143	6.23958	54.726052	53.655944	-3.11967808	2.30E-05	0.000347	Fzd4
31.1572	32.0893	96.422092	184.13745	-2.143807893	2.30E-05	0.000347	Itgb5
233.679	218.385	438.67708	451.19771	-0.977348782	2.31E-05	0.000348	Slc8b1
433.085	508.08	809.59811	1190.1864	-1.085213423	2.31E-05	0.000348	Prickle3
27.0029	98.9419	681.03532	1435.2965	-4.06837958	2.34E-05	0.000352	Ccdc184
322.996	733.596	3723.1089	2625.4829	-2.586662866	2.35E-05	0.000352	Gzmc
43.62	22.2842	300.55895	98.775716	-2.608264582	2.37E-05	0.000355	Lpl
39.4658	44.5684	203.26819	117.06751	-1.933702996	2.41E-05	0.000361	F11r
55.0443	76.6577	178.07684	214.62378	-1.570517209	2.48E-05	0.000369	Gipc3
32.1957	6.23958	566.37121	315.8384	-4.527421734	2.48E-05	0.00037	Pirb
35.3115	83.7887	231.06555	226.81831	-1.936187425	2.49E-05	0.000371	Wnt10b
3084.56	3093.94	4675.1685	4527.83	-0.574940438	2.50E-05	0.000371	Ehbp111
22.8486	92.7023	302.29629	295.10769	-2.363260904	2.54E-05	0.000375	Gent2
143.323	123.9	312.7203	290.22988	-1.17634077	2.54E-05	0.000376	Hsd17b11
282.492	316.436	533.36184	729.23306	-1.073264507	2.55E-05	0.000377	Nat9
1506.97	2004.69	3611.9194	2916.9322	-0.894667034	2.59E-05	0.000382	Gpr171
1.03857	0.89137	53.857385	30.486332	-5.46125653	2.61E-05	0.000383	Il1f9
19.7329	10.6964	91.210087	78.04501	-2.488096186	2.61E-05	0.000383	Slc25a43
1.03857	8.02232	41.69604	99.995169	-3.92860794	2.62E-05	0.000384	Gm44659
2936.04	3611.83	5238.9337	8687.3852	-1.088332766	2.62E-05	0.000384	Tecpr1
661.571	1046.47	1725.1736	1810.8881	-1.048763924	2.73E-05	0.000398	Elovl6
2667.05	3249.04	4685.5925	4960.7359	-0.704965639	2.74E-05	0.000398	Pbxip1
614.835	820.059	1240.4572	1838.9355	-1.100092648	2.76E-05	0.000401	Suox
8737.51	9647.28	13705.836	18802.75	-0.822145007	2.77E-05	0.000402	Selplg
1537.09	1899.51	2878.7641	2844.9845	-0.735579981	2.82E-05	0.000407	Dennd4a
7.27001	18.7187	55.59472	178.04018	-3.151889688	2.86E-05	0.000412	Prrt1
1706.37	795.992	10315.427	6019.2214	-2.706765188	2.86E-05	0.000412	F2r
1848.66	1920.9	4908.84	2949.8575	-1.060381699	2.89E-05	0.000415	Grn
594.063	612.37	965.95825	1184.0891	-0.832207456	2.95E-05	0.000423	Lrp8

1179.82	1174.82	1785.9804	2177.9436	-0.750611666	2.95E-05	0.000423	Mvb12a
658.455	726.465	2013.5713	1146.2861	-1.190999187	2.99E-05	0.000428	Tgtp2
56.0829	33.872	142.46147	174.38182	-1.820490409	3.12E-05	0.000445	Eya2
124.629	200.558	368.31502	475.58678	-1.371482331	3.22E-05	0.000456	Med12l
355.192	514.32	840.00147	949.95411	-1.039599958	3.24E-05	0.000459	Acsl3
0	0	35.615367	21.950159	-7.34942796	3.28E-05	0.000463	Dcstamp
3762.75	4729.6	6624.4583	8236.1875	-0.806902336	3.43E-05	0.000483	Tspan13
2.07714	5.34821	99.896762	26.827972	-4.078666601	3.47E-05	0.000486	Prkg1
156710	170512	236810.92	304603.58	-0.726454756	3.49E-05	0.000488	Eef1a1
1870.47	1728.36	2700.6872	3435.1999	-0.769284135	3.51E-05	0.00049	Man2a2
4416.01	4466.65	6340.404	7133.8017	-0.600904636	3.52E-05	0.000491	Elmo2
6052.8	11084.2	17369.875	20317.311	-1.136834174	3.73E-05	0.000517	Bhlhe40
41.5429	6.23958	187.63218	169.50401	-2.915159784	3.74E-05	0.000517	Ptafr
205.637	290.586	482.97913	678.01602	-1.222848673	3.91E-05	0.000536	Fam71b
3459.48	3557.45	5092.9975	6359.4489	-0.706366856	3.91E-05	0.000536	Vsir
293.916	313.762	552.47253	559.72906	-0.871384724	3.91E-05	0.000536	Dnase11l
229.525	206.798	401.32438	520.70655	-1.077936553	3.93E-05	0.000538	Hest
847.475	1329.03	2316.7362	2079.1678	-1.013627852	3.97E-05	0.000543	Cd24a
83.0858	34.7634	377.00169	169.50401	-2.220969238	4.00E-05	0.000546	Tmem40
739.464	787.079	1699.9823	1204.8198	-0.929217717	4.01E-05	0.000546	Myo1f
8862.14	9585.78	13235.018	15857.77	-0.657039585	4.05E-05	0.000551	Rpl39
778.929	1263.07	1911.0685	2553.5352	-1.127421856	4.05E-05	0.000551	Gm19585
59.1986	81.1145	482.97913	154.87057	-2.185998455	4.15E-05	0.000563	Oas1a
154.747	241.561	440.41442	489.00077	-1.226394048	4.36E-05	0.000588	Sh2d5
950.294	1056.27	1569.6822	1651.1397	-0.681989302	4.48E-05	0.000603	Rpl221l
6670.75	6687.94	9454.577	9908.0579	-0.535420362	4.56E-05	0.000611	Diaph1
783.084	754.989	1196.1551	1304.815	-0.700910741	4.59E-05	0.000616	Rps6-ps4
319.88	112.312	1437.6447	1640.1647	-2.8331194	4.61E-05	0.000617	Slc18a2
204.599	232.647	402.19305	517.04819	-1.068933032	4.62E-05	0.000618	Stxbp1
109.05	27.6324	938.16089	771.91393	-3.647602834	4.63E-05	0.000619	Tnfaip2
1413.5	2139.28	3139.3643	3891.2754	-0.983999974	4.76E-05	0.000633	Ypel3
3024.32	3678.68	5137.2996	5792.4031	-0.704968874	4.77E-05	0.000634	Adarb1
9090.62	10618.9	14581.453	18864.942	-0.762795743	4.79E-05	0.000636	Stat3
1168.39	1080.34	1738.2037	2564.5102	-0.935386369	4.94E-05	0.000653	Ms4a4c
2492.57	3979.07	6554.9649	6107.022	-0.968076971	4.95E-05	0.000654	Runx3
10256.9	9210.51	15166.066	14034.688	-0.585067319	5.01E-05	0.000661	Itm2b
8778.01	12649.4	17821.582	21946.501	-0.892019285	5.13E-05	0.000675	Cytip
719.731	751.424	1149.2471	1576.7531	-0.888428858	5.14E-05	0.000675	Phf1
3334.86	3643.92	5059.1195	6063.1217	-0.671990583	5.23E-05	0.000687	Itpkb
321.957	408.247	644.55128	798.7419	-0.980445819	5.26E-05	0.000689	Zmym6
737.386	345.851	1719.9616	1209.6977	-1.437041504	5.30E-05	0.000693	Syk
614.835	631.089	998.96762	1036.5353	-0.707704139	5.32E-05	0.000695	Mlkl
196.29	393.094	708.83268	826.78932	-1.378974783	5.34E-05	0.000696	Sdc4
3980.85	4374.84	6040.7138	7210.6272	-0.664956828	5.35E-05	0.000697	Gtpbp2
95.5487	60.6131	211.95487	225.59886	-1.490246293	5.40E-05	0.000703	Rec8

2110.38	2796.22	3918.5591	5081.4618	-0.874614152	5.47E-05	0.00071	Are11
84.1244	43.6771	281.44827	174.38182	-1.842314989	5.65E-05	0.000732	Naip5
653.262	673.875	1038.0577	1376.7628	-0.862133131	5.66E-05	0.000732	Gm13456
2.07714	1.78274	76.44274	19.511252	-4.648233615	5.66E-05	0.000732	Trem2
525.518	431.422	803.51743	979.22098	-0.897299219	5.70E-05	0.000735	Sec24d
742.579	764.794	1186.5998	1220.6727	-0.674987818	5.73E-05	0.000739	Cln3
1738.57	1788.09	2650.3045	2629.1413	-0.582040904	5.76E-05	0.000742	Mapk3
219.139	280.781	715.78202	456.07553	-1.230063951	5.86E-05	0.000752	Clic5
2.07714	10.6964	61.675392	65.850477	-3.290990396	5.86E-05	0.000752	Gipc2
587.832	975.157	1468.9167	2036.487	-1.163860788	5.89E-05	0.000756	Crabp2
772.698	854.823	1392.474	1268.2314	-0.709300105	5.94E-05	0.000762	Zeb2
6.23143	16.936	52.988717	136.57877	-3.013887249	5.96E-05	0.000763	Ighv1-23
120.474	32.9806	1022.4216	675.57712	-3.470284328	6.03E-05	0.000771	Sirpa
921.214	301.283	6021.6031	4314.4257	-3.080119514	6.08E-05	0.000775	Ccl9
6.23143	3.56547	72.099402	34.144692	-3.458583095	6.09E-05	0.000776	Osbp2
1342.87	1405.69	2030.9446	2247.4524	-0.637752908	6.15E-05	0.000783	Glrx
67.5072	15.1533	923.39355	501.1953	-4.110574487	6.17E-05	0.000785	Il6
99.703	318.219	1678.2656	1680.4066	-3.005613484	6.21E-05	0.000789	Abca1
131.899	155.99	280.5796	490.22022	-1.41678344	6.33E-05	0.000803	Gm37169
3902.96	5373.17	7480.9645	9289.7951	-0.854039751	6.33E-05	0.000803	Glipr2
91.3944	146.184	250.17624	590.21539	-1.818115901	6.43E-05	0.000813	Irf6
1721.95	2159.79	3022.0942	3671.7738	-0.785408779	6.44E-05	0.000813	Rbl2
1052.07	621.284	1922.3612	1647.4814	-1.09431961	6.48E-05	0.000818	Fut8
5.19286	11.5878	48.64538	84.142276	-2.964378011	6.50E-05	0.00082	Sema4g
11.4243	11.5878	62.54406	67.06993	-2.492571447	6.51E-05	0.00082	Samd11
4980.99	6876.91	11130.237	9667.8256	-0.810542683	6.55E-05	0.000825	Man1a
208.753	287.912	462.13111	741.42759	-1.273575377	6.88E-05	0.000865	Errfi1
10289.1	11060.1	15306.79	20569.738	-0.748713274	7.05E-05	0.000885	Rps15a
19.7329	23.1756	79.91741	101.21462	-2.072129069	7.06E-05	0.000885	Il4
1474.77	1901.29	2883.9761	2771.8173	-0.744025199	7.06E-05	0.000885	Dnajc1
935.754	1183.74	1699.9823	3657.1404	-1.336887972	7.07E-05	0.000886	Als2cl
211.869	244.235	411.74839	518.26764	-1.024878242	7.13E-05	0.000891	Emc9
1791.54	2018.95	2818.826	3210.8205	-0.661437781	7.13E-05	0.000891	Kdm5b
228.486	286.129	491.6658	509.73147	-0.958513885	7.22E-05	0.000901	Thap6
10548.8	11650.2	15775.002	18994.204	-0.647174922	7.23E-05	0.000901	Fmnl1
750.888	628.415	1111.0257	1263.3536	-0.783590998	7.26E-05	0.000904	Tmem63a
1527.74	1948.53	2779.736	3046.1943	-0.744276914	7.29E-05	0.000906	Arl5a
2463.49	2312.21	3877.7317	3432.761	-0.614742793	7.40E-05	0.000918	Cited2
2805.18	4176.06	6620.115	6143.6056	-0.870299964	7.52E-05	0.000931	Tnfaip3
71.6615	54.3735	499.48381	128.04259	-2.320187064	7.68E-05	0.000949	Parvb
1531.89	1906.64	3011.6702	2685.2361	-0.728290329	8.02E-05	0.000984	Fam3c
45.6972	40.1116	151.14814	118.28697	-1.655433919	8.22E-05	0.001008	Il10
653.262	685.463	1033.7143	1179.2113	-0.723923421	8.23E-05	0.001008	G6pc3
733.232	817.385	1204.8418	1327.9846	-0.706798136	8.37E-05	0.001024	Asah1
427.892	438.553	712.30735	754.84158	-0.759098293	8.38E-05	0.001024	Arfgap3

892.134	1040.23	1499.3201	1679.1872	-0.716892291	8.39E-05	0.001025	Actn1
1311.72	1351.31	1999.6726	3023.0247	-0.914552518	8.44E-05	0.00103	Ppmlj
1605.63	1541.18	2624.2445	2280.3776	-0.640928546	8.61E-05	0.001048	Mafg
98.6644	48.1339	415.22306	178.04018	-2.021381301	8.78E-05	0.001065	Cd300a
218.1	370.809	613.27925	749.96377	-1.208089713	8.95E-05	0.001084	Cd96
82.0472	106.964	201.53086	336.56911	-1.503902529	8.96E-05	0.001085	Smpd5
39.4658	72.2009	146.80481	269.49918	-1.890350343	9.06E-05	0.001096	Gm33994
890.057	903.848	1348.172	1474.319	-0.653193501	9.23E-05	0.001114	Rpl34-ps1
154887	188815	251696.41	305288.91	-0.696469279	9.62E-05	0.001154	mt-Co1
462.165	368.135	753.13472	740.20814	-0.848222909	9.64E-05	0.001155	Rab37
130.86	43.6771	514.25116	243.89066	-2.124802583	9.69E-05	0.00116	Angpt1
1112.31	1085.69	1718.2243	1641.3841	-0.612494177	9.70E-05	0.00116	Chpf2
550.443	590.086	911.2322	956.05137	-0.710424244	9.71E-05	0.001161	Atg9a
24.9257	2.67411	92.947422	158.52893	-3.203628484	9.84E-05	0.001172	Hoxa9
2749.1	3518.23	4786.3579	6425.2993	-0.838593236	9.89E-05	0.001176	Paxbp1
1477.89	1838.89	2645.9612	2724.2586	-0.694654638	9.97E-05	0.001184	Slc30a9
71.6615	42.7857	189.36951	160.96783	-1.62086206	9.97E-05	0.001184	Bsn
100.742	227.299	416.09173	563.38742	-1.57404283	0.000101	0.0012	Nyap1
407.12	374.375	637.60194	753.62213	-0.831142114	0.000104	0.001225	Selenon
1499.7	1873.66	2590.3665	3109.6059	-0.755943646	0.000104	0.001225	Plxnc1
1053.11	1305.86	1826.8077	2502.3181	-0.874776611	0.000105	0.001238	H2-Q5
31.1572	14.2619	82.523412	141.45658	-2.30750535	0.000106	0.001248	Ttyh2
386.349	359.222	607.19858	832.88659	-0.948134352	0.000107	0.001255	Polr3gl
3752.36	4217.96	5938.211	5855.8147	-0.565224823	0.000107	0.001261	Gabarap
284.569	346.742	633.2586	549.97343	-0.906253978	0.000108	0.00127	Cers6
1942.13	2486.03	3742.2196	3508.3671	-0.711169392	0.000109	0.001273	Ehd1
3.11572	3.56547	49.514047	31.705785	-3.604516661	0.00011	0.001281	Sash1
1039.61	1017.94	1659.1549	1523.0971	-0.62974123	0.000111	0.001293	Ndst2
1897.47	1996.67	2880.5014	2858.3985	-0.559367263	0.000111	0.001294	Ldlr
280.415	435.879	667.13664	934.10121	-1.157856774	0.000112	0.001306	F730043M19Rik
4104.44	4848.15	6577.5503	9461.738	-0.840896823	0.000112	0.001306	Ccnl2
871.362	1073.21	1514.9561	2247.4524	-0.950912497	0.000112	0.001309	Dlg4
15.5786	0.89137	92.078754	89.020089	-3.485539617	0.000113	0.001312	Klra2
431.008	564.236	897.33352	891.42035	-0.844654044	0.000113	0.001312	Dcun1d3
57.1215	100.725	171.1275	478.02569	-2.034488641	0.000113	0.001318	Adamtsl4
65.4301	98.9419	196.31885	251.20738	-1.439082583	0.000114	0.001321	2310015A10Rik
4583.22	4870.44	8045.5983	6630.1675	-0.634695292	0.000114	0.001321	H2-T22
4942.57	4613.72	6811.2218	9298.3313	-0.753170277	0.000114	0.001321	Icos
346.883	299.5	556.81586	610.94609	-0.853407492	0.000114	0.001321	Tiparp
35.3115	87.3541	180.68284	293.88824	-1.94398391	0.000115	0.001325	Ugt1a7c
626.259	520.559	951.19091	992.63497	-0.761857194	0.000116	0.001335	Nol8
293.916	336.937	556.81586	571.92359	-0.838083276	0.000117	0.001353	Qprt
101.78	151.533	262.33758	412.17521	-1.407765353	0.000119	0.001369	BC026585
56.0829	16.0446	193.71285	151.21221	-2.268113992	0.00012	0.001373	Ltbr
1180.86	1346.86	1884.1398	2174.2852	-0.68213081	0.000122	0.001392	Cnn3

111.127	120.335	225.85355	368.27489	-1.355846319	0.000122	0.001398	Prkra
268.99	334.263	827.84012	514.60928	-1.155231032	0.000122	0.001398	mt-Atp6
766.466	653.373	1157.9338	1163.3584	-0.709885137	0.000123	0.001399	Heatr5a
2.07714	0.89137	33.878032	32.925239	-4.522358189	0.000123	0.001405	Slco2b1
152.67	86.4628	375.26436	274.37699	-1.447149574	0.000124	0.001415	Arhgap23
164.094	177.382	331.83098	342.66637	-0.98088693	0.000126	0.00143	Map4k3
7.27001	2.67411	45.17071	48.778131	-3.262353617	0.000127	0.001441	Slc22a4
2.07714	18.7187	70.362067	128.04259	-3.230692892	0.000128	0.001448	Tmem171
240.949	429.64	1136.2171	640.21297	-1.405368378	0.000129	0.00146	Tle1
1675.22	2034.1	2797.1093	3204.7232	-0.693535191	0.000131	0.001478	Insig1
70.6229	17.8274	651.50062	404.85849	-3.581688774	0.000133	0.001492	C3ar1
130.86	162.229	332.69965	292.66879	-1.09284819	0.000133	0.001494	Ccr12
1167.36	1226.52	1757.3143	1891.372	-0.60742514	0.000134	0.001501	Nipal3
6.23143	41.8943	131.16879	202.42924	-2.779988746	0.000136	0.001519	Hc
1316.91	1501.96	2096.9633	2302.3278	-0.641396514	0.000136	0.00152	Parp4
1193.32	1246.13	1785.9804	1920.6389	-0.602973711	0.000137	0.001523	Ell
544.212	516.994	844.3448	880.44527	-0.700641475	0.00014	0.001559	Fam105a
1818.54	2046.58	3201.9084	2799.8647	-0.635057977	0.000143	0.00158	Gbp7
78.9315	37.4375	221.51021	169.50401	-1.756342278	0.000143	0.001585	Tns3
149.554	126.574	269.28692	330.47184	-1.118354296	0.000144	0.001587	Acss1
92.4329	113.204	217.16687	265.84082	-1.227751345	0.000145	0.001597	Gm2237
1351.18	1616.05	2226.3948	2609.63	-0.703811598	0.000145	0.001599	Zdhhc21
82.0472	106.964	276.23626	201.20979	-1.337430753	0.000145	0.001601	Ctbp2
26678.8	27188.5	40923.794	36560.429	-0.524526987	0.000147	0.001615	Laptm5
1045.84	1246.13	2016.1773	1737.7209	-0.711919355	0.000147	0.001615	Eif4ebp1
38.4272	58.8303	127.69412	189.01526	-1.695350616	0.000147	0.001615	Aebp1
601.333	799.558	1165.7518	1325.5457	-0.829053897	0.000148	0.001618	Epm2aip1
270.029	110.53	608.93591	503.6342	-1.551117924	0.000148	0.001618	P2ry1
5094.2	5740.41	7655.5666	9230.0419	-0.639856521	0.000148	0.001621	Fnbp1
606.526	760.337	1156.1964	1152.3834	-0.755250628	0.000149	0.001625	Smad7
212.907	157.772	415.22306	360.95817	-1.069613402	0.00015	0.001637	Nrgn
95.5487	140.836	264.94359	295.10769	-1.240234047	0.00015	0.001639	Wdr78
0	0	39.958705	10.97508	-7.176389625	0.000152	0.001657	Pira2
8637.81	9294.3	12384.592	14462.716	-0.582065819	0.000154	0.001672	Rpl37
637.683	623.067	967.69559	1045.0715	-0.674380116	0.000155	0.001684	Lamtor4
5050.58	4621.75	7722.454	6755.7712	-0.582240956	0.000156	0.00169	Slc3a2
105.934	70.4181	257.12558	202.42924	-1.387485875	0.000156	0.00169	Pik3r6
2390.79	2554.66	3516.366	3733.9659	-0.551599453	0.000157	0.001701	Reep5
241.987	297.717	459.5251	828.00878	-1.251432806	0.000158	0.001704	Neil1
537.981	685.463	1009.3916	1117.0192	-0.795935776	0.00016	0.001722	Plcb3
7.27001	12.4792	53.857385	65.850477	-2.586802755	0.00016	0.001722	Xcr1
793.469	852.148	1224.8212	1503.5859	-0.728102779	0.000161	0.001733	Rfk
544.212	634.654	922.52488	1713.3319	-1.159288592	0.000163	0.001749	Arhgap18
220.177	447.467	792.22476	825.56987	-1.274818404	0.000163	0.00175	Syngap1
1236.94	1517.11	2209.8901	2174.2852	-0.670301854	0.000165	0.001772	Fhl3

14.54	16.936	58.200722	96.336809	-2.28779923	0.000167	0.001783	Ap1m2
44.6586	114.987	191.10685	507.29256	-2.123260175	0.000167	0.001791	Enpp1
9049.08	9181.99	12656.485	17034.543	-0.703473107	0.000168	0.001794	Rpl34
6006.06	6217.3	8382.6413	9592.2195	-0.556130259	0.000168	0.001795	Slc44a2
393.619	460.838	750.52872	712.16072	-0.775060467	0.00017	0.001812	Dhrs11
11.4243	22.2842	86.866749	74.38665	-2.249414243	0.000171	0.00182	Styk1
2.07714	13.3705	132.03746	40.241958	-3.462491863	0.000171	0.00182	Kctd8
540.058	884.238	1369.02	1469.4412	-0.993609851	0.000172	0.001823	Fyco1
3.11572	7.13095	56.463387	37.803052	-3.187002909	0.000175	0.001857	Cp
2025.22	2769.48	3737.8762	4794.8903	-0.83097144	0.000178	0.001885	Arap2
497.476	771.925	1135.3484	1384.0795	-0.987276559	0.00018	0.001905	Mfsd2a
1643.02	2373.71	3873.3884	3301.06	-0.836680603	0.000181	0.001906	Pcgf5
4487.67	4893.61	6693.9517	10562.904	-0.879027267	0.000183	0.001934	Txnip
343.767	404.681	606.32991	917.02887	-1.022726996	0.000184	0.00194	Cul9
38.4272	20.5015	110.32077	109.7508	-1.909040335	0.000187	0.001966	Pon3
782.045	890.477	1257.8305	1792.5963	-0.86553191	0.000189	0.001979	Tspoap1
155.786	246.018	393.50638	551.19288	-1.22938335	0.000189	0.001979	Zfp983
1302.37	1113.32	1896.3011	1857.2273	-0.636402153	0.000191	0.001996	Tmem64
27.0029	34.7634	82.523412	169.50401	-2.020492101	0.000193	0.002011	Rab34
17.6557	1.78274	82.523412	91.458996	-3.184555795	0.000195	0.002039	Kcnj2
1262.9	1185.52	1792.061	2763.2811	-0.894945084	0.000197	0.002049	Prrc1
686.496	656.047	1207.4478	1002.3906	-0.720359638	0.000203	0.0021	Ppp1r15a
1506.97	1813.04	2524.3477	2642.5553	-0.637538419	0.000205	0.002114	Gsdmd
611.719	1419.06	2572.1245	2374.2755	-1.283699984	0.000209	0.002156	Gpr65
965.872	1022.4	1445.4627	1766.9878	-0.691024471	0.00021	0.002164	Klhdc2
2524.77	2279.23	3393.8839	3999.8068	-0.621808694	0.000212	0.002181	Cd164
27.0029	8.02232	105.97743	85.36173	-2.465338062	0.000212	0.002181	Rnase6
1542.28	1371.82	3082.9009	2118.1903	-0.836678802	0.000212	0.002181	Alas1
3298.51	3506.64	4768.1159	6470.4191	-0.723329961	0.000212	0.002186	Plcg1
214.984	147.076	337.91166	545.09562	-1.285663102	0.000215	0.002207	Rell1
68.5458	122.118	213.6922	349.98309	-1.557653709	0.000216	0.002215	Gm16350
10828.2	10826.6	14741.287	18346.675	-0.611498107	0.000217	0.00222	Rpl26
33.2343	31.1979	123.35078	91.458996	-1.741711701	0.000217	0.00222	Fer
8.30858	9.80506	39.090037	84.142276	-2.756353536	0.00022	0.002246	Piwil4
730.116	720.226	1094.521	1151.1639	-0.630420489	0.000221	0.00226	Klhl25
13.5014	27.6324	127.69412	70.72829	-2.265827589	0.000226	0.002298	Itgax
1563.05	1330.81	2123.892	3194.9676	-0.877627745	0.000229	0.00233	Tbc1d2b
98.6644	98.9419	203.26819	239.01284	-1.160251723	0.000229	0.00233	Sult2b1
692.728	500.949	1296.9206	978.00153	-0.932348226	0.00023	0.00233	Atp6v0a1
6.23143	0	39.958705	59.753211	-4.046877893	0.000231	0.002346	Mfsd7a
8930.68	8927.06	12417.602	12309.161	-0.469535689	0.000232	0.002347	Cd47
908.751	839.669	1289.1026	1853.569	-0.844973962	0.000232	0.002354	Rcn1
985.605	1197.11	1656.5489	1886.4942	-0.697783832	0.000233	0.002357	Cstb
4988.26	6031	7951.7822	9147.1191	-0.633602626	0.000233	0.002361	H2-Q6
1232.79	1373.6	1883.2711	2420.6148	-0.72255567	0.000234	0.002363	Fam173a



286.646	367.244	622.83459	571.92359	-0.868830407	0.000238	0.002399	Fam213a
774.775	993.876	1361.202	1970.6365	-0.912225122	0.000239	0.002409	Fbx15
3638.12	3799.01	5177.2583	7115.5099	-0.724610726	0.00024	0.002416	Spata13
1010.53	1064.29	1495.8454	1827.9605	-0.678753421	0.000246	0.002466	Mrpl33
2488.42	2673.21	3618.8688	4855.863	-0.714781876	0.000251	0.00251	Ap3b1
3476.1	3717.01	4985.2828	6491.1498	-0.673571737	0.000261	0.002603	Cox7a2l
163.056	463.512	853.90015	971.90426	-1.540904411	0.000261	0.002603	Dnm1
1024.03	991.202	1458.4927	1607.2394	-0.604799432	0.000264	0.002627	Ube2a
3.11572	13.3705	104.2401	41.461412	-3.129177479	0.000266	0.002644	Coch
1287.83	1500.17	2072.6406	2202.3326	-0.616000662	0.000269	0.002671	Pqlc3
56.0829	95.3764	188.50085	224.3794	-1.440732318	0.000276	0.002732	Prss30
12.4629	14.2619	46.908045	101.21462	-2.461809788	0.000277	0.00274	Gzmf
659.493	796.884	1122.3184	1291.401	-0.727396271	0.00028	0.002764	Slc35a2
1.03857	0	93.816089	7.3167197	-6.707211052	0.00028	0.002765	Ngp
3067.94	4743.86	6435.9575	7839.8651	-0.869508073	0.000283	0.002788	Zfp281
705.191	1237.22	2063.954	1848.6912	-1.009689136	0.000283	0.002788	Fads2
601.333	494.71	846.95081	1247.5007	-0.933383661	0.000291	0.002851	Rgs10
5173.13	5119.13	7285.5143	7050.8789	-0.478204491	0.000293	0.002868	Surf4
614.835	594.543	899.93952	1098.7274	-0.723592013	0.000295	0.002882	Pi4k2b
190.059	57.939	1063.249	765.81666	-2.8843364	0.000298	0.002914	Cd200r4
789.315	270.085	4194.7953	2857.179	-2.73518711	0.000301	0.002935	Il1rl1
223.293	243.344	393.50638	481.68405	-0.904669539	0.000301	0.00294	Cd99l2
59.1986	99.8333	164.17816	385.34724	-1.782762399	0.000302	0.002941	Pycr1
208.753	222.842	375.26436	419.49193	-0.878997679	0.000302	0.002948	Ppt2
2566.31	2885.36	4122.6959	3868.1058	-0.551619652	0.000308	0.002986	Vmp1
1636.79	1813.04	2443.5617	2781.5729	-0.598227372	0.000309	0.002995	Ptpn3
1114.39	1731.04	2453.9857	2759.6228	-0.87286245	0.000309	0.002995	Mvd
5775.5	6661.2	8682.3316	11887.231	-0.725648076	0.000312	0.00302	H2-Q7
264.836	207.689	540.31118	406.07794	-1.005534338	0.000316	0.003054	Acss2
588.871	677.44	965.08959	1101.1663	-0.704871153	0.000318	0.003071	Surf1
473.589	258.497	909.49487	723.1358	-1.159522711	0.000318	0.003071	Ptpre
9.34715	5.34821	59.938057	40.241958	-2.784994976	0.000321	0.003091	Colla2
187.982	274.542	476.89845	452.41717	-1.00480568	0.000321	0.003093	Tmem159
66.4686	73.9836	121.61345	485.34241	-2.10791051	0.000328	0.003146	Wscd2
319.88	331.589	535.96784	563.38742	-0.754063771	0.000333	0.003187	Agpat2
232.64	218.385	396.11238	414.61412	-0.845995327	0.000333	0.003187	Mettl7a1
31.1572	88.2455	179.81417	263.40191	-1.884360238	0.000333	0.003187	Cables1
361.423	590.977	885.17218	1026.7797	-1.003468278	0.000335	0.003197	Ptpn13
57.1215	8.02232	243.2269	156.09002	-2.626152276	0.000335	0.003197	Alox8
98.6644	20.5015	632.38994	817.0337	-3.606718741	0.000335	0.003197	Rab38
3.11572	0.89137	125.95679	4.8778131	-5.059279396	0.000336	0.003205	Chil3
9628.6	7777.19	16734.011	12372.573	-0.741967523	0.000338	0.003223	Ftl1
6.23143	12.4792	49.514047	63.411571	-2.577900334	0.000338	0.003223	Flywch2
1.03857	8.02232	52.988717	43.900318	-3.386710351	0.000342	0.003254	Glrp1
261.72	218.385	435.20241	437.78373	-0.86393052	0.000347	0.003294	Idh1

7.27001	9.80506	59.06939	43.900318	-2.589607617	0.000348	0.003298	Mmp19
285.607	271.867	459.5251	517.04819	-0.807914072	0.000349	0.003307	Dpm3
672.995	1025.07	2006.6219	1384.0795	-0.997738252	0.000349	0.003307	Ddx58
220.177	74.875	504.69581	423.15029	-1.656766084	0.00035	0.003314	Rnf217
372.847	360.113	603.72391	604.84883	-0.721728103	0.000351	0.003315	Gk
172.403	242.452	371.78969	531.68163	-1.118918256	0.000351	0.003315	Tmem35b
16.6172	16.0446	98.159427	53.655944	-2.22313911	0.000351	0.003315	Pde1c
449.702	741.619	1044.1383	1424.3214	-1.049235392	0.000352	0.00332	Sik1
174.48	276.324	438.67708	524.36491	-1.091721118	0.000357	0.003363	Amigo2
69.5844	28.5238	152.88548	187.79581	-1.801718052	0.000359	0.00338	Enpp5
1499.7	1648.14	2262.0102	2365.7394	-0.555465919	0.00036	0.003388	Slc25a1
377.002	396.659	610.67325	674.35766	-0.730701862	0.000362	0.003401	Rufy3
27.0029	49.9166	82.523412	303.64387	-2.320076267	0.000365	0.003421	Sv2c
656.378	1083.01	1587.9242	1754.7933	-0.941326673	0.000366	0.003431	BE692007
1477.89	1610.7	2195.1228	3764.4523	-0.947513258	0.000369	0.003448	Pold4
307.417	230.864	523.8065	482.9035	-0.905653558	0.000369	0.00345	Dnase2a
2.07714	2.67411	49.514047	20.730706	-3.886269171	0.00037	0.003462	I830127L07Rik
5675.8	6701.31	9295.6109	8870.3032	-0.553493937	0.000371	0.003467	Slc16a3
3.11572	5.34821	39.958705	36.583598	-3.164302024	0.000377	0.003513	Inpp5j
0	1.78274	37.352702	23.169612	-5.013819369	0.000378	0.003516	Mcemp1
1303.41	1163.24	1760.789	2115.7514	-0.651775108	0.000382	0.003541	Gm7536
282.492	227.299	452.57576	476.80623	-0.867392567	0.000382	0.003546	Inpp5a
5806.66	3760.68	8479.9321	8227.6513	-0.804523597	0.000388	0.003591	Nucb1
253.412	120.335	769.6394	362.17762	-1.602198228	0.000399	0.003669	Ptger3
34.2729	25.8497	92.947422	102.43408	-1.703129906	0.000407	0.003737	Rprm
745.695	890.477	1244.8005	1352.3737	-0.665472929	0.00041	0.00376	Mindy2
4533.37	5539.86	8276.6639	7189.8965	-0.618640588	0.000411	0.003765	Cd52
4.15429	0	62.54406	21.950159	-4.40708224	0.000411	0.003765	Sp5
2548.66	943.959	12742.483	8209.3595	-2.58482735	0.000415	0.003799	Cpa3
566.022	763.903	1165.7518	1104.8247	-0.770954882	0.000418	0.003821	Sestd1
2357.56	2227.53	3178.4544	3371.7883	-0.51450242	0.000428	0.003902	Gm2a
3.11572	8.02232	90.341419	24.389066	-3.35558905	0.000437	0.003979	Slc6a12
73.7386	13.3705	246.70157	190.23471	-2.334978161	0.000439	0.003998	Pstpip2
5222.98	5676.24	7444.4804	7943.5187	-0.497386217	0.00044	0.004003	Hmgcr
4345.39	5954.34	9372.0536	7737.4311	-0.73217161	0.000444	0.004037	Serpine2
52.9672	18.7187	130.30012	148.7733	-1.968908081	0.000447	0.00406	Dnajc6
1389.61	1737.28	2301.1002	2721.8197	-0.682919734	0.000448	0.00407	Gm8369
187.982	197.884	339.64899	369.49434	-0.876486823	0.000452	0.004091	Naaa
24.9257	53.4821	105.97743	192.67362	-1.919333695	0.000457	0.004133	Ablim2
140.207	174.708	396.98105	279.2548	-1.103876301	0.000459	0.004138	Slc31a2
20591.8	26451.4	37517.749	34588.573	-0.616122951	0.000459	0.004138	Lgals1
657.416	678.332	977.25093	1110.9219	-0.643471104	0.00046	0.004151	Gm10335
728.039	774.599	1084.097	1395.0546	-0.720863192	0.000463	0.00417	Pigx
169.287	207.689	336.17432	392.66396	-0.947970217	0.000465	0.004184	Gm18588
1982.63	2298.84	3009.9329	3596.1677	-0.625007848	0.000467	0.004202	Btg2

22.8486	12.4792	142.46147	49.997585	-2.458336756	0.000475	0.004262	Car8
27.0029	24.067	107.71477	73.167197	-1.830620877	0.000482	0.004324	Scarf1
2249.55	2123.24	3047.2856	3163.2618	-0.506153855	0.000484	0.004331	Esd
49.8515	67.744	156.36015	146.33439	-1.361323765	0.000484	0.004331	Gm15417
244.065	276.324	417.82906	615.82391	-0.986946727	0.000485	0.004341	Piwil2
4576.99	4803.59	6292.6273	7415.4954	-0.546980333	0.000488	0.004365	Wdr26
485.013	583.846	834.78946	924.34559	-0.717174358	0.000493	0.004407	Trip10
1181.9	1379.84	2156.9014	1838.9355	-0.641609415	0.000494	0.004413	Zbtb38
22.8486	30.3065	74.705405	119.50642	-1.860768271	0.000495	0.004418	Gm19557
45.6972	75.7663	183.28884	151.21221	-1.45847587	0.000497	0.004434	Tnfrsf11b
9.34715	54.3735	128.56279	230.47667	-2.483501222	0.000501	0.00446	S1pr3
2134.27	1697.17	3300.9365	2791.3286	-0.669840317	0.000504	0.004478	Lgals9
1014.69	1130.26	1603.5602	1590.1671	-0.573950829	0.000504	0.004478	Rasa2
110.089	94.4851	197.18752	260.963	-1.161601527	0.000506	0.004492	Naprt
1612.9	1936.94	2658.1225	2680.3583	-0.588249294	0.00051	0.004523	Tgfb2
28.0415	20.5015	71.230735	109.7508	-1.898215552	0.000511	0.004526	Tle6
847.475	2084.91	5927.787	8832.5001	-2.331402711	0.000513	0.004539	Prf1
12.4629	27.6324	69.4934	110.97025	-2.156583438	0.000515	0.004558	A330023F24Rik
752.965	535.713	1197.8925	1060.9244	-0.811248452	0.000516	0.004563	Gngl2
3084.56	3872.11	4944.4554	6630.1675	-0.734039803	0.000517	0.004564	Tnfrsf18
0	1.78274	12.161345	59.753211	-5.257383377	0.000525	0.004616	Il17a
2390.79	2367.48	3218.4131	3764.4523	-0.552935937	0.000539	0.004727	Itpr3
148.516	42.7857	437.80842	267.06027	-1.886958168	0.000541	0.004745	Spns3
94.5101	142.619	228.45955	360.95817	-1.308150825	0.000541	0.004745	Syng1
91.3944	105.182	196.31885	231.69612	-1.119093722	0.000542	0.004746	Cystm1
28638.6	28764.5	37792.248	45888.027	-0.543709118	0.000544	0.004766	Rps14
245.103	244.235	410.87973	439.00318	-0.795663949	0.000546	0.004777	Slc27a1
1378.19	1723.91	2248.9801	2838.8872	-0.712882568	0.000554	0.004843	Cbap
190.059	329.806	502.08981	626.79899	-1.115548232	0.000562	0.004883	AC126459.5
394.658	627.524	995.49295	937.75957	-0.918242007	0.000568	0.004926	Crebl2
30.1186	6.23958	165.91549	67.06993	-2.695534813	0.000573	0.004963	B3gnt7
170.326	238.887	386.55704	413.39466	-0.9642493	0.000583	0.005037	B3gnt5
3916.46	4320.46	5581.1887	7392.3258	-0.655007026	0.000584	0.005042	Nsa2
1273.29	1647.25	2215.1021	2423.0537	-0.666532128	0.000587	0.005059	Ssh1
499.553	533.038	873.8795	769.47502	-0.671095963	0.00061	0.005234	Zfp715
11.4243	11.5878	50.382715	59.753211	-2.256322469	0.000611	0.005239	Rpl35a-ps3
3290.2	3286.48	4394.5889	5094.8758	-0.528624942	0.000611	0.00524	Cd37
266.913	256.714	407.40506	718.25798	-1.101766963	0.000612	0.005243	Mir5125
197.329	306.631	501.22114	499.97585	-0.988130048	0.000614	0.005251	H2-K2
3205.03	3293.61	4432.8102	4560.7553	-0.468616364	0.000614	0.005251	Il12rb1
329.227	302.174	483.84779	804.83917	-1.02729444	0.000615	0.005263	Lgals4
2.07714	0.89137	56.463387	12.194533	-4.565343292	0.000622	0.005307	Wfdc21
999.107	992.093	1402.898	1548.7057	-0.567243069	0.000636	0.005415	Fgd3
87.2401	101.616	211.0862	195.11252	-1.104305159	0.000636	0.005415	Lpar6
4691.23	6721.81	12155.264	8394.7164	-0.84849451	0.000638	0.005427	Slc6a6

3209.19	3094.83	4248.6527	5876.5454	-0.683218739	0.000638	0.005427	Xbp1
146.439	288.803	455.18177	567.04578	-1.228430053	0.000644	0.005463	Gpr162
0	0.89137	32.140697	23.169612	-5.858473389	0.000647	0.005479	Rassf6
0	0	33.009365	7.3167197	-6.840227269	0.000648	0.005483	Flrt3
131.899	24.9583	893.85885	952.39301	-3.558806466	0.000655	0.00554	Tarm1
7137.07	8105.22	10320.639	11794.552	-0.53675664	0.000661	0.005582	Acap1
2361.71	2642.91	3466.852	3742.5021	-0.526167372	0.000663	0.005598	Ube2b
3837.53	4855.29	6558.4396	6525.2945	-0.589688967	0.000666	0.005621	Pitpnm1
727.001	605.239	967.69559	1662.1148	-0.980182469	0.000674	0.005686	Spred2
490.206	368.135	732.2867	742.64705	-0.782292893	0.000675	0.00569	Ckap4
341.69	221.951	519.46316	581.67921	-0.967489693	0.000685	0.005756	Maf
4968.53	5144.09	6699.1637	8109.3643	-0.549984487	0.000691	0.005799	Gm9794
247.18	178.274	416.9604	395.10286	-0.935217866	0.000699	0.005861	Milr1
1.03857	3.56547	29.534695	31.705785	-3.700674276	0.000716	0.005987	Igsf5
2446.88	3003.91	3978.4971	4149.7995	-0.576109109	0.000719	0.006012	1700020114Rik
1631.6	1698.95	2315.8675	2399.8841	-0.501425885	0.000724	0.006046	Golga7
199.406	256.714	402.19305	436.56427	-0.876295976	0.000732	0.006102	Apol7e
9.34715	24.9583	74.705405	82.922823	-2.186601414	0.000733	0.006108	Sgce
1205.78	1498.39	1931.9165	2616.9467	-0.749249828	0.000738	0.006136	Gabbr1
23.8872	9.80506	115.53278	54.875398	-2.353874044	0.000738	0.006136	Adgrl2
5353.84	5637.91	7273.3529	8709.3353	-0.53981696	0.000738	0.006136	Rpl38
9.34715	14.2619	47.776712	68.289384	-2.286073943	0.00074	0.006138	Aldh1l2
75.8158	47.2425	312.7203	118.28697	-1.815100377	0.00074	0.006138	Gm20559
285.607	375.266	575.05788	582.89867	-0.807475751	0.000743	0.006155	Plpp2
2176.85	2573.38	4406.7502	3280.3293	-0.69473086	0.000743	0.006155	Uba7
183.827	411.812	786.14408	645.09079	-1.263278378	0.000743	0.006155	Atp6v0d2
4511.56	4662.75	6124.1058	6498.4665	-0.460159391	0.000756	0.006247	Ssr3
209.792	205.906	342.25499	414.61412	-0.86256113	0.000757	0.006255	Rida
157.863	208.58	307.50829	512.17038	-1.157299885	0.000759	0.006263	Mfap1b
713.499	1296.05	1768.607	2252.3302	-0.999583114	0.000767	0.006322	Il1r2
697.921	735.379	1014.6036	1538.95	-0.831638616	0.000779	0.006411	Gzfl
0	0.89137	46.908045	13.413986	-5.989936237	0.000782	0.006433	Mcpt1
531.749	693.485	963.35225	1069.4605	-0.728843127	0.000791	0.006483	Bcl2l2
1856.97	1913.77	2548.6704	2888.8848	-0.527548593	0.000799	0.006541	Uhrf2
213.946	125.683	476.89845	317.05785	-1.229591527	0.000802	0.006552	Irak3
121.513	153.315	266.68092	278.03535	-0.984414587	0.000802	0.006552	Sccpdh
502.669	512.537	740.10471	904.83433	-0.694647796	0.000807	0.006591	Gm15772
1218.25	1800.56	2412.2896	2729.1364	-0.767413651	0.000821	0.006692	Crim1
4379.66	4630.66	5974.695	6736.2599	-0.496133958	0.000822	0.006692	Sars
262.759	237.995	357.89101	1059.7049	-1.499632875	0.000831	0.006763	Itih5
37.3886	29.4152	88.604084	113.40916	-1.59657423	0.000832	0.006768	Wwc2
4543.75	4806.26	6404.6854	6375.3018	-0.450783811	0.00084	0.006831	Acot7
951.332	836.995	1346.4346	1324.3263	-0.579268661	0.000848	0.006881	Tmem9b
579.523	693.485	938.16089	1151.1639	-0.712982853	0.000849	0.006883	Rara
458.01	763.012	1005.917	1482.8552	-1.025533757	0.000858	0.006939	Evalb

486.052	328.024	697.54	792.64463	-0.873105297	0.000858	0.006939	Lmo4
1680.41	1801.46	2499.1564	2424.2731	-0.499753437	0.00086	0.006951	Aff4
2221.51	5125.37	19888.142	12899.377	-2.15790511	0.000862	0.006962	Serpinb9
0	0.89137	21.716687	30.486332	-5.768943094	0.000867	0.006995	Gm16548
38.4272	71.3095	157.22882	149.99275	-1.47992157	0.000872	0.007031	Tle2
1583.82	1740.84	2267.2222	2765.72	-0.597352017	0.000877	0.007066	Gabarapl1
746.734	1090.14	1392.474	2081.6068	-0.917993581	0.000877	0.007066	Il10ra
629.375	613.262	890.38418	1045.0715	-0.638195148	0.000887	0.007134	9530082P21Rik
58.1601	34.7634	131.16879	129.26205	-1.492543967	0.000889	0.007145	5430427O19Rik
216.023	218.385	347.467	458.51443	-0.889030121	0.000895	0.007174	Tbc1d30
24.9257	41.003	114.66411	93.897903	-1.65764928	0.000896	0.007179	AW011738
2128.03	2368.37	3042.0736	3822.986	-0.609826447	0.000897	0.007181	Dtx3
1930.71	2017.17	2953.4695	2664.5054	-0.509282508	0.000903	0.007227	Eaf1
6.23143	8.91369	40.827372	47.558678	-2.535647139	0.000909	0.007264	Wwtr1
18.6943	28.5238	78.180075	85.36173	-1.78509722	0.000918	0.007317	Esr1
1981.6	2173.16	2817.9574	3232.7706	-0.541714366	0.000918	0.007317	Stard4
390.503	189.862	643.68261	649.9686	-1.158512786	0.000919	0.007321	Papss2
195.252	340.503	528.14984	578.02086	-1.043277819	0.000921	0.007332	Adgrg5
1230.71	1544.74	2116.9427	2115.7514	-0.608326353	0.000929	0.007381	Gatsl2
91.3944	32.0893	755.74072	291.44933	-3.08660061	0.000935	0.007425	Gm15915
111.127	186.296	271.89293	462.17279	-1.298540913	0.000943	0.007482	Tha1
17.6557	32.9806	63.412727	157.30947	-2.11264923	0.000969	0.007656	Gm3739
140.207	125.683	230.19689	321.93567	-1.05180437	0.000972	0.007668	Chst14
1932.78	1854.94	2540.8524	2986.4411	-0.544764191	0.000972	0.007668	Trabd
25078.4	24734.6	32213.665	36286.052	-0.459532094	0.000988	0.007777	Rps18
1169.43	2704.41	6640.963	9551.9775	-2.063383603	0.001002	0.007867	Tg
1891.24	2309.54	2938.7021	3519.3422	-0.619732489	0.001003	0.007867	Golgb1
2092.72	2683.91	3362.6119	4436.371	-0.706639997	0.001003	0.007867	Khynyn
370.77	427.857	759.21539	598.75156	-0.766850412	0.001008	0.007889	Bicap
844.359	903.848	1229.1645	1382.86	-0.578241528	0.00101	0.007902	Tmem106b
212.907	232.647	468.21178	353.64145	-0.885210569	0.001011	0.007906	Mocos
0	2.67411	25.191357	30.486332	-4.313937367	0.001013	0.00791	Klra17
1707.41	2089.37	2823.1694	2807.1815	-0.568075905	0.001013	0.00791	Fdft1
569.138	763.903	1053.6937	1146.2861	-0.721354069	0.001019	0.007943	Yap1
241.987	324.458	482.97913	531.68163	-0.838502765	0.00102	0.007947	Eno3
537.981	485.796	797.43676	782.88901	-0.627086813	0.001023	0.007959	Psen2
1489.31	1657.05	2141.2654	2746.2088	-0.634483873	0.001024	0.007967	Pik3r1
5.19286	4.45684	36.484035	34.144692	-2.876241665	0.001024	0.007967	B4galt6
1581.75	1675.77	2267.2222	2312.0834	-0.49108005	0.001025	0.007968	Dctn4
2854	838.778	19603.219	10017.809	-3.003938226	0.001027	0.007972	Csf2rb2
1142.43	1435.1	1795.5357	3037.6581	-0.905993335	0.001033	0.008008	Pde4d
2774.03	5062.08	7613.8706	6999.6618	-0.898917165	0.001033	0.008008	Itga3
8775.94	8844.16	11455.118	12710.362	-0.455603412	0.00104	0.008062	Rpl35a
3.11572	3.56547	33.878032	28.047425	-3.211028574	0.001051	0.008142	Mertk
1651.33	1736.39	2434.0063	2324.278	-0.490212445	0.001052	0.008145	Sgpl1

37.3886	32.0893	111.18944	89.020089	-1.531827395	0.001061	0.008206	Apold1
1156.97	1225.63	1622.6709	2049.901	-0.623181504	0.001078	0.008314	Mta3
1612.9	1651.71	2201.2034	2460.8567	-0.513479862	0.001086	0.008357	Tor4a
15.5786	41.8943	162.44082	80.483917	-2.075282055	0.00109	0.008381	Ifi214
10.3857	24.067	52.12005	118.28697	-2.291538895	0.001102	0.008453	Spaca6
460.088	643.568	980.7256	898.73707	-0.767289545	0.001106	0.008479	Nsdhl
2179.96	2407.59	3100.2743	3463.2473	-0.516201708	0.001125	0.008596	Uqcrh
54.0058	32.9806	92.078754	208.52651	-1.788117695	0.001127	0.00861	Rapgef3
15.5786	48.1339	91.210087	181.69854	-2.087373816	0.001135	0.008656	Nid1
832.935	1349.53	1916.2805	1952.3447	-0.825080246	0.001135	0.008656	B4galnt4
1318.99	1495.72	1997.0666	2065.7539	-0.528962387	0.001152	0.008762	Zfas1
437.239	689.919	1851.1304	823.13096	-1.246892195	0.001153	0.008766	Nkain1
1442.58	1642.79	2116.9427	2493.782	-0.578666406	0.001156	0.008779	Use1
16.6172	8.91369	56.463387	58.533757	-2.181189044	0.00116	0.008802	Prune2
131.899	199.667	278.84227	524.36491	-1.272065095	0.001162	0.008814	Tbxa2r
7.27001	0.89137	31.27203	51.217038	-3.367346277	0.001167	0.008852	Plbd1
431.008	771.034	1150.9844	1167.0168	-0.946145466	0.001171	0.008875	Maged2
880.709	1122.23	1502.7948	1612.1172	-0.636076013	0.001199	0.00905	Slc25a24
1462.31	1609.81	2073.5093	2748.6477	-0.649507631	0.0012	0.009058	Gyg
2406.37	3553.89	7260.3229	4224.1862	-0.946359985	0.001208	0.009111	Trim30a
6876.39	7989.34	10545.623	10264.138	-0.485202351	0.001213	0.009144	Edem1
1.03857	3.56547	17.37335	47.558678	-3.781139029	0.001221	0.009189	Dleu7
299.109	582.955	924.26221	892.6398	-1.041086761	0.001222	0.009189	Fah
3145.84	2706.2	3973.2851	4574.1693	-0.546451413	0.001233	0.009272	Galnt6
355.192	456.381	632.38994	752.40267	-0.768513236	0.001235	0.009279	Mpp5
885.902	1130.26	1690.4269	1481.6357	-0.653706991	0.001239	0.00931	Irak2
126.706	98.0506	191.10685	373.1527	-1.325746536	0.001246	0.009353	Sh3pxd2a
6317.64	6538.19	8354.844	11099.464	-0.59742732	0.001253	0.009406	Gimap6
494.36	608.805	809.59811	1056.0465	-0.755904369	0.001266	0.00948	Dnajb2
885.902	1017.94	1312.5566	1982.831	-0.790176001	0.001268	0.009485	Taz
2243.32	2888.93	3910.7411	3805.9137	-0.588118279	0.001272	0.009514	Adora2a
27.0029	98.9419	203.26819	245.11011	-1.825221028	0.001278	0.009545	Myrf
712.461	588.303	1362.0706	924.34559	-0.815614229	0.001288	0.009595	Fam129b
167.21	220.168	342.25499	376.81106	-0.889450139	0.001288	0.009595	Sv2a
522.402	416.269	720.12535	820.69206	-0.715149971	0.0013	0.009673	Pgm1
20.7714	11.5878	66.01873	63.411571	-2.009371086	0.0013	0.009673	Aldh3b1
135.014	189.862	297.08428	343.88583	-0.976618063	0.001309	0.009732	Gm15283
1033.38	974.266	1418.534	1462.1245	-0.520926079	0.00131	0.009734	Fli1
9.34715	17.8274	46.908045	81.70337	-2.228087056	0.001311	0.009738	Gm26756
743.618	689.919	1011.9976	1151.1639	-0.592966942	0.001324	0.009827	Lrrfip2
846.437	1015.27	1285.6279	2121.8487	-0.870750642	0.00133	0.009862	Agpat4
232.64	210.363	358.75968	413.39466	-0.800760288	0.001331	0.009864	Adam19
1223.44	452.815	6233.5579	3392.519	-2.521956528	0.001357	0.010011	Itga2b
507.862	992.985	1383.7873	1637.7258	-1.00824314	0.001357	0.010011	Tnfrsf25
1067.65	1045.58	1428.0894	1915.7611	-0.661027348	0.001372	0.010102	Mroh1

9.34715	48.1339	198.05619	95.117356	-2.343953344	0.001376	0.010123	Syt17
501.63	517.885	726.20603	912.15105	-0.682588368	0.00138	0.010149	Afdn
14.54	24.9583	67.756065	78.04501	-1.874763569	0.001384	0.010175	Gm42141
6.23143	0	82.523412	18.291799	-4.059475829	0.001389	0.010202	Igha
6119.27	7688.95	9289.5302	13662.755	-0.732875758	0.001397	0.010252	Fam102a
15141.3	15086.4	19747.418	20241.705	-0.403714845	0.0014	0.010267	Rpl27
17041.9	16548.3	21541.217	24898.797	-0.467260958	0.001426	0.010434	Rpl19
536.942	601.674	921.65621	828.00878	-0.620085772	0.001428	0.010438	Evi5l
529.672	479.556	739.23604	825.56987	-0.632316389	0.001429	0.010446	Dip2a
259.643	143.51	427.38441	420.71138	-1.075709885	0.001432	0.010461	Tnfrsf21
382.195	480.448	673.21731	738.98869	-0.709247416	0.00145	0.010579	Hbp1
660.532	660.504	1180.5191	914.58996	-0.666822713	0.001462	0.010664	Tmem104
0	3.56547	26.928692	31.705785	-3.98183048	0.001471	0.010722	2310002F09Rik
17302.6	17116.1	22017.246	26464.575	-0.49417273	0.001477	0.010751	Rps20
106.973	113.204	218.90421	210.96542	-0.965160448	0.001477	0.010751	Cgrrf1
19.7329	1.78274	254.51958	165.84565	-4.297508243	0.001482	0.010784	Clec4d
898.365	1297.83	1646.9936	2118.1903	-0.776514531	0.001493	0.010855	Arhgap4
18.6943	10.6964	47.776712	81.70337	-2.142122613	0.001494	0.01086	Sptbn5
70.6229	119.443	168.52149	380.46942	-1.524449383	0.0015	0.010891	Prss16
10495.8	14375.1	17776.412	21103.858	-0.644455371	0.0015	0.010891	Samhd1
1315.87	1393.21	1828.5451	2063.315	-0.521878158	0.001513	0.010975	Rcan3
1685.6	2051.04	2701.5559	2754.745	-0.545728162	0.001514	0.010977	Vwa5a
1162.16	1334.38	1810.3031	1792.5963	-0.528844681	0.001536	0.011126	Lpcat3
3077.29	3072.55	4680.3805	3999.8068	-0.497566501	0.001543	0.011171	Bcl2l1
501.63	598.108	793.09342	1024.3408	-0.722639714	0.001547	0.011171	Fuz
9.34715	7.13095	40.827372	45.119771	-2.387048471	0.001547	0.011171	Bcl6b
26234.3	26152.8	33488.869	44099.089	-0.566563973	0.001555	0.011216	Rps6
14622.1	14066.7	18380.136	21437.989	-0.472862607	0.001556	0.011216	Rpl23
2380.41	2131.26	3407.7826	3023.0247	-0.511919258	0.001566	0.011278	Rhbdf2
2120.76	2572.49	3466.852	3332.7658	-0.534656538	0.001569	0.011299	Abcc1
116.32	119.443	208.4802	256.08519	-0.975744302	0.001572	0.011311	Gm3636
1027.15	1229.2	1682.6089	1647.4814	-0.561128429	0.001582	0.01136	Chmp1b
2055.33	2081.35	2868.3401	2786.4507	-0.451100262	0.001587	0.011393	Ssr4
1167.36	1290.7	1658.2862	2126.7265	-0.621653945	0.001594	0.011429	Rps27rt
1736.49	1904.85	2489.601	2603.5328	-0.483645292	0.001598	0.011448	Laptm4a
10.3857	7.13095	46.039377	42.680865	-2.348829715	0.001598	0.011448	C130050O18Rik
23232.9	23974.3	30296.516	32875.241	-0.420228764	0.001601	0.01146	Rps26
687.535	830.756	1071.9357	1402.3713	-0.702871979	0.001607	0.011494	Plekhn1
897.327	831.647	1316.8999	1206.0393	-0.546127904	0.001613	0.011531	Mknk1
1155.93	1194.43	1570.5508	2186.4797	-0.675633184	0.001614	0.011531	Fam160b1
12704.9	16085.6	19459.889	24992.695	-0.626554731	0.001628	0.011604	Hif1a
33.2343	74.875	165.04682	148.7733	-1.531912394	0.001628	0.011604	Plcb4
1237.98	1602.68	1959.7139	2984.0022	-0.798372068	0.001649	0.011731	Zmym3
5301.91	6642.48	8253.2099	9350.7678	-0.559318734	0.001651	0.011737	Akap13
3.11572	2.67411	13.030012	58.533757	-3.621825129	0.001655	0.011757	AC153536.3

867.208	799.558	1137.9544	1513.3415	-0.668626827	0.001668	0.011818	Tmed3
175.519	36.5461	907.75753	953.61247	-3.135136718	0.001673	0.011848	Gm16194
411.275	385.963	584.61322	686.5522	-0.671968268	0.00168	0.011862	Sema6b
1462.31	1534.05	2465.2784	1985.2699	-0.571443431	0.001681	0.011862	Nampt
77.8929	24.067	741.84204	243.89066	-3.275772621	0.001687	0.011903	Serpinb2
2.07714	1.78274	50.382715	10.97508	-4.004326958	0.001689	0.011912	Ifi207
7.27001	5.34821	25.191357	60.972664	-2.769507574	0.00169	0.011912	Aqp3
13.5014	32.0893	74.705405	98.775716	-1.915800025	0.001694	0.011938	2210408F21Rik
8498.64	9425.33	11620.165	14205.411	-0.526720214	0.001703	0.011991	Ptms
1382.34	791.535	1928.4418	2013.3174	-0.859227125	0.001708	0.012024	Pecam1
327.15	386.854	536.83651	657.28532	-0.739401405	0.00172	0.01209	Abhd18
515.132	546.409	754.87205	887.76199	-0.628241101	0.001735	0.012189	Lgals8
17.6557	16.0446	66.887397	56.094851	-1.871558047	0.001753	0.012296	Tceal8
1339.76	1219.39	1736.4663	1959.6614	-0.530027086	0.001767	0.012369	Gm13841
238.872	314.653	422.1724	668.2604	-0.974791957	0.001773	0.012403	Slc39a4
407.12	431.422	701.01467	612.16555	-0.648041823	0.001779	0.012427	Hcfc1r1
55.0443	32.0893	124.21945	114.62861	-1.461429109	0.001782	0.012441	Nav1
56.0829	10.6964	193.71285	114.62861	-2.217486374	0.001784	0.012452	Arl11
451.779	410.03	636.73327	706.06345	-0.639401811	0.001807	0.012578	Tmem219
444.509	508.08	734.02403	730.45252	-0.619732477	0.001809	0.012578	Impact
9104.13	10353.2	12861.491	14032.249	-0.466812376	0.001816	0.012622	Macf1
150.593	103.399	287.52894	235.35448	-1.046336565	0.001821	0.012644	Fndc3b
44.6586	65.0699	117.27011	167.0651	-1.366385643	0.001824	0.012653	Trp53cor1
12866.9	12889.2	16416.078	18486.912	-0.438347217	0.001827	0.012668	Eef1b2
789.315	875.324	1180.5191	1246.2813	-0.543009043	0.001848	0.012792	Ormdl3
1016.76	1085.69	1423.746	1648.7008	-0.546275686	0.00188	0.012989	Kdelr1
870.324	1089.25	1414.1907	1584.0698	-0.612423761	0.001884	0.013013	AW549877
79.9701	83.7887	149.41081	215.84323	-1.152901061	0.001926	0.01327	Jup
136.053	180.948	280.5796	320.71621	-0.920048324	0.001937	0.013342	Map4k5
1609.79	1294.27	2492.207	2004.7812	-0.631899066	0.001951	0.013422	Igflr
949.255	919.892	1263.9112	1490.1719	-0.558328994	0.001958	0.013442	Rpl28-ps1
191.097	238.887	294.47828	859.71456	-1.421844679	0.001967	0.013502	Jakmip1
210.83	367.244	591.56256	540.2178	-0.967629209	0.001978	0.013559	Pde8a
596.141	685.463	909.49487	1059.7049	-0.618029904	0.001978	0.013559	Mfsd13a
99.703	91.811	220.64154	173.16237	-1.043779189	0.001985	0.013593	Fam84b
8260.81	8366.39	10629.015	11753.091	-0.428669533	0.001989	0.013597	Rpl30
1.03857	0	16.504682	28.047425	-5.516080078	0.001996	0.013635	Csf3r
334.42	591.869	790.48742	1014.5851	-0.960408103	0.002006	0.013689	Gm17767
39.4658	58.8303	97.290759	198.77088	-1.582572997	0.002006	0.013689	Gm3468
60.2372	141.728	246.70157	275.59644	-1.365816588	0.002015	0.013741	Ccdc102a
1443.62	1470.76	1909.3312	2776.6951	-0.6843009	0.002041	0.013908	Runx2
2298.36	2188.31	2911.7734	3996.1484	-0.62207561	0.002049	0.013955	Tbc1d9b
7345.82	7365.38	9367.7103	13311.552	-0.624260723	0.002055	0.013978	Nop53
4214.53	4687.71	5852.2129	6431.3966	-0.464200486	0.002055	0.013978	Etnk1
1862.16	1860.29	2423.5823	3141.3117	-0.579411202	0.002064	0.014014	Rpl3-ps1



259.643	434.988	682.77265	624.36008	-0.910696963	0.002075	0.014085	Wdfy1
42.5815	11.5878	178.9455	71.947744	-2.223702937	0.00208	0.014104	Maob
411.275	409.138	595.9059	678.01602	-0.633609944	0.002118	0.014332	Gm10132
233.679	271.867	363.10301	731.67197	-1.111703765	0.002121	0.014342	Ifng
27.0029	11.5878	58.200722	98.775716	-2.029570394	0.002139	0.014454	Rbm47
714.538	853.931	1185.7311	1152.3834	-0.575468105	0.002139	0.014454	Baz2b
19755.7	19504.9	24812.618	29598.57	-0.470749896	0.00214	0.014455	Rps7
24.9257	17.8274	72.099402	68.289384	-1.721026234	0.002153	0.014532	Dpep2
189.02	177.382	275.3676	499.97585	-1.0784473	0.002169	0.014622	Parp16
106.973	149.75	234.54022	280.47425	-1.000030735	0.002191	0.014759	Ahnak2
4400.43	4543.31	6290.0213	5766.7946	-0.43105134	0.002194	0.014776	Rab8b
824.627	885.129	1183.9938	1281.6454	-0.527290136	0.002203	0.014812	Mdp1
300.147	262.062	497.74647	431.68646	-0.727620701	0.002205	0.014812	Ffar2
208.753	244.235	381.34503	382.90833	-0.753302884	0.002211	0.014845	Scamp1
1273.29	1319.23	1760.789	1837.7161	-0.472655297	0.002212	0.014849	Sos2
1212.01	1340.62	1711.275	2008.4396	-0.542206035	0.002231	0.014962	Tmem59
155.786	191.644	293.60961	335.34965	-0.853136814	0.002235	0.014981	Zfp760
1626.4	1784.52	2257.6668	2631.5802	-0.518667115	0.002245	0.015038	Ezh1
78.9315	23.1756	252.78224	125.60369	-1.898228841	0.002249	0.01505	Met
60.2372	70.4181	119.87611	210.96542	-1.334215882	0.002253	0.015065	Hsd11b1
5138.86	5810.83	7320.261	7604.5107	-0.446640622	0.002262	0.015107	Sik3
344.806	406.464	545.52319	736.54978	-0.768359579	0.002272	0.015156	Cyp4f13
397.773	136.379	789.61875	586.55703	-1.367906179	0.00228	0.015198	Dok3
627.298	579.39	852.16281	946.29575	-0.57523896	0.002282	0.015211	Tmem263
1259.79	1596.44	2029.2073	2255.9886	-0.584398926	0.002287	0.015234	Tnfsf10
258.605	117.661	589.82523	343.88583	-1.315182053	0.002291	0.015254	C3
560.829	476.882	804.3861	778.01119	-0.609838502	0.002292	0.015254	Atp8a1
750.888	632.872	1026.765	1038.9742	-0.578728514	0.0023	0.015297	Klhl5
2.07714	0	29.534695	17.072346	-4.563852408	0.002302	0.015303	Fcgr4
2283.82	2789.09	4262.5514	3401.0552	-0.595388356	0.002307	0.015324	Trim25
4.15429	3.56547	29.534695	29.266879	-2.933149437	0.002308	0.015324	Mmp9
3.11572	5.34821	34.7467	28.047425	-2.881387181	0.002309	0.015324	Cfap45
0	0	9.5553424	18.291799	-6.292499366	0.002317	0.015365	1700071M16Rik
1892.28	1838	2440.087	2766.9395	-0.480731809	0.002318	0.015365	Cmas
82.0472	91.811	221.51021	154.87057	-1.117097911	0.002324	0.0154	C77080
472.55	575.824	773.11407	867.03128	-0.643920131	0.002329	0.01542	Eif2ak4
4640.34	5102.19	6279.5973	7494.7599	-0.499284999	0.00234	0.015486	Eif4a2
14767.5	21191.4	26741.06	28662.03	-0.623551474	0.002346	0.015512	Npc2
5486.78	5777.85	8666.6956	7177.702	-0.492373042	0.00236	0.015596	Os9
598.218	728.248	919.91888	1319.4484	-0.753596613	0.00236	0.015596	Cog6
482.936	402.007	638.47061	820.69206	-0.720656855	0.002367	0.015636	Slc35f6
1728.18	1996.67	2510.4491	2813.2787	-0.514563108	0.002374	0.015665	Uhrflbp11
1187.09	1031.31	1499.3201	1843.8134	-0.591183325	0.002375	0.015665	Rpl9-ps6
584.716	317.327	1172.7011	721.91634	-1.072863609	0.002378	0.015677	Wdfy4
120.474	168.469	408.27372	232.91558	-1.151438156	0.002386	0.015728	Pde5a

2.07714	2.67411	25.191357	24.389066	-3.376616145	0.002428	0.015948	Gm32051
0	4.45684	23.454022	39.022505	-3.756857064	0.002436	0.015996	Gm20544
4.15429	4.45684	36.484035	25.608519	-2.852778128	0.002444	0.016045	Fblim1
1148.66	1428.86	1868.5038	1925.5167	-0.557069172	0.002447	0.016048	Vps39
588.871	618.61	1033.7143	828.00878	-0.625907189	0.002472	0.016182	Ninj1
2967.2	3265.08	4019.3245	5210.7239	-0.566058268	0.002474	0.016188	Gm6472
999.107	1211.37	1512.3501	1895.0304	-0.623030774	0.002477	0.016197	Lpin1
39.4658	58.8303	100.76543	170.72346	-1.457503569	0.002478	0.0162	Trim36
549.405	660.504	859.98082	1038.9742	-0.648432903	0.00248	0.016205	Btg3
508.9	1543.85	6581.8936	4222.9667	-2.395912605	0.002481	0.016205	Baspl
1485.16	1594.66	2078.7213	2174.2852	-0.465187423	0.00249	0.016261	2810403A07Rik
1654.45	1440.45	2298.4942	2101.118	-0.508213693	0.002515	0.016388	Atp13a2
65.4301	33.872	170.25883	110.97025	-1.510577103	0.002524	0.016436	Slc22a23
1759.34	2108.98	2651.1732	2913.2739	-0.523892356	0.002533	0.016477	Krit1
1.03857	0	51.251382	4.8778131	-5.856697256	0.002543	0.016535	Ptx3
1302.37	1290.7	1734.729	1858.4468	-0.470210845	0.00257	0.016696	Ap3m1
21822.5	21179.8	27032.932	32670.373	-0.473335944	0.002572	0.016697	Rpl32
11.4243	8.91369	57.332055	36.583598	-2.216843118	0.00259	0.016801	Fam198b
1082.19	999.224	1422.8774	1521.8777	-0.500446717	0.002594	0.016813	Qsox1
580.562	705.073	939.02956	1013.3657	-0.601420342	0.002616	0.016929	Tmem167b
2980.7	2817.62	4098.3732	3769.3301	-0.44066947	0.002619	0.016937	Serf2
5050.58	5408.83	6649.6497	8632.5098	-0.54673332	0.002634	0.017015	Ptpn22
2227.74	2576.06	4997.4441	3088.8752	-0.751695143	0.002661	0.01716	Bst2
17.6557	39.2202	88.604084	97.556262	-1.70125674	0.002668	0.017198	Slc7a3
205.637	274.542	411.74839	419.49193	-0.789655315	0.002675	0.017238	Snx32
180.712	142.619	293.60961	289.01043	-0.851673092	0.002682	0.017273	2810025M15Rik
0	1.78274	20.84802	21.950159	-4.514814015	0.002692	0.017314	Spaca9
3441.83	3108.2	4283.3994	4719.2842	-0.458756961	0.002694	0.017316	Nsf
573.292	420.726	807.86077	797.52245	-0.692917887	0.002714	0.017425	Rreb1
75.8158	21.3928	291.87228	103.65353	-2.032837752	0.002732	0.017525	Npl
1342.87	1578.61	1924.9672	2766.9395	-0.682456815	0.002739	0.017559	Zfp36
42.5815	83.7887	120.74478	259.74355	-1.582502131	0.002752	0.017626	Ypel4
201.483	301.283	562.89654	401.20013	-0.939444121	0.002762	0.017676	Tdrd7
11.4243	7.13095	50.382715	37.803052	-2.26066912	0.002795	0.017873	Lefty1
18.6943	57.0476	729.6807	162.18729	-3.556157849	0.002809	0.017935	Mrvi1
4.15429	0	15.636015	49.997585	-4.024526198	0.002813	0.017952	Dao
1702.22	1851.37	2321.0795	2749.8671	-0.512199659	0.002818	0.017975	Ccn1
0	0	3.47467	29.266879	-6.522067236	0.00282	0.017981	Olfr221
652.223	648.916	923.39355	947.5152	-0.523751984	0.002822	0.017991	Rabepk
14.54	6.23958	62.54406	39.022505	-2.306570591	0.002825	0.018003	Dach1
577.446	918.11	1275.2039	1270.6703	-0.766477975	0.002832	0.018023	Spg11
1972.25	2106.3	2632.0625	3301.06	-0.540011471	0.002836	0.018034	Pfdn5
50.89	90.0282	148.54214	197.55143	-1.289429885	0.002839	0.018045	Rbpsuh-rs3
3.11572	1.78274	26.060025	23.169612	-3.345857593	0.00284	0.01805	AC121583.1
1362.61	1333.49	1915.4118	1796.2547	-0.461651552	0.002878	0.01824	Ctsc

74.7772	116.769	200.66219	207.30706	-1.086788278	0.002879	0.01824	Cela1
1192.28	1214.04	1574.0255	1969.417	-0.557317778	0.002884	0.018262	Zdhhc20
21.81	49.9166	125.95679	97.556262	-1.634386154	0.0029	0.018358	Fzd6
937.831	915.436	1239.5885	1427.9798	-0.524640065	0.002904	0.018376	Cops9
0	0	16.504682	9.7556262	-6.217467784	0.002909	1	4930430E12Rik
125.667	74.875	412.61706	157.30947	-1.512261141	0.002918	0.018448	Mpeg1
15.5786	1.78274	153.75415	18.291799	-3.328145359	0.002958	0.018681	Ccl2
1283.68	1641.9	1973.6125	2738.8921	-0.686745421	0.002961	0.018681	2010016I18Rik
113.204	88.2455	254.51958	173.16237	-1.091654344	0.002961	0.018681	Chn2
15.5786	10.6964	66.887397	41.461412	-2.05517554	0.002962	0.018681	Tacstd2
176.557	258.497	421.30373	373.1527	-0.867544652	0.002964	0.018687	Mrgpre
4.15429	31.1979	55.59472	163.40674	-2.616308391	0.002965	0.018687	Hormad2
569.138	859.279	1216.1345	1153.6028	-0.729473401	0.002974	0.018727	Nckap1
13.5014	7.13095	32.140697	74.38665	-2.370529385	0.002974	0.018727	Fam71f2
1725.07	1796.11	2301.1002	2548.6574	-0.461288764	0.002983	0.018765	Got1
11.4243	5.34821	36.484035	49.997585	-2.375932227	0.002991	0.018805	Tnfsf12
2.07714	0.89137	48.64538	7.3167197	-4.268681117	0.003004	0.018874	Mcpt2
7584.69	7261.98	9382.4776	10714.117	-0.43668056	0.003005	0.018876	Rps21
1738.57	1798.78	2261.1415	3405.933	-0.679174935	0.003016	0.018925	Myo18a
817.356	954.656	1394.2113	1220.6727	-0.561575516	0.003025	0.018974	Tnfrsf26
413.352	426.074	586.35056	759.71939	-0.679175536	0.003029	0.018995	Gm3362
588.871	1090.14	1339.4853	1888.9331	-0.941886161	0.003032	0.018999	Ikzf4
405.043	516.994	655.84396	935.32067	-0.784685552	0.003039	0.019034	Dusp22
0	0	12.161345	13.413986	-6.17413267	0.003046	1	Gm37199
6794.34	7717.47	10065.25	9550.7581	-0.434779734	0.003059	0.019114	Zc3hav1
122.552	187.187	270.15559	348.76364	-0.994163487	0.003083	0.019233	Efemp2
2436.49	3000.35	4262.5514	3655.9209	-0.542508314	0.003102	0.019321	Pde3b
1289.91	1478.78	1997.0666	1897.4693	-0.492109821	0.003113	0.019379	Dcaf11
51.9286	40.1116	111.18944	110.97025	-1.274412659	0.003113	0.019379	Grin2d
6786.03	11137.7	16304.02	13607.879	-0.738807791	0.00312	0.019405	Neat1
86.2015	118.552	198.92486	212.18487	-1.002040156	0.003121	0.019405	Rnf135
151.632	191.644	280.5796	346.32473	-0.865063288	0.00315	0.019561	Katnall
261.72	270.085	437.80842	409.7363	-0.672957132	0.003152	0.019561	Sertad3
76.8544	27.6324	140.72413	174.38182	-1.597812091	0.003159	0.019593	Gstm1
8274.31	8143.54	10289.366	12471.349	-0.471114896	0.003167	0.019635	Rpl36a
250.296	521.451	703.62067	891.42035	-1.045182482	0.003168	0.019635	Nebl
1299.25	1862.07	2365.3816	2582.802	-0.64565727	0.003176	0.019667	Mapkbp1
5802.5	6989.22	9063.6766	8682.5074	-0.47222295	0.003176	0.019667	Capg
846.437	1100.84	1309.0819	2086.4846	-0.800824527	0.003177	0.019667	Cicf1
823.588	948.416	1266.5172	1277.987	-0.521385311	0.003179	0.019677	Clec2d
805.932	743.401	1058.037	1184.0891	-0.532751837	0.003214	0.019843	Htatip2
213.946	228.19	361.36568	362.17762	-0.710019984	0.003227	0.019908	Gm10154
14.54	30.3065	61.675392	99.995169	-1.837485818	0.003228	0.019909	Gm42632
91.3944	90.9196	324.01298	140.23713	-1.352873852	0.003232	0.019924	Wdfy3
12.4629	8.02232	48.64538	41.461412	-2.146857907	0.003246	0.019977	Kif19a

5.19286	0.89137	39.958705	20.730706	-3.356914266	0.003246	0.019977	Clmp
3551.92	4632.44	5902.5956	5959.4682	-0.535185656	0.003258	0.020033	Gdi1
341.69	422.509	504.69581	1142.6277	-1.105907535	0.003291	0.020212	C1qtnf12
0	1.78274	21.716687	19.511252	-4.463311014	0.003309	0.020305	Adgrg6
51.9286	61.5044	101.6341	198.77088	-1.398411936	0.003313	0.020323	U2af114
348.96	254.04	484.71646	536.55944	-0.761036978	0.00334	0.020461	Mgat4b
254.45	308.414	1042.401	354.8609	-1.31323882	0.003358	0.02054	Slc24a3
51.9286	58.8303	105.97743	162.18729	-1.269780697	0.003365	0.020572	Gm38190
14.54	33.872	69.4934	101.21462	-1.805959534	0.003367	0.020576	Rsph9
87.2401	295.934	549.86652	484.12295	-1.429827578	0.00339	0.020712	Lrrc32
89.3172	88.2455	179.81417	168.28455	-0.972250937	0.003396	0.020732	Vdr
5.19286	12.4792	33.009365	62.192117	-2.410449799	0.003397	0.020732	Platr23
689.612	783.513	972.90759	1537.7306	-0.767513258	0.003419	0.020847	Vamp1
187.982	118.552	274.49893	332.91075	-0.987919627	0.003442	0.020926	Ptgr1
3172.84	3155.45	3992.3958	5057.0728	-0.515583893	0.003476	0.021065	Gm15427
2.07714	7.13095	26.060025	42.680865	-2.873077553	0.003483	0.021095	Tmem35a
16.6172	9.80506	39.090037	74.38665	-2.103824181	0.003484	0.021095	Gm45620
0	0	23.454022	4.8778131	-6.331609207	0.003508	0.021213	Elane
1666.91	1508.2	2488.7324	2065.7539	-0.521377657	0.00351	0.021215	Syne1
22113.3	21929.5	27386.48	32398.435	-0.440814621	0.003515	0.021237	Fau
322.996	352.091	564.63387	492.65913	-0.648068412	0.003524	0.021286	Tm7sf2
10.3857	25.8497	79.91741	59.753211	-1.938559431	0.003539	0.021361	Irgc1
23223.5	23233.5	28871.033	33828.853	-0.432505354	0.003596	0.021671	Rpl7
1158.01	817.385	2231.6068	1336.5208	-0.854337097	0.003598	0.021679	Cd9
5.19286	2.67411	37.352702	21.950159	-2.934733256	0.003602	0.021688	Bco1
19012.1	18861.4	23527.859	28230.343	-0.450524905	0.003613	0.021734	Rps24
2287.98	2643.8	3230.5744	3726.6492	-0.495809956	0.003619	0.021761	Elmo1
724.924	833.43	1086.703	1174.3335	-0.535848629	0.003628	0.021802	Zfp53
1554.74	1798.78	2245.5055	2470.6123	-0.491211652	0.003639	0.021849	Polk
2660.82	2725.81	3476.4073	3701.0407	-0.413812432	0.003646	0.021874	Tecr
175.519	227.299	383.95103	324.37457	-0.814165235	0.003647	0.021874	I118bp
372.847	455.489	634.99594	648.74915	-0.630767463	0.003647	0.021874	Parp6
1837.23	4076.23	8574.6168	9288.5756	-1.59481422	0.003664	0.021948	Dgat1
4058.74	4599.46	5525.5939	6848.4496	-0.514785696	0.003665	0.02195	Nktr
203.56	65.9613	433.46508	302.42441	-1.453420083	0.003679	0.022011	Atp1a3
589.909	385.963	670.61131	1354.8126	-1.052827828	0.003689	0.022052	Fam189b
48.8129	16.936	131.16879	91.458996	-1.770355076	0.003706	0.022136	Pld1
249.257	238.887	370.05235	421.93084	-0.696941234	0.003737	0.022305	Gm11518
340.652	63.2872	2351.4829	1390.1767	-3.212139194	0.003748	0.022362	Slpi
14875.5	14763.7	18395.772	22428.185	-0.46181087	0.003757	0.0224	Rpl9
38.4272	37.4375	111.18944	82.922823	-1.359554036	0.003765	0.022429	Vegfc
200.444	737.162	2337.5842	2603.5328	-2.397374991	0.003781	0.022486	Scd1
1392.73	1493.04	1884.1398	2147.4572	-0.481584365	0.003792	0.022517	Rpl23a-ps3
3.11572	27.6324	77.311407	93.897903	-2.461739417	0.003797	0.022538	5930412G12Rik
2792.72	2904.08	3846.4597	3699.8213	-0.405675577	0.003812	0.022597	Galnt1

49.8515	2.67411	912.10087	439.00318	-4.687920843	0.003819	0.022626	Saa3
93.4715	159.555	251.91357	269.49918	-1.039173629	0.003833	0.022702	Arl10
1619.13	1808.59	2290.6762	2415.7369	-0.456855228	0.00385	0.02278	Ccdc82
14.54	30.3065	76.44274	73.167197	-1.729770215	0.003864	0.02283	Celf4
1321.06	1320.12	1694.7703	2226.7217	-0.569278173	0.003889	0.022952	Uba52
4357.85	5202.92	9496.2731	22903.772	-1.760751774	0.00391	0.023046	Lag3
62.3143	90.0282	152.88548	175.60127	-1.103487219	0.003916	0.023066	Gdap10
2174.77	2403.13	2928.2781	3647.3848	-0.521766439	0.003926	0.023092	Cdkn1b
429.969	393.094	745.31671	569.48468	-0.678161787	0.003926	0.023092	Asb1
25535.4	24715	31115.67	38215.227	-0.464310231	0.003943	0.023176	Rpl18a
16.6172	16.0446	64.281395	48.778131	-1.795636926	0.003947	0.023189	Scimp
4.15429	4.45684	23.454022	35.364145	-2.765353547	0.003961	0.023263	Tmigd3
289.762	404.681	515.11982	714.59962	-0.821390658	0.003978	0.023339	Stn1
3277.73	3492.38	4268.6321	5265.5993	-0.493471723	0.004	0.023454	Gas5
5.19286	3.56547	28.666027	29.266879	-2.734018061	0.004001	0.023454	Ifitm10
641.838	695.268	891.25285	1173.1141	-0.624814755	0.004005	0.023472	Pvr
25.9643	49.0253	86.866749	131.70095	-1.533617956	0.004007	0.023475	Zfp629
6933.51	8738.98	10176.44	13401.792	-0.588998085	0.00401	0.023485	Itk
655.339	652.482	882.56617	1026.7797	-0.544757743	0.004022	0.023546	Fam117a
547.328	98.9419	2910.0361	2596.216	-3.091282215	0.004077	0.023834	Cd200r3
235.756	105.182	600.24924	279.2548	-1.371277262	0.004077	0.023834	Gata1
431.008	616.827	1363.808	706.06345	-0.982885611	0.004084	0.023858	Samd9l
8605.61	8246.05	11054.663	10795.82	-0.374840592	0.004104	0.023938	Rps28
18820	17888.9	22762.563	27891.335	-0.464476868	0.004111	0.023972	Rps15
5921.94	5974.84	7397.5724	9284.9173	-0.487509688	0.004121	0.024014	Tpm4
1154.89	1466.3	1803.3537	2091.3624	-0.570281396	0.004125	0.024027	Sgsm2
158.902	41.8943	339.64899	263.40191	-1.591378127	0.004142	0.024098	Akr1c12
1358.45	1628.53	1966.6632	2496.2209	-0.578268184	0.004146	0.024099	Unc13a
82.0472	94.4851	153.75415	209.74596	-1.037162639	0.004146	0.024099	Dhdh
545.251	492.036	723.60002	823.13096	-0.575842196	0.004153	0.024126	Zfp652
1153.85	195.21	6777.3438	4453.4434	-3.057651967	0.004159	0.024136	Hdc
182.789	270.085	376.13303	439.00318	-0.844643229	0.004161	0.024137	Rras
912.905	1047.36	1344.6973	1437.7354	-0.504394409	0.004203	0.024356	Gm2000
14.54	20.5015	76.44274	47.558678	-1.823797967	0.00423	0.024462	Ahrr
135.014	214.82	315.3263	349.98309	-0.923853162	0.004236	0.024481	Zbtb26
1.03857	0.89137	26.060025	12.194533	-4.321957963	0.004255	0.024569	H2-M2
1.03857	0.89137	26.060025	12.194533	-4.321957963	0.004255	0.024569	Muc20
1283.68	2803.35	3823.8743	3937.6146	-0.924879772	0.0043	0.024779	Irs2
2713.79	2978.06	4059.2832	3660.7987	-0.439864043	0.004311	0.024832	Spes2
45.6972	26.7411	64.281395	191.45417	-1.818273236	0.004314	0.024842	Dkk1l
978.335	1203.35	1582.7122	1562.1197	-0.526998284	0.004328	0.024909	Rnf11
13.5014	12.4792	39.958705	60.972664	-1.953862942	0.004339	0.024946	Nipal1
721.808	670.309	952.05957	1040.1936	-0.516753997	0.00434	0.024946	Rpl36a-ps2
3738.86	3776.73	4755.0859	5189.9932	-0.403850376	0.004352	0.024999	Adipor1
2930.85	3577.95	4364.1855	4771.7207	-0.488750614	0.004355	0.025007	Zfc3h1

228.486	262.954	343.99233	604.84883	-0.945761396	0.004358	0.025014	Cox6b2
144.362	38.3289	316.19497	236.57394	-1.60252736	0.00437	0.025065	Anxa3
1452.96	1846.92	2209.8901	2769.3784	-0.59260062	0.004375	0.025072	Stx16
163.056	121.226	250.17624	270.71863	-0.875155115	0.00438	0.025092	Il11ra1
0	0	15.636015	8.536173	-6.098505105	0.00438	1	1700016F12Rik
482.936	475.991	650.63195	837.7644	-0.632500965	0.004387	0.025128	Usp40
96.5872	53.4821	229.32822	140.23713	-1.307449733	0.004429	0.02533	Rap1gap2
59.1986	70.4181	124.21945	157.30947	-1.114173498	0.004437	0.025346	Pltp
678.188	679.223	1027.6336	915.80941	-0.518697985	0.004437	0.025346	Pnpla7
295.993	222.842	381.34503	565.82632	-0.867244653	0.004438	0.025346	Rasgrp2
0	0.89137	10.42401	28.047425	-5.326607593	0.004446	0.025381	Cd300c2
320.919	334.263	464.73711	575.58195	-0.664797235	0.004455	0.025408	Rrm2b
1787.38	2549.31	4193.9267	8291.0629	-1.525368546	0.00446	0.025427	Ecm1
625.221	770.143	1020.6843	1040.1936	-0.56165921	0.004464	0.025438	Dennd1b
27.0029	22.2842	64.281395	79.264463	-1.542061338	0.004465	0.025438	Dthd1
11511.5	12595	15593.45	15888.257	-0.385025209	0.00449	0.025542	Anxa6
1158.01	1220.28	1551.4401	1773.0851	-0.482316581	0.004497	0.025571	Riok1
4.15429	0.89137	31.27203	19.511252	-3.368893743	0.004504	0.025593	Hba-a1
2684.71	2628.65	3371.2985	3765.6717	-0.425362595	0.004508	0.025607	Stxbp2
35936.7	33377.3	42979.062	51498.732	-0.44679794	0.004532	0.025703	Rps3
647.031	615.936	845.21347	1032.8769	-0.571260476	0.004533	0.025703	Golim4
393.619	466.186	620.22859	698.74673	-0.61540069	0.004534	0.025705	Nhlrc3
76.8544	102.507	114.66411	459.73389	-1.674946486	0.004538	0.025716	D630039A03Rik
1797.77	2200.79	2924.8035	2723.0392	-0.498077324	0.004577	0.025897	Nub1
44.6586	104.29	192.84418	182.91799	-1.330164796	0.004579	0.025897	Dysf
259.643	302.174	437.80842	449.97826	-0.658725739	0.004582	0.025897	Fbxo4
201.483	254.04	334.43699	503.6342	-0.875680327	0.004583	0.025897	Prpf40b
67.5072	64.1785	138.9868	134.13986	-1.05357667	0.004599	0.025964	Susd2
2780.26	2393.32	3463.3773	3597.3872	-0.448801288	0.004621	0.026068	Arrb2
5.19286	9.80506	45.17071	31.705785	-2.350584859	0.004624	0.026076	Atp8b1
3.11572	24.9583	63.412727	90.239543	-2.435473285	0.004642	0.026158	Gm3667
520.325	453.707	663.66197	885.32308	-0.668064817	0.004672	0.026321	Cpm
58.1601	73.9836	135.51213	145.11494	-1.083032003	0.00468	0.026357	BC051226
3.11572	0.89137	19.979352	24.389066	-3.498383266	0.004707	0.026486	Mir7007
429.969	421.617	571.58321	848.73948	-0.735902679	0.004708	0.026486	Aplp1
2698.21	2722.24	3396.4899	4169.3108	-0.480574107	0.004713	0.026502	Rps6ka3
4319.42	4345.42	6054.6124	5432.6644	-0.407023447	0.004719	0.026525	Ctsz
384.272	394.876	533.36184	720.69689	-0.684331224	0.004722	0.026533	Dapk1
25.9643	36.5461	64.281395	128.04259	-1.611935003	0.004729	0.026553	Kcnmb4
1.03857	4.45684	35.615367	18.291799	-3.271037232	0.004741	0.026598	Tubb1
2225.66	2629.54	3112.4356	4066.8767	-0.563635648	0.004767	0.026694	Gmfg
44.6586	69.5268	120.74478	146.33439	-1.219476168	0.004772	0.026703	P3h3
2403.26	2699.96	3247.0791	4002.2457	-0.505812182	0.004774	0.026708	Arglu1
245.103	279.89	429.99041	403.63904	-0.666862633	0.004776	0.02671	Tanc2
423.738	469.751	622.83459	732.89142	-0.599575974	0.004849	0.027089	Rhbdd2

292.877	930.589	2731.0906	2573.0464	-2.115823262	0.004887	0.027254	Ramp3
86.2015	12.4792	774.85141	367.05544	-3.534844764	0.00489	0.02726	Adgre1
69.5844	51.6994	132.03746	131.70095	-1.123963994	0.00491	0.027355	Tiam2
91.3944	90.9196	202.39953	156.09002	-0.978812639	0.004912	0.027355	Vldlr
1223.44	2568.03	4748.1365	6836.2551	-1.611178205	0.004947	0.027514	Il7r
402.966	316.436	712.30735	507.29256	-0.764507095	0.004965	0.027591	8-Mar
39894.7	39339.7	48633.218	57855.741	-0.426470715	0.004982	0.027669	Rpl4
494.36	638.22	803.51743	967.02645	-0.642585186	0.005018	0.027851	Senp7
0	0	7.8180075	15.852893	-6.05766761	0.00502	1	Mall
529.672	508.08	700.146	865.81183	-0.59216044	0.005022	0.027862	B4galt7
40.5043	60.6131	86.866749	207.30706	-1.53270067	0.00503	0.027888	Tspan2
9.34715	22.2842	43.433375	89.020089	-2.050681265	0.005032	0.027888	Tctex1d1
1427	1829.09	2380.1489	2307.2056	-0.525259796	0.005063	0.028034	2810474O19Rik
13.5014	13.3705	59.938057	40.241958	-1.903611837	0.005068	0.028052	Nynrin
318.842	353.873	462.13111	684.11329	-0.765973416	0.005076	0.028082	Card6
49.8515	47.2425	88.604084	157.30947	-1.335630419	0.005113	0.028249	Tubg2
4.15429	12.4792	34.7467	52.436491	-2.3698834	0.005115	0.02825	Gm35037
6.23143	14.2619	32.140697	68.289384	-2.275124462	0.00512	0.02827	AC158622.3
104.896	19.6101	919.05021	356.08036	-3.358287856	0.005145	0.028395	Len2
15912	15873.5	19532.857	23034.253	-0.421283437	0.005206	0.028706	Rpl37a
559.791	455.489	705.35801	882.88418	-0.644975176	0.005217	0.028756	Rab3d
9.34715	6.23958	54.726052	25.608519	-2.380117831	0.005237	0.028859	Oas1g
1086.35	1158.78	1460.2301	1685.2844	-0.485493004	0.005244	0.028876	Suco
105.934	158.664	372.65836	204.86815	-1.127410212	0.00525	0.028879	C430002N11Rik
3428.33	3368.48	4197.4013	5771.6724	-0.552189247	0.005254	0.028884	Mdh1
100.742	139.054	206.74286	254.86574	-0.940195024	0.005276	0.028971	Gm8399
214.984	210.363	406.53639	310.96059	-0.757189263	0.00528	0.028982	P2rx7
1246.29	219.277	5734.9428	6319.2069	-3.040178553	0.005295	0.029049	Rab44
1225.52	1263.07	1587.0555	1990.1478	-0.522480031	0.00531	0.02909	Rpl31-ps8
16.6172	8.91369	66.887397	37.803052	-2.05036098	0.005315	0.02911	1810011H11Rik
63.3529	65.9613	136.3808	130.4815	-1.045403526	0.005338	0.029216	Ahr
273.145	263.845	385.68837	480.46459	-0.687727149	0.005377	0.029407	Dlg3
2688.86	2729.37	3418.2066	3798.597	-0.41315925	0.005382	0.029426	Sh3glb1
83.0858	101.616	152.88548	234.13503	-1.061535381	0.0054	0.029491	Plexd1
116.32	140.836	205.00553	284.13261	-0.922878591	0.005404	0.029496	Mtm1
1967.06	2095.61	2561.7004	3119.3615	-0.483017368	0.005491	0.02993	2700060E02Rik
6.23143	16.0446	66.01873	36.583598	-2.196320787	0.005502	0.029976	Gm9885
1.03857	2.67411	25.191357	17.072346	-3.488419222	0.005505	0.029985	Tgfa
1.03857	0	13.89868	20.730706	-5.150955429	0.005514	0.030011	Clec4a2
25445	29896.5	41305.139	35003.187	-0.463496018	0.005517	0.030018	Vim
9198.64	9911.13	12196.092	12546.955	-0.372631989	0.00552	0.030023	Wdr1
2862.31	3216.95	4133.1199	3980.2955	-0.416336018	0.005533	0.030071	Tmem127
15.5786	13.3705	52.988717	47.558678	-1.800285278	0.005537	0.030077	Ccdc8
0	0	19.979352	4.8778131	-6.142657942	0.005549	1	Psg17
1056.23	916.327	1278.6786	1710.893	-0.599113315	0.00558	0.030271	Dusp7

32.1957	71.3095	131.16879	139.01767	-1.377572484	0.005606	0.03039	Chac1
21.81	22.2842	51.251382	87.800636	-1.650527064	0.005619	0.030443	Car9
246.142	775.491	1895.4325	2862.0568	-2.218907356	0.005624	0.030458	4930539E08Rik
5553.25	6262.76	8703.1796	7433.7872	-0.449737291	0.00563	0.030472	Rap1b
9.34715	40.1116	111.18944	430.46701	-3.448839192	0.005657	0.030605	Ccr8
1.03857	3.56547	9.5553424	47.558678	-3.598746721	0.005697	0.030783	AC117245.3
6842.12	8760.37	12640.849	10121.462	-0.544913674	0.005726	0.030914	Rsrp1
939.908	963.57	1216.1345	1632.8479	-0.580510165	0.005737	0.030954	Fln
1500.74	1761.34	2096.9633	2676.7	-0.548347607	0.005746	0.030985	Scarb2
5617.64	5825.09	6996.248	9732.4566	-0.547614341	0.005757	0.031013	AC147029.1
607.565	484.013	754.87205	948.73465	-0.641699633	0.005763	0.031032	Trpm4
1074.92	1106.19	2026.6013	1369.446	-0.639859003	0.005828	0.031354	Iigp1
67.5072	73.0922	130.30012	157.30947	-1.029073085	0.005873	0.031562	Trbv14
12.4629	0.89137	68.624732	31.705785	-2.936389259	0.005877	0.031576	Marco
17316.1	21882.2	29542.513	25628.03	-0.493107611	0.00589	0.031632	Odc1
106.973	110.53	171.99616	254.86574	-0.968459212	0.005921	0.031769	Gm10243
5.19286	1.78274	34.7467	19.511252	-2.987383054	0.005969	0.031946	Htr7
52.9672	103.399	249.30757	141.45658	-1.320874275	0.00597	0.031946	Upk3bl
15.5786	22.2842	46.908045	81.70337	-1.753530355	0.00602	0.032172	P3h4
1.03857	3.56547	20.84802	24.389066	-3.266307868	0.006062	0.032321	Gm16587
2772.99	3540.52	4306.8534	4594.9	-0.495270516	0.00609	0.032435	Ip6k1
276.26	488.47	846.08214	592.65429	-0.911522327	0.006097	0.032455	Atp10d
14.54	20.5015	39.958705	91.458996	-1.895672001	0.00611	0.032513	4930565N06Rik
1.03857	12.4792	86.866749	23.169612	-3.009830815	0.006124	0.032574	Kcnd3
446.586	462.62	654.97529	658.50477	-0.530430697	0.006128	0.032587	Sesn1
401.928	386.854	548.12919	634.11571	-0.582607066	0.006153	0.032689	Fam199x
79.9701	96.2678	192.84418	153.65111	-0.976371898	0.006159	0.032706	Gm8451
0	0	6.94934	15.852893	-6.002969886	0.006164	1	Nmur1
1365.72	1515.33	1841.5751	2235.2579	-0.499863551	0.006171	0.032761	Rhoh
340.652	432.314	537.70518	746.30541	-0.729334719	0.006201	0.032885	Pou6f1
810.086	752.315	1014.6036	1286.5232	-0.557510605	0.006232	0.033011	Ifnar2
22.8486	6.23958	61.675392	59.753211	-2.075880568	0.006244	0.033028	St6galnac3
26499.2	26056.5	31928.742	40240.739	-0.457485271	0.006246	0.033029	Rpl5
613.796	841.452	1174.4385	1056.0465	-0.615661783	0.006266	0.033123	Ypel5
22596.2	22162.1	27758.27	29391.263	-0.352560055	0.006283	0.033192	Rps5
686.496	766.577	949.45357	1234.0867	-0.585819075	0.006293	0.033232	Sec23a
0	0	6.0806725	17.072346	-6.023866329	0.006296	1	AC153365.1
275.222	290.586	428.25307	436.56427	-0.611430073	0.006296	0.033238	Nln
157.863	239.778	341.38633	368.27489	-0.832638107	0.006305	0.033274	Gm3571
3102.22	2810.49	3776.0976	4103.4603	-0.414215214	0.00632	0.033325	Calu
2228.78	2193.66	2866.6027	2915.7128	-0.386768582	0.006321	0.033325	Ergic3
7.27001	4.45684	58.200722	17.072346	-2.699523547	0.006329	0.03336	Mfap3l
1025.07	871.759	1289.1026	1387.7378	-0.497064411	0.006387	0.033631	Il3ra
67.5072	66.8526	125.08812	149.99275	-1.031307537	0.006413	0.03375	Sh2b2
24.9257	73.9836	141.5928	143.89549	-1.522372325	0.006414	0.03375	Gprc5a



19.7329	58.8303	182.42017	84.142276	-1.759775422	0.006422	0.033781	Trim30c
561.868	630.198	885.17218	823.13096	-0.519145815	0.006444	0.033876	Cisd3
134916	133494	163972.28	183770.39	-0.373574245	0.006472	0.033988	Eef2
364.539	303.957	504.69581	519.4871	-0.616338446	0.006502	0.034136	Pik3cb
4490.79	3749.1	5741.8921	5441.2005	-0.440903543	0.006523	0.034236	Uald2
652.223	702.399	886.90951	1113.3608	-0.560605343	0.006542	0.0343	Uck11
636.645	656.047	851.29414	1023.1213	-0.534583465	0.006565	0.034385	Lin54
956.525	868.193	1388.9993	1191.4059	-0.501191815	0.006568	0.034391	Lrpap1
3.11572	14.2619	28.666027	74.38665	-2.545748514	0.00658	0.034444	Zfp973
3.11572	13.3705	53.857385	35.364145	-2.421246938	0.006596	0.034514	Plat
2.07714	0	40.827372	6.0972664	-4.566191082	0.006606	0.034538	Ms4a7
6853.54	6823.43	8326.1779	10772.65	-0.48151347	0.006636	0.034657	Rpl7a
10.3857	35.6547	87.735417	78.04501	-1.838509923	0.006641	0.034673	Tmem254c
329.227	346.742	456.9191	654.84641	-0.715112609	0.006673	0.03483	Mr1
230.563	262.954	378.73903	397.54177	-0.651905846	0.00673	0.035095	Zfp120
4239.45	4925.7	5768.8208	6967.956	-0.474397319	0.006759	0.035187	Abca7
11.4243	27.6324	48.64538	98.775716	-1.902172355	0.00677	0.035209	Gm26660
27.0029	39.2202	66.01873	124.38423	-1.514146892	0.006776	0.035209	Lad1
7.27001	0	28.666027	42.680865	-3.32821373	0.006837	0.035483	Fgf3
11.4243	16.0446	46.908045	49.997585	-1.812525633	0.006844	0.035494	Dusp18
0	0	10.42401	10.97508	-5.9173364	0.006852	1	AC153365.2
1644.06	2189.2	2375.8056	4248.5752	-0.788491062	0.006853	0.035527	Ppp1r16b
36.35	10.6964	64.281395	110.97025	-1.903642119	0.006887	0.035691	Emid1
15037.5	14604.2	18036.143	21739.194	-0.424156108	0.006895	0.035724	Rpl31
1609.79	1791.65	2189.0421	2436.4677	-0.442755948	0.006963	0.036019	Pank2
1429.08	1528.7	1916.2805	2048.6815	-0.42222811	0.007021	0.03628	Gng5
231.602	376.158	401.32438	925.56504	-1.123668225	0.007048	0.036375	Gata3
100.742	107.856	161.57215	257.30464	-1.000979008	0.00705	0.036375	Abhd14b
4.15429	0	39.090037	14.633439	-3.745553749	0.007057	0.036397	Cxcl1
0	0.89137	33.878032	4.8778131	-5.357568437	0.007089	0.03654	Syt13
397.773	361.004	608.93591	529.24272	-0.58694625	0.007095	0.036553	Tmem9
2386.64	2627.75	3394.7526	3233.9901	-0.402643928	0.007131	0.03672	Riok3
204.599	44.5684	1719.9616	548.75398	-3.187669982	0.007135	0.036729	Acod1
52.9672	85.5714	121.61345	207.30706	-1.239959717	0.007138	0.036732	Dgkh
23.8872	2.67411	82.523412	58.533757	-2.425989921	0.007183	0.036929	Homer2
49.8515	114.095	146.80481	285.35207	-1.391514965	0.007253	0.03722	E430014B02Rik
572.253	141.728	2076.984	1829.1799	-2.45226329	0.007263	0.037258	Serpinb1a
270.029	659.613	1287.3652	2152.335	-1.88697947	0.007273	0.037285	Cysltr2
1465.43	1492.15	1942.3405	1964.5392	-0.401472453	0.007277	0.037292	Psenen
47.7743	28.5238	200.66219	58.533757	-1.772844239	0.007293	0.037339	Kalrn
5512.74	11285.6	15025.342	14331.015	-0.80526222	0.007348	0.037574	Rps27a
667.802	910.087	1312.5566	1102.3858	-0.613907578	0.00736	0.037604	Snape1
607.565	749.641	911.2322	1140.1888	-0.594120912	0.007387	0.037712	Ddit3
1852.81	1999.34	2521.7417	2558.413	-0.398943997	0.00741	0.037818	Sppl2a
653.262	674.766	879.96017	993.85442	-0.495528357	0.007425	0.03787	Rpl9-ps4

1844.5	2291.71	2637.2745	3509.5865	-0.570749485	0.007436	0.037909	Spag9
802.816	1033.1	1471.5227	1247.5007	-0.566638602	0.00748	0.038106	Cpeb4
5830.55	9898.65	15538.724	26624.323	-1.422486875	0.007488	0.038132	Thy1
180.712	179.165	438.67708	247.54902	-0.934777463	0.007513	0.03825	Hist1h1c
1409.34	1360.23	1958.8452	1766.9878	-0.428578752	0.007528	0.03829	Edem2
443.47	512.537	757.47806	657.28532	-0.565920434	0.007597	0.038615	Stx2
92.4329	123.9	198.92486	202.42924	-0.888824495	0.007607	0.038637	Adamts15
2029.37	2087.59	2458.329	4276.6227	-0.709469531	0.007626	0.038708	Cd247
2316.02	2494.94	3069.0023	3260.8181	-0.395455261	0.007627	0.038708	Golga2
5.19286	9.80506	36.484035	34.144692	-2.225104083	0.007651	0.038807	Smad9
10618.4	9481.49	12315.099	15451.693	-0.466076256	0.007731	0.039137	Itgb2
428.93	398.442	543.78585	795.08354	-0.692480114	0.007748	0.039184	Gm9843
12.4629	41.003	79.048742	102.43408	-1.75179245	0.007815	0.039474	Fgfl1
13802.6	20745.7	23706.805	28992.502	-0.609080604	0.007826	0.039505	Satb1
239.91	303.957	357.02234	704.844	-0.962037265	0.007857	0.039625	Cracr2a
21611.7	20912.4	25741.224	30796.073	-0.410861388	0.007881	0.039732	Tmsb10
2.07714	3.56547	25.191357	19.511252	-2.975995263	0.007915	0.039879	AC152979.5
6.23143	0.89137	34.7467	21.950159	-3.027689871	0.007939	0.039988	Mmp2
1.03857	0	12.161345	19.511252	-5.020182101	0.007951	0.039998	Gm38708
1.03857	0	16.504682	14.633439	-5.001828974	0.007955	0.040005	F830208F22Rik
143.323	133.705	201.53086	328.03293	-0.931244356	0.008041	0.040362	Gm16754
7893.15	7815.52	9522.3331	11578.709	-0.425569814	0.008048	0.040384	Rpl23a
11104.4	10636.7	13333.177	14752.946	-0.369356294	0.008058	0.040421	Rpl36
94.5101	106.964	158.09748	239.01284	-0.973820088	0.00807	0.040464	Tmem241
118.397	342.286	1120.5811	735.33033	-2.009683984	0.008071	0.040464	Mycn
31.1572	59.7217	135.51213	96.336809	-1.34868708	0.008151	0.040826	Palld
747.772	708.638	994.62428	1006.049	-0.458236835	0.008178	0.040934	Crtap
8.30858	36.5461	79.048742	91.458996	-1.914564883	0.008195	0.041007	Fcmr
341.69	315.545	475.16112	503.6342	-0.574480142	0.0082	0.04102	Mospd2
12.4629	29.4152	60.806725	76.825557	-1.704795582	0.008246	0.041198	Gm45867
182.789	198.775	288.39761	331.69129	-0.698129242	0.00826	0.041244	Ms4a6c
2149.84	3242.8	3812.5816	4429.0543	-0.611450457	0.00828	0.041319	Itgav
2.07714	0.89137	26.928692	10.97508	-3.706552198	0.008296	0.041358	Lpar1
623.143	572.259	791.35609	930.44285	-0.525552445	0.008301	0.041358	Mcu
0	0	4.3433375	18.291799	-5.989657178	0.008314	1	Gm20476
141.246	148.859	271.02426	224.3794	-0.773973072	0.008315	0.041401	Optn
3032.63	664.07	16700.133	8272.7711	-2.756139444	0.008317	0.041401	Csf2rb
487.09	598.108	787.01275	797.52245	-0.545032777	0.008372	0.041611	Snx13
31.1572	38.3289	85.129414	82.922823	-1.27186244	0.00838	0.041611	Dapk2
12426.5	13629	15461.413	24303.704	-0.609788565	0.008405	0.041683	Gimap3
47.7743	222.842	1130.1364	669.47985	-2.732533869	0.008462	0.041912	Mylk
2592.28	2363.91	3149.7883	3386.4218	-0.399147557	0.008466	0.041912	Gimap5
1849.7	2318.45	2848.3607	2925.4684	-0.469672374	0.008488	0.041988	Ly75
977.297	882.455	1485.4214	1185.3086	-0.523554921	0.00849	0.041988	Nrros
911.867	927.915	1284.7592	1204.8198	-0.436788563	0.00853	0.042159	Ostm1

100.742	32.9806	310.98296	113.40916	-1.673133474	0.00854	0.042178	Podxl
31.1572	31.1979	66.887397	92.678449	-1.351191258	0.008541	0.042178	Slc12a5
18264.3	27658.3	33421.982	34945.873	-0.574065245	0.008559	0.042212	Malat1
3888.42	4057.51	4806.3372	6441.1522	-0.500907891	0.008569	0.042252	Ube2h
872.401	881.564	1217.0032	1157.2612	-0.437220641	0.008576	0.04227	Cln5
981.451	1206.02	2077.8526	1373.1044	-0.65839908	0.008611	0.042403	Irf5
997.03	970.7	1227.4272	1687.7233	-0.565865245	0.008642	0.042494	Naxe
355.192	427.857	550.73519	636.55461	-0.59825037	0.008653	0.04252	Eci1
12338.2	11148.3	14078.494	20231.949	-0.546705838	0.008664	0.042565	Mlec
302.225	95.3764	1066.7237	675.57712	-2.132677553	0.008746	0.042885	Btk
7.27001	16.0446	32.140697	68.289384	-2.090163673	0.008789	0.043082	AC135019.1
149.554	237.995	297.08428	437.78373	-0.918751439	0.008796	0.043096	mt-Tc
57.1215	92.7023	119.87611	245.11011	-1.277407935	0.008797	0.043096	Neil2
6614.67	6598.8	8071.6584	9032.4905	-0.372167408	0.008805	0.043112	Atp5d
768.544	947.525	1104.9451	1534.0722	-0.6192477	0.008831	0.043186	Kdm7a
0	0	19.110685	3.6583598	-6.01673549	0.008859	1	Notum
13.5014	2.67411	53.857385	32.925239	-2.446501046	0.008867	0.043346	Cd276
73.7386	189.862	370.92102	830.44768	-2.186724903	0.00889	0.043442	Chit1
8.30858	16.936	42.564707	52.436491	-1.899370359	0.008892	0.043442	Bach2it1
676.111	1002.79	1263.9112	1320.6679	-0.621354227	0.008976	0.043762	Mir142hg
4979.95	5500.64	6977.1373	6611.8757	-0.374720491	0.009043	0.044047	Socs1
37.3886	14.2619	100.76543	64.631024	-1.691259976	0.009062	0.04413	Cavin1
12.4629	10.6964	35.615367	49.997585	-1.884232423	0.009109	0.044317	Spink2
236.795	254.04	355.28501	408.51685	-0.635792591	0.009206	0.044707	Nudt2
99.703	37.4375	229.32822	135.35931	-1.418396207	0.00923	0.044795	Naip6
280.415	349.417	451.7071	535.33999	-0.645427596	0.009232	0.044795	Neu3
106.973	106.964	187.63218	189.01526	-0.815919959	0.009243	0.044822	Ikbip
895.249	1002.79	1272.5979	1314.5706	-0.446193359	0.009294	0.045012	Fbxo28
160.979	160.446	227.59088	358.51926	-0.862964446	0.00931	0.04504	Nadsyn1
204.599	250.475	328.35631	425.58919	-0.724759765	0.009354	0.045194	Ankrd24
39.4658	47.2425	84.260747	117.06751	-1.209123397	0.009365	0.045222	Gm10382
6182.62	16177.4	33628.725	38859.098	-1.696792833	0.009378	0.045272	Scd2
331.305	330.698	496.00914	475.58678	-0.554042787	0.009396	0.045329	Tstd3
1.03857	0.89137	19.110685	12.194533	-4.030094101	0.009408	0.045375	Kcnc1
127.744	185.405	239.75223	347.54419	-0.902343303	0.009417	0.045402	Kremen2
61.2758	79.3318	179.81417	118.28697	-1.086235564	0.009419	0.045402	Ube2cbp
584.716	418.943	658.44996	1086.5329	-0.797123109	0.009423	0.045406	Ptpn18
13.5014	1.78274	63.412727	29.266879	-2.624768012	0.009435	0.045428	Prtn3
3.11572	1.78274	29.534695	13.413986	-3.153933215	0.009436	0.045428	Fstl1
39.4658	24.067	85.129414	78.04501	-1.367652024	0.009441	0.04544	Tifa
2077.14	2390.65	2847.492	3174.2369	-0.430016144	0.009474	0.045562	Npc1
4950.87	6274.34	7126.5481	8798.3554	-0.504234471	0.009475	0.045562	Bcl2
2579.81	524.125	9438.0723	8054.4889	-2.494679236	0.009496	0.045637	Gata2
434.123	541.061	689.72199	754.84158	-0.565153288	0.009504	0.045658	Snx14
193.174	216.603	296.21562	376.81106	-0.712482354	0.009522	0.045732	Rab33b

19.7329	16.0446	53.857385	53.655944	-1.59054108	0.009533	0.04577	Ctnnd1
4778.47	6565.82	9451.1023	7344.7671	-0.566176411	0.009597	0.046064	St3gal1
6.23143	15.1533	52.12005	36.583598	-2.043842781	0.009602	0.046075	Cd36
425.815	489.361	648.89462	671.91876	-0.528172708	0.009636	0.046204	Klc4
127.744	126.574	215.42954	215.84323	-0.762024357	0.009637	0.046204	Abcb1a
0	0.89137	26.928692	6.0972664	-5.126578873	0.00971	0.046494	Calca
1322.1	1368.25	1739.0723	1806.0103	-0.397666647	0.009731	0.046569	Brox
1348.07	1333.49	1730.3856	1797.4741	-0.395517952	0.009757	0.046665	Tpd52
717.654	891.369	1064.9863	1295.0594	-0.551018763	0.009762	0.046665	Tmem2
41.5429	48.1339	89.472752	110.97025	-1.155679206	0.00977	0.04669	Tmem253
33.2343	40.1116	65.150062	132.92041	-1.425107259	0.009781	0.046724	2510009E07Rik
331.305	379.723	484.71646	609.72664	-0.619551413	0.009783	0.046724	Lmf1
77.8929	132.814	162.44082	313.39949	-1.169130165	0.009877	0.047121	Ccdc17
62.3143	89.1369	112.92677	256.08519	-1.278100653	0.00988	0.047121	Gm17552
221.216	328.024	429.12174	485.34241	-0.732692476	0.009887	0.047134	Dnajb14
78.9315	161.338	231.06555	270.71863	-1.057752332	0.00989	0.047134	Usp11
2034.56	2320.23	2741.5146	3163.2618	-0.43860567	0.009896	0.047152	Rbms1
2317.06	2504.75	3048.1542	3246.1846	-0.384084358	0.009913	0.047217	Zcchc6
4120.02	4348.99	5553.3913	5289.9883	-0.356600256	0.00992	0.047238	Rrbp1
5.19286	10.6964	27.79736	46.339225	-2.20502036	0.009963	0.047397	Slc9a3r2
571.215	530.364	732.2867	834.10604	-0.507110433	0.009979	0.047447	Arsa
13.5014	16.936	48.64538	48.778131	-1.674884267	0.010002	0.047512	Aevr1c
4.15429	0	24.32269	21.950159	-3.526331203	0.010008	0.047514	Cd300ld
1.03857	5.34821	33.009365	18.291799	-2.983077155	0.010012	0.047521	Gm29040
4.15429	1.78274	20.84802	23.169612	-2.908304974	0.010029	0.047565	AC160562.1
364.539	250.475	457.78777	558.5096	-0.72497728	0.010031	0.047565	Tspan4
11.4243	3.56547	66.887397	19.511252	-2.549037994	0.010033	0.047565	Tgfb1
668.841	807.58	959.00891	1240.184	-0.573060683	0.010043	0.047596	Rassf1
4667.34	4166.26	6083.2785	5513.1483	-0.392920204	0.01007	0.047696	Gnptab
835.012	1231.87	1345.5659	2093.8013	-0.733360247	0.01012	0.047907	Atg9b
64.3915	152.424	307.50829	197.55143	-1.218457478	0.010168	0.048062	Pcsk1
273.145	292.369	410.01106	439.00318	-0.584890108	0.010171	0.048063	Zc3h11a
1345.99	1357.55	1732.9917	1823.0827	-0.395084935	0.010191	0.048114	Gpr108
176.557	157.772	253.65091	297.5466	-0.72022826	0.010202	0.048152	Bahcc1
14.54	16.936	42.564707	58.533757	-1.676863029	0.010242	0.048301	Gm8250
1186.05	1460.06	1863.2918	1795.0352	-0.46695366	0.010269	0.048396	Chmp5
2536.19	2767.7	3368.6925	3526.6589	-0.378243818	0.010275	0.048399	Adipor2
136.053	134.597	214.56087	241.45175	-0.751104551	0.010299	0.048499	Rpl39-ps
162.017	181.839	257.99425	309.74113	-0.72029347	0.010336	0.048643	Tmem203
270.029	270.976	377.87036	454.85607	-0.620136074	0.010353	0.048689	Nat6
50.89	48.1339	99.028094	110.97025	-1.083494553	0.010355	0.048689	Ggn
12.4629	28.5238	51.251382	85.36173	-1.723626339	0.010379	0.048772	Kcnip2
603.411	703.29	916.44421	915.80941	-0.4869881	0.010396	0.048839	Snapi1
627.298	727.357	883.43484	1082.8745	-0.535765255	0.010421	0.04893	Gucd1
213.946	198.775	536.83651	264.62136	-0.960945297	0.010428	0.048946	Serpina3f

820.472	151.533	3256.6344	3170.5785	-2.725437742	0.010434	0.048961	Fcer1a
0	0	13.89868	6.0972664	-5.82631707	0.010441	1	Gm13431
988.721	935.937	1250.8812	1337.7402	-0.427312584	0.010469	0.049099	Adam15
2000.29	1658.84	2413.1583	2557.1935	-0.44201823	0.010515	0.049276	Prdx6
1217.21	1340.62	1566.2075	2235.2579	-0.57048552	0.010527	0.049312	Igbp1
825.665	836.995	1078.885	1177.9919	-0.440075198	0.010534	0.04933	Sos1
1279.52	1306.75	1692.1643	1699.9179	-0.391192821	0.010602	0.049603	Stx7
1.03857	0	19.979352	9.7556262	-4.938880364	0.010633	0.049681	Htra1
435.162	455.489	585.48189	736.54978	-0.567729101	0.010649	0.049726	Phldb1
11008.9	10753.5	13193.322	14593.197	-0.352463916	0.010722	0.050048	Rps29
575.369	672.092	877.35417	875.56746	-0.490048363	0.010811	0.050392	Hgsnat
283.53	207.689	359.62834	456.07553	-0.731450015	0.010855	0.050555	Hspa2
110.089	82.0059	216.29821	154.87057	-0.956010294	0.010862	0.050572	Gm4951
120.474	32.0893	187.63218	235.35448	-1.475249827	0.010897	0.05072	Ctsh
3.11572	2.67411	31.27203	13.413986	-2.960612733	0.010927	0.050811	Gm14548
406.082	56.1562	2048.318	1807.2298	-3.060739705	0.010989	0.051044	Hgf
701.036	823.625	1082.3597	1037.7547	-0.475294543	0.011036	0.051236	Slc17a9
4592.57	4280.35	5483.0292	5946.0542	-0.365132626	0.011062	0.051325	Cox8a
23.8872	46.3512	71.230735	123.16478	-1.458242957	0.011091	0.051424	Brdt
3269.43	3685.81	4332.0448	4861.9602	-0.402178906	0.011093	0.051424	Mapk8ip3
438.278	610.588	807.86077	782.88901	-0.599839283	0.011117	0.051505	Zfp579
48.8129	79.3318	125.95679	147.55385	-1.087824989	0.011118	0.051715	Mex3a
66.4686	59.7217	99.028094	186.57635	-1.173739579	0.011218	0.051841	Prr36
568.099	808.471	990.28094	1095.069	-0.597751026	0.011238	0.051905	Crebrf
0	0.89137	20.84802	8.536173	-4.955376783	0.011289	0.052112	Rab7b
56.0829	73.0922	96.422092	219.50159	-1.283292978	0.011338	0.052259	Tbx6
0	2.67411	9.5553424	31.705785	-3.887811318	0.011365	0.052353	Gzmg
1440.5	4212.61	10081.755	9509.2967	-1.793007354	0.011368	0.052353	Smox
30.1186	36.5461	71.230735	90.239543	-1.270630844	0.011389	0.052435	Gucal1a
109.05	99.8333	194.58152	173.16237	-0.818513246	0.011437	0.052597	Pip5k1b
764.389	879.781	1048.4817	1320.6679	-0.525382834	0.011446	0.052623	Dynlt3
6.23143	10.6964	52.12005	24.389066	-2.175612144	0.011507	0.052874	Sh3bgrl2
957.564	985.854	1241.3259	1374.3238	-0.427739421	0.011543	0.053009	Dnpep
48.8129	58.8303	97.290759	134.13986	-1.098357237	0.011556	0.053055	Sorbs3
489.168	505.406	649.76329	786.54737	-0.528440898	0.011626	0.053319	Atraid
0	0	5.212005	14.633439	-5.801383298	0.011632	1	Hoxa3
1223.44	1230.98	1779.8997	1529.1944	-0.431863071	0.011652	0.053387	Atp6v0d1
251.335	326.241	422.1724	482.9035	-0.645333501	0.011775	0.053905	Acot13
26536.6	24914.6	30950.623	35537.308	-0.369849484	0.01178	0.053914	Rpl28
63.3529	48.1339	112.05811	118.28697	-1.04915194	0.011816	0.054032	Prodh
77.8929	11.5878	161.57215	157.30947	-1.84015892	0.01182	0.054034	Zfp704
1158.01	1156.11	1573.1568	1479.1968	-0.399892109	0.011837	0.054088	Fam20b
21.81	48.1339	74.705405	120.72587	-1.471894145	0.011841	0.054088	C230085N15Rik
6994.79	8494.74	9669.1379	11349.452	-0.44015143	0.011845	0.054088	Mapkapk2
1111.27	1268.42	1507.1381	1781.6212	-0.465628053	0.011852	0.054095	Zcchc7

1.03857	6.23958	24.32269	28.047425	-2.81728825	0.011853	0.054095	Elfn2
72.7001	95.3764	127.69412	231.69612	-1.089928936	0.011952	0.054498	Gm26510
1011.57	1229.2	1422.8774	1812.1076	-0.528444022	0.011957	0.054498	Rassf2
318.842	369.027	459.5251	614.60445	-0.640032655	0.011959	0.054498	Mb21d1
93.4715	17.8274	484.71646	270.71863	-2.76540286	0.012014	0.054702	Cxcr2
158.902	160.446	238.01489	286.57152	-0.713602469	0.012053	0.054834	Hspb11
91.3944	63.2872	140.72413	163.40674	-0.976925837	0.012061	0.054857	Tmem140
5393.31	5393.67	6659.205	6924.0557	-0.332452782	0.012088	0.054932	Tax1bp1
851.629	827.19	1369.02	1041.4131	-0.523305659	0.012102	0.054966	Bmp2k
850.591	1303.18	1749.4963	1549.9251	-0.61495682	0.012128	0.055051	Scn1b
1062.46	1124.02	1346.4346	1763.3294	-0.506941422	0.012158	0.055171	Mrpl30
542.135	596.326	798.30543	780.4501	-0.471402945	0.012201	0.055338	Cln6
809.048	861.954	1198.7611	1074.3383	-0.444495817	0.012209	0.05536	Tef
1870.47	2021.62	2401.8656	2796.2064	-0.416713657	0.012227	0.055422	Sra1
370.77	319.11	472.55512	565.82632	-0.589099414	0.012255	0.055533	Galns
1174.63	680.114	1484.5527	1503.5859	-0.688837356	0.012276	0.055615	Cmtm7
310.533	319.11	418.69773	557.29015	-0.62971408	0.012288	0.055652	Hyi
71.6615	68.6354	137.24946	129.26205	-0.927092055	0.01232	0.055734	Ago4
0	0.89137	19.979352	8.536173	-4.911975908	0.012346	0.055839	AC098716.1
282.492	352.091	430.85908	586.55703	-0.677812572	0.012366	0.055911	Hint3
268.99	311.088	343.99233	814.59479	-0.995341112	0.01237	0.055913	Chchd10
19945.8	18602	23640.786	24940.258	-0.333736635	0.012523	0.056575	Rpl10
4.15429	4.45684	41.69604	13.413986	-2.686769026	0.012531	0.056593	Illbos
5471.2	5208.27	6349.9594	8291.0629	-0.454919891	0.012547	0.05665	Prkch
934.715	1038.44	1233.5078	1553.5835	-0.496854725	0.012575	0.056761	Mtmr1
974.181	1050.03	1290.8399	1437.7354	-0.429807436	0.012594	0.056822	BC004004
99.703	113.204	156.36015	256.08519	-0.948680347	0.012595	0.056822	Gm5547
644.953	750.532	924.26221	1029.2186	-0.483871811	0.012625	0.056914	Rnf13
30675.3	30854.7	36290.322	46394.1	-0.426271705	0.012626	0.056914	Rpl3
0	0	8.6866749	9.7556262	-5.702240794	0.012656	1	Stra6l
0	0	8.6866749	9.7556262	-5.702240794	0.012656	1	Itih1
19.7329	16.936	41.69604	70.72829	-1.611996113	0.012677	0.057112	AL645745.1
147.477	232.647	327.48765	330.47184	-0.788911207	0.012714	0.057243	Slc1a4
397.773	411.812	600.24924	552.41234	-0.510406967	0.012724	0.057275	1600012H06Rik
426.853	460.838	594.16857	678.01602	-0.517460415	0.012737	0.057301	Snhg8
5.19286	11.5878	59.06939	21.950159	-2.268711416	0.012771	0.057419	Sh2d1b1
1057.27	848.583	1314.2939	1337.7402	-0.477256171	0.012786	0.057455	Ripor1
37.3886	49.0253	97.290759	92.678449	-1.133989673	0.012835	0.057645	Rell2
435.162	529.473	663.66197	737.76923	-0.537033135	0.01285	0.057679	Erlec1
34381.9	33492.3	40330.494	47685.501	-0.374861846	0.012958	0.058115	Rack1
823.588	781.73	1025.8963	1167.0168	-0.4492536	0.012979	0.058195	0610030E20Rik
372.847	1323.68	2978.6608	4411.982	-2.122877468	0.013001	0.058277	Neb
17.6557	17.8274	44.302042	60.972664	-1.564413226	0.013062	0.058486	Dock4
2540.35	2625.97	3112.4356	3851.0335	-0.430086696	0.013102	0.058634	Afg3l2
65.4301	141.728	220.64154	215.84323	-1.071256428	0.013126	0.058723	Gpat3

43.62	49.9166	96.422092	101.21462	-1.076926754	0.013154	0.058832	Gm4285
2137.38	3107.31	5459.5752	3186.4314	-0.721370993	0.013162	0.058851	Stat2
96.5872	85.5714	158.09748	168.28455	-0.841685473	0.013168	0.05886	Ggnbp1
859.938	1092.82	1225.6898	1746.2571	-0.604394902	0.013187	0.058914	Nlrc3
40.5043	84.68	244.96423	95.117356	-1.442392492	0.013217	0.058999	Ifi206
1826.85	1965.47	2369.7249	2580.3631	-0.383819083	0.013222	0.059007	Cops4
638.722	780.839	913.8382	1177.9919	-0.557443196	0.013229	0.059022	Fcho2
1011.57	1226.52	1404.6353	1841.3745	-0.535051833	0.013239	0.059048	Pcmt2
692.728	943.959	1364.6766	1088.9718	-0.584281678	0.013254	0.059082	Ripk2
10.3857	16.0446	64.281395	31.705785	-1.862107268	0.013263	0.059091	Shroom4
1010.53	964.461	1178.7818	1886.4942	-0.6330292	0.013293	0.059204	Zkscan17
117.359	151.533	304.90229	193.89307	-0.893542436	0.013312	0.059257	Akr1c18
195.252	331.589	420.43507	493.87858	-0.792320936	0.013321	0.059267	Gm37881
233.679	515.211	610.67325	820.69206	-0.932250644	0.013332	0.059299	Tdrkh
358.307	292.369	669.74264	419.49193	-0.746511851	0.013392	0.059533	Naip2
9.34715	5.34821	29.534695	34.144692	-2.123403469	0.013406	0.05958	Mmp28
933.677	982.288	1253.4872	1285.3038	-0.405660224	0.013419	0.059597	Stx12
52.9672	110.53	160.70349	195.11252	-1.115905647	0.01344	0.059663	Gm28053
7.27001	0.89137	34.7467	21.950159	-2.828771332	0.013518	0.059943	Gm38345
16.6172	4.45684	31.27203	63.411571	-2.176700236	0.013536	0.059997	Rnase4
129.822	132.814	191.10685	271.93808	-0.814151903	0.013553	0.060035	Arl5c
534.865	921.675	1644.3876	957.27083	-0.837122716	0.013621	0.060319	Slfn8
287.685	249.583	350.073	559.72906	-0.757644493	0.013639	0.060364	Ajuba
2155.04	2377.28	2808.402	3148.6284	-0.393760112	0.013677	0.060483	Pcyt2
1.03857	29.4152	300.55895	242.6712	-4.152297828	0.013691	0.060531	Peg10
1249.4	1589.31	2433.1377	1766.9878	-0.565599837	0.013788	0.060899	Irgm2
26922.9	26800.8	31807.998	37878.658	-0.375268158	0.013807	0.060957	Rps4x
9.34715	10.6964	29.534695	46.339225	-1.912466548	0.013854	0.061135	Ttc21a
35.3115	16.0446	69.4934	74.38665	-1.49381696	0.013932	0.061459	Rab13
1887.09	1663.29	2132.5787	3024.2441	-0.537932134	0.013946	0.061504	Samsn1
6.23143	8.91369	26.928692	37.803052	-2.084923196	0.013964	0.061565	Klk10
199.406	177.382	260.60025	373.1527	-0.747627706	0.014008	0.061745	Gm5805
0	0	2.6060025	18.291799	-5.873361149	0.014033	1	Gjb1
3557.11	3798.12	5218.9543	4436.371	-0.392823098	0.014107	0.06213	Capza2
76.8544	129.248	230.19689	174.38182	-0.972036787	0.014145	0.062213	Pctp
164.094	194.318	236.27756	432.90591	-0.896477958	0.014168	0.062279	Etfbkmt
0	0	12.161345	6.0972664	-5.694352718	0.014275	1	Clec4a3
32.1957	41.8943	87.735417	80.483917	-1.181077674	0.014507	0.063663	Camk2n1
6.23143	13.3705	37.352702	39.022505	-1.950141021	0.014519	0.0637	Ctla2b
1137.24	1201.56	1486.2901	1590.1671	-0.39485688	0.01453	0.063731	Itfg1
203.56	496.492	641.94528	718.25798	-0.956296549	0.014615	0.063981	Abcg1
2060.53	2017.17	2438.3497	3175.4563	-0.460563893	0.014696	0.064265	Mlxip
993.914	919.001	1218.7405	1345.057	-0.422129124	0.014732	0.064408	Neu1
342.729	432.314	719.25669	506.07311	-0.661984222	0.014847	0.064835	L1cam
3341.09	3421.96	4246.0467	4261.9892	-0.331097039	0.014857	0.064848	Zc3h7a

453.856	159.555	701.01467	579.24031	-1.063718656	0.014896	0.065002	Akr1c13
119.436	107.856	161.57215	269.49918	-0.919636388	0.01491	0.065025	5830432E09Rik
7.27001	4.45684	19.110685	40.241958	-2.340027697	0.014921	0.065057	Acox1
41227.2	39285.3	47483.971	57882.569	-0.388099402	0.014968	0.065213	Rpl13
213.946	404.681	692.32799	454.85607	-0.890760834	0.014969	0.065213	Slfn5
67.5072	46.3512	130.30012	106.09244	-1.060102764	0.014976	0.065227	Map3k6
19.7329	7.13095	99.896762	23.169612	-2.21139925	0.014997	0.065282	Ctca3a1
1499.7	1387.86	1788.5864	2049.901	-0.410234712	0.015007	0.06531	Rpl6l
1690.8	1669.53	2062.2166	2337.6919	-0.388313095	0.015038	0.065414	Erp44
1469.58	1475.22	2095.226	1802.3519	-0.405130558	0.015325	0.066547	Elac2
0	0	7.8180075	9.7556262	-5.631722715	0.015337	1	Klk12
7.27001	4.45684	70.362067	8.536173	-2.765423969	0.015354	0.06664	Gp9
1299.25	1187.3	1446.3314	2469.3929	-0.654270556	0.015361	0.066653	St8sia1
0	1.78274	16.504682	13.413986	-4.008940336	0.01538	0.066713	AC115037.1
200.444	132.814	291.00361	276.81589	-0.77185939	0.015415	0.066803	Pgm21l
12.4629	16.0446	31.27203	68.289384	-1.79305295	0.015421	0.066803	Gpx7
559.791	528.582	715.78202	787.76682	-0.465593527	0.015442	0.066854	Hspa13
2977.59	2941.52	3642.3228	3847.3751	-0.339355445	0.015459	0.066898	Dpp8
1.03857	4.45684	19.979352	21.950159	-2.902768959	0.015476	0.066953	Figln2
39.4658	8.91369	92.078754	73.167197	-1.78376616	0.015486	0.066976	Npr2
3.11572	0	26.060025	12.194533	-3.675081046	0.015523	0.06708	Gm15922
363.5	364.57	648.89462	464.6117	-0.615388559	0.015601	0.067365	Gm10925
709.345	805.797	968.56426	1135.311	-0.472062688	0.015609	0.067384	Syap1
37164.3	35599.5	43966.737	46464.828	-0.313595149	0.015632	0.067462	Rpl41
152.67	206.798	622.83459	199.99034	-1.196687181	0.015639	0.067478	Cmpk2
15.5786	24.067	76.44274	42.680865	-1.58834499	0.015652	0.067516	Gm15663
14346.8	13872.4	17001.56	18250.338	-0.320978332	0.015657	0.067517	Rps10
1135.16	1509.09	1909.3312	1797.4741	-0.48695245	0.015673	0.06757	Vamp2
21146.4	20418.6	24461.677	29900.994	-0.38718058	0.015678	0.067573	Rps23
1908.9	426.074	6784.2931	4710.748	-2.29968891	0.015691	0.067592	Alox5
69.5844	92.7023	138.9868	167.0651	-0.910302345	0.015826	0.068065	Mcoln2
0	0	149.41081	4.8778131	-8.768273085	0.01587	0.068192	S100a8
25.9643	17.8274	52.12005	67.06993	-1.446049095	0.01587	0.068192	Bfsp2
2.07714	0.89137	11.292677	20.730706	-3.447320135	0.015873	0.068192	Gm26226
55.0443	47.2425	88.604084	129.26205	-1.087692862	0.015884	0.068222	Tlr6
4780.55	4704.64	5881.7476	5950.932	-0.319019429	0.015907	0.068267	Grb2
60.2372	81.1145	130.30012	141.45658	-0.939016796	0.015921	0.068292	5730409E04Rik
2862.31	2622.41	3352.1879	3772.9885	-0.377296189	0.015957	0.068393	Parvg
6.23143	1.78274	35.615367	15.852893	-2.711599487	0.015981	0.068448	Drc7
1085.31	1195.33	1430.6954	1623.0923	-0.420140578	0.015989	0.068453	Fam46c
766.466	1035.77	1250.0125	1326.7652	-0.514717007	0.01615	0.069033	Ctps2
970.027	2256.05	4910.5773	3859.5696	-1.442708284	0.016156	0.069033	Upp1
2139.46	2745.42	3112.4356	3646.1653	-0.467781007	0.016158	0.069033	Evl
709.345	131.031	2334.1096	2638.8969	-2.56531956	0.016158	0.069033	Ms4a2
245.103	294.152	377.87036	445.10045	-0.607053237	0.016171	0.069034	Glt8d1



0	0	1.737335	19.511252	-5.897210233	0.016174	1	Gm43181
11.4243	11.5878	79.91741	19.511252	-2.120063555	0.016194	0.069113	Cdhr4
631.452	481.339	944.24157	729.23306	-0.590893061	0.016198	0.069113	Dock5
966.911	1002.79	1268.2545	1317.0095	-0.391891365	0.016206	0.069129	Cnpy2
7.27001	16.0446	26.928692	68.289384	-2.013181494	0.016258	0.069257	H2-Q2
328.189	418.052	491.6658	679.23548	-0.646920169	0.016278	0.069302	Fbxl12
856.822	910.087	1095.3897	1341.3986	-0.462363051	0.016281	0.069302	Traf3ip2
1136.2	1295.16	1561.8642	1668.2121	-0.409027195	0.016335	0.069477	Fbxo18
1491.39	1316.55	1991.8546	1754.7933	-0.417003287	0.016347	0.069506	Cux1
567.061	518.777	770.50807	723.1358	-0.461126871	0.016351	0.069506	Lpin2
510.978	459.055	801.7801	617.04336	-0.550898419	0.016399	0.069692	Pla2g15
762.312	683.68	915.57554	1093.8496	-0.473946957	0.016654	0.070647	Ldlrap1
1.03857	17.8274	98.159427	24.389066	-2.688671466	0.016669	0.070689	AC165164.2
804.894	938.611	1115.3691	1284.0843	-0.459347254	0.016696	0.070751	Rab11fip1
3571.65	3595.78	4292.9548	4935.1274	-0.364222029	0.016699	0.070751	Sec31a
0	0	2.6060025	17.072346	-5.786581347	0.016703	1	Agbl2
231.602	311.979	456.9191	392.66396	-0.64394303	0.016743	0.07088	Slc35a5
1449.85	1756.89	2057.8733	2262.0858	-0.429145026	0.016765	0.070949	Gpr107
0	0.89137	8.6866749	17.072346	-4.751367983	0.016789	1	Dnah2
5945.83	8155.13	8860.4084	11320.185	-0.51693441	0.016811	0.071088	Cd2
9.34715	10.6964	39.958705	31.705785	-1.839109394	0.016862	0.071262	Fkbp1b
216.023	222.842	299.69029	389.0056	-0.647116704	0.016904	0.071407	9330136K24Rik
4030.7	5385.65	8041.255	5742.4055	-0.54983307	0.016909	0.071409	Clic4
6992.71	7018.64	9299.9542	8373.9857	-0.335184083	0.016917	0.071424	Hcls1
453.856	594.543	636.73327	1134.0916	-0.753980343	0.016943	0.071516	Pik3ip1
60.2372	86.4628	151.14814	131.70095	-0.945565437	0.017084	0.071988	Fam217b
241.987	264.736	412.61706	349.98309	-0.590978965	0.017087	0.071988	Gm26809
628.336	535.713	740.10471	949.95411	-0.536972795	0.017186	0.072311	Oxr1
11835.6	11406.8	13739.714	16068.736	-0.358855104	0.017194	0.07233	Rps13
84.1244	135.488	244.96423	174.38182	-0.933020506	0.017213	0.072356	Gm43822
390.503	398.442	515.11982	621.92117	-0.525358735	0.017244	0.072415	Lamb3
116.32	115.878	192.84418	192.67362	-0.731492421	0.017246	0.072415	Vash1
8285.73	8475.13	9787.2767	12645.731	-0.420325084	0.017294	0.072579	Naca
11.4243	0.89137	26.928692	48.778131	-2.63923906	0.017312	0.072615	Gm43489
9.34715	5.34821	19.979352	47.558678	-2.20037171	0.017318	0.072624	Cyp2d22
14453.8	15406.4	18083.051	19158.83	-0.318629015	0.017366	0.072787	9-Sep
461.126	453.707	588.95656	713.38017	-0.507891191	0.017411	0.072957	Tbc1d23
283.53	338.72	375.26436	740.20814	-0.839075534	0.017434	0.073013	Carns1
44.6586	49.9166	80.786077	125.60369	-1.119449399	0.017492	0.073206	Gpr157
808.009	1280.01	1354.2526	2018.1952	-0.690368391	0.017494	0.073206	Rpl7a-ps5
1947.32	2605.47	3406.9139	2952.2964	-0.482044004	0.017552	0.073395	Slc4a11
322.996	241.561	522.93783	382.90833	-0.685667256	0.017552	0.073395	Ftl1-ps1
656.378	599	789.61875	984.0988	-0.497520509	0.017566	0.073433	Nudt18
1.03857	7.13095	49.514047	12.194533	-2.901943521	0.017581	0.073442	Ifi213
1525.66	1983.3	3019.4882	2145.0183	-0.55791814	0.017584	0.073442	Trim12c

90.3558	62.3958	165.91549	129.26205	-0.956379511	0.017591	0.073442	E330020D12Rik
42.5815	51.6994	86.866749	112.1897	-1.072546247	0.017591	0.073442	Lppos
975.22	1458.28	1621.8022	2047.4621	-0.591342965	0.017671	0.073663	AC126459.2
1198.51	1340.62	1637.4382	1686.5039	-0.388023878	0.017814	0.07411	Pbx2
1875.66	1964.58	2276.7775	2999.8551	-0.457614541	0.017815	0.07411	7-Mar
871.362	340.503	2920.4601	1485.2941	-1.862545967	0.017826	0.074134	Ly6c2
1.03857	0.89137	6.94934	21.950159	-3.898198563	0.017838	0.074167	Gm3248
37.3886	90.9196	165.91549	131.70095	-1.210141561	0.017853	0.07421	Bmf
12.4629	6.23958	46.908045	26.827972	-1.995336722	0.017879	0.074298	Gm33280
988.721	889.586	1433.3014	1158.4806	-0.465949003	0.017888	0.074317	Cebpb
14.54	1.78274	317.9323	23.169612	-4.392020492	0.017933	0.074447	Mmp12
2.07714	0.89137	7.8180075	25.608519	-3.503995543	0.018014	0.074706	Dnah1
9.34715	13.3705	34.7467	42.680865	-1.760637823	0.018095	0.07496	Gm45515
1412.46	1400.34	1669.5789	2276.7193	-0.487540252	0.018116	0.074995	H2-T-ps
108.012	138.162	192.84418	228.03776	-0.769696283	0.01815	0.075114	Pter
4.15429	3.56547	12.161345	36.583598	-2.651110391	0.018163	0.07515	Gm12596
1389.61	1413.71	1747.759	1864.5441	-0.365329988	0.0182	0.075284	Polr1c
1301.33	1410.15	1640.0442	2059.6566	-0.447244512	0.018249	0.075426	Cars
1067.65	873.541	1255.2245	1412.1269	-0.458444703	0.018376	0.075796	Itp2
7560.81	9971.74	13035.224	11045.808	-0.457865762	0.018378	0.075796	Anxa2
16.6172	9.80506	47.776712	37.803052	-1.706102897	0.018392	0.075796	Hecw2
365.577	54.3735	1932.7852	1117.0192	-2.861016723	0.018394	0.075796	Tyrobp
1233.82	1257.72	1423.746	2459.6373	-0.639262667	0.018421	0.075826	Mib2
3422.1	3694.72	4493.617	4461.9796	-0.331458115	0.018466	0.075937	Kidins220
9.34715	16.936	62.54406	30.486332	-1.823261027	0.01848	0.075974	Gm43197
1747.92	1633.88	1974.4812	2929.1268	-0.535326801	0.018515	0.076066	Spint2
473.589	451.924	594.16857	719.47744	-0.503800443	0.018533	0.076095	Rint1
5132.62	5223.42	6138.0045	7136.2406	-0.357882079	0.018584	0.076274	Zmiz1
56.0829	63.2872	83.39208	197.55143	-1.228223846	0.018586	0.076274	Tmem221
0	0	3.47467	14.633439	-5.667461475	0.018692	1	Scd3
2.07714	1.78274	19.110685	13.413986	-3.083387586	0.018729	0.076801	5730460C07Rik
555.636	489.361	702.752	738.98869	-0.464516837	0.018747	0.076855	Ufsp2
3118.83	3174.16	3729.1896	4515.6355	-0.389273992	0.018754	0.076865	Rpl21-ps15
721.808	868.193	1022.4216	1185.3086	-0.47202891	0.018825	0.077058	Mid1ip1
1.03857	1.78274	17.37335	12.194533	-3.37885206	0.018859	0.077178	AC238811.2
2137.38	2014.49	2351.4829	3994.9289	-0.611589748	0.018898	0.077317	Slc39a10
3572.69	3520.91	4269.5007	4694.8951	-0.337441079	0.018931	0.077432	Park7
449.702	443.902	552.47253	801.18081	-0.59696465	0.018943	0.077444	Mettl26
1883.97	1895.05	2480.9144	2326.7169	-0.347619848	0.018943	0.077444	Bnip2
2185.16	1937.84	2725.8786	2593.7771	-0.36810228	0.018961	0.077496	Lamp2
3.11572	0	15.636015	19.511252	-3.545477202	0.019098	0.077979	AI661453
412.313	97.1592	1315.1626	1054.8271	-2.218458006	0.01913	0.07807	Fes
8730.24	13480.2	15613.43	16391.891	-0.526976266	0.01914	0.07807	Il2rb
106.973	106.073	191.10685	168.28455	-0.756315279	0.01915	0.078093	Otub2
169.287	206.798	425.64707	242.6712	-0.832029526	0.019163	0.078107	Tnfrsf23

1.03857	7.13095	35.615367	18.291799	-2.702042215	0.019164	0.078107	Snhg11
5.19286	6.23958	32.140697	20.730706	-2.211556558	0.019187	0.078183	Mcpt4
760.235	830.756	1129.2677	1008.4879	-0.426647562	0.019221	0.078244	Dhrs1
1825.81	4681.47	9070.626	9093.4631	-1.480889957	0.019266	0.078407	Myo10
28.0415	16.936	149.41081	25.608519	-1.969779465	0.019291	0.078467	Atp8b5
13642.7	12853.5	15686.398	17935.719	-0.343549745	0.019334	0.078584	Rps11
1272.25	1736.39	2018.7833	2196.2354	-0.48566109	0.019385	0.078732	Chst11
55.0443	16.936	109.4521	90.239543	-1.481241263	0.019431	0.078867	Tfr2
13.5014	10.6964	116.40144	10.97508	-2.404876981	0.019437	0.078867	Mpl
268.99	215.711	404.79905	340.22747	-0.623331842	0.019438	0.078867	Nedd4l
1713.64	1862.07	2612.0832	2151.1156	-0.414219922	0.019444	0.078873	Degs1
261.72	262.062	377.00169	384.12778	-0.538915656	0.01949	0.079	Gm10177
19.7329	28.5238	89.472752	45.119771	-1.482702048	0.019496	0.079003	Tpbgl
13.5014	15.1533	33.009365	58.533757	-1.667109211	0.019506	0.079017	Shd
45.6972	58.8303	163.30949	78.04501	-1.211293887	0.019509	0.079017	Cdkn2b
5334.11	5957.91	8082.0824	6717.9681	-0.390456714	0.019547	0.079089	Igtp
38.4272	37.4375	93.816089	71.947744	-1.131700115	0.019601	0.079289	Pkd112
1793.61	1725.69	2175.1434	2314.5223	-0.351101666	0.019666	0.079494	Man2b2
9063.62	9963.72	11337.848	13039.614	-0.357298758	0.019693	0.07958	Mllt6
94.5101	150.641	218.03554	218.28214	-0.828516201	0.0197	0.079589	Gm43980
694.805	762.12	1064.1177	918.24832	-0.444995347	0.019739	0.0797	Flt3l
4.15429	1.78274	13.030012	28.047425	-2.799818648	0.019742	0.0797	Gm4349
523.44	1028.64	1042.401	1724.3069	-0.832505707	0.019761	0.079738	Tnip3
75.8158	103.399	308.37696	109.7508	-1.22531853	0.019796	0.079822	Src
585.755	691.702	859.11215	891.42035	-0.453473369	0.019822	0.079901	Phf20
279.376	313.762	410.87973	452.41717	-0.53958559	0.019854	0.080011	Slc25a45
1961.86	2080.45	2449.6423	2777.9146	-0.370325973	0.019908	0.080149	Aup1
3225.81	3149.21	4026.2738	3929.0785	-0.31962807	0.019924	0.080175	Chp1
412.313	373.483	541.17985	558.5096	-0.485147672	0.019953	0.080251	Casp9
33.2343	41.8943	61.675392	123.16478	-1.290229781	0.020023	0.080463	Gm26724
508.9	313.762	646.28862	651.18805	-0.658872162	0.020094	0.08066	Pdim7
1327.3	1089.25	1786.849	1519.4388	-0.453416343	0.020094	0.08066	Itga6
19346.5	20677.1	23174.311	30209.516	-0.415459113	0.020247	0.081168	Srrm2
6.23143	5.34821	50.382715	12.194533	-2.446833611	0.02026	0.081203	Tie1
35.3115	38.3289	73.836737	86.581183	-1.11988814	0.020327	0.081449	Zfp583
96.5872	322.675	819.15345	714.59962	-1.870344228	0.020342	0.081488	AL589871.2
2.07714	0.89137	17.37335	12.194533	-3.343061269	0.020356	0.081507	Zfp105
26818	25806.9	31001.874	35067.818	-0.328201614	0.020394	0.081617	Rps8
583.678	754.989	861.71815	1086.5329	-0.539447617	0.020464	0.081835	Ankzfl
1587.98	329.806	6353.4341	3609.5817	-2.377316539	0.020482	0.081887	Emilin2
33.2343	8.91369	66.887397	68.289384	-1.691976754	0.020505	0.081959	Phka1
490.206	578.498	839.1328	684.11329	-0.512045059	0.02056	0.08216	Oraov1
756.081	717.552	942.50423	1017.024	-0.410721614	0.020579	0.082216	Soat1
3.11572	6.23958	14.767347	37.803052	-2.469330654	0.020619	0.082315	Efhc1
235.756	189.862	415.22306	282.91316	-0.718105976	0.020676	0.082494	Daaml

3961.12	4704.64	6647.0437	5158.2874	-0.446225755	0.020761	0.082756	Klf6
5594.79	6598.8	8486.0128	7422.8121	-0.383756761	0.020829	0.082947	Pstpip1
590.948	541.952	717.51935	857.27566	-0.474115705	0.020837	0.082956	Faap100
177.596	218.385	290.13494	324.37457	-0.631195847	0.021029	0.083557	Slc35f5
76.8544	43.6771	179.81417	93.897903	-1.191580691	0.021097	0.083725	Ppm1e
2360.68	2252.49	2647.6985	3975.4177	-0.521171967	0.021112	0.083764	Rel
40.5043	48.1339	76.44274	115.84806	-1.110419527	0.021168	0.083922	Snora31
1239.02	1491.26	1667.8416	2126.7265	-0.473737872	0.021175	0.083929	Pank3
232.64	287.021	370.05235	409.7363	-0.583057395	0.021282	0.08429	Gnal
16.6172	8.02232	51.251382	32.925239	-1.786998468	0.021327	0.084429	Cx3cl1
38.4272	81.1145	104.2401	171.94291	-1.199858632	0.021347	0.08447	Gm36931
2.07714	0	21.716687	8.536173	-3.930633591	0.021359	0.084491	Serpinb8
1524.62	1347.75	1775.5564	2007.2201	-0.396943536	0.021373	0.08452	Pip4k2a
4.15429	7.13095	61.675392	8.536173	-2.639867229	0.021376	0.08452	Trpc6
2064.68	3257.06	5223.2976	3248.6235	-0.670913322	0.021451	0.084711	Ifi2712a
3.11572	5.34821	26.928692	18.291799	-2.411848464	0.021457	0.084715	Nlrc4
173.442	221.059	264.07492	399.98068	-0.746875328	0.02147	0.084717	Fam19a3
252.373	205.015	343.99233	345.10528	-0.592729573	0.021631	0.085192	Gm4149
52.9672	54.3735	152.01681	80.483917	-1.120869529	0.021689	0.085399	Shank1
2123.88	2142.85	2517.3984	3146.1895	-0.407914818	0.021719	0.0855	Arhgap27
4163.64	4140.41	4893.204	5748.5028	-0.35752156	0.021776	0.085702	Setd5
6319.71	6746.77	7537.4279	10155.607	-0.437037676	0.021833	0.085862	Cd3d
3685.89	5029.1	5991.1997	5874.1065	-0.444993744	0.021849	0.085905	Acsl4
8762.44	9746.23	11166.721	12165.266	-0.333957944	0.021895	0.086066	Dgka
22.8486	6.23958	295.34695	31.705785	-3.495800667	0.021986	0.086379	Hp
10.3857	7.13095	39.958705	25.608519	-1.915916647	0.022102	0.086711	Rufy4
864.092	816.494	1039.795	1212.1366	-0.421353701	0.022177	0.086919	Lamtor2
1027.15	1128.47	1443.7254	1365.7877	-0.382248082	0.022219	0.087064	Pex5
29.08	50.808	66.01873	135.35931	-1.323929528	0.022243	0.087137	1700001O22Rik
498.515	545.518	641.07661	888.98144	-0.549140475	0.022292	0.087307	Gngt2
3990.2	4252.72	5065.2002	5193.6515	-0.315485842	0.02232	0.087396	Cyp51
317.803	330.698	414.3544	554.85124	-0.576974989	0.022334	0.087429	Tmem87b
0	0	4.3433375	12.194533	-5.538246703	0.022342	1	Gm37824
0	0	4.3433375	12.194533	-5.538246703	0.022342	1	Gm13387
5281.14	7743.32	8552.9002	9865.377	-0.499695651	0.022365	0.087486	Nfat5
1725.07	1838.89	2203.8094	2327.9363	-0.346136148	0.022566	0.088145	Sugt1
392.58	457.272	547.26052	681.67438	-0.529639014	0.022591	0.0882	Trim16
967.949	971.592	1186.5998	1386.5184	-0.406783166	0.022633	0.088308	Acads
24.9257	23.1756	67.756065	51.217038	-1.311416386	0.022635	0.088308	Upk1a
19.7329	24.9583	59.06939	53.655944	-1.333033979	0.022818	0.088889	AC117769.1
7.27001	6.23958	33.878032	21.950159	-2.055393116	0.022823	0.088889	A430105I19Rik
7.27001	11.5878	24.32269	47.558678	-1.91613647	0.022888	0.089057	Gm10406
39.4658	44.5684	70.362067	115.84806	-1.140865723	0.022897	0.089069	Tnfrsf12a
505.785	534.821	648.89462	818.25315	-0.493566956	0.023127	0.089898	0610037L13Rik
10.3857	20.5015	38.22137	58.533757	-1.634203046	0.023133	0.089901	Padi3

920.175	971.592	1188.3371	1280.4259	-0.383269879	0.023139	0.089901	Mbnl2
17.6557	52.5908	56.463387	163.40674	-1.63568645	0.023157	0.08993	Spock2
109.05	193.427	225.85355	337.78856	-0.892920693	0.023157	0.08993	Col20a1
1165.28	1214.94	1422.0087	1797.4741	-0.434585563	0.02319	0.090018	Kxd1
90.3558	75.7663	190.23818	121.94533	-0.916199471	0.023197	0.090018	Col5a3
203.56	207.689	289.26628	328.03293	-0.584144151	0.023234	0.090142	Gm12174
1.03857	5.34821	15.636015	28.047425	-2.741800282	0.023341	0.090469	Fam83a
4489.75	4253.61	5207.6616	5802.1587	-0.332353994	0.023378	0.090589	Rps10-ps2
11.4243	8.91369	28.666027	41.461412	-1.784728388	0.023384	0.090593	Sele
580.562	504.515	710.57001	778.01119	-0.456039808	0.023399	0.090627	Hcfc2
3.11572	2.67411	14.767347	21.950159	-2.663215168	0.023449	0.09078	1700063D05Rik
860.977	820.059	1086.703	1103.6052	-0.381875851	0.023457	0.090788	Uqcc2
586.793	632.872	839.1328	792.64463	-0.420104212	0.023538	0.090974	Vcpkmt
265.875	49.0253	1045.007	699.96618	-2.471151039	0.023542	0.090974	Slc7a11
787.238	948.416	1127.5304	1214.5755	-0.431215327	0.023549	0.090974	Cebpg
580.562	772.817	933.81756	973.12372	-0.493485514	0.02359	0.091041	Ndrp2
1519.43	1875.44	2108.256	2481.5874	-0.434209768	0.023628	0.091167	Fbxl20
263.797	237.995	335.30565	418.27248	-0.584985939	0.023671	0.091265	AL607105.1
1308.6	1357.55	1606.1662	1893.8109	-0.391653925	0.023681	0.091282	Rnf111
386.349	402.007	515.11982	586.55703	-0.481149054	0.023694	0.091311	Ap3m2
2556.97	2915.67	3325.2592	3751.0383	-0.370227666	0.023706	0.091335	Golga4
1976.4	1856.72	2379.2803	2459.6373	-0.336161948	0.023729	0.091401	Gm11808
0	0	9.5553424	6.0972664	-5.470422812	0.023752	1	Kcnn3
0	0	9.5553424	6.0972664	-5.470422812	0.023752	1	Gm5345
171.364	489.361	1746.8903	819.4726	-1.957373625	0.0238	0.091608	Plaur
1529.82	1597.33	1880.6651	2185.2603	-0.37792951	0.023807	0.091615	Ddx50
110.089	176.491	245.8329	246.32956	-0.777232301	0.023824	0.091632	Rnf24
195.252	215.711	276.23626	365.83598	-0.640157772	0.023826	0.091632	Gm11110
5.19286	21.3928	44.302042	53.655944	-1.866283493	0.023829	0.091632	Klk9
451.779	509.863	661.92463	653.62696	-0.451537233	0.023874	0.091764	Dram2
43.62	32.9806	110.32077	64.631024	-1.200066412	0.02388	0.091764	Sh3d19
7.27001	0.89137	29.534695	20.730706	-2.653182001	0.024007	0.092186	Gm10384
747.772	829.864	1124.0557	987.75716	-0.421231135	0.024097	0.092401	Ticam1
163.056	185.405	245.8329	299.98551	-0.64405115	0.024236	0.092867	9230112E08Rik
4.15429	9.80506	25.191357	34.144692	-2.070745066	0.024255	0.092919	Emp2
294.955	393.094	548.99786	474.36733	-0.572515814	0.024308	0.093088	Tcta
583.678	651.59	762.69006	970.68481	-0.486771943	0.02452	0.093667	Tvp23b
3.11572	3.56547	15.636015	23.169612	-2.529987171	0.024689	0.094135	Orml
390.503	668.526	908.6262	768.25557	-0.662397348	0.024737	0.094293	Gbp6
7.27001	9.80506	35.615367	26.827972	-1.869598982	0.024782	0.0944	Dab2
18.6943	25.8497	49.514047	64.631024	-1.349819091	0.024792	0.094416	Gm19391
596.141	174.708	2222.9201	1071.8994	-2.096168247	0.024844	0.094567	Adgrg1
369.732	450.141	489.0598	840.20331	-0.694400732	0.024908	0.094744	Qser1
533.826	557.997	680.16665	831.66714	-0.467734967	0.024956	0.094905	Cklf
983.528	961.787	1105.8137	1836.4966	-0.595716649	0.025016	0.095089	Slc11a2

3912.3	4092.27	5168.5716	4797.3292	-0.316311044	0.025038	0.095127	Mapk14
707.268	1233.65	2102.1753	1191.4059	-0.763148773	0.025193	0.095601	Slfn1
528.633	602.565	721.86269	834.10604	-0.458180237	0.025209	0.095612	Dcaf6
32720.2	30545.4	36665.586	44328.346	-0.356352641	0.025213	0.095612	Rpl18
395.696	601.674	724.46869	773.13338	-0.584791303	0.025338	0.095974	Ccdc157
35.3115	32.0893	55.59472	106.09244	-1.25647885	0.025423	0.096235	Fam213b
1767.65	1782.74	2160.3761	2323.0585	-0.336226608	0.025444	0.096282	Ndufa13
573.292	605.239	727.07469	906.05379	-0.468797478	0.02546	0.096321	Uvssa
6.23143	2.67411	21.716687	23.169612	-2.348359517	0.025477	0.096341	Nostrin
13579.3	12851.8	15323.295	18490.57	-0.355282052	0.025493	0.096379	Rpl15
18.6943	0.89137	272.76159	54.875398	-4.070914131	0.02559	0.096677	Lox
98.6644	84.68	132.03746	203.6487	-0.869167472	0.025622	0.096756	Gm15440
83.0858	24.067	138.11813	131.70095	-1.338758983	0.025629	0.096756	Nuak2
953.409	1277.33	1310.8192	2118.1903	-0.618953481	0.0257	0.096978	Pik3r5
2718.98	2630.43	3245.3418	3420.5665	-0.317283091	0.025773	0.097232	Ubl5
20350.8	19914.1	23294.188	27688.906	-0.340425247	0.025791	0.097255	Rpl11
899.404	1055.38	1414.1907	1214.5755	-0.427719585	0.025827	0.097369	Wwp1
18.6943	20.5015	40.827372	64.631024	-1.420693759	0.025946	0.097749	Fam228b
2008.6	1981.51	2663.3345	2392.5673	-0.342045304	0.025973	0.097825	Glmp
21.81	6.23958	50.382715	45.119771	-1.781434813	0.025986	0.097853	Mtus2
4.15429	1.78274	24.32269	13.413986	-2.692263226	0.026017	0.097924	Ackr1
74.7772	221.951	324.88164	299.98551	-1.071575585	0.02618	0.098423	Cyslrl
12.4629	3.56547	39.958705	26.827972	-2.078956058	0.026194	0.098444	Siglece
61.2758	112.312	227.59088	130.4815	-1.044976142	0.026225	0.0985	Acsl6
11.4243	1.78274	26.928692	37.803052	-2.311074182	0.026272	0.098653	Gm44165
108.012	177.382	207.61153	309.74113	-0.852905123	0.026292	0.098682	Arhgef5
0	1.78274	125.08812	2.4389066	-6.134102988	0.026375	0.098947	S100a9
317.803	312.87	390.03171	576.8014	-0.613647154	0.026392	0.098988	B3gnt3
11.4243	0.89137	33.009365	34.144692	-2.469669297	0.026401	0.098998	Hoxa7
904.597	1165.02	1278.6786	1649.9203	-0.499413991	0.026421	0.09905	Map3k2
71.6615	65.0699	105.10877	153.65111	-0.916488213	0.026592	0.099596	Rcor2
1006.38	1219.39	1532.3295	1425.5409	-0.410080069	0.026607	0.099607	Eif3j1
8149.68	9830.91	12280.352	10942.154	-0.369095582	0.026619	0.099607	Rnh1
567.061	499.166	648.89462	899.95652	-0.537235316	0.026694	0.099821	Tmem71
32.1957	39.2202	56.463387	115.84806	-1.262051864	0.026747	0.099993	AC156795.1
10.3857	23.1756	33.878032	75.606103	-1.691060143	0.026761	0.100023	Gm4876
66.4686	87.3541	147.67347	129.26205	-0.84750289	0.026823	0.100187	Svip
0	0	12.161345	3.6583598	-5.490389193	0.026833	1	Cdh26
1.03857	1.78274	8.6866749	19.511252	-3.297844161	0.027075	0.100893	Gm42602
1.03857	1.78274	8.6866749	19.511252	-3.297844161	0.027075	0.100893	Prkcg
298.07	410.03	530.75584	512.17038	-0.557367643	0.027099	0.10096	Ube2w
1.03857	0.89137	15.636015	8.536173	-3.658540717	0.027181	1	AC112265.1
548.366	596.326	720.99402	834.10604	-0.44039465	0.027261	0.101515	Tmem135
111.127	136.379	227.59088	181.69854	-0.726743684	0.027275	0.101545	Slc6a8
600.295	632.872	826.10279	802.40026	-0.401182241	0.027408	0.101939	Isca2

9.34715	25.8497	48.64538	58.533757	-1.594216353	0.027412	0.101939	Slc4a3
6.23143	57.0476	190.23818	60.972664	-1.985146845	0.027423	0.101954	Zfp385b
16.6172	20.5015	64.281395	37.803052	-1.463440157	0.027473	0.102116	Gm7694
326.112	377.049	433.46508	642.65188	-0.610818166	0.027681	0.102795	Zfyve16
418.545	459.946	555.9472	676.79657	-0.486557213	0.02769	0.102797	Pcgf2
23.8872	9.80506	37.352702	68.289384	-1.652278094	0.027694	0.102797	Tmem141
273.145	302.174	378.73903	458.51443	-0.538631767	0.02777	0.10303	Gm9844
88.2787	133.705	291.00361	146.33439	-0.980366426	0.027798	0.103109	Pls1
32.1957	31.1979	58.200722	85.36173	-1.174441344	0.027882	0.103373	Tmem86a
7136.03	10183	11874.685	11731.141	-0.446683302	0.027998	0.103703	Ogt
747.772	790.644	915.57554	1232.8673	-0.480151195	0.028003	0.103703	Vamp4
51.9286	41.003	110.32077	79.264463	-1.0352935	0.02804	0.103818	Il13ra1
540.058	311.979	783.53808	593.87375	-0.69540469	0.028136	0.104151	Csgalnact2
10.3857	5.34821	22.585355	39.022505	-1.972895336	0.028248	0.10454	Rln3
1126.85	1165.91	1398.5547	1553.5835	-0.363871024	0.028307	0.104735	Plin3
716.615	786.187	934.68622	1065.8022	-0.411324612	0.028327	0.104777	Cdc42bpg
596.141	581.172	806.9921	752.40267	-0.406320608	0.028332	0.104777	Als2
973.142	1014.38	1267.3859	1276.7676	-0.355984332	0.028353	0.104831	Mtss1
1128.93	1255.05	1418.534	1799.913	-0.431739301	0.028403	0.104995	Fnip1
10.3857	19.6101	102.50276	18.291799	-2.012259812	0.028433	0.105057	Trem1l
438.278	458.163	587.21923	626.79899	-0.436517037	0.028534	0.105372	Agl
0	3.56547	25.191357	10.97508	-3.305980366	0.028542	0.105372	Trhr
1058.31	1069.64	1265.6485	1573.0947	-0.41463154	0.028549	0.105372	Zeb1
22.8486	21.3928	56.463387	51.217038	-1.285663829	0.028551	0.105372	Gm14286
105.934	162.229	239.75223	213.40432	-0.755222262	0.028564	0.105379	Gm26782
489.168	493.818	692.32799	630.45735	-0.429259819	0.028566	0.105379	Ocr1
3.11572	5.34821	18.242017	24.389066	-2.318261632	0.02858	0.105405	AC160403.2
163.056	148.859	229.32822	249.98792	-0.619402132	0.028667	0.105656	Gm9385
862.015	893.151	1001.5736	1592.606	-0.562194055	0.028692	0.105698	Ppcdc
658.455	669.418	855.63748	881.66472	-0.387352888	0.028713	0.10575	Ift20
331.305	408.247	503.82715	546.31507	-0.503933009	0.028758	0.105837	Necap1
146.439	174.708	243.2269	252.42683	-0.624152115	0.028763	0.105837	Epn2
15148.6	14787.8	17710.393	18758.85	-0.284740007	0.028824	0.105966	Rpl14
6620.9	7289.61	7986.5289	10373.889	-0.400155365	0.028869	0.106082	Cd3g
1515.28	1544.74	1872.8471	1980.3921	-0.332139994	0.028953	0.106295	Sec61g
1.03857	0	10.42401	10.97508	-4.453378162	0.028976	1	Serping1
868.247	846.8	1045.007	1214.5755	-0.396838688	0.029018	0.10651	Tpra1
29.08	29.4152	67.756065	62.192117	-1.15272707	0.029044	0.10658	Gm28935
1533.97	1511.76	1903.2505	1914.5417	-0.325959845	0.029088	0.106669	Sugp2
545.251	602.565	730.54936	814.59479	-0.42737784	0.029107	0.106714	Pnpla8
182.789	224.625	277.10493	354.8609	-0.629526852	0.02915	0.1068	Gm38394
15.5786	4.45684	45.17071	30.486332	-1.93513505	0.029203	0.106969	C030034L19Rik
5.19286	0.89137	20.84802	18.291799	-2.715737353	0.029221	0.107009	Trf
1906.82	2107.2	2399.2596	2770.5979	-0.364356928	0.029251	0.107098	Clk1
0	0.89137	11.292677	9.7556262	-4.46919462	0.029267	1	Ip6k3

3.11572	3.56547	17.37335	19.511252	-2.460310015	0.029336	0.107359	Gpr35
1331.45	1271.09	1672.1849	1619.434	-0.339250323	0.029367	0.107423	Leprot
729.078	861.954	997.23028	1148.725	-0.430171938	0.029374	0.107424	Ptov1
10.3857	19.6101	40.827372	47.558678	-1.548897664	0.029426	0.107589	Mafa
1686.64	1681.12	2043.1059	2187.6992	-0.328776657	0.029488	0.107794	Stx5a
10.3857	2.67411	39.090037	20.730706	-2.218901719	0.029518	0.10788	Fzd1
956.525	1003.68	1152.7218	1541.3889	-0.457397319	0.029564	0.108022	Rpl37rt
2127	2427.2	2865.7341	2897.421	-0.339360017	0.029622	0.10821	Ankib1
117.359	122.118	151.14814	293.88824	-0.889166794	0.029653	0.108274	5830418P13Rik
0	0.89137	6.94934	14.633439	-4.496677499	0.029724	1	Cox6a2
744.656	946.634	1495.8454	999.95169	-0.56217029	0.029777	0.108676	Bnip3
2.07714	1.78274	15.636015	13.413986	-2.917837014	0.029803	0.108749	Dok7
445.548	428.748	621.96593	564.60687	-0.441887018	0.029832	0.108789	Prune1
2.07714	23.1756	55.59472	53.655944	-2.098813405	0.029843	0.108796	Grip2
2052.22	1961.9	2402.7343	2660.8471	-0.334730097	0.029887	0.108931	St3gal4
118.397	44.5684	255.38824	124.38423	-1.227397698	0.029905	0.10897	Steap3
1647.18	1593.77	1851.1304	2640.1164	-0.469867694	0.029952	0.109117	Acaal1a
462.165	443.01	580.26989	649.9686	-0.441731302	0.029988	0.109196	Lrrc20
189.02	166.686	259.73158	275.59644	-0.589965173	0.029994	0.109196	Prorsd1
1441.54	1671.32	1960.5825	2040.1453	-0.361458675	0.030004	0.109199	Trim41
43.62	57.0476	66.887397	171.94291	-1.238450162	0.030008	0.109199	Sbsn
0	0.89137	15.636015	6.0972664	-4.523030456	0.030048	1	Rgs7bp
2.07714	3.56547	23.454022	12.194533	-2.655680253	0.030052	0.109334	1110028F11Rik
756.081	98.0506	3136.7583	2392.5673	-2.69485109	0.030073	0.109342	Slc7a8
1108.16	1054.49	1289.9712	1570.6558	-0.402625734	0.030075	0.109342	Slc35b2
2.07714	3.56547	17.37335	17.072346	-2.598302139	0.030162	0.109578	D7Ertd128e
50.89	72.2009	122.48212	109.7508	-0.913947757	0.030173	0.109578	Il18
580.562	780.839	908.6262	997.51278	-0.484091677	0.030233	0.109722	Klhl28
1271.21	1261.29	1638.3069	1560.9002	-0.337510022	0.030349	0.110043	Plbd2
1217.21	1127.58	1513.2188	1471.8801	-0.348786225	0.030473	0.110417	Vopp1
5453.54	6086.27	6576.6816	8905.6673	-0.423683469	0.030527	0.110562	Mdm4
63.3529	84.68	158.96615	114.62861	-0.8874734	0.030626	0.110897	Sgms2
6037.22	7186.21	7676.4147	10008.053	-0.419099655	0.03065	0.11091	Nsd3
141.246	185.405	291.87228	230.47667	-0.677899638	0.030662	0.110928	Lym1
586.793	564.236	713.17601	840.20331	-0.431266063	0.030688	0.110997	Zcchc4
615.873	631.98	784.40675	864.59238	-0.401100307	0.030704	0.110997	Trmt2b
4454.44	6548.89	7391.4917	7769.1369	-0.46218594	0.030781	0.111185	Cish
6.23143	23.1756	46.908045	51.217038	-1.725173072	0.030858	0.111413	Slc15a1
4564.53	5952.56	6799.0605	6992.3451	-0.390833181	0.03095	0.111669	Med12
521.363	533.038	730.54936	673.13821	-0.413514916	0.030975	0.111706	Cipc
653.262	689.919	806.9921	1042.6326	-0.459771198	0.030987	0.111706	H2-DMa
617.951	626.632	722.73136	1104.8247	-0.552362834	0.030991	0.111706	Rexo5
193.174	219.277	272.76159	360.95817	-0.615909087	0.031004	0.111706	Tmem198b
4.15429	11.5878	27.79736	34.144692	-1.95966621	0.031008	0.111706	Slc6a19
1145.55	1070.53	1594.0049	1321.8874	-0.397124328	0.031027	0.111749	Pea15a



0	0	0	25.608519	-6.170145257	0.031048	1	Gm4631
1259.79	1525.13	2194.2541	1647.4814	-0.4646399	0.031145	0.112098	Idi1
669.879	756.772	926.86822	949.95411	-0.394894855	0.031152	0.112098	Acadsb
1.03857	0	6.0806725	15.852893	-4.479189126	0.031184	1	Gm15658
9.34715	8.91369	24.32269	39.022505	-1.788908614	0.031191	0.112188	Gm16267
1.03857	0	7.8180075	13.413986	-4.436313029	0.031233	1	Mirt2
282.492	283.455	397.84971	395.10286	-0.486633913	0.031254	0.112363	Lrrc57
1765.57	1959.23	2359.3009	2329.1558	-0.331752083	0.031448	0.113012	Sec63
153.709	345.851	405.66772	495.09803	-0.847574276	0.03147	0.113063	Zfp783
855.784	1137.39	1386.3933	1329.2041	-0.445670461	0.03149	0.113108	Epsti1
2711.71	3797.23	4323.3581	4496.1242	-0.437941723	0.031496	0.113108	Ifnar1
822.549	894.934	1162.2771	1069.4605	-0.378161212	0.031536	0.113203	Fam208a
16.6172	12.4792	28.666027	60.972664	-1.618648698	0.031545	0.113207	Gm15326
160.979	177.382	215.42954	347.54419	-0.730075943	0.031621	0.113431	Ptprf
2.07714	0	16.504682	9.7556262	-3.722622097	0.031668	0.1135	Phlda2
1287.83	1201.56	1537.5415	1624.3118	-0.344856699	0.031707	0.113611	Tmem214
1814.39	2191.88	3913.3471	2184.0408	-0.606420136	0.031753	0.113726	Irgm1
1552.67	1545.63	1794.667	2336.4725	-0.414170196	0.031824	0.113932	AC124744.2
1.03857	0	8.6866749	12.194533	-4.414339909	0.031876	1	Gm20627
2294.21	2101.85	2593.8411	3051.0721	-0.360360941	0.031969	0.114375	Krtcap2
6.23143	4.45684	13.89868	36.583598	-2.235288743	0.03198	0.114387	Ldhd
2898.66	2964.69	3498.9927	3748.5994	-0.305488244	0.031995	0.114415	Ubxn1
553.559	607.913	720.99402	852.39784	-0.436132581	0.032053	0.114596	Tcp1112
1376.11	1584.85	1788.5864	2080.3873	-0.384920571	0.032071	0.114637	Fam168a
20.7714	41.003	57.332055	96.336809	-1.303779346	0.032109	0.114749	Cage1
105.934	104.29	145.93614	215.84323	-0.778906637	0.03212	0.11476	Zfp420
10.3857	23.1756	42.564707	54.875398	-1.525670869	0.032164	0.114893	Jph4
1112.31	1135.6	1389.868	1459.6856	-0.341711292	0.032201	0.114987	Mcrip1
816.318	891.369	1025.8963	1265.7925	-0.422837901	0.032385	0.115556	Asns
10396.1	12857.1	14933.263	14713.923	-0.350400231	0.032414	0.115632	Ddx17
211.869	285.238	322.27564	465.83115	-0.660891325	0.032472	0.115814	4931406C07Rik
79.9701	97.1592	135.51213	170.72346	-0.785062937	0.032479	0.115814	Trim13
29.08	17.8274	55.59472	58.533757	-1.287946672	0.032528	0.115936	Slc7a7
346.883	321.784	426.51574	523.14546	-0.504508929	0.032593	0.116129	Pigc
527.595	1072.32	1163.1458	1448.7105	-0.705820096	0.03261	0.116151	Susd3
52.9672	61.5044	123.35078	92.678449	-0.918627815	0.032653	0.116279	Upb1
8.30858	11.5878	37.352702	28.047425	-1.715627558	0.032661	0.116282	Cacna1d
395.696	451.924	535.09918	653.62696	-0.485534313	0.032689	0.116303	Coq10a
7.27001	15.1533	49.514047	26.827972	-1.764795359	0.032796	0.116583	Gngl1
12463.9	14143.3	15327.638	19133.222	-0.372994456	0.03287	0.11676	Pik3cd
398.812	465.294	564.63387	625.57953	-0.460117495	0.032875	0.11676	Xpa
406.082	411.812	538.57385	565.82632	-0.432607108	0.032947	0.11699	Crat
96.5872	98.0506	147.67347	174.38182	-0.723949676	0.033309	0.118146	Capn5
10639.1	10575.2	13249.785	12487.202	-0.278878208	0.033332	0.1182	Tmbim6
132.937	240.67	271.02426	381.68888	-0.800594234	0.033355	0.118231	Icosl

3.11572	3.56547	25.191357	12.194533	-2.490160431	0.033409	0.118395	Ccdc180
1390.65	1527.81	1745.153	2020.6341	-0.366818209	0.033472	0.118566	Tbrg1
16.6172	23.1756	63.412727	40.241958	-1.382912959	0.033592	0.118886	Gm17590
385.31	508.972	619.35992	641.43243	-0.494005875	0.033626	0.118976	Ing2
2.07714	1.78274	14.767347	13.413986	-2.873252031	0.033671	0.119054	Gm16897
310.533	372.592	460.39377	501.1953	-0.491306666	0.033676	0.119054	Acot11
2780.26	2525.25	3156.7377	3530.3172	-0.33368561	0.03382	0.119485	Mboat7
3.11572	3.56547	19.979352	15.852893	-2.423369431	0.033931	0.119799	Mmp25
1529.82	1499.28	1773.819	2157.2129	-0.375227883	0.03396	0.119865	Rgl2
234.717	250.475	357.89101	334.1302	-0.512671347	0.034122	0.120314	Anxa9
83.0858	67.744	126.82545	135.35931	-0.798736618	0.034175	0.120449	4930520O04Rik
54.0058	18.7187	150.27948	54.875398	-1.506725696	0.034196	0.120495	Clstn3
1356.38	244.235	4572.6657	3386.4218	-2.314160621	0.03428	0.120685	Cd63
238.872	214.82	302.29629	364.61653	-0.554336608	0.034444	0.121068	Gpt2
3.11572	4.45684	26.060025	13.413986	-2.383094781	0.034593	0.121534	Ankrd35
1330.41	1303.18	1541.0161	1908.4444	-0.3884242	0.034739	0.121982	Ctss
69.5844	62.3958	101.6341	140.23713	-0.870695714	0.034777	0.122065	Intu
5618.68	4861.52	7006.672	6237.5035	-0.337990698	0.03481	0.122154	Slc7a5
4198.95	4756.34	5628.0967	5486.3203	-0.311535008	0.034965	0.122617	Acadl
763.351	913.653	1158.8024	1060.9244	-0.404430415	0.034993	0.122646	Pcyox1
0	2.67411	23.454022	7.3167197	-3.48657468	0.035037	0.122762	4921523L03Rik
95.5487	96.2678	165.04682	148.7733	-0.711709795	0.035103	0.122968	Galr3
39.4658	51.6994	96.422092	82.922823	-0.975448193	0.035183	0.123167	Gm2011
494.36	879.781	868.66749	1369.446	-0.701993323	0.035242	0.123347	Ly6c1
3.11572	0.89137	6.0806725	28.047425	-3.102664622	0.035268	0.123412	Hebp2
47.7743	32.9806	124.21945	59.753211	-1.197278064	0.035279	0.123424	Hemgn
1.03857	9.80506	39.090037	19.511252	-2.417188003	0.035356	0.123569	Adap2
3.11572	2.67411	13.030012	20.730706	-2.541016876	0.035359	0.123569	Tifab
39.4658	60.6131	89.472752	109.7508	-0.986636231	0.035392	0.123656	A230072C01Rik
0	1.78274	13.030012	10.97508	-3.69575104	0.035446	1	Mefv
540.058	445.684	638.47061	712.16072	-0.454343426	0.035466	0.123891	Rab19
1268.1	1478.78	1671.3163	1898.6888	-0.37716526	0.035512	0.123971	1600014C10Rik
2767.8	2530.6	3198.4337	3385.2023	-0.313293324	0.035559	0.124081	Bri3bp
157.863	153.315	216.29821	259.74355	-0.611139412	0.035626	0.124286	Umad1
796.585	754.989	912.96954	1208.4782	-0.449964183	0.035719	0.124557	Abhd17b
6.23143	3.56547	26.928692	17.072346	-2.182921591	0.035757	0.124662	Pcdh1
1770.77	1927.14	2270.6968	2345.0087	-0.319466327	0.035769	0.124678	Ctage5
398.812	557.997	593.2999	853.6173	-0.594077919	0.03578	0.124687	Podnl1
328.189	311.088	398.71838	523.14546	-0.525911383	0.035831	0.124812	Nicn1
451.779	504.515	589.82523	735.33033	-0.468358265	0.03587	0.124893	Cep19
2791.68	2642.02	3129.809	3871.7642	-0.365291122	0.035908	0.125001	Mthfd2
2213.2	2299.73	2801.4527	2754.745	-0.300020494	0.035923	0.125024	Yipf3
11.4243	29.4152	64.281395	48.778131	-1.462686626	0.035978	0.12517	Rin2
276.26	250.475	373.52702	368.27489	-0.494867193	0.035987	0.12517	Tmem156
19.7329	3.56547	42.564707	43.900318	-1.906648207	0.036262	0.12589	Itgal

220.177	168.469	321.40697	270.71863	-0.611012798	0.036265	0.12589	Hrh2
9.34715	16.936	47.776712	31.705785	-1.593854996	0.036324	0.126066	Stac2
5.19286	7.13095	19.979352	29.266879	-1.987897251	0.036331	0.126066	AC091785.2
504.746	845.909	1609.6409	745.08595	-0.802461288	0.03637	0.126146	Dhx58
1454	1455.61	1865.8978	1765.7684	-0.320146927	0.0364	0.126205	Nrbp1
63.3529	50.808	92.078754	123.16478	-0.913177642	0.036403	0.126205	Nectin2
240.949	310.196	379.6077	423.15029	-0.53996068	0.036484	0.126458	Atat1
466.319	549.974	616.75392	828.00878	-0.505061989	0.036531	0.126593	Slc25a30
1.03857	0	7.8180075	12.194533	-4.35108664	0.036611	1	Foxb1
452.818	459.055	588.95656	625.57953	-0.41273937	0.036615	0.126804	Zfp787
2076.11	1863.85	2209.8901	3265.6959	-0.47422806	0.036643	0.126853	Pitpnc1
2002.37	2277.45	2751.9386	2627.9218	-0.329936566	0.036645	0.126853	Ggta1
2823.88	2814.05	3305.2798	3693.724	-0.311614604	0.036817	0.127313	Nr1h2
1968.09	1931.6	2439.2183	2370.6172	-0.302827033	0.036869	0.127466	Ppib
0	0	10.42401	3.6583598	-5.321887657	0.037092	1	Il1f6
5404.73	6031	6886.7959	7199.6522	-0.300577792	0.037147	0.128344	Utrn
0	2.67411	17.37335	10.97508	-3.362113397	0.037194	0.128452	Lrrc2
3464.68	3377.4	4064.4952	4303.4506	-0.290296941	0.03724	0.128582	Atp5e
2.07714	4.45684	19.979352	15.852893	-2.443230453	0.037269	0.128656	Adamts13
1942.13	2155.33	2348.0082	3108.3864	-0.412387602	0.037308	0.128735	Marf1
205.637	329.806	415.22306	414.61412	-0.630043646	0.037355	0.128867	Zfp446
1122.7	1200.67	1442.8567	1487.733	-0.334511698	0.037363	0.128867	Cnst
492.283	517.885	603.72391	813.37534	-0.486106508	0.037403	0.128981	Vps8
28.0415	50.808	66.01873	113.40916	-1.176302117	0.037415	0.128982	Nmb
1525.66	1526.91	1982.2992	1831.6188	-0.321701714	0.03742	0.128982	Gramd3
1956.67	2128.59	2332.3722	3104.7281	-0.411588562	0.037452	0.129065	Mif4gd
527.595	604.348	693.19666	857.27566	-0.451812947	0.037549	0.129289	Yipf6
527.595	513.428	616.75392	851.17839	-0.493832507	0.037556	0.129289	Gpsm1
3.11572	3.56547	12.161345	24.389066	-2.440413186	0.037556	0.129289	Gm43769
1601.48	1591.09	1880.6651	2164.5296	-0.340823824	0.037557	0.129289	Affl
128.783	147.076	194.58152	237.79339	-0.644676692	0.037642	0.129498	A930024E05Rik
369.732	397.55	491.6658	557.29015	-0.449323346	0.03775	0.129801	Slc35d2
275.222	309.305	403.93039	410.95576	-0.478297506	0.037759	0.129801	Prrg2
36.35	41.003	64.281395	97.556262	-1.058312212	0.03777	0.129801	Gm37090
3041.98	2984.3	3539.82	3899.8116	-0.303674985	0.037812	0.129919	Rps12-ps3
19.7329	34.7634	59.06939	68.289384	-1.216701296	0.037938	0.130238	Gm44292
373.886	286.129	457.78777	482.9035	-0.512171172	0.037974	0.130336	Rffl
396.735	405.573	504.69581	591.43484	-0.448416284	0.03804	0.13045	Rp2
284.569	287.912	363.97168	453.63662	-0.511752807	0.03816	0.130752	Nfxl1
7.27001	9.80506	25.191357	32.925239	-1.758498424	0.038216	0.130859	Gm37584
288.723	329.806	380.47636	536.55944	-0.564837762	0.038318	0.131152	Gm13680
5.19286	4.45684	13.89868	30.486332	-2.194960301	0.038343	0.131203	Cldn10
12.4629	65.0699	131.16879	90.239543	-1.508525983	0.038631	0.131999	Trpm6
322.996	406.464	540.31118	485.34241	-0.491414816	0.038641	0.132007	Lrsam1
139.169	214.82	244.09557	341.44692	-0.721416409	0.038685	0.132127	Zfp54

311.572	354.765	463.86844	453.63662	-0.460873533	0.038773	0.132373	Zdhhc17
9.34715	6.23958	71.230735	7.3167197	-2.346408026	0.038919	0.132759	Serpinb10
2069.87	2228.42	2543.4584	2841.3261	-0.324531394	0.03896	0.132826	Arf4
6.23143	18.7187	26.060025	62.192117	-1.804955525	0.03903	0.132996	Tmod1
5.19286	2.67411	13.89868	25.608519	-2.333139482	0.039096	0.133166	Cacnb4
2.07714	7.13095	15.636015	30.486332	-2.299278852	0.039129	0.133231	Gm30790
120.474	116.769	171.1275	203.6487	-0.65746837	0.039147	0.133231	Gm7331
6.23143	1.78274	25.191357	15.852893	-2.382017207	0.039246	0.133422	Zmynd15
256.527	286.129	322.27564	529.24272	-0.646448811	0.039269	0.133472	Epb41l4aos
8.30858	1.78274	24.32269	23.169612	-2.256446387	0.039382	0.133772	Lypd6
1731.3	1456.5	2123.0234	1963.3198	-0.358976254	0.039382	0.133772	Gm7367
535.903	434.097	615.01659	726.79416	-0.467764381	0.039456	0.133969	Uap1l1
1574.48	1774.72	1959.7139	2402.323	-0.380238166	0.039533	0.1342	Zcchc11
57.1215	111.421	158.09748	157.30947	-0.899862226	0.039656	0.134562	Spo11
247.18	330.698	388.29437	460.95334	-0.552417555	0.039694	0.134562	Cmc1
796.585	776.382	940.7669	1123.1165	-0.390713449	0.039698	0.134562	Gm9493
1180.86	1471.65	1606.1662	1931.614	-0.41436221	0.039698	0.134562	Wdr13
7.27001	3.56547	72.96807	2.4389066	-2.813396749	0.039855	0.134982	Cxcl5
10.3857	2.67411	48.64538	13.413986	-2.272278796	0.039892	0.135049	Gpr84
244.065	267.411	350.073	369.49434	-0.491085201	0.040025	0.135416	Zfp51
20.7714	8.91369	55.59472	32.925239	-1.591026482	0.040042	0.135427	Pdgrfb
950.294	921.675	1140.5604	1242.6229	-0.347794811	0.040045	0.135427	Slc35d1
6.23143	6.23958	32.140697	17.072346	-1.988353513	0.040072	0.135488	Gm14023
2013.79	2094.72	2496.5504	2553.5352	-0.297480417	0.040171	0.135765	Stk40
22.8486	69.5268	155.49148	76.825557	-1.328704777	0.040207	0.135856	4933406118Rik
62.3143	114.987	149.41081	176.82073	-0.874203501	0.040264	0.135967	Inha
121.513	143.51	185.02618	235.35448	-0.661316099	0.040273	0.135968	Gm5113
5.19286	28.5238	46.908045	67.06993	-1.743072799	0.040325	0.136115	Ggt5
0	0.89137	5.212005	14.633439	-4.374351572	0.040385	1	Slc25a2
14.54	20.5015	29.534695	71.947744	-1.521971968	0.040416	0.136339	Tm6sf2
25.9643	33.872	60.806725	68.289384	-1.104459215	0.040507	0.136616	Spry4
1656.52	1733.71	2010.9653	2231.5995	-0.322911269	0.040574	0.136755	Arih2
147.477	181.839	234.54022	265.84082	-0.600396083	0.040679	0.136995	Nphp3
250.296	292.369	420.43507	354.8609	-0.515538773	0.040708	0.137038	Fam210b
37.3886	59.7217	239.75223	41.461412	-1.5369292	0.040709	0.137038	Ache
250.296	189.862	280.5796	409.7363	-0.647697565	0.040725	0.137063	Gm13436
539.019	681.897	762.69006	920.68723	-0.461403934	0.040756	0.137113	Fchsd2
17.6557	16.936	56.463387	34.144692	-1.396331179	0.040771	0.137134	Pde10a
211.869	191.644	248.4389	389.0056	-0.656607366	0.040848	0.137308	Gm11131
2150.88	2004.69	2825.7754	2424.2731	-0.337983305	0.040873	0.137347	Prkcd
250.296	312.87	386.55704	417.05302	-0.510749143	0.040877	0.137347	Ccdc28a
2.07714	0.89137	2.6060025	29.266879	-3.429429962	0.040961	0.137486	Pom12l12
1354.3	1531.37	2106.5187	1681.6261	-0.393176948	0.040999	0.137585	Gan
3.11572	5.34821	16.504682	23.169612	-2.214245806	0.04104	0.137665	Fbxo27
154.747	182.731	250.17624	252.42683	-0.573157106	0.041178	0.138041	Acad12

193.174	273.65	335.30565	365.83598	-0.584055284	0.041307	0.138418	Mapre3
9.34715	8.91369	23.454022	36.583598	-1.711734023	0.041404	0.138588	Catsperg1
0	0.89137	13.030012	6.0972664	-4.338224715	0.041505	1	Sprr2g
1494.51	1371.82	1660.0236	2090.1429	-0.387039206	0.041506	0.138868	Gm6863
197.329	260.28	310.1143	374.37216	-0.577449599	0.041511	0.138868	Sirt3
486.052	612.37	692.32799	821.91151	-0.461091966	0.041577	0.139061	Usp20
889.018	927.023	1033.7143	1476.7579	-0.465640292	0.04172	0.139469	Rnaset2a
25.9643	24.9583	40.827372	84.142276	-1.287816528	0.041725	0.139469	Gm15927
10227.9	9954.81	11570.651	13188.387	-0.294720044	0.041789	0.139568	Eif3h
397.773	802.232	822.62812	1135.311	-0.704544388	0.041791	0.139568	Marveld1
3.11572	12.4792	20.84802	43.900318	-2.03195587	0.041798	0.139568	Gm38411
106.973	108.747	153.75415	193.89307	-0.685138568	0.041836	0.139639	Dfna5
591.986	477.774	696.67133	748.74431	-0.434576774	0.04196	0.139936	Hexb
0	1.78274	9.5553424	13.413986	-3.628028586	0.042058	1	CT030170.6
5.19286	0.89137	11.292677	26.827972	-2.665948738	0.042077	0.140183	Gm15657
3515.57	3552.1	4769.8532	4053.4627	-0.320462943	0.042224	0.140614	S100a11
24612.1	23777.3	27456.842	32433.799	-0.307584335	0.042225	0.140614	Rpl6
29.08	47.2425	75.574072	82.922823	-1.048142405	0.042262	0.140681	Tmem151b
2005.48	2314.88	2602.5278	2846.204	-0.334177746	0.042496	0.141198	Nbr1
3.11572	8.91369	62.54406	6.0972664	-2.510941805	0.042561	0.141385	Cavin2
1113.35	1104.41	1223.9525	1924.2973	-0.504255209	0.042714	0.141807	Impa2
1490.35	1479.67	1746.8903	1992.5867	-0.331688833	0.042768	0.141906	Tmem258
0	2.67411	11.292677	15.852893	-3.292547924	0.04291	0.142194	Npffr1
2018.98	2051.93	2362.7756	2749.8671	-0.328087348	0.042996	0.142362	Clk3
9.34715	6.23958	21.716687	32.925239	-1.810491491	0.043054	0.142524	Cmya5
1270.17	1411.93	1629.6202	1753.5738	-0.33428516	0.043134	0.142758	Sc5d
50.89	48.1339	79.91741	107.31189	-0.915331883	0.04328	0.143124	Atg4c
411.275	471.534	582.87589	598.75156	-0.419538158	0.043351	0.14333	Bmt2
7.27001	12.4792	39.958705	24.389066	-1.702691024	0.043436	0.143554	Gm44250
1.03857	1.78274	4.3433375	23.169612	-3.259657885	0.043487	0.143663	Zgl6
1208.9	1014.38	1276.9412	1791.3769	-0.46399485	0.043517	0.143701	Ppmlm
3.11572	1.78274	20.84802	9.7556262	-2.664050831	0.043527	0.143706	Fcrlb
313.649	376.158	867.79883	348.76364	-0.820443278	0.043605	0.143874	Isg20
7319.86	7404.6	8296.6432	10264.138	-0.333816863	0.043645	0.143949	Rpl22
518.248	524.125	683.64132	673.13821	-0.380419537	0.043669	0.143987	Mcfd2
4.15429	15.1533	32.140697	36.583598	-1.815744909	0.043675	0.143987	Gm10390
44.6586	62.3958	68.624732	167.0651	-1.13027355	0.043766	0.144231	Hid1
2.07714	2.67411	12.161345	17.072346	-2.610946898	0.043806	0.144333	Gm14207
1126.85	1145.41	1315.1626	1653.5786	-0.384563827	0.04389	0.144549	Nck2
12.4629	4.45684	33.009365	26.827972	-1.838443209	0.043922	0.144625	Smim1
1088.42	1017.05	1334.2733	1309.6928	-0.328962872	0.043953	0.144652	Rab11a
167.21	187.187	227.59088	319.49676	-0.622216771	0.043953	0.144652	Zrsr1
304.302	254.04	418.69773	369.49434	-0.49991146	0.044025	0.144784	Mitd1
2635.9	2393.32	2865.7341	3653.482	-0.373918623	0.044041	0.144784	Rps16-ps2
167.21	67.744	275.3676	184.13745	-0.973046748	0.044041	0.144784	Gpr34

1.03857	3.56547	11.292677	19.511252	-2.71219198	0.044092	0.144917	Gm5049
826.704	831.647	971.17026	1219.4533	-0.400184509	0.044138	0.145012	Tpcn1
2.07714	5.34821	13.89868	24.389066	-2.343289045	0.044244	0.14529	Klrb1b
19.7329	16.936	74.705405	28.047425	-1.496985177	0.044263	0.14529	Ccdc80
3960.08	4368.6	8042.1237	4296.1339	-0.567273642	0.044273	0.14529	Lgals3bp
58.1601	97.1592	104.2401	207.30706	-0.996690877	0.044277	0.14529	Gpr179
2.07714	0	11.292677	12.194533	-3.554242426	0.044315	1	Ppp1r9a
10.3857	8.91369	17.37335	51.217038	-1.821172927	0.044321	0.145404	5330439K02Rik
2883.08	3038.68	3441.6606	3888.8365	-0.307427866	0.044472	0.14581	Copb1
1558.9	1581.29	1837.2318	2109.6542	-0.329140076	0.044693	0.146355	Azi2
1.03857	0	3.47467	17.072346	-4.378311426	0.044699	1	Tmem59l
327.15	388.637	407.40506	708.50236	-0.637541645	0.044734	0.146401	Il6st
960.679	968.918	1354.2526	1134.0916	-0.367974293	0.044907	0.146909	Cln7
13.5014	18.7187	44.302042	39.022505	-1.368232117	0.044951	0.146963	Gm16224
416.468	288.803	504.69581	512.17038	-0.529383675	0.044959	0.146963	Acvr1b
4.15429	0.89137	18.242017	13.413986	-2.68026378	0.044977	0.146963	P2ry6
2715.87	2398.67	2987.3475	3486.4169	-0.339749013	0.04498	0.146963	Sdcbp
575.369	960.895	1367.2826	965.807	-0.602882861	0.045001	0.146979	Asph
778.929	978.723	1279.5472	1075.5578	-0.42237752	0.045166	0.147435	Ptpn4
1119.58	1059.84	1300.3952	1463.3439	-0.342094477	0.04533	0.147872	Inpp1
17.6557	15.1533	36.484035	47.558678	-1.3551984	0.04535	0.147903	Shcbp1l
8.30858	8.02232	60.806725	9.7556262	-2.122024874	0.045472	0.148247	F5
0	0	4.3433375	8.536173	-5.179721822	0.045476	1	Bfsp1
5356.96	5668.21	6115.4192	8281.3072	-0.384611598	0.045503	0.148267	Stat5b
17.6557	11.5878	80.786077	18.291799	-1.773198913	0.045621	0.148582	Cx3cr1
259.643	294.152	307.50829	602.40992	-0.713012773	0.045636	0.1486	Mgst2
61.2758	82.8973	118.13878	132.92041	-0.795814807	0.045654	0.1486	A430046D13Rik
85.1629	106.964	171.1275	143.89549	-0.713733681	0.045724	0.148758	Vmn2r96
54.0058	106.964	132.90613	171.94291	-0.914952489	0.04574	0.148758	Ndnf
51.9286	56.1562	72.96807	458.51443	-2.296639252	0.045863	0.1491	Tmie
1627.44	1712.32	1986.6426	2153.5545	-0.309386335	0.045958	0.149376	Ubxn6
1072.85	1273.77	1515.8248	1482.8552	-0.353360612	0.04597	0.149386	Sdf2
51.9286	33.872	84.260747	84.142276	-0.977223738	0.046033	0.149501	Gstm5
1625.37	1627.64	1985.7739	2006.0006	-0.2951917	0.046042	0.149501	Sp140
5300.87	6130.83	6774.7378	7413.0565	-0.311357221	0.046066	0.149547	Leng8
104.896	152.424	198.05619	214.62378	-0.677873185	0.046096	0.149585	Rgag4
0	0	7.8180075	4.8778131	-5.168564457	0.046107	1	3300002P13Rik
1045.84	1051.82	1217.8718	1509.6832	-0.377654245	0.04614	0.14967	Slc37a3
731.155	864.628	1034.583	1032.8769	-0.372949547	0.046141	0.14967	Trip4
1241.09	1583.96	1858.0798	1814.5465	-0.378101551	0.046169	0.14973	Cep170
84.1244	131.923	184.15751	176.82073	-0.737794579	0.046222	0.149872	Thtpa
2.07714	2.67411	6.0806725	26.827972	-2.774111217	0.046319	0.150096	Mamstr
2601.62	2586.75	2917.8541	3783.9635	-0.368682348	0.046369	0.150229	Mical1
3.11572	4.45684	17.37335	18.291799	-2.227883972	0.04644	0.15038	Wnt6
45.6972	51.6994	146.80481	62.192117	-1.107438305	0.046476	0.15038	Gp1ba

6525.35	7268.22	8479.0634	8289.8434	-0.281742117	0.046485	0.15038	Tcf25
1.03857	8.91369	13.89868	40.241958	-2.415266723	0.04649	0.15038	Gm8013
1253.56	1493.04	1888.4831	1652.3592	-0.366620436	0.046672	0.150908	Gpd2
570.176	703.29	782.66941	942.63739	-0.436157894	0.04674	0.15102	Rarg
99.703	87.3541	123.35078	203.6487	-0.801733785	0.046835	0.151284	Gstk1
474.628	583.846	763.55873	667.04094	-0.434786652	0.047031	0.151847	Ginm1
187.982	199.667	244.96423	340.22747	-0.590397243	0.047047	0.151847	Numbl
11.4243	7.13095	26.060025	32.925239	-1.672361663	0.04712	0.152022	Gm45745
47.7743	62.3958	92.078754	109.7508	-0.868243275	0.047149	0.152054	2810408A11Rik
171.364	188.079	255.38824	265.84082	-0.534812748	0.047177	0.152113	Fam69a
802.816	805.797	1026.765	1003.6101	-0.336118227	0.047201	0.152159	Epg5
93.4715	124.792	151.14814	214.62378	-0.739133161	0.047224	0.152206	Rbbp9
1079.08	1206.02	1359.4646	1568.2169	-0.356371649	0.047245	0.152241	Cog3
98.6644	69.5268	337.04299	71.947744	-1.287041953	0.047369	0.152461	Mfsd2b
398.812	446.576	562.89654	560.94851	-0.410114254	0.047421	0.152543	Asb7
97.6258	112.312	159.83482	171.94291	-0.657869719	0.047424	0.152543	Gm44423
74.7772	63.2872	109.4521	128.04259	-0.781895203	0.047424	0.152543	Tlcd2
71.6615	97.1592	170.25883	121.94533	-0.792897978	0.047832	0.153583	Dlgap3
149.554	155.99	189.36951	303.64387	-0.685781665	0.047834	0.153583	Rps6ka5
2.07714	0.89137	13.89868	9.7556262	-3.019520634	0.04789	1	Cib2
2.07714	1.78274	19.979352	7.3167197	-2.836510823	0.048008	0.153962	Abca13
30.1186	208.58	803.51743	470.70897	-2.415583161	0.04814	0.154281	Il24
235.756	262.062	329.22498	370.7138	-0.489378324	0.048162	0.154281	Rusc1
211.869	185.405	299.69029	271.93808	-0.527246158	0.048165	0.154281	Fnip2
24686.9	37742.3	45357.473	39689.546	-0.446027238	0.048209	0.15439	Il2ra
0	1.78274	6.0806725	17.072346	-3.636452944	0.048234	1	AC161825.1
1492.43	1539.39	2007.4906	1776.7434	-0.320377054	0.048346	0.154752	Gimap9
99.703	95.3764	166.78416	143.89549	-0.673983721	0.048456	0.154966	Fgd2
536.942	701.507	886.04084	792.64463	-0.438555716	0.048474	0.154986	Rnf125
104.896	157.772	218.90421	202.42924	-0.679775192	0.048491	0.154986	Sogal
38.4272	24.067	57.332055	78.04501	-1.116115498	0.048574	0.155159	Gm16712
76.8544	121.226	148.54214	192.67362	-0.778852361	0.048662	0.155349	Ift43
59.1986	20.5015	136.3808	62.192117	-1.327297307	0.048725	0.155425	Bcl11a
99.703	83.7887	136.3808	163.40674	-0.707267601	0.048734	0.155425	Zfp667
464.242	508.08	657.58129	618.26281	-0.392081461	0.048833	0.155679	Zfp287
2291.09	1978.84	2339.3216	3565.6814	-0.467200279	0.048905	0.155816	Dap
241.987	282.564	331.83098	424.36974	-0.524336681	0.048925	0.15585	2610301B20Rik
1.03857	0	5.212005	13.413986	-4.240616686	0.048943	1	Gm45344
1472.7	1094.6	1646.1249	1754.7933	-0.406035582	0.048979	0.155991	Gaa
274.183	247.8	331.83098	408.51685	-0.502551924	0.049223	0.156583	Gm10288
11069.1	12012.1	12739.877	17157.708	-0.373145267	0.04924	0.156603	Cd4
299.109	182.731	349.20433	390.22505	-0.619264108	0.049269	0.156665	Ada
305.34	65.0699	806.12344	638.99352	-1.964848727	0.049415	0.15707	Pygl
343.767	361.896	488.19113	457.29498	-0.422528785	0.049469	0.157209	Zdhhc24
72.7001	72.2009	107.71477	140.23713	-0.771308835	0.049479	0.157209	9330151L19Rik

2274.47	2447.7	2784.948	3019.3663	-0.297204812	0.04955	0.15734	Col4a3bp
30.1186	166.686	534.23051	348.76364	-2.16457635	0.049561	0.15734	Il1r1
2648.36	3191.99	3381.7226	4185.1637	-0.37303968	0.049569	0.15734	Gadd45g
6.23143	16.936	23.454022	54.875398	-1.739657167	0.049724	0.15774	Cbln3
10.3857	8.91369	26.928692	31.705785	-1.603132834	0.049777	0.157846	Hdac11
548.366	675.657	798.30543	820.69206	-0.402368998	0.049841	0.158017	Zufsp
251.335	302.174	346.59833	454.85607	-0.530566545	0.049931	0.158272	1500011K16Rik



**Supplemental Table 2. Upregulated genes in *E4bp4*-cKO Tfh cells**

cKO1	cKO2	cKO_C1	cKO_C2	log2FoldChange	pvalue	padj	GENE_NAME
6022.681	5382.975	231.066	256.085	4.552461553	1.04E-155	1.67E-151	Rps3a2
6311.405	6293.954	1593.14	1587.73	1.986514273	7.13E-48	1.64E-44	Dpp4
2091.685	877.9981	45.1707	37.8031	5.155357619	6.95E-36	9.34E-33	Pcna-ps2
551.482	650.6991	44.302	65.8505	3.465606378	5.22E-30	4.67E-27	Gm7600
1971.21	1537.611	346.598	337.789	2.357287554	8.92E-30	7.57E-27	Sox4
2882.038	2478.005	694.065	588.996	2.060591569	1.25E-28	1.01E-25	Egr3
1827.887	1818.392	464.737	364.617	2.132633752	3.22E-27	2.26E-24	Socs2
5486.778	5522.92	980.726	519.487	2.872886124	2.97E-24	1.45E-21	Ighm
2949.546	2765.917	533.362	289.01	2.792404619	7.89E-23	3.10E-20	Gprin3
3040.94	2366.584	752.266	721.916	1.874393976	4.31E-22	1.58E-19	Egr2
301.186	277.2157	28.666	20.7307	3.530834629	6.62E-21	2.14E-18	Dagla
627.2977	609.6962	81.6547	120.726	2.62318585	8.54E-21	2.65E-18	Fgf13
3718.089	1990.426	422.172	292.669	2.994668009	1.06E-20	3.23E-18	Pou2af1
7122.53	6666.546	2833.59	2575.49	1.349591402	2.72E-20	7.97E-18	Bcl11b
523.4405	626.6322	79.9174	41.4614	3.224992665	2.99E-20	8.62E-18	Igsf3
390.5032	270.0847	29.5347	19.5113	3.729892736	6.22E-20	1.67E-17	Ighg2c
750.8879	451.9239	66.8874	39.0225	3.489287394	9.81E-20	2.55E-17	Trim66
181.7502	205.9062	6.08067	2.43891	5.431452795	4.59E-18	9.87E-16	Myh11
353.1146	618.6099	56.4634	47.5587	3.219279415	9.97E-18	2.04E-15	Sspo
699.9978	395.7677	67.7561	53.6559	3.166476567	1.08E-17	2.17E-15	Eif3j2
2262.011	2403.13	433.465	184.137	2.911700776	6.76E-17	1.27E-14	Igkc
184.8659	188.0788	13.03	8.53617	4.082782771	8.69E-17	1.59E-14	Fap
282.4917	213.9285	26.9287	19.5113	3.400575986	2.29E-16	3.84E-14	Stxbp6
2308.746	1416.385	372.658	428.028	2.218786083	2.77E-16	4.60E-14	Il18r1
3779.365	3626.088	1288.23	892.64	1.76179851	2.85E-16	4.69E-14	Fabp5
3759.632	3200.014	1188.34	851.178	1.768899938	3.83E-16	6.12E-14	Tmem1311
2894.501	2630.429	1150.12	1026.78	1.342556199	3.94E-16	6.23E-14	Ptger4
2043.911	1569.7	567.24	451.198	1.824515771	5.98E-16	9.01E-14	Syne2
258.6045	137.2708	3.47467	2.43891	6.031315366	2.22E-15	3.25E-13	1810009J06Rik
3673.431	2757.895	1048.48	1109.7	1.575389846	2.57E-15	3.73E-13	Adgrl1
1462.31	1164.127	423.91	426.809	1.625978299	2.88E-15	4.15E-13	Nrp1
423.7375	364.5698	70.3621	39.0225	2.830575989	4.04E-15	5.76E-13	Cd109
1120.62	1041.119	284.054	162.187	2.269031847	7.92E-15	1.10E-12	Tex15
11187.5	7218.303	2637.27	1831.62	2.041493936	1.25E-14	1.71E-12	Hivep3
451.779	362.787	92.9474	73.1672	2.285846006	5.28E-14	6.65E-12	Rhbd13
1415.574	1518.001	526.413	369.494	1.707585688	1.12E-13	1.30E-11	Myh10
418.5447	208.5803	30.4034	30.4863	3.363223114	1.32E-13	1.50E-11	Map2
2843.611	2226.639	584.613	256.085	2.588406275	1.51E-13	1.69E-11	Crtam
490.2062	449.2498	135.512	108.531	1.938264689	3.36E-13	3.61E-11	Armex6
1611.864	1158.779	375.264	215.843	2.223591152	6.31E-13	6.61E-11	Rai14
384.2718	290.5862	71.2307	53.6559	2.424022455	1.00E-12	1.02E-10	Cntnap1
189.0202	261.171	33.878	31.7058	2.777503675	3.14E-12	2.93E-10	Klhl3
245.1031	308.4136	50.3827	28.0474	2.799710114	3.78E-12	3.44E-10	Trat1

219.1388	232.6472	21.7167	3.65836	4.09061154	7.10E-12	6.03E-10	Gnai1
2825.956	2863.076	1428.09	1258.48	1.081474341	9.00E-12	7.36E-10	Smad3
1013.647	936.8285	361.366	409.736	1.340704019	1.02E-11	8.29E-10	Delk2
236.7945	228.1904	20.848	2.43891	4.250843806	1.71E-11	1.33E-09	Galnt14
588.8706	460.8376	157.229	115.848	1.935492128	2.34E-11	1.78E-09	Ckmt1
549.4048	475.9909	147.673	90.2395	2.097400996	2.81E-11	2.08E-09	Akap12
7036.328	3676.004	1488.03	1284.08	1.949743991	3.52E-11	2.55E-09	Slc29a1
384.2718	351.1993	109.452	90.2395	1.874845694	4.11E-11	2.95E-09	Rasgef1a
8019.856	7633.681	3036.86	1738.94	1.711789129	5.58E-11	3.85E-09	Btla
176.5573	114.9866	12.1613	3.65836	4.139459582	6.92E-11	4.61E-09	Egr4
1547.473	795.1009	215.43	285.352	2.227753187	7.06E-11	4.67E-09	Klf2
9434.392	6846.603	3431.24	3219.36	1.291395695	7.45E-11	4.90E-09	Stmn1
5460.814	5069.214	2843.15	2659.63	0.935900586	1.01E-10	6.62E-09	Chd3
1841.389	1398.557	638.471	640.213	1.340893057	1.12E-10	7.29E-09	Inpp4a
2350.289	1854.938	916.444	858.495	1.243566971	1.23E-10	7.95E-09	Ipcef1
500.5919	579.3896	192.844	176.821	1.54527496	1.24E-10	7.98E-09	Bcam
1038.572	924.3493	420.435	415.834	1.23041158	1.42E-10	9.03E-09	Tarbp1
9509.169	7657.748	4127.04	3498.61	1.170275976	1.53E-10	9.64E-09	Uhrf1
481.8976	499.1665	97.2908	31.7058	2.908868686	2.05E-10	1.28E-08	Igsf9b
667.8021	759.4461	266.681	287.791	1.365987222	2.17E-10	1.34E-08	Zfp467
354.1532	82.00592	0.86867	1.21945	7.739102827	2.55E-10	1.56E-08	Gm15247
282.4917	477.7736	55.5947	15.8529	3.386735443	2.64E-10	1.61E-08	Ighg2b
4788.857	4303.528	2183.83	1620.65	1.255865051	2.67E-10	1.62E-08	Ccr5
1107.118	950.199	436.071	346.325	1.391403157	3.01E-10	1.80E-08	Them6
394.6575	278.107	84.2607	67.0699	2.145159158	3.16E-10	1.88E-08	Mt3
6028.913	7328.833	3342.63	3026.68	1.068296734	3.45E-10	2.01E-08	Ltb
422.699	255.8228	69.4934	40.242	2.614170818	3.99E-10	2.31E-08	Mzb1
1087.385	1023.291	463.868	351.203	1.36903003	5.16E-10	2.93E-08	Tpst1
862.0151	806.6886	308.377	191.454	1.733051202	5.30E-10	2.98E-08	Mpp2
12376.67	10164.28	5613.33	5636.31	1.002601803	5.32E-10	2.98E-08	Fyn
3070.02	2473.548	1309.08	1199.94	1.142900512	5.33E-10	2.98E-08	Clspn
1391.687	1261.287	637.602	578.021	1.124404206	5.42E-10	3.03E-08	Slc12a2
2131.151	2225.748	1063.25	817.034	1.210527549	5.85E-10	3.25E-08	Axl
2227.738	1650.815	773.983	803.62	1.297670909	6.08E-10	3.36E-08	Kif20a
10275.64	7364.488	3799.55	3724.21	1.229195	7.41E-10	4.04E-08	Ncapd2
20469.22	16058.9	8815.24	8743.48	1.056761881	7.56E-10	4.11E-08	Top2a
4344.348	4292.831	2443.56	2253.55	0.878337399	9.90E-10	5.25E-08	Cnot6l
7463.181	5168.156	2650.3	2481.59	1.299154791	1.02E-09	5.35E-08	Lmnbl
13905.45	9984.22	5362.28	4627.83	1.257560544	1.07E-09	5.58E-08	Hmgb2
881.748	715.769	324.882	278.035	1.402787697	1.12E-09	5.84E-08	Zfp365
400.889	263.8451	59.9381	20.7307	3.019217819	1.28E-09	6.60E-08	Shroom3
4186.485	3076.113	1564.47	1564.56	1.214536434	1.32E-09	6.78E-08	Ccna2
441.3933	427.857	148.542	160.968	1.491737797	1.37E-09	7.01E-08	Arc
584.7163	259.3883	75.5741	58.5338	2.648110052	1.72E-09	8.70E-08	Fam84a
15147.58	11367.62	6303.05	5822.89	1.128558155	1.89E-09	9.44E-08	Mki67

1273.29	968.9177	467.343	403.639	1.362018065	2.18E-09	1.07E-07	Arhgap19
1044.804	675.6574	263.206	284.133	1.6524691	2.21E-09	1.08E-07	Zfp862-ps
1094.655	877.1068	392.638	420.711	1.277921388	2.28E-09	1.12E-07	Trib1
377.0018	341.3942	89.4728	39.0225	2.465813361	2.58E-09	1.25E-07	Spib
1816.463	1189.086	489.06	559.729	1.51943999	2.62E-09	1.26E-07	Pcx
405.0432	318.2186	101.634	58.5338	2.162123864	2.82E-09	1.35E-07	Neto2
3695.241	2651.822	1340.35	1349.93	1.238093069	2.90E-09	1.38E-07	Ephx1
5054.732	3167.924	1370.76	1601.14	1.468457137	3.96E-09	1.82E-07	Cdc20
7158.88	5383.867	3011.67	2691.33	1.136652291	4.74E-09	2.13E-07	Mcm2
247.1802	67.74402	8.68667	3.65836	4.629458469	5.30E-09	2.35E-07	Iglc2
8724.008	6442.813	3517.23	2641.34	1.299676775	5.80E-09	2.55E-07	Mcm5
984.5667	713.9863	329.225	256.085	1.533316704	6.47E-09	2.83E-07	E2f7
2472.841	1666.859	827.84	799.961	1.34601435	8.36E-09	3.58E-07	Ccnf
311.5717	181.8392	45.1707	19.5113	2.908104577	8.50E-09	3.63E-07	Rpph1
7343.746	7814.629	3695.31	2381.59	1.318017213	9.66E-09	4.10E-07	Ezh2
7627.276	5767.155	3291.38	2766.94	1.144152553	1.01E-08	4.30E-07	Rrm2
67.50721	123.9002	0	0	8.983318098	1.10E-08	4.59E-07	Gm38326
6082.919	5978.41	3565.01	3548.61	0.761695748	1.13E-08	4.72E-07	Irf2bp2
1109.195	842.3434	414.354	384.128	1.287718716	1.38E-08	5.66E-07	Ung
467.3576	217.494	53.8574	15.8529	3.273297264	1.44E-08	5.90E-07	Cavin3
1158.008	800.4491	370.052	367.055	1.408994353	1.58E-08	6.41E-07	Iqgap3
689.6121	562.4536	260.6	218.282	1.382861697	1.66E-08	6.67E-07	Setbp1
2173.732	1946.749	1091.92	1093.85	0.914461082	1.67E-08	6.71E-07	Casp4
221.2159	203.2321	57.3321	40.242	2.108797009	1.72E-08	6.87E-07	Lonrf3
1542.28	1554.547	843.476	763.378	0.945442324	1.77E-08	7.05E-07	Cd40lg
24359.72	18242.75	10707.2	8908.11	1.118795101	1.85E-08	7.31E-07	Tuba1b
158.9016	455.4894	0	0	10.66433657	1.90E-08	7.45E-07	Gm33707
1483.081	1115.102	572.452	440.223	1.356639872	1.94E-08	7.57E-07	Hirip3
189.0202	161.3377	30.4034	9.75563	3.087532519	1.95E-08	7.60E-07	Abi3bp
4776.395	4261.634	1807.7	864.592	1.756503363	2.25E-08	8.60E-07	Ifih1
897.3266	646.2423	263.206	139.018	1.933338834	2.48E-08	9.42E-07	Dnph1
6941.818	5586.207	3334.81	2970.59	0.990073047	2.52E-08	9.57E-07	Anp32e
6984.4	6183.424	3710.95	3763.23	0.816979654	2.66E-08	9.95E-07	Rbbp7
835.0122	780.839	389.163	323.155	1.178570662	2.77E-08	1.04E-06	Sbk1
918.098	904.7392	438.677	331.691	1.238873347	3.05E-08	1.12E-06	St6gal1
4458.591	4078.903	2491.34	2268.18	0.842453307	3.21E-08	1.18E-06	Smarcc1
6067.34	5037.124	2864	2073.07	1.168579581	3.86E-08	1.40E-06	Srm
3128.18	2375.497	1354.25	1195.06	1.109387535	3.94E-08	1.43E-06	Ncapg2
2048.065	1472.541	780.063	745.086	1.206116776	3.96E-08	1.43E-06	Asf1b
1249.403	956.4386	401.324	198.771	1.8728837	4.05E-08	1.46E-06	Nfix
258.6045	191.6443	52.12	59.7532	2.011938129	4.32E-08	1.56E-06	Ptk7
3108.447	2330.038	1205.71	1320.67	1.10630444	4.48E-08	1.60E-06	Espl1
3615.271	3567.257	2109.12	1804.79	0.875054912	4.55E-08	1.62E-06	Mbp
1116.465	919.0011	452.576	484.123	1.120058768	4.58E-08	1.63E-06	Fancd2
2248.509	2426.306	1220.48	884.104	1.149681515	4.78E-08	1.69E-06	Trerf1

1815.425	1632.987	941.636	860.934	0.93477108	5.01E-08	1.77E-06	Rad51
2460.378	2045.691	1084.1	726.794	1.313069841	5.27E-08	1.85E-06	Rcl1
427.8918	321.7841	112.927	130.482	1.625159984	5.30E-08	1.86E-06	Cfap54
17482.29	12692.2	6908.51	7488.66	1.067559075	5.36E-08	1.88E-06	Dgkz
2551.772	2207.92	1303	1135.31	0.963838268	5.44E-08	1.90E-06	Ly9
1151.777	934.1544	490.797	387.786	1.244406972	5.48E-08	1.91E-06	Slc25a13
6341.523	4684.142	2718.93	2110.87	1.190134603	5.59E-08	1.95E-06	Pclaf
2527.885	2140.176	1209.19	1248.72	0.925352971	6.32E-08	2.18E-06	Ankrd13b
5227.135	5527.377	2963.02	2164.53	1.067814953	6.53E-08	2.24E-06	Arhgef3
5067.195	4577.178	2730.22	2162.09	0.978344381	6.77E-08	2.32E-06	Dnmt3a
11812.72	9189.12	5547.31	5279.01	0.955811742	6.95E-08	2.37E-06	Dnmt1
4508.443	3255.278	1857.21	1746.26	1.106930354	7.00E-08	2.38E-06	Gtse1
1990.943	1686.47	974.645	918.248	0.957264265	7.51E-08	2.54E-06	Timeless
16652.47	12773.31	7802.37	7027.71	0.988385911	7.64E-08	2.58E-06	Igfbp4
1339.758	888.6946	453.444	373.153	1.428497512	7.77E-08	2.62E-06	Gm9821
19346.53	20146.71	11280.5	12405.5	0.737693972	7.83E-08	2.63E-06	Ppia
2711.713	2222.182	1144.9	1313.35	1.005661515	7.93E-08	2.64E-06	Cenpf
1836.196	1189.086	535.968	623.141	1.384584196	8.09E-08	2.69E-06	Cdkn2c
2245.394	1859.395	1085.83	991.416	0.981649517	8.21E-08	2.72E-06	Rpa2
8341.814	6319.804	3816.06	3287.65	1.045003285	8.64E-08	2.84E-06	Rrm1
3241.385	2480.679	1452.41	1268.23	1.071684373	9.01E-08	2.95E-06	Chaf1a
5706.955	4610.159	2807.53	2619.39	0.926459196	9.13E-08	2.99E-06	Mcm4
6269.862	5341.972	3329.6	2975.47	0.880555899	9.16E-08	2.99E-06	Tmem173
2772.988	2030.538	1096.26	1135.31	1.105889487	9.73E-08	3.15E-06	Foxm1
1645.099	1240.785	675.823	643.871	1.127901722	1.06E-07	3.39E-06	Kif4
3233.076	2777.505	1624.41	1245.06	1.06538618	1.07E-07	3.40E-06	Asap1
1302.37	1120.45	588.088	414.614	1.269454951	1.11E-07	3.53E-06	Sulf2
1856.967	1364.685	759.215	664.602	1.176622685	1.13E-07	3.58E-06	Ticrr
4930.103	3353.329	1919.76	1719.43	1.186092679	1.14E-07	3.61E-06	Synpo
199.4059	150.6413	36.484	14.6334	2.746977688	1.25E-07	3.93E-06	Ighg1
0	1487.694	0	0	25.25713582	1.30E-07	4.06E-06	Eif2s3y
1423.883	1228.306	701.015	637.774	0.98485921	1.40E-07	4.34E-06	Rab11fip3
0	1419.059	0	0	25.18502342	1.41E-07	4.38E-06	Ddx3y
125.6673	52.59075	4.34334	0	5.211707751	1.48E-07	4.54E-06	Cxcl13
8962.88	7758.473	4958.35	4519.29	0.818802166	1.60E-07	4.86E-06	Mcm6
3122.987	2118.783	1111.03	1182.87	1.192213579	1.63E-07	4.93E-06	Plk1
2863.344	2275.664	1360.33	1213.36	0.996742096	1.69E-07	5.07E-06	Tk1
214.9845	114.0952	23.454	29.2669	2.647717086	1.76E-07	5.29E-06	St5
2466.609	1805.913	1039.79	919.468	1.123723793	1.77E-07	5.31E-06	Birc5
1005.338	730.0309	355.285	370.714	1.256998649	1.79E-07	5.35E-06	Ankle1
590.9477	466.1858	157.229	219.502	1.493323198	1.88E-07	5.59E-06	Zfp831
2047.026	1396.775	761.821	715.819	1.21986137	1.98E-07	5.88E-06	Cdca7
2130.112	1891.484	1117.98	1112.14	0.850355841	2.04E-07	6.04E-06	Kntc1
5978.023	5236.791	3189.75	3315.69	0.785708276	2.09E-07	6.19E-06	Sun2
169.2873	177.3824	31.272	7.31672	3.128024029	2.13E-07	6.28E-06	Jchain

14815.24	12657.44	8037.78	7961.81	0.779892374	2.24E-07	6.59E-06	Nup210
5180.399	3982.635	2442.69	2132.82	1.00130745	2.28E-07	6.67E-06	Lig1
89.31723	81.11455	9.55534	2.43891	3.758497955	2.40E-07	7.00E-06	Mpzl2
453.8561	451.9239	200.662	154.871	1.34387646	2.51E-07	7.29E-06	Rasal1
5419.271	4366.815	2730.22	2410.86	0.928121316	2.68E-07	7.73E-06	Dek
162.0173	167.5773	44.302	37.8031	1.999446677	2.75E-07	7.92E-06	Map1a
860.9765	572.2587	279.711	262.182	1.401530768	3.22E-07	9.11E-06	AC153546.1
5557.401	4347.205	2513.06	2690.11	0.928749841	3.23E-07	9.13E-06	Pold1
2419.874	1654.38	792.225	951.174	1.225220269	3.25E-07	9.15E-06	Kif18b
661.5706	98.05055	2.606	2.43891	7.231188587	3.35E-07	9.42E-06	G530011O06Rik
1967.056	1534.045	836.527	896.298	1.01480227	3.38E-07	9.47E-06	Aurka
666.7635	318.2186	127.694	120.726	1.985468847	3.44E-07	9.61E-06	Tox
3327.586	2581.404	1569.68	1434.08	0.975455757	3.59E-07	9.97E-06	Rcc1
22399.93	20718.97	12995.3	10088.5	0.901243778	3.63E-07	1.01E-05	Mbnl1
1037.534	852.1484	461.262	343.886	1.227235886	3.66E-07	1.01E-05	Exo1
1763.496	1494.825	879.96	704.844	1.037824172	3.73E-07	1.03E-05	Aplar
2489.458	1805.913	1017.21	674.358	1.342411614	4.05E-07	1.12E-05	Tcf19
2272.396	1816.609	1066.72	797.522	1.131301333	4.08E-07	1.12E-05	Ncoal
3321.355	2282.795	1337.75	1206.04	1.138807772	4.28E-07	1.17E-05	Mybl2
0	852.1484	0	0	24.18606835	4.31E-07	1.18E-05	Kdm5d
3865.567	2748.981	1630.49	1521.88	1.068697457	4.37E-07	1.19E-05	Mast2
0	648.025	0	0	24.12540801	4.61E-07	1.25E-05	Uty
212.9073	141.7276	38.2214	42.6809	2.134085197	4.74E-07	1.28E-05	Rhov
1166.317	1231.871	605.461	398.761	1.252554141	4.95E-07	1.33E-05	Gm10241
903.558	623.0667	280.58	324.375	1.336398774	5.04E-07	1.35E-05	Mxd3
1530.856	1183.738	668.005	656.066	1.035088508	5.07E-07	1.36E-05	Cdca5
3657.852	2249.815	1306.48	998.732	1.356616181	5.12E-07	1.37E-05	Epop
891.0951	689.028	313.589	373.153	1.203796819	5.22E-07	1.38E-05	Cenpm
616.912	249.5832	91.2101	93.8979	2.226071035	5.40E-07	1.43E-05	Sptbn2
1912.012	1518.892	907.758	751.183	1.046636924	5.60E-07	1.48E-05	Mcm10
2174.771	1803.239	1098	1025.56	0.904734123	5.76E-07	1.52E-05	Nempl
3317.2	2658.953	1660.02	1424.32	0.953319563	6.02E-07	1.58E-05	Atad2
6945.972	5372.279	3419.94	2901.08	0.962080286	6.56E-07	1.71E-05	Mcm7
3181.147	2295.274	1388.13	1227.99	1.064986075	6.70E-07	1.75E-05	Abhd17c
333.3817	361.8957	145.067	107.312	1.455606221	7.65E-07	1.96E-05	Megf11
1034.418	918.1097	519.463	414.614	1.060763864	7.75E-07	1.98E-05	Xxylt1
3734.706	2767.7	1587.06	1688.94	0.989031628	7.79E-07	1.99E-05	Racgap1
199.4059	179.1651	59.0694	41.4614	1.901420964	7.81E-07	1.99E-05	Clgn
1169.433	946.6335	528.15	380.469	1.216242659	7.95E-07	2.02E-05	Grwd1
2246.432	1708.754	989.412	1006.05	0.986746529	8.29E-07	2.10E-05	Cdt1
1418.69	1066.968	602.855	585.338	1.064033872	8.50E-07	2.14E-05	Ndc80
83.08579	69.52676	9.55534	6.09727	3.258922502	8.71E-07	2.20E-05	Krt17
949.2552	742.5101	413.486	349.983	1.145233296	8.82E-07	2.22E-05	Shebp1
52491.53	41939.79	26431.8	27306	0.813320077	9.36E-07	2.34E-05	Tubb5
4143.904	3375.613	1989.25	2155.99	0.859316261	9.55E-07	2.39E-05	E2f2

873.4394	730.9223	383.951	402.42	1.028833008	9.67E-07	2.41E-05	Pbk
115.2815	62.39581	0.86867	0	7.447615235	9.84E-07	2.44E-05	Gm2663
9512.285	7761.147	5097.34	4353.45	0.86968888	9.97E-07	2.46E-05	Cad
294.9546	172.0342	62.5441	36.5836	2.222455156	1.01E-06	2.49E-05	Exph5
2378.331	2222.182	1296.05	920.687	1.051568311	1.01E-06	2.49E-05	Grap
1347.028	1261.287	735.761	580.46	0.984308624	1.05E-06	2.57E-05	Ppfibp1
1248.364	1252.373	725.337	684.113	0.826488541	1.07E-06	2.60E-05	Cep164
2213.198	1685.578	1024.16	928.004	0.996948574	1.08E-06	2.62E-05	Dck
5999.833	5937.407	3868.18	3502.27	0.695289582	1.10E-06	2.68E-05	Hipk3
3360.82	2383.52	1276.94	1465.78	1.066801514	1.15E-06	2.79E-05	Bub1b
186.943	171.1428	50.3827	24.3891	2.239119015	1.20E-06	2.87E-05	Ogdhl
8659.617	6662.981	4331.18	3732.75	0.925738817	1.25E-06	2.99E-05	Mcm3
4494.941	3346.198	2103.91	1627.97	1.070256245	1.26E-06	3.00E-05	Mapre2
1085.308	838.7779	469.08	335.35	1.254524833	1.26E-06	3.01E-05	Gatm
1772.843	1583.071	886.91	579.24	1.192099619	1.27E-06	3.01E-05	Crip2
1614.98	1136.495	666.268	557.29	1.167340538	1.30E-06	3.08E-05	Shmt1
3967.347	3411.268	2215.1	2071.85	0.78291292	1.33E-06	3.13E-05	Gart
73.73864	51.69938	1.73733	0	5.984016991	1.34E-06	3.16E-05	Ccl1
50.89005	63.28718	3.47467	1.21945	4.529151558	1.39E-06	3.25E-05	Pard3
3281.889	2578.73	1638.31	1397.49	0.948034047	1.41E-06	3.31E-05	Mthfd1
9904.865	7143.428	4526.63	3291.3	1.124300646	1.43E-06	3.34E-05	Zfpm1
7515.11	5819.746	3525.05	3748.6	0.874456191	1.44E-06	3.37E-05	Rilpl2
2497.767	2167.809	1321.24	971.904	1.023043956	1.46E-06	3.40E-05	Utp20
912.9052	747.8583	422.172	387.786	1.0341765	1.48E-06	3.44E-05	Esco2
3580.998	2504.746	1455.02	1508.46	1.037998026	1.48E-06	3.44E-05	Aurkb
1907.858	1443.126	879.092	704.844	1.079282188	1.61E-06	3.71E-05	Tyms
981.4509	755.8806	429.99	374.372	1.108679395	1.66E-06	3.82E-05	Naf1
1476.85	1549.199	886.91	882.884	0.773939765	1.68E-06	3.85E-05	Ddx11
2868.537	2401.347	1544.49	1331.64	0.87261459	1.83E-06	4.15E-05	Pole
3068.981	2683.911	1739.94	1490.17	0.831714317	1.90E-06	4.29E-05	Paxip1
2480.111	2391.542	1437.64	1525.54	0.717648626	1.93E-06	4.36E-05	Slc4a7
522.4019	434.0965	217.167	208.527	1.166403994	1.94E-06	4.36E-05	Cenpn
1345.99	1247.916	755.741	638.994	0.893197918	1.96E-06	4.40E-05	Spr
6338.407	4661.858	2916.99	2873.03	0.925700529	2.07E-06	4.60E-05	Tmc6
1276.406	983.1796	556.816	565.826	1.008747154	2.09E-06	4.64E-05	Chtf18
4787.819	3610.934	2216.84	2269.4	0.904538574	2.13E-06	4.71E-05	Smc2
16614.04	12028.13	7869.26	6971.61	0.948396269	2.22E-06	4.90E-05	Lat
4624.763	3189.317	1731.25	2018.2	1.059613997	2.28E-06	5.02E-05	Kif11
923.2909	1028.639	471.686	547.535	0.939648865	2.28E-06	5.02E-05	Whrn
2459.339	1795.216	1024.16	1104.82	0.99889037	2.37E-06	5.17E-05	Pold2
256.5274	266.5192	103.371	73.1672	1.558513638	2.39E-06	5.20E-05	Ccdc141
1951.478	1452.04	867.799	848.739	0.986928484	2.39E-06	5.20E-05	Rfc5
2227.738	2634.886	1160.54	575.582	1.483901011	2.41E-06	5.23E-05	Psd
4896.869	5727.935	2552.15	1201.16	1.500245261	2.55E-06	5.51E-05	Cd74
361.4232	278.107	103.371	41.4614	2.128021057	2.59E-06	5.54E-05	Tns4

3660.968	2996.781	1956.24	1793.82	0.827519036	2.65E-06	5.64E-05	Dut
410.2361	287.0207	127.694	125.604	1.459286616	2.67E-06	5.67E-05	Apitd1
6000.871	5953.451	3591.94	2524.27	0.966113897	2.71E-06	5.76E-05	Ksr1
2389.755	1694.492	952.928	1040.19	1.035126099	2.80E-06	5.92E-05	Ccnb2
10995.37	9909.345	6727.83	5760.7	0.742922274	2.84E-06	5.99E-05	Hspd1
1145.545	800.4491	443.02	439.003	1.140833204	2.85E-06	6.00E-05	BC030867
6673.866	6412.506	4093.16	3131.56	0.856455298	2.87E-06	6.04E-05	Foxp4
2200.735	1819.283	1071.07	1158.48	0.850683154	2.90E-06	6.09E-05	H2afv
845.3979	747.8583	432.596	367.055	0.991836284	3.06E-06	6.38E-05	Lrrc28
315.726	162.2291	62.5441	31.7058	2.327580483	3.16E-06	6.57E-05	Itga9
3100.139	2223.073	1299.53	1386.52	0.986785769	3.18E-06	6.60E-05	Ccnb1
12311.24	10815.87	7414.95	6580.17	0.724425114	3.24E-06	6.69E-05	Rcc2
2769.873	2289.035	1408.98	1469.44	0.813522198	3.25E-06	6.71E-05	Ints7
1694.95	1230.98	748.791	670.699	1.04223848	3.33E-06	6.86E-05	Gm10282
6811.996	6772.619	4223.46	3118.14	0.887218306	3.66E-06	7.47E-05	Nfatc2
115.2815	98.05055	24.3227	15.8529	2.390610348	3.92E-06	7.98E-05	Pcdhgc4
2085.453	1481.455	894.728	585.338	1.266785455	3.96E-06	8.05E-05	Cltb
2741.831	2351.431	1356.86	1547.49	0.810920467	4.03E-06	8.15E-05	Cenpe
93.47152	186.2961	28.666	17.0723	2.59861794	4.13E-06	8.34E-05	Pkdcc
2162.308	1933.379	1238.72	1204.82	0.744673529	4.17E-06	8.41E-05	Usp10
1519.431	1123.125	639.339	675.577	1.006881424	4.22E-06	8.49E-05	Epb4112
1532.933	1215.827	758.347	645.091	0.968048578	4.24E-06	8.50E-05	Pola1
172.403	113.2038	26.06	4.87781	3.16419368	4.38E-06	8.76E-05	Bank1
2640.051	1993.1	1177.04	1270.67	0.920627781	4.49E-06	8.94E-05	Kif15
327.1503	248.6919	108.583	104.873	1.429751951	4.55E-06	9.03E-05	Bdh2
88.27866	37.43748	3.47467	0	5.027466662	4.56E-06	9.05E-05	Igkv1-135
17003.51	14329.64	9888.04	9070.29	0.724714158	4.84E-06	9.54E-05	Tle3
798.6622	801.3404	450.838	367.055	0.965240895	4.88E-06	9.61E-05	Apex1
135.0144	126.5744	35.6154	19.5113	2.22590291	4.95E-06	9.71E-05	AC133947.2
2109.341	1844.242	1184.86	948.735	0.888251298	5.04E-06	9.88E-05	Umps
2171.655	2212.377	1321.24	1395.05	0.691110244	5.10E-06	9.98E-05	Kcna3
1254.595	893.1514	535.968	459.734	1.107094919	5.15E-06	0.000101	Pmfl
1249.403	941.2853	553.341	542.657	0.998342322	5.16E-06	0.000101	Melk
1889.163	1627.639	1049.35	954.832	0.810178584	5.18E-06	0.000101	Prim1
1481.004	1127.581	698.409	549.973	1.06096149	5.18E-06	0.000101	Tjp2
212.9073	101.616	33.0094	14.6334	2.699860288	5.22E-06	0.000101	2010300C02Rik
2589.161	2165.134	1395.08	1363.35	0.784955681	5.22E-06	0.000101	Pmm1
4347.464	3766.924	2533.9	2127.95	0.798817162	5.22E-06	0.000101	Lmf2
1102.964	844.1261	507.302	399.981	1.098866077	5.27E-06	0.000102	Larp7
3282.927	3191.991	2089.15	1760.89	0.749103612	5.44E-06	0.000105	Polr1a
3971.501	3619.848	2325.42	1719.43	0.907229287	5.49E-06	0.000105	Ecel
2166.462	1574.157	972.039	935.321	0.971054564	5.49E-06	0.000105	Kif22
1380.263	1091.927	679.298	559.729	0.994461868	5.57E-06	0.000106	Exosc2
721.8078	551.7572	305.771	210.965	1.296366691	5.70E-06	0.000108	Gm3756
62.31435	50.80801	5.212	1.21945	4.051424266	5.72E-06	0.000109	A230065H16Rik

2229.815	1842.459	1191.81	947.515	0.927100746	5.78E-06	0.000109	Wdhd1
178.6345	138.1621	37.3527	48.7781	1.886302813	5.84E-06	0.00011	Thrb
1213.053	861.9535	519.463	425.589	1.132325875	5.85E-06	0.00011	Dna2
558.752	353.8734	142.461	45.1198	2.271016554	5.97E-06	0.000112	Lhx2
1835.157	1509.087	967.696	884.104	0.851671273	6.12E-06	0.000115	Figl1
2096.878	1660.62	855.637	1071.9	0.964041492	6.17E-06	0.000115	Aspm
243.0259	256.7142	86.8667	103.654	1.396261573	6.22E-06	0.000116	Ncald
1391.687	1213.153	734.893	751.183	0.809553274	6.25E-06	0.000117	Slc19a1
1233.824	828.0815	487.322	440.223	1.150959917	6.47E-06	0.000121	Spc24
3285.005	3008.369	2022.26	1791.38	0.721899378	6.50E-06	0.000121	Sacs
4698.502	3380.07	1971.01	2225.5	0.9450503	6.50E-06	0.000121	Incenp
1284.714	1140.061	705.358	556.071	0.940317399	6.58E-06	0.000122	Mettl16
390.5032	336.9374	165.915	119.506	1.342845812	6.71E-06	0.000124	Robo3
3934.112	3725.921	2484.39	2075.51	0.747547307	6.80E-06	0.000125	Hsph1
1730.262	1862.961	1035.45	1123.12	0.736104148	6.86E-06	0.000126	Dst
2018.985	1717.667	1122.32	1001.17	0.81416475	6.96E-06	0.000127	Rrp12
1381.301	1008.138	601.987	585.338	1.008129571	6.98E-06	0.000127	Nuf2
880.7094	788.8613	457.788	456.076	0.868969076	7.09E-06	0.000129	Ahi1
1503.853	1125.799	648.895	693.869	0.969691506	7.16E-06	0.00013	Fanca
5502.357	5498.853	3692.71	3287.65	0.655883989	7.47E-06	0.000135	Tcf3
7683.359	6424.094	4317.28	4292.48	0.712288636	7.51E-06	0.000136	Tmpo
71.6615	104.2901	15.636	6.09727	2.979914597	7.51E-06	0.000136	Derl3
2131.151	2133.937	1296.05	1369.45	0.6786382	7.84E-06	0.000141	Bcl10
895.2494	824.516	489.928	390.225	0.963322535	7.91E-06	0.000142	Fancm
10480.23	9069.676	6218.79	6107.02	0.665370687	8.09E-06	0.000145	Hcfc1
3686.932	2936.168	1962.32	1553.58	0.912603109	8.11E-06	0.000146	Bbc3
809.0479	731.8137	365.709	189.015	1.468334328	8.12E-06	0.000146	Ryk
1611.864	1548.307	931.212	986.538	0.721074065	8.22E-06	0.000147	Msh2
12165.84	9114.245	6249.19	5181.46	0.89630985	8.35E-06	0.000149	Tubb4b
129.8216	53.48212	10.424	10.9751	3.09826391	8.41E-06	0.00015	F3
541.0962	474.2081	252.782	247.549	1.019982658	8.47E-06	0.000151	Hectd2
2116.611	1641.901	1070.2	878.006	0.946521767	8.65E-06	0.000154	Tnk2
4575.95	4350.77	2915.25	2390.13	0.749945132	8.76E-06	0.000155	Txlna
294.9546	162.2291	68.6247	42.6809	2.027020718	8.96E-06	0.000158	Pld4
126.7058	136.3794	38.2214	21.9502	2.110457947	9.23E-06	0.000162	Cdk5r1
3061.711	2632.212	1763.4	1671.87	0.728482502	9.24E-06	0.000162	Rasa1
154.7473	113.2038	32.1407	10.9751	2.604856596	9.36E-06	0.000164	Adamts3
2804.146	2185.636	1453.28	1270.67	0.872328879	9.50E-06	0.000166	Nol6
1850.736	1856.721	1180.52	1123.12	0.686058956	9.53E-06	0.000166	Usp36
3557.111	3379.179	2282.86	2166.97	0.640044077	9.64E-06	0.000168	Adss
104.8958	62.39581	13.8987	7.31672	2.949272524	9.68E-06	0.000169	Scg2
1969.133	1430.647	852.163	899.957	0.956239338	9.79E-06	0.00017	Pkmyt1
3411.71	2313.102	1431.56	806.059	1.353711891	9.98E-06	0.000173	Hmgn2
1414.536	1048.25	619.36	638.994	0.968453687	1.00E-05	0.000173	Haus4
759.1964	640.0027	358.76	368.275	0.944296742	1.00E-05	0.000173	Rbm19



817.3565	521.4507	298.822	219.502	1.365083483	1.01E-05	0.000174	Gm37416
4313.191	3399.68	2301.97	1830.4	0.899440587	1.04E-05	0.000179	Alcam
2706.52	2326.472	1569.68	1399.93	0.760246769	1.11E-05	0.000189	Ipo9
627.2977	374.3748	197.188	175.601	1.423375542	1.11E-05	0.00019	Tacc2
878.6323	722.9	436.071	391.445	0.950583076	1.13E-05	0.000192	Spdl1
812.1636	601.6738	355.285	275.596	1.160564497	1.13E-05	0.000192	Gen1
46.73576	48.13391	2.606	0	5.02013761	1.16E-05	0.000197	Slc25a48
1596.286	1337.944	827.84	853.617	0.803148416	1.19E-05	0.000202	Plk4
1228.631	764.7943	452.576	268.28	1.463727938	1.21E-05	0.000204	Hlx
5462.891	4363.25	2974.32	2791.33	0.768791901	1.22E-05	0.000206	Rpa1
264.836	165.7946	49.514	9.75563	2.83479599	1.23E-05	0.000208	Six1
848.5137	707.7467	428.253	349.983	0.996756794	1.24E-05	0.000208	Nme4
2884.116	2143.742	1422.01	1259.7	0.905941384	1.24E-05	0.000208	Akr1b3
10378.45	6748.552	4153.1	4449.79	0.993355673	1.26E-05	0.000211	Nfatc1
166.1716	98.05055	26.9287	31.7058	2.175246221	1.27E-05	0.000212	Scel
1947.323	1952.097	1262.17	1132.87	0.70230913	1.27E-05	0.000212	Slain1
370.7704	313.7618	148.542	153.651	1.179626922	1.27E-05	0.000212	Il1rap
9453.086	8458.197	5966.88	5419.25	0.653332418	1.29E-05	0.000214	Sf3b3
1660.677	1244.351	775.72	758.5	0.920378143	1.29E-05	0.000215	C330027C09Rik
4804.436	4170.714	2856.18	2275.5	0.805730036	1.35E-05	0.000224	Nolc1
1472.696	1190.869	768.771	621.921	0.935471895	1.36E-05	0.000225	Ifrd2
470.4733	384.1799	207.612	176.821	1.148836421	1.39E-05	0.000228	Gm45902
2144.652	1895.05	1221.35	1246.28	0.711026567	1.40E-05	0.00023	Wdr90
3279.812	2591.209	1620.06	1742.6	0.804076783	1.40E-05	0.00023	Pfas
14236.75	10615.31	7303.76	6750.89	0.822163348	1.43E-05	0.000233	Ptp4a3
3687.971	2611.71	1249.14	1743.82	1.074451063	1.43E-05	0.000233	Itm2a
1634.713	1140.952	668.874	710.941	1.008249186	1.43E-05	0.000234	Kif2c
5756.807	4478.236	2816.22	3073.02	0.797432069	1.46E-05	0.000238	Tcof1
1724.03	1333.488	859.981	796.303	0.883380078	1.47E-05	0.000238	Irf2bp1
4023.43	3120.682	2037.89	2065.75	0.799667113	1.49E-05	0.000241	Usp1
202.5216	207.6889	76.4427	41.4614	1.78459057	1.49E-05	0.000242	Arhgap32
2509.191	1700.731	1038.06	1074.34	0.994687438	1.50E-05	0.000242	Cdca3
1715.722	1251.482	802.649	571.924	1.107830049	1.52E-05	0.000247	Id3
746.7336	643.5682	384.82	308.522	1.000301219	1.60E-05	0.000256	Rrp15
1043.765	903.8478	551.604	547.535	0.824781214	1.60E-05	0.000256	Bcl9
5374.612	4233.11	2936.1	2605.97	0.793276301	1.67E-05	0.000265	Fbl
8409.321	8072.235	5609.85	4758.31	0.668325232	1.70E-05	0.000271	Casp3
1294.061	1194.434	727.075	502.415	1.014325648	1.70E-05	0.000271	Tnfrsf13b
281.4531	267.4106	114.664	120.726	1.222455463	1.71E-05	0.000272	D630045J12Rik
1831.003	1536.72	1013.73	946.296	0.779989894	1.71E-05	0.000272	Cdc45
49.85148	79.33181	7.81801	1.21945	3.758824187	1.72E-05	0.000273	Pdzrn3
1821.656	1252.373	812.204	601.19	1.118953513	1.75E-05	0.000276	E2f8
6419.416	5785.874	4061.89	3849.81	0.625190393	1.81E-05	0.000284	Ubp2
2335.749	2480.679	1579.24	1384.08	0.699988379	1.81E-05	0.000285	Aheyl2
91.39437	97.15918	19.1107	4.87781	2.929151068	1.82E-05	0.000286	Stra6

464.2419	331.5891	173.733	159.748	1.252236919	1.83E-05	0.000288	Kif18a
100.7415	44.56843	6.94934	0	4.278405128	1.86E-05	0.000292	Cacng4
1980.558	1809.478	1164.88	849.959	0.909645088	1.89E-05	0.000295	Clstn1
893.1723	750.5324	433.465	458.514	0.882061605	1.93E-05	0.0003	Zwilch
481.8976	314.6531	24.3227	3.65836	4.810874787	1.95E-05	0.000303	Vat11
2875.807	1990.426	1177.04	1319.45	0.963043473	1.96E-05	0.000304	Cdca8
769.5822	665.8524	388.294	390.225	0.882219656	1.96E-05	0.000304	Gm5527
4972.685	3740.183	2488.73	2466.95	0.813838322	1.96E-05	0.000304	Tmc8
183.8273	114.0952	26.06	2.43891	3.342332302	1.99E-05	0.000307	Mab2112
1309.64	1133.821	737.499	637.774	0.827411247	2.01E-05	0.00031	Akap1
2741.831	2772.157	1829.41	1769.43	0.615354199	2.06E-05	0.000317	Slc41a1
2993.166	2480.679	1702.59	1537.73	0.755656449	2.07E-05	0.000318	Adsl
2285.898	1812.152	1067.59	1225.55	0.838091762	2.13E-05	0.000326	Cit
145.4001	135.488	39.09	46.3392	1.722565245	2.15E-05	0.00033	Pcbp3
891.0951	797.775	483.848	474.367	0.816949127	2.18E-05	0.000333	Ppip5k1
7497.454	5811.724	4082.74	3264.48	0.856658231	2.20E-05	0.000335	Srsf2
754.0036	609.6962	361.366	343.886	0.949894202	2.21E-05	0.000337	Phf19
3453.253	3157.228	2120.42	2157.21	0.627901209	2.23E-05	0.000339	Nde1
2133.228	1905.746	1292.58	1118.24	0.743251512	2.26E-05	0.000342	Rrp9
3694.202	3432.661	2341.06	2324.28	0.611136791	2.28E-05	0.000345	Cdk17
1624.327	1418.168	930.343	895.079	0.736332739	2.34E-05	0.000351	Plk2
570.1763	488.47	267.55	274.377	0.965858144	2.34E-05	0.000352	Lrfn4
427.8918	429.6397	221.51	210.965	0.986552347	2.34E-05	0.000352	Tmtc4
96.58723	36.54612	3.47467	7.31672	3.660451191	2.44E-05	0.000365	Nos1
519.2862	434.9879	238.884	156.09	1.266234624	2.47E-05	0.000368	Dhrs4
1709.49	1403.014	919.05	669.48	0.968169849	2.49E-05	0.000371	Cdc6
863.0537	710.4208	391.769	441.442	0.918155655	2.49E-05	0.000371	Bcl7a
7719.709	7035.573	4980.07	4787.57	0.594972623	2.51E-05	0.000372	Smarca4
233.6788	221.9508	90.3414	47.5587	1.71080838	2.52E-05	0.000374	Ube2e2
2384.562	2002.014	1357.73	1063.36	0.855956824	2.52E-05	0.000374	Dkc1
4067.05	3585.085	2484.39	2407.2	0.645259099	2.56E-05	0.000378	Parp1
109.0501	52.59075	6.94934	13.414	3.014143098	2.57E-05	0.000379	Otx1
5967.637	4637.791	3262.72	2638.9	0.845026106	2.58E-05	0.000381	Ube2s
63.35292	51.69938	7.81801	2.43891	3.427459694	2.62E-05	0.000384	Muc16
181.7502	90.9196	33.0094	19.5113	2.359729143	2.63E-05	0.000384	Nectin1
275.2217	202.3407	78.1801	26.828	2.167553865	2.64E-05	0.000386	Rassf8
838.1279	763.0116	460.394	452.417	0.810088217	2.65E-05	0.000386	Mpzl3
2444.799	1912.877	1216.13	1281.65	0.802869193	2.67E-05	0.000389	Nusap1
1175.664	916.327	562.028	569.485	0.886157763	2.71E-05	0.000395	Spc25
1358.453	1134.712	738.367	691.43	0.80107182	2.72E-05	0.000396	Kn11
65.43006	49.02528	7.81801	3.65836	3.275904034	2.76E-05	0.000401	Shisa3
731.155	609.6962	351.81	360.958	0.911378626	2.78E-05	0.000403	Trmt61a
1897.472	1646.358	1100.6	854.837	0.85600416	2.79E-05	0.000404	Wdr18
1716.76	1443.126	882.566	967.026	0.77305515	2.83E-05	0.000408	Prc1
4531.291	3223.189	2030.08	2193.8	0.876462183	2.84E-05	0.00041	Tpx2

2628.627	1991.318	1362.07	1075.56	0.921084586	2.86E-05	0.000412	Nup93
2298.361	1879.005	1263.04	1212.14	0.754464991	2.92E-05	0.00042	Pelp1
1883.97	1524.24	898.202	1031.66	0.821123326	2.95E-05	0.000423	Spag5
948.2166	705.964	443.02	376.811	1.01030858	3.02E-05	0.000432	Mad111
4218.681	3615.391	1811.17	2477.93	0.869860177	3.02E-05	0.000432	Carmil2
1852.813	1693.6	1117.98	1109.7	0.670533312	3.03E-05	0.000433	Cdc25a
1645.099	1568.809	1039.79	885.323	0.737897233	3.04E-05	0.000434	Slc37a1
2870.614	3085.918	1992.72	1847.47	0.632964972	3.05E-05	0.000435	Themis
89.31723	95.37645	23.454	14.6334	2.259604877	3.13E-05	0.000445	6330403K07Rik
77.89293	40.11159	6.94934	3.65836	3.439010024	3.14E-05	0.000447	Nrxn3
2181.002	2052.822	1398.55	1252.38	0.674516285	3.15E-05	0.000448	A430093F15Rik
5747.46	5338.407	3646.67	3759.57	0.581942671	3.18E-05	0.000451	Lef1
216.0231	221.0594	66.0187	17.0723	2.37413106	3.19E-05	0.000453	Ina
1546.434	1350.424	900.808	828.009	0.743588325	3.24E-05	0.000459	Ctps
6697.754	5616.514	4012.38	3305.94	0.750226663	3.28E-05	0.000463	Cdk4
68.54578	28.5238	2.606	0	5.062324628	3.30E-05	0.000466	Gm2464
10847.89	9726.615	6991.9	6643.58	0.593338023	3.40E-05	0.000479	G3bp1
1589.016	1225.632	762.69	799.961	0.848843938	3.40E-05	0.000479	Bub1
2689.903	1924.465	1203.97	1288.96	0.888248602	3.43E-05	0.000483	Cdk1
1326.257	1084.796	693.197	686.552	0.804665543	3.46E-05	0.000485	Kcnk5
3097.023	2760.569	1879.8	1882.84	0.638390367	3.46E-05	0.000485	Ppp2cb
3674.469	3163.467	2193.39	2130.38	0.660941624	3.46E-05	0.000485	Naa50
1707.413	1605.355	1065.86	860.934	0.780110175	3.48E-05	0.000487	Gnl3
737.3864	630.1976	357.022	384.128	0.884321545	3.53E-05	0.000493	Pask
2500.882	2344.3	1519.3	1609.68	0.631143675	3.56E-05	0.000496	Zfp3611
4285.15	3446.031	2429.66	2170.63	0.748382628	3.57E-05	0.000497	Nup205
2982.78	3471.881	2096.96	1746.26	0.747427189	3.59E-05	0.000499	Serinc5
2290.052	1954.771	1305.61	928.004	0.924587153	3.61E-05	0.000502	St6galnac4
3772.095	2776.613	1675.66	1934.05	0.859566776	3.63E-05	0.000505	Kifc1
1546.434	1519.784	931.212	621.921	0.978891783	3.66E-05	0.000508	2900026A02Rik
232.6402	121.2261	49.514	20.7307	2.313596629	3.66E-05	0.000508	Fam124a
7756.059	6525.71	4699.49	4143.7	0.691174177	3.70E-05	0.000513	Anapc5
5280.102	4251.829	2841.41	2976.69	0.712192693	3.75E-05	0.000519	Pitpnm2
5852.356	4852.611	3472.06	2963.27	0.733664327	3.77E-05	0.000521	Eftud2
1450.886	1290.702	861.718	780.45	0.738140396	3.79E-05	0.000523	Gpm6b
1196.435	1022.4	612.411	669.48	0.792066999	3.80E-05	0.000524	Siva1
2565.274	1977.056	1289.1	1326.77	0.795955122	3.81E-05	0.000524	Mad211
4007.851	3301.63	2257.67	2259.65	0.694099973	3.83E-05	0.000527	Extl3
533.8262	726.4655	275.368	112.19	1.695058076	3.89E-05	0.000535	Msc
2622.395	2072.432	1432.43	1282.86	0.789084824	3.92E-05	0.000537	Pola2
1524.624	1108.863	737.499	618.263	0.956132899	3.99E-05	0.000545	Fbxo5
4150.135	3485.251	2468.75	2249.89	0.693790246	3.99E-05	0.000545	Srsf7
13.50144	129.2485	0.86867	0	7.146160463	4.01E-05	0.000546	Ighv1-69
59.19863	41.89433	5.212	4.87781	3.319051396	4.11E-05	0.000559	Trim9
3385.746	2529.704	1631.36	1734.06	0.813665098	4.15E-05	0.000563	Arhgap11a

735.3093	557.1054	312.72	336.569	0.993291676	4.17E-05	0.000565	Recql4
6180.544	5311.666	3789.13	3031.56	0.75207409	4.22E-05	0.000571	Zfp91
1499.699	1356.663	773.983	391.445	1.290303438	4.32E-05	0.000585	Nefh
448.6633	351.1993	193.713	178.04	1.102870128	4.34E-05	0.000587	Dnajc27
2080.261	1645.467	1125.79	858.495	0.907182757	4.37E-05	0.000589	Gar1
2270.319	2006.471	1316.9	1376.76	0.667038846	4.37E-05	0.000589	Camk2d
108.0115	47.24254	8.68667	0	4.067469388	4.39E-05	0.000591	Iglv1
2915.273	2214.16	1459.36	1495.05	0.795727621	4.42E-05	0.000595	Nasp
10481.27	8115.912	5589.01	5665.58	0.724494875	4.47E-05	0.000602	Lcp2
1764.535	1548.307	1055.43	962.149	0.714379988	4.49E-05	0.000604	Hells
766.4664	708.6381	422.172	286.572	1.053170655	4.64E-05	0.00062	Eps8
95.54866	30.30653	6.08067	2.43891	3.83711742	4.65E-05	0.000621	Kitl
1164.24	919.0011	605.461	506.073	0.904077243	4.66E-05	0.000621	Dhfr
6910.661	4160.018	843.476	276.816	3.304056381	4.70E-05	0.000627	Slamf6
515.1319	383.2885	219.773	193.893	1.115890863	4.71E-05	0.000627	Alms1
454.8947	509.8629	263.206	201.21	1.050807601	4.74E-05	0.000631	E130308A19Rik
2431.298	1886.136	1300.4	1179.21	0.799193713	4.82E-05	0.000639	Tubg1
1018.84	984.071	621.966	593.874	0.71939685	4.83E-05	0.00064	Tfdp2
1512.161	1292.485	872.142	698.747	0.83421568	4.87E-05	0.000645	Trim37
2691.98	2419.175	1687.82	1387.74	0.731638595	4.90E-05	0.000648	Ftsj3
1437.384	1239.894	798.305	818.253	0.727700819	5.02E-05	0.000662	Rtel1
141.2458	152.424	52.12	29.2669	1.835748942	5.09E-05	0.00067	Serpinc1
2143.613	1804.13	1181.39	1234.09	0.708709749	5.09E-05	0.00067	Dtl
19241.63	19867.72	13963.8	12881.1	0.542786739	5.19E-05	0.000681	Fam107b
529.6719	388.6367	215.43	214.624	1.093349436	5.25E-05	0.000689	Ccsap
245.1031	140.8362	60.8067	25.6085	2.14156723	5.26E-05	0.000689	Cap2
2524.77	1983.295	1374.23	1014.59	0.914697047	5.32E-05	0.000695	Erf
685.4578	465.2944	277.105	249.988	1.124180858	5.33E-05	0.000696	Ercc6l
189.0202	72.20086	24.3227	4.87781	3.124927229	5.41E-05	0.000704	Ighg3
4356.811	3724.138	2658.12	2477.93	0.65342785	5.44E-05	0.000707	Arid1b
954.4481	733.5964	384.82	476.806	0.971818315	5.46E-05	0.000709	Ldhb
67.50721	28.5238	0	1.21945	6.529900511	5.53E-05	0.000717	Gm3650
994.9524	872.6499	466.474	570.704	0.850407569	5.69E-05	0.000735	Tyro3
41131.62	33645.6	24745.7	19903.9	0.743857826	5.79E-05	0.000745	Ptma
291.8388	250.4746	116.401	58.5338	1.620394484	5.79E-05	0.000745	Rapgef5
4036.931	3757.119	2623.38	2614.51	0.573271555	5.84E-05	0.000751	Ilf3
10024.3	9426.224	6782.56	6632.61	0.535856107	6.02E-05	0.00077	Notch1
5178.322	5181.526	3359.14	3647.38	0.564543596	6.03E-05	0.000771	Asxl1
8276.384	6917.021	5053.91	4410.76	0.682470394	6.05E-05	0.000772	Rangap1
2529.962	1969.925	1386.39	1145.07	0.828713897	6.21E-05	0.000789	Nup85
10411.69	8578.532	5844.39	6226.53	0.65373921	6.35E-05	0.000805	H2afz
5153.396	5243.03	3636.24	3499.83	0.54275314	6.36E-05	0.000805	Inpp4b
148.5159	133.7053	50.3827	41.4614	1.612835554	6.41E-05	0.000811	Gm14085
4063.934	3388.092	2395.78	1777.96	0.83531544	6.41E-05	0.000811	Gm9800
2353.405	1730.147	1173.57	740.208	1.09152876	6.58E-05	0.000828	Sorl1

1885.009	1682.013	1010.26	1171.89	0.709848567	7.09E-05	0.000888	Tmem245
3918.534	3381.853	2429.66	2240.14	0.644096222	7.12E-05	0.000891	Cluh
10573.71	9944.109	7275.96	6703.33	0.553393053	7.20E-05	0.000899	Arid1a
683.3807	611.4789	363.972	369.494	0.819779143	7.23E-05	0.000901	Ttc27
3537.378	2331.82	1652.21	1129.21	1.076170449	7.34E-05	0.000912	Me2
140.2073	151.5327	51.2514	49.9976	1.52642445	7.34E-05	0.000912	B4galt4
432.0461	358.3302	171.996	69.5088	1.700576906	7.41E-05	0.000919	Sema6a
1443.616	1293.376	870.405	832.887	0.683513659	7.50E-05	0.000929	Utp18
1782.19	1461.845	905.152	1014.59	0.757350881	7.57E-05	0.000937	Smyd5
1674.179	1402.123	972.039	829.228	0.770641762	7.61E-05	0.00094	Tipin
4543.754	4172.497	2950.86	2935.22	0.566269562	7.69E-05	0.000949	Npepl1
1231.747	981.3969	660.187	579.24	0.834685483	7.70E-05	0.000949	Chaf1b
4588.413	4056.619	2945.65	2636.46	0.630528308	7.74E-05	0.000953	Cherp
686.4964	654.2646	387.426	392.664	0.781354898	7.83E-05	0.000964	Helq
1718.837	1563.461	1070.2	845.081	0.775334533	7.94E-05	0.000977	Cdyl2
2191.388	1908.42	1265.65	1330.42	0.659314061	7.98E-05	0.000981	Rbm14
3861.412	3399.68	2458.33	2126.73	0.662524395	7.99E-05	0.000981	Ddx27
6936.625	6556.908	4126.17	2259.65	1.078670416	8.10E-05	0.000994	Cd200
2485.304	2022.516	1414.19	1341.4	0.709449345	8.44E-05	0.00103	Pidd1
995.9909	808.4714	536.837	441.442	0.880692259	8.51E-05	0.001037	Gins2
3337.972	2904.079	2055.27	1551.14	0.790332277	8.53E-05	0.00104	Sf3b4
1019.878	877.9981	570.715	551.193	0.757525562	8.72E-05	0.001059	Polq
135.0144	82.00592	29.5347	18.2918	2.165126098	8.72E-05	0.001059	Mlf1
1528.779	1125.799	773.114	649.969	0.897768017	8.72E-05	0.001059	Hn11
175.5187	164.0118	62.5441	67.0699	1.391012041	8.92E-05	0.001081	Pde11a
73.73864	35.65475	6.94934	3.65836	3.330976878	9.07E-05	0.001096	Sox21
329.2275	369.0266	175.471	107.312	1.296625943	9.08E-05	0.001097	Nptxr
784.1222	647.1337	403.93	395.103	0.839986841	9.17E-05	0.001107	Ssbp2
4843.902	4186.759	3062.05	2714.5	0.644087938	9.24E-05	0.001114	Atic
2666.015	2172.265	1476.73	1513.34	0.69414878	9.26E-05	0.001116	Slbp
1754.149	1419.059	826.971	995.074	0.801282139	9.27E-05	0.001116	Hmmr
412.3133	430.5311	234.54	189.015	0.988913227	9.28E-05	0.001116	Rxra
95.54866	132.8139	29.5347	34.1447	1.848824346	9.47E-05	0.001138	Vcan
710.3835	484.9046	294.478	278.035	1.060306406	9.49E-05	0.00114	Eme1
4283.073	3313.217	2413.16	2015.76	0.777619993	9.60E-05	0.001152	Ddx39
306.3789	139.0535	63.4127	62.1921	1.8241505	9.67E-05	0.001158	Snn
764.3893	188.9702	26.9287	41.4614	3.804191647	9.74E-05	0.001162	Mid1
2017.946	1725.69	1197.02	1153.6	0.670803652	9.74E-05	0.001162	Cse11
9215.253	9404.831	6691.35	6266.77	0.522869508	9.75E-05	0.001162	Zmiz2
2034.563	1521.566	952.06	1062.14	0.820326589	9.80E-05	0.001168	Abcb1b
2693.018	2085.803	1308.21	1492.61	0.771126159	9.99E-05	0.001186	Dlgap5
1308.601	995.6588	650.632	646.31	0.828545416	0.0001	0.001186	4930427A07Rik
1882.932	1598.224	1112.76	838.984	0.832941632	0.0001	0.001187	Rab11fip4
588.8706	578.4983	299.69	349.983	0.847958368	0.000101	0.001195	Jcad
103.8572	61.50444	16.5047	3.65836	2.98812175	0.000102	0.001203	Neto1

9192.404	8107.889	5948.64	5716.8	0.568398256	0.000104	0.001223	Baz1b
855.7837	712.2036	448.232	447.539	0.807076199	0.000104	0.001223	Brip1
6920.008	3349.763	1173.57	664.602	2.481634341	0.000106	0.001248	Chst2
1324.18	1091.927	659.319	751.183	0.77721935	0.000107	0.001255	Isoc1
1290.946	1092.818	737.499	699.966	0.728739823	0.000107	0.001257	Gmnn
1025.071	903.8478	605.461	514.609	0.782014775	0.000108	0.001262	Snx10
8205.761	7281.591	5364.02	4340.03	0.673999819	0.000113	0.001313	Mybbp1a
1277.444	1207.805	740.105	818.253	0.674287691	0.000114	0.001318	Ubash3a
5865.857	4996.121	3665.78	3419.35	0.616091509	0.000114	0.001321	Impdh2
4941.528	4202.803	3050.76	2915.71	0.615689045	0.000115	0.001327	Sae1
4005.774	3346.198	2255.06	2431.59	0.649678721	0.000116	0.001335	Mllt3
1411.42	1128.473	765.296	728.014	0.765314753	0.000116	0.001341	Rad54l
3132.334	3197.339	2221.18	2065.75	0.561803265	0.000118	0.001355	Slamf1
1354.298	1120.45	764.427	714.6	0.74153575	0.000119	0.001365	Ppm1d
1335.604	908.3047	547.261	612.166	0.952797729	0.00012	0.001373	Arhgef18
165.133	121.2261	49.514	43.9003	1.611101971	0.00012	0.001376	Nfia
1109.195	622.1753	301.428	419.492	1.265503831	0.000122	0.001392	Sapcd2
421.6604	268.302	150.279	134.14	1.27532109	0.000122	0.001398	Ccdc28b
857.8608	693.4848	456.05	402.42	0.851530889	0.000122	0.001399	Prkag2
2367.945	2219.508	1528.85	1123.12	0.789128966	0.000123	0.001399	Stoml1
932.638	796.8836	522.938	492.659	0.766773039	0.000123	0.001405	Rad51ap1
4912.448	4087.817	3015.14	2480.37	0.71104034	0.000123	0.001405	Prpf19
2875.807	2691.042	1919.76	1816.99	0.574619256	0.000124	0.001409	Jade2
220.1774	244.235	104.24	102.434	1.168166868	0.000126	0.00143	H2-DMb2
2362.752	1918.225	1374.23	1224.33	0.719260966	0.000126	0.00143	Tmco4
762.3122	615.9357	402.193	326.813	0.915676582	0.000127	0.00144	Gpatch4
1181.895	1038.444	701.015	659.724	0.705325071	0.000129	0.001454	Tmem201
10947.59	8386.888	6273.52	4925.37	0.787481389	0.000129	0.001457	Ptpn7
542.1348	359.2216	176.34	51.217	1.976285209	0.00013	0.001463	Foxf2
220.1774	248.6919	110.321	92.6784	1.204074669	0.000131	0.001474	Cradd
54.00577	41.89433	6.94934	2.43891	3.297797099	0.000131	0.001478	D130043K22Rik
192.1359	136.3794	62.5441	42.6809	1.631609581	0.000132	0.001486	3-Mar
6195.084	5232.334	3691.84	3815.67	0.606055137	0.000133	0.001492	Topbp1
1709.49	1945.858	1156.2	757.28	0.932039617	0.000134	0.001499	Nrn1
4314.23	3536.06	2608.61	2179.16	0.712666733	0.000134	0.001499	Nudc
5028.768	4120.797	3002.11	2844.98	0.645644695	0.000134	0.0015	Pom121
404.0047	460.8376	224.116	235.354	0.914015136	0.000134	0.001501	Stx1a
325.0732	51.69938	0	0	9.958424108	0.000134	0.001502	Gm15726
371.8089	331.5891	185.026	124.384	1.177752747	0.000135	0.001503	Ppic
173.4416	82.89729	33.0094	10.9751	2.51686038	0.000135	0.00151	Amotl1
4621.647	4001.354	2940.44	2374.28	0.697458454	0.000136	0.001517	Scap
682.3421	575.8242	357.891	349.983	0.828767498	0.000138	0.00154	Cenph
2949.546	2387.085	1574.03	1726.75	0.693302243	0.000139	0.001542	Cpt1a
6017.489	5378.519	3990.66	3599.83	0.585871461	0.000139	0.00155	Srrt
979.3738	837.8865	527.281	554.851	0.748013323	0.000141	0.001569	Ston2

1734.416	1473.432	980.726	1026.78	0.676217524	0.000142	0.001576	Brca1
2187.234	1607.138	1147.51	810.936	0.952405189	0.000142	0.001578	Samd1
4070.165	3276.671	2396.65	1790.16	0.810329266	0.000143	0.00158	Tbx21
2900.733	2217.725	1610.51	1388.96	0.770092864	0.000143	0.001586	Dtymk
857.8608	632.8718	377.87	412.175	0.916197232	0.000145	0.001597	Bard1
99.70295	33.87201	8.68667	1.21945	3.685212393	0.000145	0.001601	Slit3
2336.788	2337.169	1562.73	1113.36	0.803052103	0.000146	0.001606	Birc3
13734.08	11632.36	8768.33	7706.94	0.622411672	0.000146	0.001607	Ptbp1
3795.982	3854.278	2647.7	2009.66	0.715142489	0.000147	0.001615	Ptprj
988.7209	1017.943	635.865	453.637	0.878235901	0.000147	0.001615	Stk32c
153.7087	3.565475	1.73733	1.21945	5.710943985	0.000149	0.001632	Gm42031
4407.701	3604.695	2476.57	2632.8	0.649111972	0.000152	0.001656	Ckap5
372.8475	272.7588	152.885	137.798	1.148040238	0.000152	0.001656	Fen1
1356.376	1177.498	786.144	796.303	0.678927488	0.000153	0.001662	Pwp2
1956.67	1565.243	1116.24	993.854	0.737930673	0.000155	0.001678	E2f1
76.85436	38.32885	6.94934	0	3.949442457	0.000155	0.001678	AC169985.1
1867.353	1686.47	1192.68	1103.61	0.629204174	0.000156	0.00169	Stim2
4410.817	3542.299	2618.16	2319.4	0.687148201	0.000158	0.001708	Srf
3578.921	3018.174	2204.68	1690.16	0.759246687	0.000159	0.001712	Mbd3
586.7934	435.8793	276.236	204.868	1.083310852	0.00016	0.001722	Lockd
8366.739	6389.331	4204.35	4772.94	0.717050059	0.00016	0.001723	Hjurp
2417.797	1979.73	1308.21	1425.54	0.685997782	0.000162	0.001738	Nat10
2512.307	2151.764	1536.67	1475.54	0.630250341	0.000163	0.001753	Trap1
1228.631	973.3746	668.874	606.068	0.786926022	0.000164	0.001756	Pole3
1418.69	1201.565	841.739	662.163	0.798850427	0.000164	0.001759	Noa1
1039.611	736.2705	434.334	497.537	0.930854154	0.000168	0.001796	Wdr62
4987.225	4283.026	3086.38	3091.31	0.585396291	0.000171	0.00182	Fkbp4
417.5061	411.8123	208.48	236.574	0.900379053	0.000171	0.001823	Tfap4
3969.424	3341.741	2450.51	1854.79	0.763045113	0.000171	0.001823	Prmt1
4008.89	3738.4	2744.12	2493.78	0.56419138	0.000175	0.001855	Cbx6
195.2516	152.424	71.2307	58.5338	1.415501485	0.000175	0.001859	Rragb
672.9949	470.6427	305.771	232.916	1.082182705	0.000176	0.001863	Tsr2
263.7974	241.5609	116.401	120.726	1.092061554	0.000176	0.001865	1500009L16Rik
7927.423	7521.369	5404.85	4021.76	0.712209359	0.000176	0.001867	Gbp5
1945.246	1852.264	1310.82	1158.48	0.61989656	0.000177	0.001876	Pdim1
3394.055	2635.777	1942.34	1685.28	0.732316304	0.000182	0.001921	Alyref
2664.977	2541.292	1818.99	1501.15	0.647937743	0.000185	0.001943	Clasp1
1340.797	1086.578	763.559	654.846	0.773368511	0.000186	0.001957	Casp1
2094.801	1823.74	1307.34	1214.58	0.634994784	0.000186	0.001959	Drosha
140.2073	114.0952	39.9587	12.1945	2.258957199	0.000188	0.001971	Dhrs9
6909.622	6042.588	4544.87	3948.59	0.608361486	0.00019	0.001987	Ssrp1
219.1388	106.0729	41.696	48.7781	1.847192274	0.000191	0.002002	Begain
1082.192	803.1232	479.504	551.193	0.87181507	0.000192	0.002009	Cntrob
67.50721	36.54612	7.81801	2.43891	3.287676714	0.000192	0.002011	Gm37805
2963.047	3349.763	2187.3	1866.98	0.638287494	0.000195	0.002039	Syt11

5052.655	4562.025	2862.26	3396.18	0.619867246	0.000196	0.002039	Agfg1
44.65861	43.67706	5.212	0	3.964060242	0.000198	0.002056	Scn2b
1382.34	1195.325	761.821	838.984	0.687809999	0.000198	0.002065	Wdr76
864.0923	751.4238	503.827	446.32	0.763759559	0.000201	0.002089	Mtbp
1981.596	1688.252	1203.1	881.665	0.814023991	0.000201	0.002089	Beat1
872.4008	692.5935	447.364	445.1	0.809527599	0.000201	0.00209	Wee1
437.239	372.5921	220.642	203.649	0.930324367	0.000203	0.0021	5730508B09Rik
583.6777	538.3867	308.377	336.569	0.800040516	0.000203	0.0021	Ska2
820.4722	953.7645	558.553	487.781	0.760724881	0.000203	0.0021	Palm3
72.70007	67.74402	17.3733	7.31672	2.475159295	0.000203	0.0021	Rian
3808.445	3563.692	2592.1	2073.07	0.659296626	0.000204	0.002113	Rexo2
909.7894	869.0844	539.443	571.924	0.679262492	0.000208	0.002153	St8sia4
1027.148	817.3851	555.079	374.372	0.985363932	0.000213	0.002186	Calcr1
6489	4694.839	3477.28	3177.9	0.748538275	0.000213	0.002193	Kpna2
6080.842	5292.056	3681.41	3962	0.573407123	0.000215	0.002209	Nsd2
3066.904	2670.541	1968.4	1602.36	0.68313979	0.000216	0.002219	C1qbp
79.97008	25.84969	5.212	0	4.234123486	0.000219	0.002238	Scn1a
1520.47	1291.593	921.656	786.547	0.717530654	0.000219	0.002238	Gdpd5
2793.76	2420.066	1726.91	1719.43	0.597016782	0.000219	0.002238	Cc2d1b
482.9362	267.4106	164.178	121.945	1.385963753	0.000223	0.002276	Xylt1
63.35292	67.74402	12.1613	1.21945	3.226226039	0.000224	0.00228	Cadm1
1414.536	1121.342	793.962	697.527	0.764206796	0.000225	0.002289	Cinp
94.51009	94.48508	23.454	30.4863	1.818318608	0.000225	0.002294	Grhl1
264.836	292.3689	113.795	35.3641	1.888112052	0.000229	0.002326	Fosb
505.7848	382.3972	217.167	234.135	0.976946025	0.000234	0.002363	Igf2bp3
16628.58	13768.97	10388.4	7564.27	0.759509101	0.000237	0.002392	Hnrnpab
2744.947	2365.692	1739.07	1584.07	0.620214406	0.000239	0.002407	Sart3
1385.456	1301.398	841.739	906.054	0.620963809	0.000239	0.002409	Trim59
804.8936	659.6128	410.88	435.345	0.791395636	0.00024	0.002414	Sgol
2350.289	1803.239	1316.03	1170.68	0.739146445	0.00024	0.002416	Actl6a
120.4744	154.2068	52.9887	36.5836	1.607559567	0.000244	0.002451	Iglon5
748.8107	615.0444	403.062	376.811	0.804781821	0.000244	0.002454	Riox1
1277.444	1024.183	722.731	631.677	0.763311353	0.000247	0.00248	Atad5
40.50432	37.43748	4.34334	3.65836	3.272959084	0.000249	0.002492	Cd1d2
452.8176	385.9626	235.409	207.307	0.918918075	0.000252	0.002519	Xrcc2
1500.737	1255.047	866.93	860.934	0.67298218	0.000255	0.002548	Mms22l
220.1774	253.1487	108.583	110.97	1.109544236	0.000257	0.002573	Trp73
684.4192	549.0831	350.942	340.227	0.83443292	0.000259	0.002585	Cmc2
38.42718	27.63243	0.86867	0	6.026791475	0.000259	0.00259	Igkv9-120
960.6795	851.2571	582.876	457.295	0.79789639	0.000262	0.002613	Brca2
1630.559	1188.194	821.759	803.62	0.793601922	0.000263	0.002616	Kif20b
37.38861	53.48212	6.94934	2.43891	3.2245199	0.000264	0.002627	Aard
2683.671	2484.244	1797.27	1731.62	0.549977211	0.000267	0.002652	Heatr1
78.9315	90.9196	22.5854	6.09727	2.529121441	0.000267	0.002652	Tead1
998.0681	828.0815	575.927	473.148	0.797203298	0.000273	0.002712	Mrpl38



540.0577	505.406	317.064	245.11	0.890959007	0.000276	0.002736	Mapk8
4321.5	3314.109	2500.03	2136.48	0.719055526	0.000278	0.002746	Nucks1
698.9592	594.5429	387.426	259.744	0.99451797	0.000278	0.002746	Ccdc86
2924.62	2411.152	1727.78	1727.97	0.626430164	0.00028	0.002765	Pent
2831.148	2289.035	1569.68	1680.41	0.655769204	0.00028	0.002766	Nup188
1984.712	1850.481	1333.4	1217.01	0.587698385	0.000281	0.002771	Lrch1
146.4387	146.1845	38.2214	62.1921	1.555848627	0.000283	0.002787	Art2b
7029.058	4745.647	3640.59	2534.02	0.930696014	0.000283	0.002788	AI506816
7526.534	6121.029	4625.65	4286.38	0.614544035	0.000287	0.002824	Ipo5
364.5389	345.851	198.925	174.382	0.925270913	0.000288	0.002827	Zfp101
3081.444	2463.743	1706.06	1809.67	0.657405334	0.00029	0.002842	Ppp2r5d
18865.67	14750.37	11383.9	9730.02	0.670794994	0.00029	0.002846	Hnrnpa0
4883.368	4480.019	3340.03	3163.26	0.525555675	0.000291	0.002853	Cbx5
3495.835	3143.857	2343.66	1956	0.626038416	0.000293	0.002868	Bop1
42.58147	40.11159	5.212	4.87781	3.030700542	0.000294	0.002879	Gm13561
225.3702	316.4359	130.3	86.5812	1.314951697	0.000303	0.002949	Sntb1
3521.799	2505.637	1413.32	1897.47	0.864958833	0.000303	0.00295	Ass1
3068.981	2250.706	1611.38	1587.73	0.73330122	0.000304	0.002959	Nol7
1513.2	1338.836	962.484	826.789	0.671067609	0.000305	0.002963	Lyar
15781.11	14376.89	10932.2	8887.38	0.605396566	0.000305	0.002967	Jak2
8.308579	41.00296	0	0	7.028345714	0.000307	0.002977	Ighv1-81
337.536	278.9984	159.835	143.895	1.018321963	0.000311	0.00301	Gnb11
4736.929	4092.274	3095.06	2516.95	0.65306643	0.000312	0.00302	Ppp5c
2879.961	2197.224	1641.78	1412.13	0.732464041	0.000315	0.003047	Ppil1
125.6673	82.00592	23.454	2.43891	2.960717521	0.000317	0.003066	Olfml2a
1509.046	1196.217	840.87	810.936	0.710941128	0.000322	0.0031	Gm5518
1450.886	1256.83	905.152	767.036	0.693644576	0.000324	0.003113	Sdad1
17777.24	14813.66	11468.1	9572.71	0.631089265	0.000324	0.003113	Actn4
2298.361	2002.905	1476.73	1177.99	0.694826325	0.000327	0.003146	Pin1
860.9765	961.7868	594.169	524.365	0.703378869	0.000328	0.003152	Erc1
455.9333	635.5459	273.63	114.629	1.485285404	0.000333	0.003187	Uchl1
1864.237	1390.535	1025.9	823.131	0.814203039	0.000333	0.003187	Cks1b
44.65861	61.50444	10.424	6.09727	2.660789152	0.000334	0.003193	P2rx6
38.42718	24.95832	0.86867	0	5.967479001	0.000338	0.003223	Alox12b
1536.049	1355.772	972.908	890.201	0.633164595	0.000339	0.003223	Npat
60.2372	49.91665	6.94934	12.1945	2.54920572	0.000344	0.003274	Vax2
702.075	723.7914	436.94	269.499	1.008925137	0.000344	0.003274	Ccdc88a
387.3875	511.6456	242.358	139.018	1.231648847	0.000345	0.003275	Celsr2
1766.612	1337.053	978.988	838.984	0.770260656	0.000345	0.003278	Rrs1
1248.364	1047.358	732.287	699.966	0.679737174	0.000353	0.003336	E2f6
305.3403	221.0594	127.694	82.9228	1.313053361	0.000358	0.003372	Lrr1
2683.671	2445.916	1804.22	1441.39	0.659178503	0.000359	0.00338	Mllt1
42.58147	22.28422	0.86867	2.43891	4.366363886	0.00036	0.003388	Slc30a3
9835.281	8390.453	6455.07	5808.26	0.571375383	0.00036	0.003388	U2af2
1268.097	1189.086	836.527	752.403	0.627648989	0.000364	0.003421	Nol11

1619.134	1405.688	1000.7	696.308	0.831643536	0.000365	0.003423	Nutf2
583.6777	278.107	185.895	102.434	1.573395597	0.000365	0.003425	Lancl3
2942.276	2666.975	1984.04	1623.09	0.635925519	0.000368	0.003441	Prmt5
666.7635	567.8018	377.87	331.691	0.796541522	0.000372	0.003471	Car12
205.6373	182.7306	91.2101	54.8754	1.399360303	0.000374	0.003492	Usp27x
6226.242	4846.371	3564.14	3557.15	0.636624972	0.000375	0.003495	Phgdh
138.1301	65.96128	26.06	21.9502	2.080353108	0.000375	0.003495	Raver2
2018.985	1568.809	1137.09	1073.12	0.698157726	0.000378	0.003516	Hat1
2308.746	1747.083	1216.13	1262.13	0.71047809	0.000378	0.003516	Uald1
2285.898	1960.12	1457.62	1177.99	0.686630016	0.00038	0.003528	Prkar2a
175.5187	146.1845	70.3621	46.3392	1.451849186	0.000381	0.003538	Cyb5rl
701.0364	527.6903	358.76	287.791	0.922983921	0.000384	0.003563	Ift27
500.5919	435.8793	241.49	278.035	0.851850181	0.000387	0.003583	Tube1
636.6449	470.6427	304.902	286.572	0.902863251	0.000388	0.00359	Taf5
893.1723	703.2899	416.96	491.44	0.814607326	0.00039	0.003605	Neil3
4317.346	3412.159	2453.99	2527.93	0.633562879	0.00039	0.003605	Rnps1
364.5389	363.6784	198.925	110.97	1.224834067	0.00039	0.003605	Fsd11
756.0807	687.2452	456.05	429.248	0.703891576	0.000391	0.003608	Arhgap33
300.1474	135.488	58.2007	76.8256	1.692616111	0.000395	0.003642	Evpl
1312.756	1227.415	842.607	841.423	0.592778797	0.000395	0.003642	Prps1
2230.854	1923.574	1375.1	1382.86	0.590799467	0.000395	0.003642	Impdh2-ps
4630.994	4077.12	3097.67	2523.05	0.630903394	0.000398	0.003664	Phlda3
11175.04	10376.42	7869.26	6298.48	0.604868756	0.000401	0.003691	Polr2a
1542.28	1233.654	793.093	899.957	0.713859708	0.000404	0.003718	Gstp3
45.69719	19.61011	1.73733	0	5.067600481	0.000405	0.00372	Lmo1
228.4859	180.9478	92.9474	85.3617	1.196017076	0.000405	0.003721	Axin2
2741.831	2516.334	1833.76	1342.62	0.725887383	0.000411	0.003765	Plxna1
737.3864	608.8048	416.092	347.544	0.815063542	0.000416	0.003807	Arhgap31
627.2977	443.9016	254.52	295.108	0.963575284	0.000417	0.003817	Rad54b
5410.962	4787.541	3400.83	1991.37	0.918621911	0.00042	0.003838	Tiam1
3723.282	3211.601	2437.48	1980.39	0.649657803	0.00042	0.003838	Nop58
1661.716	1387.861	986.806	970.685	0.639068465	0.000423	0.003861	Tbl3
460.0876	400.2245	251.914	217.063	0.872124966	0.00043	0.003919	Bend3
2295.245	1692.709	1042.4	1277.99	0.78186394	0.000446	0.004052	Ncaph
2561.12	1964.577	1489.76	1158.48	0.771815037	0.00045	0.004081	Sf3a2
5.192862	90.9196	0.86867	0	6.580878195	0.000451	0.00409	Ighv14-3
1552.666	1254.156	907.758	841.423	0.681210908	0.000452	0.004096	Mrpl12
1249.403	936.8285	675.823	584.118	0.793346588	0.000455	0.004117	Prim2
8489.291	7196.019	5528.2	5148.53	0.554711054	0.000456	0.004122	Khsrp
1014.685	763.0116	479.504	537.779	0.805710563	0.000457	0.004128	Cdc7
1337.681	1290.702	906.889	841.423	0.587315375	0.000458	0.004138	Urb2
1871.507	1595.55	1166.62	1097.51	0.61396767	0.000471	0.004238	Kat2a
47416.02	42701.02	33163.1	30979	0.490486507	0.000472	0.004244	Lcp1
576.4077	541.0608	351.81	278.035	0.823517561	0.000474	0.004259	Mettl1
3440.79	3084.136	2326.29	2140.14	0.546287366	0.000478	0.004291	Sng5

3577.882	3168.816	2408.81	2021.85	0.605839355	0.00048	0.004307	Rbm10
1332.488	1166.802	846.951	710.941	0.680086126	0.000492	0.004399	Eif2b1
1363.646	1136.495	813.073	769.475	0.658799678	0.000497	0.004432	Wdr46
4240.491	3599.347	2761.49	2430.37	0.593970111	0.000501	0.00446	Adrm1
1668.986	1350.424	984.2	918.248	0.665463357	0.000504	0.004478	Tysnd1
2403.257	2116.109	1548.83	1515.78	0.560030745	0.000504	0.004483	Rbmx11
21123.52	19104.7	13744.9	8017.91	0.886137065	0.000507	0.004502	Gbp2
18.6943	42.7857	0.86867	0	5.929705364	0.000509	0.004513	Pcsk6
1286.791	1337.944	914.707	764.597	0.642795363	0.000512	0.004533	Kctd17
1274.328	990.3106	723.6	599.971	0.772866777	0.000515	0.004553	Thoc3
5483.662	5001.47	3835.17	3370.57	0.540660133	0.000517	0.004564	Ak2
3883.222	2626.863	1614.85	2040.15	0.833156406	0.000518	0.004568	Ube2c
12700.7	15565.08	9875.01	7096	0.735793326	0.00052	0.004585	Nfkb2
15811.23	13901.79	10834.9	8804.45	0.597128741	0.00052	0.004585	Mif
675.0721	491.1441	338.78	247.549	0.987941906	0.000521	0.004591	Icam2
1416.613	1068.751	664.531	787.767	0.775829948	0.000523	0.004608	Cdca2
3190.494	2977.171	2104.78	2219.4	0.512474568	0.000527	0.004637	Rgs16
6792.264	6547.103	4830.66	4866.84	0.459993767	0.000535	0.004698	Agpat3
160.9787	187.1874	80.7861	48.7781	1.415571185	0.000535	0.004698	Cask
670.9178	561.5623	334.437	381.689	0.784484618	0.000535	0.004699	Ttk
100.7415	98.94192	36.484	19.5113	1.81589641	0.000549	0.004805	Kazn
602.372	558.8882	342.255	362.178	0.721760363	0.000553	0.004831	BC055324
3457.408	2929.037	2235.95	1716.99	0.691075436	0.000555	0.004843	Prkca
498.5148	435.8793	251.914	280.474	0.812813661	0.000555	0.004844	Slc35f2
1810.232	1563.461	1160.54	901.176	0.708746708	0.000556	0.004848	Firre
1040.65	848.583	603.724	543.876	0.717533576	0.000558	0.004865	Sp2
189.0202	160.4464	67.7561	19.5113	1.982556653	0.000559	0.00487	Zfp750
103.8572	116.7693	37.3527	40.242	1.510656421	0.00056	0.004879	Prob1
662.6092	502.7319	315.326	334.13	0.843316949	0.000561	0.004882	Cenpi
713.4993	681.897	443.889	434.125	0.667815034	0.000561	0.004882	Acad9
1560.974	1586.636	959.009	1119.46	0.600052506	0.000562	0.004883	Lpcat1
1460.233	1965.468	1062.38	1023.12	0.716231902	0.000565	0.004906	Fas
56.08291	28.5238	5.212	0	3.909964834	0.000566	0.00491	Olf156
5140.933	4724.254	3618	3063.27	0.561662402	0.000566	0.004913	Bicd11
1059.344	1002.79	705.358	607.288	0.649839503	0.000567	0.00492	Nle1
277.2988	282.5639	150.279	141.457	0.93912114	0.000574	0.004969	Fam72a
1859.045	1618.725	1170.96	1152.38	0.581520407	0.000576	0.004984	Arid5b
295.9931	237.1041	136.381	121.945	1.041790338	0.000578	0.004995	Aunip
216.0231	291.4776	127.694	81.7034	1.270480127	0.000579	0.005005	Fnbp11
4367.197	3670.656	2840.54	2354.76	0.628893458	0.000581	0.005016	Zc3h18
570.1763	483.1218	319.67	284.133	0.800269994	0.000585	0.005045	Traip
476.7047	472.4254	295.347	232.916	0.84152325	0.000586	0.005049	Aste1
4574.912	3262.409	2554.75	1797.47	0.847762066	0.000588	0.005063	Myb
2016.908	1774.715	1320.37	1206.04	0.584820385	0.000589	0.005072	Nup155
1869.43	1589.31	1190.94	1006.05	0.653325045	0.00059	0.005078	Ino80e

3278.773	2712.435	2085.67	1765.77	0.636587984	0.000592	0.00509	Ruvbl2
8517.332	7975.967	6145.82	5569.24	0.493258383	0.000596	0.005122	Pcna
181.7502	141.7276	71.2307	39.0225	1.539112646	0.000601	0.005158	H1fx
1564.09	1166.802	859.112	771.914	0.74235655	0.000607	0.005213	Ckap2l
1649.253	1379.839	1030.24	857.276	0.680787697	0.000616	0.005265	Pole4
1004.3	841.452	587.219	564.607	0.679290202	0.000617	0.005269	Nsl1
5888.706	5219.855	3907.27	3929.08	0.50332485	0.000619	0.005287	Xpol
29.08003	27.63243	0.86867	2.43891	4.175251526	0.000629	0.005366	Igkv6-15
2941.237	2691.042	1980.56	1969.42	0.511683447	0.00063	0.005366	Irf2
1204.744	1087.47	786.144	642.652	0.67985159	0.000634	0.005398	Pno1
2809.338	3608.26	2129.1	2002.34	0.635411047	0.000639	0.005433	Aff3
1539.164	1927.139	1062.38	1143.85	0.652688107	0.00064	0.005437	Rras2
344.806	311.0877	186.764	160.968	0.911976386	0.000641	0.005437	Chrm4
1170.471	982.2883	710.57	637.774	0.673466367	0.000645	0.005469	Pop5
1178.78	1181.063	798.305	541.437	0.814133862	0.000647	0.005479	Abcc5
1482.043	1599.115	1071.94	787.767	0.726644942	0.000658	0.005569	Slc29a3
7428.909	5958.8	4517.94	4448.57	0.578133386	0.000659	0.005569	Snrpb
779.9679	722.0086	496.878	434.125	0.687899072	0.000663	0.005595	Chek1
4003.697	3504.862	2685.92	2486.47	0.537236598	0.00068	0.005726	Kdm2b
967.9495	756.772	530.756	502.415	0.738025836	0.000683	0.005745	Slc25a10
182.7887	188.9702	89.4728	80.4839	1.126610391	0.000684	0.005752	Efnb1
3135.45	2762.351	2084.8	1984.05	0.535106646	0.000685	0.005756	Emgl
172.403	117.6607	52.12	56.0949	1.422593776	0.000687	0.005773	BC064078
906.6737	716.6604	471.686	501.195	0.738615034	0.00069	0.005792	Trip13
1299.254	1129.364	823.497	745.086	0.629341548	0.000701	0.005878	Tdg
535.9034	351.1993	237.146	187.796	1.057875518	0.000702	0.005883	Jazfl
49.85148	54.37349	11.2927	2.43891	2.869716522	0.000714	0.005975	Lbp
973.1424	605.2393	319.67	447.539	1.042432403	0.000714	0.005975	Pif1
4947.759	4426.537	3209.73	3396.18	0.505036778	0.000724	0.006046	Map4k1
2134.266	2012.71	1494.98	1362.13	0.536708262	0.000727	0.006067	Atm
5750.575	5079.91	3959.39	3459.59	0.545342944	0.000728	0.006074	Pebp1
2694.057	2494.05	1838.97	1816.99	0.504734601	0.000734	0.006111	Ppid
57.12148	88.2455	19.1107	4.87781	2.562118703	0.000734	0.006113	Fat1
1907.858	1410.145	1009.39	1024.34	0.705809202	0.000739	0.006138	Cks2
692.7278	532.1471	356.154	346.325	0.800882703	0.00074	0.006138	Mastl
1562.013	1563.461	961.615	1121.9	0.586332291	0.00074	0.006138	Frmd6
2745.985	2445.024	1854.61	1707.23	0.542731795	0.000744	0.006155	Ncbp1
7303.241	6313.564	4939.24	3872.98	0.627324614	0.000746	0.006171	Tfdp1
52.96719	11.58779	0.86867	0	5.996964096	0.000753	0.006222	Ighv8-8
916.0209	943.068	635.865	571.924	0.621004367	0.000758	0.006258	Cmtm4
2668.093	2422.74	1810.3	1745.04	0.517506923	0.000761	0.006278	Rif1
1177.741	969.8091	697.54	658.505	0.662196934	0.00077	0.006346	Bdh1
3456.369	3184.86	2436.61	2053.56	0.563875774	0.000773	0.006368	Pcdcl1
3798.059	3509.318	2657.25	2015.76	0.644099876	0.000784	0.006443	Nop2
1438.423	1022.4	601.987	775.572	0.838063262	0.000784	0.006445	Nek2

1329.373	1118.668	828.709	624.36	0.750197974	0.000787	0.006455	Bcl2a1d
1114.388	768.3598	521.2	542.657	0.823131837	0.000787	0.006455	Gja1
87.24008	88.2455	31.272	19.5113	1.773749054	0.000787	0.006455	4930452B06Rik
1069.73	981.3969	703.621	621.921	0.628193142	0.000788	0.006459	Orc6
892.1337	663.1783	408.274	478.026	0.812174951	0.000801	0.006552	9430015G10Rik
24351.41	22020.37	17396.8	14881	0.5225807	0.000802	0.006552	Uba1
225.3702	190.7529	105.109	63.4116	1.293707652	0.000802	0.006552	Sphk1
1047.92	981.3969	634.996	697.527	0.60771855	0.000808	0.006591	Rad18
2291.091	1932.487	1479.34	1158.48	0.677724799	0.00081	0.006607	Cactin
144.3616	143.5104	64.2814	54.8754	1.268049743	0.000821	0.006692	Gm17173
8126.829	8227.333	5980.78	4180.29	0.686176486	0.00084	0.006831	Tnfsf8
724.9235	603.4566	412.617	247.549	1.004120014	0.000845	0.006866	Cd3eap
990.7981	952.8731	612.411	314.619	1.064524159	0.000847	0.006879	Tubb2b
277.2988	284.3466	159.835	117.068	1.01435683	0.000849	0.006883	Pcdhgc3
424.7761	377.0489	243.227	186.576	0.894822876	0.000851	0.006898	Zranb3
304.3017	395.7677	195.45	119.506	1.146512782	0.000853	0.006914	Gbp11
1658.6	1422.624	1060.64	756.061	0.760120016	0.000858	0.006939	Zmynd19
3161.414	2862.185	2103.04	2151.12	0.501711899	0.000865	0.006989	Eif4enif1
466.319	341.3942	211.955	214.624	0.920077297	0.000866	0.00699	Gins1
10854.12	9461.878	6797.32	7464.27	0.510563507	0.000878	0.007068	Vars
193.1745	207.6889	103.371	80.4839	1.119005753	0.000878	0.00707	Fgf2
164.0944	185.4047	83.3921	73.1672	1.155868852	0.000884	0.007109	Bcl2l14
9176.826	8084.714	6351.7	4952.2	0.610351488	0.00089	0.007145	Kcnab2
3987.08	3323.914	2599.05	2274.28	0.584517333	0.000891	0.007154	Rfwd3
3373.283	2745.415	2101.31	1984.05	0.582280097	0.000892	0.007154	Fbxl14
2286.936	2026.081	1532.33	1419.44	0.546385052	0.000895	0.007174	Tnrc6c
562.9063	221.9508	26.06	2.43891	4.769186216	0.000902	0.007223	Wnt3
2493.612	2361.236	1693.9	1753.57	0.494008869	0.000909	0.007264	Pprc1
407.1204	563.345	270.156	132.92	1.262171804	0.00091	0.007268	Mid2
10470.89	9397.7	7296.81	7044.78	0.470160264	0.00091	0.007268	Trim28
823.5879	691.7021	479.504	462.173	0.685209045	0.000912	0.007279	Lsm3
4243.607	3814.167	2931.75	2774.26	0.497543673	0.000916	0.007308	Smarca5
17.65573	35.65475	0.86867	0	5.724675068	0.000923	0.007344	Clstn2
58.16006	50.80801	10.424	13.414	2.202675851	0.000927	0.007371	Rtkn2
736.3478	598.9997	366.578	424.37	0.756715481	0.000932	0.007402	Rfc4
129.8216	167.5773	66.8874	47.5587	1.37052968	0.000938	0.007446	1700007K13Rik
7882.765	7229	5537.76	3965.66	0.668675373	0.000944	0.007482	Pfkl
1876.7	1717.667	1291.71	1137.75	0.563981489	0.000946	0.0075	Atad3a
23448.89	21498.92	16297.1	10676.3	0.736541622	0.000952	0.007542	Cd5
1119.581	869.9758	541.18	647.53	0.744032533	0.000953	0.007543	Stil
5027.729	4173.388	3301.81	2708.41	0.613764443	0.000955	0.007554	Trp53
3533.223	3569.932	2654.65	2435.25	0.480420563	0.00096	0.007595	Spop
1122.697	793.3181	551.604	560.949	0.7836584	0.000963	0.007613	Ddias
1269.135	1076.773	803.517	642.652	0.695763785	0.000965	0.007627	Mrto4
1487.236	1582.179	1081.49	770.694	0.726887675	0.000973	0.007677	Reep3

2787.528	2221.291	1696.51	1593.83	0.605645128	0.000979	0.007717	Exosc10
1151.777	961.7868	691.459	667.041	0.636783075	0.000982	0.007738	Pknox1
10878.01	9684.721	7678.15	6470.42	0.539091602	0.000985	0.007755	Eif3b
1002.222	894.0428	621.966	621.921	0.607905562	0.000988	0.007777	Tex10
61.27577	45.4598	13.03	7.31672	2.366244251	0.000992	0.007797	Gm37065
1942.13	1286.245	925.131	942.637	0.789094931	0.000998	0.007844	Vrk1
488.129	442.1189	290.135	256.085	0.765539167	0.000999	0.007848	Apobec1
3484.41	3185.752	2355.83	2409.64	0.485080928	0.001001	0.007858	Wdr82
823.5879	926.132	589.825	530.462	0.642373376	0.001006	0.00788	Slc26a2
130.8601	86.46276	40.8274	23.1696	1.747579086	0.001007	0.007886	Dgki
519.2862	436.7706	295.347	248.768	0.809865069	0.001013	0.00791	Haus1
21031.09	19118.08	15113.9	14000.5	0.463536727	0.001014	0.007913	Ncl
3670.315	3265.975	2371.46	2513.29	0.505982357	0.001016	0.007926	Isyna1
711.4221	561.5623	303.165	403.639	0.851304754	0.001019	0.007943	Cbx2
1162.163	1544.742	840.001	410.956	1.111318709	0.001019	0.007943	Smpd13b
48.8129	59.7217	10.424	13.414	2.198626514	0.001027	0.007972	Tub
11985.13	9643.718	7613.87	4952.2	0.783072327	0.001032	0.008008	Pml
3149.99	2697.282	2076.98	1454.81	0.726182565	0.001061	0.008206	Pde7a
3102.216	2871.098	2205.55	1987.71	0.509808362	0.001065	0.008237	Slc39a1
1940.053	1829.089	1360.33	1276.77	0.514636766	0.00107	0.00827	Taf5l
563.9448	393.0936	241.49	267.06	0.91239966	0.001071	0.008276	Nanos1
4440.936	3796.339	2956.08	2759.62	0.526831792	0.001075	0.008296	Uba2
4328.77	3597.564	2849.23	2296.23	0.622607283	0.001076	0.008306	Ranbp1
184.8659	14.2619	0.86867	0	7.641477714	0.001082	0.008332	Iglv3
221.2159	158.6636	90.3414	70.7283	1.231146888	0.001082	0.008332	Zfp428
3287.082	3023.523	2334.98	2068.19	0.518546603	0.001082	0.008332	Smpd4
2519.577	2261.402	1633.96	1713.33	0.514404993	0.001089	0.008381	Mprrip
324.0346	284.3466	152.885	174.382	0.896539218	0.001093	0.008402	Sc1t1
3.115717	42.7857	0	0	6.924938003	0.001097	0.008426	Ighv1-52
4404.586	3676.896	2652.04	2876.69	0.547768619	0.0011	0.008447	Scrib
4487.671	3812.384	3008.2	2626.7	0.558152039	0.0011	0.008447	Hnrnpd
1467.503	1272.874	957.272	723.136	0.703461194	0.001104	0.008467	E130309D02Rik
1840.35	1655.272	1232.64	1180.43	0.534078827	0.00111	0.008506	Ppm1f
1703.259	949.3076	751.397	369.494	1.240220817	0.001112	0.008516	Ehd3
1027.148	722.0086	516.857	492.659	0.791817514	0.001113	0.00852	Paqr4
2282.782	1931.596	1493.24	1127.99	0.683613324	0.001122	0.008583	Snrnp40
1303.408	1137.386	707.095	853.617	0.646417015	0.001123	0.008591	Il6ra
356.2303	320.8927	174.602	63.4116	1.498812506	0.001128	0.00861	Spsb1
4517.79	3819.515	2831.86	2958.39	0.525935856	0.00113	0.008626	Rbm38
246.1417	223.7335	124.219	115.848	0.966658779	0.001139	0.00868	Cenpu
2250.586	2169.591	1629.62	1334.08	0.575524453	0.001146	0.008726	Zfp62
1236.94	1145.409	823.497	796.303	0.555953545	0.001146	0.008726	Pik3r2
13.50144	18.71874	0	0	6.412190808	0.001147	0.008728	Igkv4-59
2030.409	1653.489	1145.77	1268.23	0.610075402	0.001148	0.00873	Taf4
2485.304	2275.664	1747.76	1506.02	0.548154684	0.001159	0.008801	Utp4

2171.655	1743.517	1292.58	1293.84	0.597758683	0.001172	0.008878	Slc16a1
1543.319	1197.999	855.637	885.323	0.65473065	0.001173	0.008879	Suv39h1
3092.869	2775.722	1926.7	2154.77	0.524313727	0.001174	0.008885	Dnajc9
1172.548	852.1484	534.231	645.091	0.780572951	0.001187	0.008978	Kif14
6250.129	5437.349	4277.32	3982.73	0.500439783	0.001192	0.009013	Psmc3
3690.048	3773.164	2758.89	2710.84	0.448273037	0.001195	0.009031	Rab27a
4507.404	4056.619	3188.01	2731.58	0.532185656	0.001197	0.009045	Ei24
1885.009	1764.91	1255.22	1310.91	0.508459557	0.001207	0.009105	Mdc1
1290.946	1114.211	838.264	675.577	0.665855875	0.001216	0.00916	Rnf216
1977.442	1197.999	950.322	743.867	0.904963025	0.00122	0.009185	H2afx
122.5515	62.39581	26.9287	6.09727	2.453148079	0.001258	0.009436	Ms4a1
48.8129	22.28422	4.34334	0	3.918174544	0.001261	0.009458	Igf2
10841.66	9092.852	7327.21	5770.45	0.605632943	0.001266	0.00948	Hnrnpm
99.70295	78.44044	32.1407	24.3891	1.64589537	0.001266	0.00948	Mmp15
4270.61	3933.61	3075.08	2575.49	0.537300127	0.001267	0.009485	Noc2l
759.1964	699.7244	496.009	406.078	0.690819037	0.001276	0.009537	Aimp2
983.5281	828.9729	613.279	510.951	0.686739576	0.001279	0.009552	Dbr1
2696.134	2257.837	1602.69	1753.57	0.561926865	0.001283	0.00957	9030617O03Rik
86.20151	57.04759	18.242	2.43891	2.745656555	0.001283	0.00957	AC122326.1
2729.368	2835.444	2072.64	1912.1	0.481442287	0.001286	0.009592	Gfi1
6222.087	5291.164	4196.53	3829.08	0.520263034	0.001293	0.009626	Ctbp1
1126.851	967.135	721.863	543.876	0.723682108	0.001313	0.009753	Heatr3
29.08003	24.95832	2.606	0	4.232217556	0.001326	0.009833	Gm44171
2199.696	1787.194	1309.08	1353.59	0.582234568	0.001333	0.009873	Pde12
7688.552	6317.13	4985.28	4719.28	0.529053237	0.001337	0.009903	Raly
1347.028	1210.479	904.283	808.498	0.577063662	0.001344	0.009948	Pih1d1
5328.915	4800.02	3718.77	3613.24	0.465996797	0.001345	0.009948	Sf3a1
1845.543	1537.611	1022.42	1190.19	0.613269127	0.001347	0.009961	Ncapg
49.85148	40.11159	8.68667	8.53617	2.383011798	0.001348	0.009961	Acy3
4187.524	3216.95	2500.89	2388.91	0.598254127	0.001352	0.009987	Lsm4
69.58435	46.35117	15.636	7.31672	2.307693209	0.001357	0.010011	Igsf9
3981.887	3315.891	2447.04	2586.46	0.535903474	0.001357	0.010011	Supt16
1643.022	2035.886	1202.24	1240.18	0.591540533	0.001358	0.010013	Hipk2
205.6373	186.2961	99.0281	47.5587	1.406245334	0.001363	0.010041	Icam5
1282.637	1373.599	953.797	841.423	0.564245008	0.001367	0.010066	Brpf3
2851.92	2026.081	1541.02	1502.37	0.680176283	0.001389	0.010202	Tacc3
5448.351	4991.665	3901.19	3679.09	0.461517901	0.001396	0.010245	Rela
1422.844	1254.156	943.373	851.178	0.575754331	0.0014	0.010267	Nt5c3b
42.58147	13.37053	1.73733	0	4.854580315	0.001407	0.010308	Ralyl
2319.132	1867.417	1409.85	1386.52	0.581768269	0.001408	0.010312	Hmgbl
1964.979	1672.208	1279.55	1184.09	0.561183776	0.001416	0.010365	Vac14
14.54001	66.85265	4.34334	2.43891	3.561161496	0.001427	0.010434	Ighv1-26
986.6438	725.5741	455.182	546.315	0.774624466	0.001448	0.010571	Kifc5b
752.965	794.2095	531.625	473.148	0.621410717	0.001469	0.01071	Mrpl1
241.9874	107.8556	66.8874	45.1198	1.634650669	0.001476	0.010751	St3gal6

13635.42	11781.22	9535.36	8067.9	0.529705283	0.001499	0.010887	Ran
3525.953	2848.814	2224.66	2097.46	0.560167579	0.001503	0.010904	Cdk2ap1
6225.203	5635.233	4451.92	4137.6	0.465213254	0.001545	0.011171	Stip1
2500.882	2136.611	1601.82	1618.21	0.526053689	0.001546	0.011171	Ubl7
982.4895	721.1173	499.484	523.145	0.735992255	0.001547	0.011171	Lsm2
4042.124	4269.656	3116.78	2981.56	0.446622475	0.001547	0.011171	Mdn1
657.4163	499.1665	361.366	293.888	0.816512461	0.001548	0.011171	Nup35
680.2649	528.5816	385.688	285.352	0.845291216	0.001548	0.011171	Qpctl
1401.034	1035.77	794.831	697.527	0.70593263	0.001565	0.011278	Gle1
60.2372	32.08927	8.68667	7.31672	2.518101414	0.001573	0.011311	Chn1
2035.602	1730.147	1275.2	1308.47	0.543360786	0.001573	0.011311	Rpap1
1123.735	864.6276	616.754	628.018	0.675218732	0.001576	0.011326	Baiap2
7121.491	7226.326	5531.67	4982.69	0.4482221	0.001577	0.011326	Etv6
96.58723	91.81097	37.3527	28.0474	1.517176525	0.00159	0.01141	Bbs7
1567.206	1463.627	1098.86	1001.17	0.528299127	0.001599	0.01145	Ikbkap
1438.423	1350.424	770.508	1010.93	0.648379078	0.001607	0.011494	Plxnb2
45.69719	49.02528	8.68667	0	3.364930187	0.001616	0.011544	Fam160a1
8047.898	7237.914	5764.48	5309.5	0.46476962	0.00162	0.011565	Srsf1
970.0266	998.3329	667.137	679.235	0.548252981	0.001626	0.011604	Tnfsf9
90.3558	73.09223	29.5347	20.7307	1.6886806	0.001628	0.011604	Tnfrsf13c
555.6362	481.3391	329.225	303.644	0.710501654	0.001633	0.011634	Ap1s2
4046.278	3203.579	2415.76	2492.56	0.562602491	0.001639	0.011669	Hmgn1
1353.26	1084.796	838.264	675.577	0.6855368	0.001647	0.011724	Cops7b
3476.102	3231.211	2523.48	2034.05	0.556618392	0.001654	0.011757	Psmc7
143.323	131.9226	59.0694	19.5113	1.788998006	0.001656	0.011762	Tln2
379.0789	219.2767	113.795	149.993	1.183930005	0.00166	0.011782	Neurl1b
1078.038	856.6053	653.238	506.073	0.736246861	0.001662	0.011792	Lsm6
1558.897	1177.498	781.801	919.468	0.686228199	0.001665	0.011806	Diaph3
118.3973	129.2485	53.8574	48.7781	1.26839033	0.001667	0.011818	Igdcc4
466.319	407.3555	272.762	167.065	0.98411693	0.001669	0.011818	Dact3
15.57859	31.1979	0.86867	0	5.537429862	0.001675	0.011853	Gm22211
1371.954	1059.837	658.45	825.57	0.713584005	0.001676	0.011854	Ect2
2834.264	2306.862	1734.73	1769.43	0.552825679	0.001677	0.011856	Hnrnp11
1112.311	1119.559	561.159	795.084	0.721164589	0.00168	0.011862	Egfr
2031.448	1709.645	1309.08	1242.62	0.551319181	0.001681	0.011862	Ilf2
56.08291	68.63539	18.242	4.87781	2.393744069	0.001709	0.012024	Ripk4
820.4722	715.769	524.675	435.345	0.675687611	0.001715	0.012063	Alg8
1786.345	1788.086	1316.03	1230.43	0.488658136	0.001727	0.01214	Prdm4
1213.053	1148.974	836.527	570.704	0.744610653	0.001738	0.012206	Fam212b
1439.461	1349.532	1014.6	893.859	0.546033158	0.001752	0.012296	Tsr1
826.7036	650.6991	461.262	453.637	0.690437314	0.001754	0.012296	Hlcs
921.2137	754.9893	556.816	503.634	0.658817404	0.001756	0.012301	Rnaseh2b
6034.106	5345.538	4286.87	3429.1	0.559988923	0.001756	0.012301	Srsf6
666.7635	516.9938	353.548	356.08	0.737459103	0.001759	0.012317	Atcay
6847.308	5916.014	4428.47	4709.53	0.482096026	0.001773	0.012403	Rad21



610.6806	496.4923	351.81	310.961	0.737829589	0.001776	0.012413	Adnp
1826.849	1741.734	1322.11	1074.34	0.573027398	0.001777	0.01242	Pdrg1
2332.634	2382.628	1766	1627.97	0.473864381	0.001793	0.012505	Snx27
274.1831	189.8615	121.613	76.8256	1.216879722	0.001799	0.012542	Siah1b
2768.834	2332.712	1849.39	1612.12	0.558653587	0.0018	0.012542	Prpf31
299.1089	275.4329	138.987	171.943	0.88966762	0.001803	0.012557	Csad
13169.1	10957.6	8971.6	7514.27	0.549163627	0.001803	0.012557	Maz
730.1164	536.6039	382.214	360.958	0.767774634	0.001808	0.012578	Nmral1
579.5234	599.8911	398.718	340.227	0.672314462	0.001817	0.012623	Themis2
3401.325	2701.738	2179.49	1563.34	0.704338747	0.001817	0.012623	Pdcd1
1490.351	1248.808	862.587	958.49	0.589379432	0.001823	0.01265	Mapk11
239.9102	178.2737	108.583	84.1423	1.11113568	0.001829	0.012679	Chchd6
859.938	789.7526	575.058	495.098	0.622280088	0.001839	0.012741	Emc8
1731.3	1331.705	851.294	1054.83	0.685123299	0.001841	0.012749	Kif23
4274.764	4363.25	3311.36	2998.64	0.452696285	0.001852	0.012815	Rnf145
371.8089	311.0877	207.612	151.212	0.922672952	0.001864	0.012889	Gemin6
855.7837	746.9669	552.473	419.492	0.71849834	0.001876	0.012968	Ccdc92
2589.161	801.3404	233.672	60.9727	3.522770418	0.001896	0.013092	Angptl2
5076.542	4413.166	3399.1	3433.98	0.473721393	0.001898	0.013098	Anapc1
13284.38	14175.44	10649	9355.65	0.456854269	0.001901	0.013109	Ptpn1
1610.826	1317.443	974.645	985.318	0.578863669	0.001901	0.013109	Adprhl2
2152.961	2168.7	1579.24	1568.22	0.457364115	0.001919	0.013227	AI504432
14.54001	42.7857	2.606	0	4.331334961	0.001941	0.013362	Igkv6-17
2277.589	1895.941	1505.4	1256.04	0.594657692	0.001953	0.013431	Tomm40
34.27289	18.71874	2.606	0	4.207688419	0.001954	0.013431	Igkv10-94
99.70295	100.7247	40.8274	15.8529	1.80032253	0.001956	0.013438	Kcnh4
729.0778	688.1366	491.666	390.225	0.681426476	0.001956	0.013438	Ift57
30.1186	17.82737	1.73733	1.21945	3.991148181	0.001977	0.013559	Gm5907
5998.794	5030.885	3987.18	3827.86	0.496821207	0.001984	0.013593	Rbbp4
3353.55	2953.104	2345.4	2085.27	0.508672973	0.001987	0.013595	Phb
375.9632	334.2632	221.51	165.846	0.869388441	0.001987	0.013595	Wdr34
81.00865	32.08927	10.424	10.9751	2.400531922	0.001989	0.013597	Tox2
2482.188	2246.249	1736.47	1640.16	0.485229794	0.00199	0.013602	Ebna1bp2
1300.293	1231.871	924.262	776.792	0.572262313	0.002006	0.013689	Polr1b
147.4773	154.2068	61.6754	75.6061	1.141508993	0.002037	0.013888	Arhgef17
34.27289	12.47916	0.86867	0	5.532081732	0.002053	0.013974	Wnt10a
508.9005	407.3555	286.66	241.452	0.791562939	0.002056	0.013982	Bmpr1a
1106.08	1039.336	773.983	641.432	0.598041206	0.002061	0.01401	Armc5
4646.573	4073.555	3274.88	2854.74	0.507998104	0.002064	0.014014	Dpp9
1289.907	999.2243	767.902	684.113	0.655283332	0.002078	0.014097	Tssc4
855.7837	681.0057	496.878	468.27	0.66972255	0.002085	0.014133	Eefsec
2531.001	2273.881	1656.55	1769.43	0.488187975	0.00209	0.01416	Rbl1
893.1723	835.2124	583.745	587.776	0.560869045	0.002098	0.01421	Calhm2
6959.474	6342.979	5100.82	4243.7	0.509068175	0.002099	0.01421	Tardbp
6934.548	6059.524	4906.23	4318.08	0.49396895	0.002102	0.014227	Srsf3

759.1964	617.7185	442.152	424.37	0.666900232	0.002145	0.014484	Dars2
622.1049	457.2721	320.538	307.302	0.780202713	0.002154	0.014533	Haspin
1048.958	817.3851	608.067	575.582	0.655794651	0.002174	0.014652	Gpn2
917.0594	787.0785	566.371	558.51	0.598573458	0.002197	0.014785	Haus8
5026.691	4607.485	3686.62	3197.41	0.484394934	0.002203	0.014812	Safb
476.7047	405.5727	279.711	243.891	0.749848599	0.002203	0.014812	Itfg2
2211.121	1812.152	1427.22	1296.28	0.562035262	0.002205	0.014812	Brip1os
2041.833	1873.657	1415.93	1393.84	0.478424691	0.00222	0.014891	Ppat
13296.84	12210.86	9866.33	7975.22	0.515446165	0.00224	0.01501	Kpnb1
2249.548	2071.541	1618.33	1408.47	0.512603351	0.002249	0.01505	Ddx18
2298.361	1811.261	1190.07	1460.91	0.633119361	0.002253	0.015065	Phactr2
547.3277	429.6397	290.135	291.449	0.74745117	0.002255	0.01507	Gins3
3070.02	2954.887	2258.54	2191.36	0.436925942	0.002256	0.015076	Akap8
945.1009	747.8583	531.625	546.315	0.650876265	0.002263	0.015108	Meaf6
1664.832	1731.038	1225.69	1221.89	0.472503403	0.002266	0.015122	Lrp6
17405.44	15689.87	11754.8	12703	0.436376266	0.002293	0.015257	Ikzfl
2560.081	2298.84	1806.83	1329.2	0.630393757	0.002307	0.015324	Abcf2
616.912	567.8018	403.93	298.766	0.749696766	0.002317	0.015365	Mex3d
90.3558	82.00592	31.272	30.4863	1.479313223	0.002326	0.015407	Zfp976
1167.355	862.8449	674.086	556.071	0.7207472	0.002343	0.0155	Cenpx
1268.097	1096.383	834.789	762.158	0.564951898	0.002369	0.015637	Psmc9
541.0962	492.0355	346.598	271.938	0.736344725	0.002388	0.015735	Dusp14
4220.758	3630.545	2938.7	2536.46	0.519403574	0.002393	0.015757	Csrp1
10.38572	17.82737	0	0	6.221286313	0.002399	0.015795	Syn2
5910.516	5197.571	4217.38	3670.55	0.493444581	0.002401	0.015801	Rnf187
1047.92	1017.052	666.268	747.525	0.547744524	0.002406	0.015825	Mtr
300.1474	211.2544	124.219	132.92	0.991679066	0.002407	0.015825	Top1mt
4556.217	3503.97	2717.19	2749.87	0.559870648	0.002412	0.01585	Map3k11
1983.673	1565.243	1250.88	1067.02	0.61332567	0.002447	0.016048	Timm50
3787.674	3203.579	2579.07	2316.96	0.513353225	0.002452	0.016074	Fzr1
1637.829	1517.109	1116.24	1135.31	0.486635154	0.002464	0.016144	Ube2q2
1405.188	1131.147	817.416	864.592	0.592514793	0.002465	0.016144	Mrpl18
900.4423	828.9729	612.411	535.34	0.589599746	0.002467	0.016154	Aatf
94.51009	75.76634	30.4034	29.2669	1.510298656	0.002493	0.016269	Dmrta2
44.65861	32.98064	6.94934	7.31672	2.445011124	0.002502	0.016325	2900011O08Rik
1658.6	1387.861	1005.92	1073.12	0.551314097	0.002503	0.016325	Nt5c2
626.2592	547.3004	366.578	384.128	0.644702881	0.002505	0.01633	Nbn
1828.926	1449.365	1162.28	935.321	0.642669178	0.002516	0.01639	Scand1
604.4491	518.7766	374.396	317.058	0.69705851	0.002528	0.016451	R3hcc1
5.192862	49.91665	0.86867	0	5.780826694	0.002557	0.016621	Igkv8-19
730.1164	705.964	506.433	397.542	0.664851513	0.002561	0.016643	Rpp14
951.3323	746.9669	522.069	558.51	0.652295159	0.002582	0.01676	Hdac10
399.8504	363.6784	200.662	246.33	0.77553138	0.002591	0.016801	Oip5
265.8745	273.6502	155.491	149.993	0.819957815	0.002595	0.016818	Slc7a4
485.0133	437.662	296.216	278.035	0.682553447	0.002606	0.016878	Ndufaf4

2068.836	2199.898	1615.72	1363.35	0.518053044	0.002615	0.016929	Lnx2
2117.649	1572.374	1233.51	1162.14	0.622493695	0.002618	0.016937	Fam111a
156.8244	220.1681	98.1594	64.631	1.204960447	0.002624	0.016963	Cd70
28285.52	25778.38	20778.5	19917.3	0.409733598	0.002625	0.016963	Hnrnpa2b1
924.3295	828.9729	606.33	365.836	0.847307213	0.002643	0.017061	Sfn
1625.366	1436.886	1117.98	997.513	0.532423548	0.002648	0.017087	Pitrm1
99.70295	106.9642	46.0394	31.7058	1.400363314	0.002655	0.017128	Itpka
3173.877	2707.978	2152.56	2016.98	0.495866416	0.002683	0.017275	Aqr
6603.243	6080.026	4623.92	4841.23	0.422285503	0.002684	0.017275	Smc1a
2731.445	2072.432	1693.03	1056.05	0.80384398	0.002691	0.01731	Slamf7
1228.631	1182.846	711.439	891.42	0.591058435	0.002695	0.017318	Hook1
1250.441	1396.775	969.433	751.183	0.619975127	0.002697	0.017323	Tnf
435.1618	202.3407	113.795	149.993	1.274563688	0.002716	0.017432	Frat2
25409.71	21232.4	17409	16187	0.473264318	0.002733	0.017525	Ybx1
4721.35	4558.459	3534.61	3454.71	0.40880603	0.002742	0.017571	Zmynd8
206.6759	118.552	60.8067	70.7283	1.3069702	0.002762	0.017676	Btbd11
4153.251	3577.062	2901.35	2565.73	0.499180488	0.002784	0.017811	Eif4a3
1623.289	1375.382	1087.57	918.248	0.578633646	0.002803	0.017916	Brix1
1287.83	1263.961	941.636	848.739	0.510160317	0.002804	0.017917	Nifk
1549.55	1212.261	865.193	949.954	0.605699271	0.002809	0.017935	Nrf1
530.7105	386.854	286.66	202.429	0.902920528	0.002827	0.018004	Ttc21b
3248.655	2784.636	2262.01	1791.38	0.572848593	0.002831	0.018023	Erh
206.6759	152.424	92.9474	48.7781	1.329287651	0.002834	0.018032	Bmp1
14901.44	14804.74	11724.4	10747	0.402555384	0.002842	0.018054	Fasn
11017.18	10514.58	8183.72	8252.04	0.389615728	0.002847	0.018076	Hnrnph1
1409.343	1356.663	986.806	996.293	0.480024438	0.00285	0.018087	Wdr75
57.12148	33.87201	11.2927	4.87781	2.458555599	0.002851	0.018088	Myo1b
56.08291	48.13391	15.636	6.09727	2.228667887	0.002854	0.018103	2010007H06Rik
438.2776	421.6174	245.833	284.133	0.700600192	0.002877	0.01824	Gm4759
18.6943	8.913687	0	0	6.185654625	0.002895	1	Gm2464
1471.657	1089.253	872.142	724.355	0.680089884	0.002908	0.018394	Qdpr
210.8302	198.7752	113.795	99.9952	0.934646445	0.002924	0.018481	Jrk
1253.557	937.7198	701.015	699.966	0.644695249	0.002948	0.018621	Sac3d1
6465.113	5905.317	4723.81	4502.22	0.422898036	0.002975	0.018727	Dhx15
388.4261	332.4805	229.328	171.943	0.840099369	0.00298	0.018755	Ublcp1
1727.146	1467.193	1169.23	881.665	0.637475192	0.002994	0.018816	Thop1
799.7008	686.3539	518.594	408.517	0.677699683	0.003013	0.018916	Polr3h
338.5746	491.1441	251.914	173.162	0.961619713	0.00303	0.018995	2700081O15Rik
941.9852	841.452	608.936	607.288	0.551807634	0.003044	0.019055	Diablo
201.483	262.9538	124.219	49.9976	1.404234178	0.003049	0.019084	Gm37233
830.8579	806.6886	521.2	586.557	0.565294101	0.003053	0.0191	Nt5dc1
2885.154	2647.365	2112.6	1826.74	0.489149331	0.003055	0.019102	Ahsa1
1327.296	1162.345	885.172	840.203	0.52815834	0.003058	0.019114	Ddx56
4576.989	4060.184	2916.12	3298.62	0.47514945	0.003065	0.019145	Rai1
824.6265	694.3762	489.06	508.512	0.606505354	0.003073	0.019185	Mettl13

436.2004	727.3568	341.386	156.09	1.221871468	0.003077	0.019206	Azin2
880.7094	671.2006	506.433	463.392	0.676593732	0.003087	0.019251	Hgh1
1422.844	1312.986	1015.47	864.592	0.539665931	0.003088	0.019251	Lzic
406.0818	326.2409	221.51	203.649	0.782064294	0.003096	0.019294	Pus7l
43.62004	49.02528	13.03	6.09727	2.247701866	0.003119	0.019405	Drc1
1758.303	1638.336	1268.25	1158.48	0.484195926	0.003138	0.019503	Fam98b
74.77721	50.80801	20.848	10.9751	1.958337877	0.003145	0.01954	Uaca
498.5148	490.2528	319.67	319.497	0.629345309	0.003152	0.019561	Armex3
4462.746	4015.616	3236.66	2965.71	0.450532089	0.003184	0.019699	Nsun2
5671.644	5259.075	4230.41	3887.62	0.428856527	0.003187	0.019705	Fam168b
532.7877	443.9016	321.407	267.06	0.727604686	0.003188	0.019705	Spin4
1653.407	1267.526	946.848	982.879	0.597786293	0.003201	0.019781	Dbf4
2357.559	2068.867	1663.5	1306.03	0.574620327	0.003213	0.019843	Ncdn
261.7202	270.9761	163.309	107.312	0.970079289	0.003217	0.019853	Casc4
748.8107	548.1917	400.456	386.567	0.71941483	0.003237	0.019943	Mars2
762.3122	735.3791	509.039	513.39	0.550706848	0.003237	0.019943	Atp11c
1832.042	1570.592	1198.76	1197.5	0.505514528	0.003243	0.019973	Cpsf4
792.4308	574.0414	429.99	395.103	0.726090863	0.003251	0.019994	Ppp1r13l
539.0191	365.4612	219.773	273.158	0.87716845	0.003266	0.020074	Mtfr2
958.6023	918.1097	684.51	575.582	0.572673072	0.00328	0.020149	Noc3l
96.58723	17.82737	10.424	2.43891	3.111777652	0.003301	0.020267	Iglc1
1473.734	1263.961	995.493	867.031	0.554270093	0.003317	0.02034	Mrpl28
57.12148	64.17854	19.1107	17.0723	1.741751554	0.003318	0.02034	4933430I17Rik
223.2931	212.1457	126.825	101.215	0.927985191	0.003322	0.020358	Fads6
6685.291	6911.673	5083.44	5277.79	0.392224954	0.00335	0.020506	Rapgef1
1286.791	1105.297	854.769	781.67	0.54648498	0.00335	0.020506	Cdk5rap2
136.053	125.683	62.5441	24.3891	1.572738919	0.003357	0.02054	Pax5
440.3547	415.3778	264.075	275.596	0.665558847	0.003393	0.020721	A930004J17Rik
320.9189	221.9508	151.148	69.5088	1.289254176	0.003406	0.020775	Trim2
36.35003	14.2619	2.606	1.21945	3.676805527	0.003421	0.020854	Zan
2367.945	2166.917	1683.48	1634.07	0.450560932	0.003428	0.020884	Nup214
1709.49	1625.856	1237.85	1184.09	0.461153813	0.00343	0.020887	Cebpz
880.7094	791.5354	584.613	551.193	0.556934115	0.003431	0.020887	Ddx51
1892.279	1489.477	1118.84	1168.24	0.564107584	0.003434	0.020901	Tshz1
1816.463	1567.026	1048.48	1256.04	0.554910287	0.003439	0.02092	Heg1
9430.238	8437.696	6812.09	6558.22	0.418199268	0.00344	0.02092	Ldb1
1431.153	1200.674	957.272	728.014	0.641014199	0.003448	0.020945	Nme1
225.3702	195.2097	97.2908	120.726	0.951885745	0.003449	0.020945	Ccdc18
2187.234	2283.687	1706.06	1277.99	0.582086351	0.003449	0.020945	Tesc
615.8734	462.6203	335.306	314.619	0.72890271	0.003458	0.02099	Snx30
607.5649	507.1888	330.962	370.714	0.668735616	0.003463	0.02101	Spata51l
327.1503	286.1293	171.996	185.357	0.77998028	0.003464	0.02101	Mir17hg
1666.909	1620.508	1247.41	1002.39	0.545658936	0.003475	0.021065	Nop16
1362.607	962.6782	723.6	735.33	0.671978975	0.003481	0.021092	Tfeb
371.8089	304.8481	198.056	197.551	0.773350243	0.00349	0.021122	Mybl1

1208.898	1123.125	845.213	799.961	0.502516144	0.003492	0.021122	Rsbn1
4559.333	3982.635	3271.4	2771.82	0.498640194	0.003533	0.021332	Tra2b
4697.463	4162.692	3413.86	2849.86	0.499694907	0.003557	0.021464	Eif6
3923.727	3974.613	2630.33	3097.41	0.464186751	0.00357	0.021533	Gtpbp1
4898.946	4215.282	3467.72	3035.22	0.486513305	0.003595	0.021671	Psmc3
972.1038	869.0844	662.793	573.143	0.573114569	0.003603	0.021688	Fbxo46
634.5677	582.0637	390.032	414.614	0.597011918	0.003611	0.021731	Fam102b
1061.421	788.8613	631.521	484.123	0.727332539	0.003624	0.021782	Ndc1
2850.881	2598.34	1838.97	2087.7	0.473237113	0.003632	0.021814	Syne3
4054.587	4693.056	1875.45	801.181	1.708026159	0.003656	0.021922	Marcksl1
81.00865	60.61307	19.9794	25.6085	1.641887473	0.00366	0.021938	Sarm1
8898.488	8317.361	6712.19	4881.47	0.570005873	0.003667	0.021951	Cdk6
2257.856	1852.264	1507.14	1291.4	0.553418979	0.003669	0.021957	Ruvbl1
68.54578	118.552	36.484	13.414	1.8873591	0.003689	0.022052	Gm6904
754.0036	620.3926	463	423.15	0.631394257	0.003699	0.022104	Timm22
201.483	141.7276	88.6041	64.631	1.155450387	0.003707	0.022136	Per2
139.1687	113.2038	61.6754	30.4863	1.437970713	0.003749	0.022362	Svop
13.50144	24.95832	0.86867	0	5.256790585	0.003758	0.0224	Ighv1-9
50.89005	40.11159	12.1613	2.43891	2.589569396	0.003772	0.022467	Gpr161
794.5079	958.2213	576.795	247.549	1.084866864	0.003774	0.022467	Lrfn1
5791.08	6340.305	4735.98	3719.33	0.520403711	0.003775	0.022467	Plagl2
1070.768	914.5443	715.782	521.926	0.678984714	0.003777	0.022472	Polr2d
2725.214	2540.401	2000.54	1891.37	0.435658426	0.003784	0.022496	Polr2b
1227.593	1392.318	916.444	932.882	0.503039387	0.003787	0.022502	Scml4
465.2804	434.0965	53.8574	4.87781	3.928698729	0.00379	0.022511	Xcl1
1521.509	1408.362	1071.94	653.627	0.761570052	0.003801	0.022553	Phf5a
117.3587	86.46276	39.09	41.4614	1.339318582	0.003809	0.022588	1700066B19Rik
1302.37	1170.367	911.232	798.742	0.530659284	0.003809	0.022588	Gins4
3470.909	2626.863	2218.58	1668.21	0.648744887	0.003836	0.022712	Rbm15b
1390.648	1222.066	960.746	838.984	0.536313325	0.003846	0.022762	Mtmr4
1784.267	1608.92	1266.52	1152.38	0.487336298	0.003858	0.02281	Rprd1b
1580.707	1841.568	1270.86	1085.31	0.537790795	0.003859	0.02281	Gnb5
159.9402	179.1651	92.0788	46.3392	1.281057534	0.00386	0.02281	Slc30a1
3116.756	2646.474	2150.82	1947.47	0.491200077	0.003869	0.022846	H3f3a
2419.874	2090.26	1688.69	1495.05	0.50154662	0.003875	0.022876	Panx1
1088.424	982.2883	758.347	643.871	0.560522793	0.003899	0.022999	Ppp2r3d
7382.173	6648.719	5388.34	3588.85	0.643765018	0.003904	0.023023	Tuba1a
564.9834	459.0549	309.246	330.472	0.678896643	0.003916	0.023066	Ska3
1383.378	1239.002	973.776	826.789	0.540819505	0.003917	0.023066	Cchcr1
2489.458	2138.393	1349.91	1748.7	0.579619973	0.003925	0.023092	Ncapd3
833.9737	763.0116	491.666	575.582	0.583014062	0.003943	0.023176	Tigd2
1164.24	1113.319	833.052	786.547	0.491067325	0.003966	0.023285	Wrap73
754.0036	641.7854	438.677	479.245	0.605173783	0.003969	0.023296	Fam234b
8433.208	7497.302	6196.21	5513.15	0.443842867	0.004051	0.023705	Ddx21
411.2747	306.6308	224.116	156.09	0.911327499	0.004064	0.023772	Cdh23

4056.664	3497.731	2846.62	2637.68	0.46155802	0.004082	0.023851	Wbp11
1210.975	894.9341	707.964	634.116	0.648512147	0.00409	0.023881	Hmgb3
2041.833	1704.297	1348.17	1286.52	0.507123804	0.004091	0.023881	Noc4l
1381.301	1286.245	985.938	921.907	0.482711891	0.004094	0.023891	Fam133b
1260.827	953.7645	777.457	571.924	0.712385634	0.004121	0.024014	Med16
1135.16	1090.144	820.022	754.842	0.497735731	0.004133	0.024062	Zfp444
208.7531	185.4047	112.927	89.0201	0.958945801	0.004137	0.024078	Lhpp
2512.307	2462.852	1861.55	1871.86	0.414240657	0.004144	0.024099	Uri1
3022.246	2903.188	2254.19	2205.99	0.409619662	0.004154	0.024126	Tcf20
1077	947.5249	735.761	635.335	0.560434795	0.004156	0.024126	Wdr4
95.54866	88.2455	32.1407	40.242	1.350688094	0.004175	0.024213	Col27a1
4398.354	3921.131	3187.14	2948.64	0.438834648	0.0042	0.024346	Smarcd2
124.6287	97.15918	52.12	35.3641	1.331016045	0.004207	0.024363	Epha2
1505.93	1252.373	963.352	951.174	0.526250118	0.004207	0.024363	Tubgcp2
7736.326	8006.273	6222.27	5771.67	0.392218892	0.004218	0.024417	Tpr
1535.01	1517.109	1099.73	1135.31	0.44977306	0.004221	0.024427	2410002F23Rik
5630.101	5081.693	4160.92	3762.01	0.434713345	0.004228	0.024457	Zmat3
2586.045	2207.029	1672.18	1766.99	0.478926295	0.004235	0.024479	Hspa14
613.7963	609.6962	413.486	413.395	0.565219222	0.004267	0.024631	Bhlhb9
663.6478	445.6843	338.78	298.766	0.796755811	0.00428	0.024687	Mecr
3573.728	3228.537	2639.01	2170.63	0.49928386	0.004281	0.024687	Chtf8
1903.703	1623.182	1294.31	1192.63	0.503145864	0.004281	0.024687	Cstf2
4258.147	3733.943	2809.27	3046.19	0.44893467	0.00429	0.02473	Cpsf1
1212.014	1035.77	707.095	818.253	0.560247925	0.004329	0.024909	Zfp362
455.9333	532.1471	322.276	308.522	0.647452384	0.004335	0.024932	Atp9a
1925.513	1931.596	1429.83	1438.95	0.427141384	0.004351	0.024999	Gng2
3325.509	2839.901	2345.4	1982.83	0.509606505	0.004361	0.025023	Ranbp3
72.70007	82.00592	32.1407	17.0723	1.635127372	0.004374	0.025072	Fam110b
4477.286	3565.475	2931.75	2721.82	0.508114587	0.004393	0.025148	Mogs
7283.508	6678.134	5392.69	5200.97	0.398105852	0.00442	0.025289	Map4
445.5476	327.1323	209.349	235.354	0.79759278	0.00442	0.025289	Fam83d
142.2844	152.424	78.1801	62.1921	1.064710231	0.004435	0.025346	Acot2
749.8493	558.8882	423.91	387.786	0.687333583	0.004447	0.025381	Sars2
1538.126	2022.516	1031.98	1281.65	0.623353462	0.004453	0.025404	Ptgfrn
6167.043	5026.428	3497.26	4248.58	0.531426431	0.004469	0.025449	Smc4
1025.071	923.4579	560.291	719.477	0.608448394	0.00447	0.02545	Urb1
1264.981	1052.706	799.174	797.522	0.537080669	0.00448	0.025494	Polrmt
3631.888	3805.253	2923.07	2551.1	0.441629474	0.004503	0.025593	Tmem109
5197.016	4779.519	3796.95	3760.79	0.400456909	0.004516	0.025647	Paics
386.3489	321.7841	211.955	214.624	0.730543616	0.004526	0.025693	Asfla
3383.669	2994.107	2463.54	1981.61	0.519932256	0.00453	0.025703	Slc35a4
5339.301	4558.459	3667.51	3610.8	0.443306378	0.004542	0.025733	Gspt1
1362.607	1308.529	1008.52	890.201	0.491174454	0.004577	0.025897	Phtfl
541.0962	463.5117	330.094	313.399	0.641144804	0.004581	0.025897	Dtd1
645.992	576.7155	423.91	381.689	0.599985357	0.004582	0.025897	Cobll1

2673.285	2241.792	1652.21	1830.4	0.497288409	0.004584	0.025897	Med14
3666.161	2999.456	2476.57	2229.16	0.501732541	0.004586	0.025899	Ctcf
577.4463	570.4759	404.799	346.325	0.609553907	0.004604	0.025979	Mkl2
6883.658	6850.168	5469.13	4386.37	0.478319028	0.00464	0.026157	Hdac1
1508.007	1580.397	1162.28	1088.97	0.45568717	0.004688	0.026392	Ift140
1570.321	1433.321	1109.29	1064.58	0.465834487	0.004723	0.026533	Zfp664
61.27577	47.24254	18.242	8.53617	1.992769198	0.004731	0.02656	Prdm8
630.4135	526.7989	391.769	351.203	0.63710204	0.00474	0.026598	Tns1
1315.871	1093.709	879.092	730.453	0.580312564	0.004745	0.026604	Mcrs1
1380.263	1616.943	1119.71	880.445	0.582315776	0.004746	0.026604	Rfc3
8570.3	6671.003	5635.05	4994.88	0.519571513	0.004747	0.026604	Ptprcap
139.1687	104.2901	59.9381	34.1447	1.358169835	0.004762	0.026675	Xylb
7122.53	5124.478	4243.44	4030.29	0.565590194	0.004771	0.026703	Ssbp4
1671.063	1621.4	1265.65	1064.58	0.497387252	0.004778	0.026712	Llgl1
2405.334	1999.34	1654.81	1354.81	0.548292057	0.004848	0.027089	Letm1
1091.54	938.6112	730.549	662.163	0.542254157	0.004856	0.027119	Dis3
3222.69	2796.224	2312.39	1934.05	0.502392633	0.004861	0.027135	Banfl
1324.18	1329.031	1007.65	878.006	0.491436031	0.004866	0.027156	Dalrd3
490.2062	439.4448	297.953	302.424	0.630539143	0.004868	0.02716	Qtrt2
561.8677	430.5311	324.882	271.938	0.730464133	0.004894	0.027274	Dhodh
876.5551	798.6663	613.279	497.537	0.590249061	0.004926	0.027426	Chchd4
1007.415	787.0785	491.666	635.335	0.672607402	0.004947	0.027514	Ccdc61
1082.192	1071.425	806.123	575.582	0.637858699	0.004947	0.027514	Zdhhc2
2640.051	2295.274	1864.16	1701.14	0.468413092	0.00495	0.027521	Lrba
397.7732	295.9344	158.097	219.502	0.880991592	0.004975	0.02764	4933404O12Rik
3471.948	3461.185	2740.65	2248.67	0.473934671	0.004989	0.027699	Gabpb2
63.35292	49.91665	18.242	3.65836	2.330042236	0.005031	0.027888	B3galt5
34.27289	15.15327	2.606	2.43891	3.284957941	0.005037	0.027906	Gm6257
2041.833	1717.667	1385.52	1275.55	0.497694336	0.005061	0.028032	Atp5g1
3664.083	3303.412	2647.7	2565.73	0.418117841	0.005102	0.028212	Tcerg1
19.73288	15.15327	0.86867	0	5.112926627	0.005102	0.028212	Gabra4
516.1705	403.79	304.034	176.821	0.930313469	0.005107	0.028229	Ank
392.5804	377.9403	259.732	212.185	0.703693705	0.005163	0.028489	Thg1l
906.6737	828.9729	639.339	518.268	0.581906614	0.005202	0.028692	Ydjc
18981.99	16632.94	13970.8	12525	0.426591158	0.005241	0.028867	Eif4g1
5216.749	4523.696	3695.31	3531.54	0.430346174	0.005249	0.028879	Got2
104.8958	88.2455	39.9587	40.242	1.267136085	0.00525	0.028879	Wfikkn1
3654.736	3164.359	2526.09	2507.2	0.43785878	0.005255	0.028884	Kmt5a
606.5263	563.345	409.142	241.452	0.841878871	0.005257	0.02889	Hpcal4
2397.025	2250.706	1809.43	1402.37	0.531923869	0.005262	0.028904	Arpp19
386.3489	305.7395	218.904	182.918	0.780520797	0.005283	0.028992	Psmc3ip
9.347152	14.2619	0	0	5.963885631	0.005294	1	H19
3860.374	3624.305	2943.91	2630.36	0.424619656	0.0053	0.029063	Map3k7
579.5234	465.2944	354.416	284.133	0.706892786	0.005304	0.029079	Faap24
1142.43	892.26	728.812	565.826	0.64990396	0.005306	0.029079	Urm1

61.27577	96.26782	29.5347	24.3891	1.543439574	0.00533	0.02918	Hmgb1-ps8
1154.893	1072.317	811.335	785.328	0.4795676	0.005343	0.029231	Cenpt
714.5378	535.7126	410.88	369.494	0.677927685	0.005386	0.029433	Cep128
3074.174	2894.274	2294.15	2213.31	0.404738547	0.005387	0.029433	Prr12
899.4037	767.4684	567.24	573.143	0.547193502	0.005402	0.029491	Pimreg
1690.796	1480.563	1001.57	1202.38	0.525953071	0.005409	0.029511	Ttf2
1009.492	968.9177	740.105	536.559	0.629343873	0.005422	0.029572	Lsm7
298.0703	237.1041	162.441	134.14	0.847025892	0.005429	0.0296	Plekha8
1230.708	1163.236	894.728	824.35	0.476738036	0.005507	0.029986	Yeats4
675.0721	490.2528	368.315	348.764	0.698942062	0.005529	0.030065	Dohh
643.9149	853.9312	110.321	12.1945	3.607850654	0.005534	0.030071	Il2
1923.436	1882.571	1480.21	1275.55	0.46478369	0.005545	0.03011	Wdr3
1287.83	1169.476	175.471	18.2918	3.66218774	0.005552	0.030137	Shtn1
1431.153	1076.773	746.185	887.762	0.618738218	0.005569	0.030222	Cep55
1084.27	883.3463	689.722	645.091	0.55859901	0.005599	0.030366	Gtf3c5
340.6518	225.5163	163.309	130.482	0.941676193	0.005617	0.030439	Caskin2
20.77145	14.2619	0	1.21945	5.057954823	0.005626	0.030458	Gm10344
1135.16	999.2243	767.033	738.989	0.502281298	0.00567	0.030664	Papd7
21343.7	18566.32	15318.1	14873.7	0.402535614	0.005683	0.030726	Hnrnpu
529.6719	439.4448	313.589	306.083	0.64399159	0.005687	0.030736	Akr7a5
1205.783	1145.409	892.99	735.33	0.528183092	0.005708	0.030831	Camsap1
5281.141	4162.692	3336.55	3396.18	0.488046741	0.005731	0.030932	Gm6793
11652.78	10723.17	8863.01	8232.53	0.388171879	0.005742	0.030971	Fus
719.7307	575.8242	438.677	401.2	0.62348523	0.005749	0.030989	Pycrl
1764.535	1524.24	1210.92	1152.38	0.476042146	0.005751	0.030989	Bysl
5470.161	4890.94	4058.41	3643.73	0.427440049	0.005776	0.031092	Dynll2
5041.231	4144.864	3488.57	3085.22	0.482252486	0.005806	0.031245	Lrrc59
51.92862	29.41517	10.424	6.09727	2.276380324	0.005864	0.031536	Six4
113.2044	78.44044	40.8274	34.1447	1.347276566	0.005867	0.031538	Nhsl1
61.27577	57.93896	19.1107	2.43891	2.425468257	0.005892	0.031632	Slc6a17
121.513	156.8809	66.0187	17.0723	1.72712746	0.005918	0.031761	Cacna1c
21262.69	19337.35	16218	12111.6	0.51900334	0.005933	0.031823	Hsp90aa1
364.5389	338.7201	225.854	214.624	0.673607904	0.00594	0.031846	Wdsub1
1726.107	1694.492	1329.93	1048.73	0.522631304	0.005942	0.031846	Morc2a
205.6373	278.107	136.381	126.823	0.878091722	0.005958	0.031926	Rims3
1242.133	1009.029	815.679	701.186	0.56788253	0.005964	0.031946	Zfp282
138.1301	134.5967	72.9681	34.1447	1.334082082	0.005968	0.031946	Ica1
40.50432	26.74106	7.81801	3.65836	2.516488288	0.005991	0.032045	Col5a2
1404.15	1131.147	922.525	791.425	0.563272243	0.005997	0.032069	Aifm1
4735.89	4401.578	3631.03	2870.59	0.490346345	0.006009	0.032123	Nop56
418.5447	441.2275	297.953	199.99	0.783176659	0.006029	0.032207	Rab23
3020.169	2970.04	2291.54	2290.13	0.386695215	0.00604	0.032241	Naa15
746.7336	498.2751	407.405	301.205	0.809750076	0.006041	0.032241	Gm4617
2005.483	1966.359	1544.49	1393.84	0.434041582	0.006041	0.032241	Josd1
3439.752	2937.951	2448.77	2147.46	0.471894578	0.006053	0.032296	Ddx54



10013.92	10334.53	8217.59	7077.71	0.411617349	0.006062	0.032321	Dock2
117.3587	87.35413	48.6454	24.3891	1.470405271	0.006064	0.032322	Tcf7l1
979.3738	883.3463	681.904	619.482	0.515931246	0.006079	0.032387	Thap7
2078.183	1452.931	1045.88	1229.21	0.634478304	0.006094	0.03245	Selenoh
1990.943	1624.074	1282.15	1279.21	0.496697085	0.006152	0.032689	Nup107
657.4163	495.601	328.356	386.567	0.69054249	0.006153	0.032689	Slc9b2
313.6489	261.171	134.643	185.357	0.849545182	0.006183	0.032816	Rps3a3
111.1272	93.59371	42.5647	46.3392	1.204723875	0.006198	0.032884	Dixdc1
420.6218	391.3108	238.015	276.816	0.659496121	0.006205	0.032899	Ccdc85c
1179.818	1082.122	418.698	134.14	2.030846108	0.00621	0.032911	Cxcr3
336.4975	347.6338	217.167	213.404	0.66785765	0.006218	0.032942	Nup43
838.1279	777.2735	556.816	578.021	0.509595209	0.006241	0.033028	Enkd1
2129.073	1839.785	1477.6	1408.47	0.459018314	0.006241	0.033028	No19
2304.592	1946.749	1620.93	1341.4	0.520020225	0.006243	0.033028	Nubp2
7.270007	16.04464	0	0	5.946874164	0.006246	1	Rtl1
1504.891	1386.078	1106.68	951.174	0.489019821	0.006279	0.033181	Dgcr8
7628.314	7049.835	5880.01	4879.03	0.447737912	0.006312	0.033299	Cct3
118.3973	106.0729	54.7261	46.3392	1.146017285	0.006335	0.033378	4933440N22Rik
2044.949	1934.27	1556.65	1253.6	0.500502765	0.006341	0.033397	Clcn3
1326.257	1095.492	866.061	823.131	0.518797785	0.006431	0.033819	Rbmx
325.0732	341.3942	224.116	165.846	0.768524043	0.006451	0.0339	Fndc9
5118.085	4239.349	3566.75	3213.26	0.464395373	0.006472	0.033988	Dazap1
92.43295	76.65771	32.1407	35.3641	1.326503201	0.006527	0.034246	Kcnb1
4049.394	4024.53	3212.33	2946.2	0.390318214	0.006532	0.034259	Belaf1
2021.062	2142.85	1587.92	1540.17	0.412570713	0.00655	0.034332	Slc20a1
1827.887	1858.504	1430.7	1304.82	0.429737768	0.006561	0.034377	Btaf1
2950.584	2510.986	2053.53	1941.37	0.45065079	0.006598	0.034514	Dnajb1
994.9524	879.7809	644.551	675.577	0.506114084	0.006602	0.034528	Wdr12
4075.358	3832.885	3076.82	2985.22	0.383335848	0.00662	0.034596	Slc7a1
1219.284	1055.381	761.821	838.984	0.507346082	0.006623	0.0346	Polh
5127.432	4700.187	3890.76	3510.81	0.408603827	0.006679	0.034847	Psm7
2686.787	2239.118	1884.14	1552.36	0.518417934	0.006681	0.034847	Snu13
1783.229	1813.935	1406.37	1057.27	0.544609638	0.006735	0.035105	Ube3c
2309.785	2527.922	1777.29	1851.13	0.415406152	0.006743	0.035136	Relb
6098.497	5510.441	4253	4559.54	0.397709917	0.006745	0.035136	Gtf3c1
712.4607	683.6798	509.908	446.32	0.544077504	0.006758	0.035187	Rev1
4375.506	3585.085	2936.1	2865.72	0.456099295	0.006765	0.035205	Nans
652.2235	451.0325	291.872	360.958	0.758177276	0.006769	0.035209	Mis18bp1
2393.909	2248.923	1818.99	1614.56	0.434486047	0.006773	0.035209	Ube2o
437.239	424.2915	284.923	281.694	0.604162469	0.006774	0.035209	Slc22a15
2680.555	2790.875	2167.33	1885.27	0.43243107	0.006805	0.035349	Zfp609
1716.76	1621.4	1247.41	1242.62	0.422700577	0.006837	0.035483	Impa1
5532.475	5040.69	4180.9	3805.91	0.404352546	0.006838	0.035483	Eif3l
12074.44	10359.49	8757.04	7983.76	0.422132916	0.006844	0.035494	Set
526.5562	336.9374	259.732	225.599	0.828408557	0.006902	0.035745	Arhgap10

354.1532	337.8287	224.985	212.185	0.661143674	0.006915	0.0358	Npdc1
431.0076	379.7231	254.52	265.841	0.639839179	0.006947	0.035957	Lin9
898.3651	769.2512	614.148	469.49	0.619086544	0.006963	0.036019	Mrpl49
1312.756	1161.453	911.232	868.251	0.474696057	0.006987	0.03613	Mrps26
2189.311	1928.922	1565.34	1457.25	0.445538777	0.007008	0.036224	Sh3bgrl
36.35003	21.39285	5.212	0	3.373043409	0.007027	0.036292	Gm44169
2172.693	1821.066	1529.72	1190.19	0.552815164	0.007029	0.036292	Imp4
2445.838	2066.193	1669.58	813.375	0.86020906	0.00703	0.036292	Gfod1
160.9787	148.8586	85.1294	74.3867	0.953996487	0.007075	0.03648	Ctnnbip1
811.1251	581.1724	447.364	432.906	0.660240813	0.007096	0.036553	Cby1
341.6903	263.8451	192.844	146.334	0.830844342	0.007145	0.03676	Trim65
1303.408	1168.584	922.525	857.276	0.472947391	0.007163	0.03684	2810004N23Rik
7.270007	28.5238	0.86867	0	5.158548887	0.007189	0.036947	Ighv1-22
2839.457	2499.398	1978.82	2006	0.421870985	0.007228	0.037139	Smc6
1282.637	1074.991	831.315	834.106	0.500997937	0.007237	0.037173	Tfam
356.2303	336.046	224.985	213.404	0.657792765	0.007242	0.037183	Fastkd2
2191.388	1891.484	1491.5	1506.02	0.445581459	0.007244	0.037183	Cbx1
15.57859	16.936	0	1.21945	4.950750726	0.007267	0.037266	Ankrd34b
947.178	1079.447	727.943	713.38	0.491898829	0.00728	0.037299	Dexi
1020.917	1017.052	703.621	767.036	0.471642206	0.007289	0.037331	Cep57
3798.059	3216.058	2700.69	2413.3	0.455230996	0.007302	0.037372	Puf60
720.7693	694.3762	523.806	362.178	0.672117789	0.007323	0.037468	Grk5
16.61716	6.239581	0	0	5.912583029	0.007329	1	Kcnv1
6229.357	5299.187	4458	4092.49	0.430808186	0.007336	0.037526	Pa2g4
2629.665	2538.618	1911.94	2020.63	0.394481319	0.00736	0.037604	Sec24b
1741.686	1459.171	1212.66	1006.05	0.527289125	0.007361	0.037604	Oat
1839.312	2096.499	1519.3	1307.25	0.47697577	0.007367	0.037622	Zfp512b
270.0288	231.7559	158.966	121.945	0.831317026	0.007414	0.037827	Gm7730
881.748	631.089	388.294	526.804	0.726925899	0.007437	0.037909	Ckap2
36.35003	56.15623	13.8987	2.43891	2.457406966	0.007457	0.038001	Sema3c
2875.807	2690.151	2044.84	2175.5	0.399492071	0.007523	0.038285	Stk39
476.7047	522.342	352.679	301.205	0.609544081	0.007527	0.03829	Hyal2
359.3461	348.5251	233.672	109.751	1.036309904	0.007588	0.038583	Hmgn3
1447.77	1306.746	1030.24	982.879	0.451651329	0.007601	0.038624	Ccne1
1622.25	1525.132	1193.55	1148.72	0.425735601	0.007609	0.038637	Cstfl
3580.998	3347.981	2632.93	2685.24	0.381702575	0.007652	0.038807	Srsf10
333.3817	294.1517	194.582	193.893	0.691122622	0.007658	0.038825	Cenpk
1912.012	1780.063	1448.94	1171.89	0.493049705	0.00766	0.038826	Ppp1r8
3018.091	2766.808	2286.33	1632.85	0.560656673	0.007677	0.038897	Dynll1
9178.903	9370.959	7553.06	6509.44	0.39931849	0.007682	0.038914	Sptan1
20.77145	22.28422	0.86867	3.65836	3.326514044	0.007722	0.0391	Egfros
849.5522	773.708	602.855	387.786	0.709074437	0.007737	0.039153	Nfyc
5384.998	4550.437	3867.31	3404.71	0.44977328	0.007746	0.039184	Upf1
191.0973	171.1428	100.765	97.5563	0.86766803	0.00777	0.039281	Mdk
677.1492	427.857	275.368	353.641	0.814112144	0.007781	0.039328	Parpbp

2165.423	2003.797	1630.49	1451.15	0.435188612	0.007814	0.039474	Carm1
1450.886	1317.443	1070.2	841.423	0.532398348	0.007826	0.039505	Noct
2700.288	3006.587	1959.71	2247.45	0.440624457	0.007836	0.039541	Grap2
413.3518	342.2856	224.985	247.549	0.677994808	0.007847	0.039584	Scrn2
1311.717	1284.462	978.988	945.076	0.431803795	0.007889	0.039763	Ctdp1
137.0916	174.7083	88.6041	49.9976	1.160155312	0.007944	0.039998	Ciita
3377.438	3106.42	2586.02	2058.44	0.480472024	0.007948	0.039998	Rnf126
2576.698	2034.995	1731.25	1479.2	0.521564168	0.007949	0.039998	Snrpa
1111.272	881.5636	641.077	713.38	0.557449741	0.007973	0.040085	Larp1b
1893.318	1914.66	1483.68	1382.86	0.409202212	0.007979	0.0401	Xpo5
3394.055	3639.458	2545.2	2791.33	0.398843041	0.007988	0.040135	Sema4a
2032.486	1903.963	1553.18	1249.94	0.488568241	0.008032	0.040339	Hras
96.58723	81.11455	40.8274	13.414	1.689343972	0.008034	0.040339	Nsg1
528.6334	496.4923	362.234	324.375	0.576209501	0.008113	0.040662	Qsox2
15187.04	13407.97	11048.6	10969	0.37705254	0.008135	0.04076	Prpf8
1069.73	984.071	754.872	731.672	0.46568826	0.008159	0.040854	Polr3b
52.96719	48.13391	18.242	6.09727	2.022057554	0.008209	0.041051	Scn3b
533.8262	574.9328	398.718	236.574	0.799091678	0.008235	0.041171	Iba57
60.2372	108.747	35.6154	20.7307	1.574004322	0.00824	0.041184	Arhgef19
1174.625	1107.08	818.285	853.617	0.448875038	0.008254	0.041224	Capn15
513.0548	410.0296	290.135	301.205	0.642096691	0.008273	0.041297	Akip1
267.9517	237.1041	145.936	154.871	0.748157333	0.008295	0.041358	Tango6
1632.636	986.7451	874.748	679.235	0.751694323	0.008299	0.041358	DHR SX
19.73288	11.58779	0.86867	0	4.958195107	0.008301	0.041358	Ighv8-12
1520.47	1392.318	1043.27	1106.04	0.438792018	0.008312	0.041401	Cdca7l
729.0778	947.5249	596.775	304.863	0.891961008	0.008338	0.041493	Fscn1
36.35003	27.63243	7.81801	1.21945	2.761098218	0.008349	0.041535	Adad1
467.3576	369.0266	220.642	285.352	0.727631806	0.008363	0.041589	Depdc1a
32.19574	22.28422	4.34334	4.87781	2.566524893	0.008367	0.041596	S100a2
1695.989	1556.33	1251.75	1148.72	0.437257123	0.008381	0.041611	Rrn3
2585.007	2034.995	1752.1	1406.03	0.547715063	0.008383	0.041611	Tbfg4
4048.355	3494.165	2924.8	2692.55	0.42469126	0.008383	0.041611	Bcor
1780.113	1590.202	1289.97	1184.09	0.445108231	0.008385	0.041611	Pum3
1613.942	1580.397	1222.22	1179.21	0.411246014	0.008397	0.041656	Tmem87a
2318.094	3257.061	2034.42	1665.77	0.591116963	0.008412	0.041703	Tspan3
778.9293	710.4208	399.587	558.51	0.639262838	0.008423	0.04175	Plekha7
7819.412	7156.799	5955.58	5599.73	0.37391213	0.008431	0.041776	Sf3b2
1269.135	1043.793	806.123	824.35	0.504108897	0.008467	0.041912	Haus6
13027.85	13220.78	10517.8	10264.1	0.336879973	0.008471	0.041921	Zc3h12d
5054.732	4539.741	3846.46	3131.56	0.458798395	0.00852	0.042126	Dctn1
11537.5	10950.46	9155.76	6902.11	0.485588471	0.008539	0.042178	Tfrc
4856.365	4389.991	3706.6	3102.29	0.440891756	0.008546	0.042191	Jpt1
735.3093	690.8107	500.352	507.293	0.501029965	0.00855	0.042197	Klhl42
1165.278	996.5502	768.771	773.133	0.487122574	0.008553	0.042198	Cep295
2361.714	2113.435	1739.94	1577.97	0.430881928	0.008586	0.04231	Gpr174

889.018	750.5324	595.906	528.023	0.542903466	0.008592	0.042324	Mrps2
951.3323	869.9758	640.208	667.041	0.478598909	0.008622	0.042449	Rpa3
1025.071	1035.77	762.69	748.744	0.447135698	0.008627	0.042456	Eef1e1
9.347152	35.65475	2.606	0	3.996380464	0.008631	0.042467	Cdhr1
43.62004	12.47916	1.73733	4.87781	3.126185144	0.00864	0.042494	Capn11
555.6362	553.5399	363.103	397.542	0.545594894	0.008651	0.04252	Enox2
1467.503	1244.351	948.585	1001.17	0.476010985	0.008672	0.042589	Ccp110
1056.228	910.9788	689.722	708.502	0.492357107	0.008678	0.042605	Nubp1
89.31723	81.11455	38.2214	32.9252	1.255306328	0.008701	0.042705	Masp2
829.8194	593.6515	494.272	380.469	0.699584813	0.008726	0.042814	Mrpl54
661.5706	538.3867	403.062	397.542	0.582861055	0.008739	0.042866	Cox10
2596.431	2356.779	1805.96	1926.74	0.408339774	0.008803	0.043112	Ptges3
576.4077	419.8346	295.347	324.375	0.684973464	0.008819	0.04316	Poc1a
2830.11	2662.518	2163.85	2019.41	0.392372275	0.00882	0.04316	Immt
594.0634	454.598	334.437	339.008	0.638125395	0.008824	0.043166	Enoph1
30.1186	18.71874	3.47467	3.65836	2.775682437	0.008909	0.043516	Efcab5
3820.908	3692.94	2304.57	3036.44	0.493167272	0.008926	0.043584	Celsr1
8382.318	7658.64	6376.89	6047.27	0.368436417	0.00893	0.043584	Cnot1
620.0277	480.4477	359.628	354.861	0.622051843	0.008931	0.043584	Pak4
253.4117	197.8838	119.876	134.14	0.830128868	0.008935	0.043589	Slc5a6
3314.085	2905.862	2435.74	2185.26	0.428062648	0.008943	0.043616	Prep
7398.79	6734.29	5721.91	4704.65	0.438411049	0.009027	0.043997	Ubtf
598.2177	502.7319	396.112	286.572	0.685433072	0.00903	0.043999	Setdb2
617.9506	519.6679	363.103	397.542	0.581267406	0.009068	0.044146	Fanci
7392.558	6838.58	5684.56	5353.4	0.366371218	0.009087	0.044224	Dhx9
5932.326	5004.144	3904.66	4246.14	0.424207809	0.009133	0.044408	Ncaph2
1583.823	1314.769	1026.76	1056.05	0.476602037	0.009133	0.044408	Nup160
3926.842	3280.237	2687.66	2666.94	0.428402506	0.009143	0.044442	Bub3
54.00577	35.65475	13.8987	9.75563	1.907486265	0.009157	0.044495	1700113A16Rik
1375.07	1151.648	794.831	958.49	0.52814545	0.009179	0.044591	Pspc1
3852.065	3548.539	2974.32	2508.42	0.432068195	0.00921	0.044712	Top1
420.6218	352.0906	251.914	241.452	0.645711173	0.009241	0.044822	Ska1
1788.422	1723.907	1382.05	1229.21	0.426726232	0.009247	0.044825	Nob1
276.2603	254.0401	171.127	147.554	0.731264523	0.009277	0.044956	Usp49
324.0346	355.6561	194.582	231.696	0.676637455	0.009279	0.044956	Slc2a4rg-ps
797.6236	669.4179	500.352	512.17	0.534601982	0.009297	0.045012	Mlh1
111.1272	22.28422	17.3733	2.43891	2.716471867	0.009301	0.045021	Car1
2537.232	2036.777	1532.33	1726.75	0.489237332	0.009312	0.04504	Ctc1
186.943	179.1651	107.715	96.3368	0.840459945	0.009313	0.04504	Fzd5
4390.046	3577.062	2842.28	3008.39	0.44543356	0.009319	0.045054	Cbfb
38.42718	30.30653	9.55534	2.43891	2.470468926	0.009342	0.045151	Gm6091
824.6265	689.028	477.767	551.193	0.557831964	0.009358	0.045199	Dcaf4
1904.742	1668.642	1342.96	1304.82	0.432006723	0.00939	0.045317	Cnot10
294.9546	240.6695	151.148	167.065	0.752097255	0.009429	0.045422	Ttbk2
2351.328	2088.477	1738.2	1532.85	0.439834431	0.00945	0.045468	Cnot9

1145.545	1024.183	773.114	802.4	0.461712972	0.009482	0.04558	Abracl
1682.487	1496.608	1118.84	1220.67	0.442788454	0.009631	0.046203	Etfa
5045.385	4783.084	3951.57	3657.14	0.368993345	0.009664	0.046319	Rad23b
16620.27	21096.02	14832.5	9183.7	0.651038867	0.009689	0.046427	Rnf19b
2219.429	2067.975	1707.8	1412.13	0.457460487	0.009699	0.046458	Sms
3564.381	4842.806	3204.51	1851.13	0.733135466	0.009712	0.046494	Il21
2522.692	2164.243	1836.36	1526.76	0.477794818	0.009742	0.046611	Snrpd3
1685.603	1358.446	1076.28	1096.29	0.486270037	0.009762	0.046665	Gfm1
63.35292	90.9196	33.878	10.9751	1.759944388	0.009797	0.046775	Pik3r3
2532.04	2307.753	1920.62	1663.33	0.432492918	0.009811	0.04683	Ascc2
10.38572	9.805055	0	0	5.73651845	0.00986	1	Togaram2
580.562	566.0191	424.778	328.033	0.603680179	0.009881	0.047121	Myo19
886.9408	833.4297	534.231	658.505	0.530398845	0.009932	0.047278	Gm5424
55.04434	34.76338	11.2927	13.414	1.865746072	0.009948	0.047343	Scn4b
4094.052	3388.092	2733.7	2820.6	0.429753546	0.009968	0.047408	Spn
2372.099	1563.461	1385.52	1142.63	0.637456236	0.009987	0.047472	Ripk3
39.46575	43.67706	13.8987	4.87781	2.113008912	0.009991	0.047477	Tfcp2l1
5317.491	4922.138	4113.14	3766.89	0.377539739	0.010004	0.047512	Pabpc4
994.9524	1042.01	778.326	697.527	0.463841793	0.010027	0.047565	Fbxo45
64.39149	38.32885	18.242	8.53617	1.914708146	0.010065	0.047687	Cdr2l
617.9506	478.665	318.801	382.908	0.645421332	0.010103	0.04784	Tnfaip8l1
2519.577	1961.902	1692.16	1435.3	0.518001561	0.010131	0.047945	Glrx5
267.9517	215.7112	132.906	148.773	0.781035327	0.010146	0.048002	Rap1gap
1052.074	935.9371	747.923	671.919	0.484121758	0.010151	0.048011	Gtf3c4
640.7992	582.0637	451.707	365.836	0.57792807	0.010154	0.048011	Lclat1
2193.465	1893.267	1442.86	1573.09	0.43857325	0.010179	0.048088	Sephs1
8552.644	7477.692	6325.64	5939.96	0.385985916	0.010187	0.048109	Hnrnpf
955.4866	850.3657	677.561	598.752	0.498987275	0.010213	0.048189	Zbtb40
2589.161	2461.96	2026.6	1748.7	0.419165181	0.010242	0.048301	Wdr43
934.7152	957.3299	689.722	698.747	0.446705647	0.010247	0.048309	Gtf2e1
233.6788	175.5996	112.927	113.409	0.853253054	0.010274	0.048399	Klf11
4283.073	3601.129	2973.45	2938.88	0.415011857	0.010327	0.048616	Baz1a
2451.031	2142.85	1673.92	1765.77	0.417495515	0.010346	0.048674	Wrnip1
16.61716	12.47916	0.86867	0	4.853357621	0.010361	0.048704	Sohlh1
635.6063	939.5026	259.732	551.193	0.961493016	0.010402	0.048853	Eomes
417.5061	406.4641	289.266	253.646	0.599485785	0.010463	0.049081	Nkrf
1348.067	1351.315	1063.25	896.298	0.460720258	0.010513	0.049276	Stk35
1460.233	1357.554	1108.42	903.615	0.484276377	0.010516	0.049276	Sufu
1925.513	1817.501	1406.37	1443.83	0.393192426	0.010544	0.049363	Ankrd10
367.6546	254.0401	200.662	106.092	1.011718232	0.010583	0.04953	Mctp1
864.0923	730.0309	536.837	576.801	0.517718395	0.010605	0.049606	Chd11
1114.388	1007.247	820.891	632.896	0.543079866	0.010617	0.049647	AI662270
145.4001	113.2038	72.0994	40.242	1.190327325	0.010631	0.049681	Acer2
1147.623	1007.247	765.296	797.522	0.463454558	0.010634	0.049681	Nmd3
3858.297	3497.731	2803.19	2866.93	0.375505377	0.010646	0.049723	Ddx46

6.231435	14.2619	0	0	5.760899256	0.010681	1	Ppp1r1b
1506.969	1479.672	1185.73	886.543	0.52556737	0.010773	0.050273	Zbtb18
1901.626	1910.203	1523.64	1308.47	0.427617064	0.010776	0.050275	Dnajc11
105.9344	158.6636	59.9381	65.8505	1.076865702	0.010782	0.050285	Gm26740
1502.814	1275.549	1040.66	975.563	0.461667666	0.010803	0.050372	Zfp142
214.9845	203.2321	132.906	103.654	0.81662878	0.010817	0.050408	Pard6b
2096.878	1776.498	1500.19	1302.38	0.465771332	0.010829	0.050446	Uqcr10
229.5245	179.1651	125.088	96.3368	0.878057822	0.010904	0.050736	Mrm3
1736.493	1487.694	1192.68	1184.09	0.439521698	0.010912	0.05076	Ppip5k2
1066.614	790.644	481.242	682.894	0.675611105	0.010929	0.050811	Prr11
523.4405	390.4195	309.246	257.305	0.686495557	0.010962	0.05095	3110082I17Rik
698.9592	576.7155	467.343	280.474	0.766324444	0.010975	0.050995	Ccne2
2015.869	1526.023	1195.29	1282.86	0.515195289	0.010997	0.051066	Mtf2
238.8717	261.171	165.915	121.945	0.791576576	0.011063	0.051325	Glce
146.4387	106.9642	69.4934	41.4614	1.179685344	0.011065	0.051325	Eldr
1009.492	961.7868	754.003	678.016	0.459741087	0.011097	0.051427	Sptssa
6536.775	5765.373	4947.93	4331.5	0.406420725	0.011128	0.051545	Trim8
3677.585	3157.228	2651.17	2495	0.408972631	0.011145	0.051608	Adam10
2653.553	2239.118	1845.92	1795.04	0.425889434	0.011156	0.051644	Wiz
68.54578	113.2038	27.7974	42.6809	1.378974471	0.011165	0.051669	Kcnh2
491.2448	418.0519	310.983	291.449	0.592201145	0.011181	0.051715	Taf4b
2981.741	2674.997	2223.79	2074.29	0.395755473	0.011201	0.051792	Nab2
182.7887	155.0981	101.634	75.6061	0.923748657	0.011218	0.051841	Slc25a26
2339.904	2665.192	1230.9	513.39	1.520080835	0.011226	0.051865	Lta
6181.583	5902.643	4894.07	4576.61	0.351347696	0.01129	0.052112	Kars
1194.358	1087.47	887.778	725.575	0.49821647	0.011299	0.052126	Prpf3
8144.485	7171.952	6031.16	5798.5	0.372506388	0.011299	0.052126	Ewsr1
719.7307	706.8554	483.848	532.901	0.48983931	0.011309	0.052158	Rad1
1209.937	992.0933	820.022	725.575	0.509155942	0.011332	0.052247	Wdr55
5595.828	5395.455	4515.33	3736.4	0.413111154	0.011364	0.052353	Etf1
1790.499	2252.489	1379.44	1519.44	0.480755868	0.011394	0.052445	Timm23
1315.871	1255.047	1004.18	890.201	0.43932582	0.011399	0.052451	Pop1
2030.409	1676.664	1405.5	1286.52	0.460724624	0.011412	0.052494	Idh3a
7.270007	12.47916	0	0	5.706719181	0.011434	1	Rai2
790.3536	773.708	548.129	582.899	0.468392964	0.011458	0.052664	Slc39a11
442.4319	407.3555	297.953	267.06	0.586572028	0.011543	0.053009	Slfn3
503.7076	471.534	357.891	270.719	0.62970886	0.011568	0.053094	Armc6
5228.174	4657.401	4014.98	3065.71	0.480816408	0.011609	0.053267	Lpxn
394.6575	288.8034	217.167	195.113	0.726390256	0.011627	0.053319	Mrps28
38.42718	32.08927	10.424	6.09727	2.071615038	0.011639	0.053357	Ankrd34a
416.4675	384.1799	275.368	256.085	0.589527772	0.011647	0.05338	Hcn2
434.1233	373.4835	262.338	269.499	0.602383071	0.011739	0.05377	Tamm41
2836.341	2486.919	2078.72	1936.49	0.406267297	0.011755	0.053828	Mcmbp
330.266	495.601	272.762	118.287	1.073438837	0.011809	0.054025	Ppih
234.7174	182.7306	113.795	123.165	0.817247921	0.011811	0.054025	A430078G23Rik

2459.339	2315.776	1689.56	1918.2	0.405034407	0.011845	0.054088	Ii27ra
1475.811	1335.27	1098.86	956.051	0.450703528	0.011945	0.054493	Klhdc4
59.19863	1.782737	2.606	0	4.451456055	0.011947	0.054493	Igkv3-12
3582.036	3279.345	2786.69	2195.02	0.461033083	0.011963	0.054504	Psmc5
106.973	130.1398	66.0187	40.242	1.148115464	0.011983	0.05458	Khdrbs3
1282.637	1263.069	996.362	893.859	0.428439973	0.012018	0.054706	Pted3
797.6236	627.5235	526.413	353.641	0.691909752	0.012042	0.0548	Ammecr1
2989.011	2631.32	2129.1	2154.77	0.391590995	0.012083	0.054931	Git1
78.9315	58.83033	29.5347	21.9502	1.409625629	0.012084	0.054931	Vangl2
35.31146	14.2619	4.34334	2.43891	2.838734764	0.012094	0.054945	Olfrl57
1972.249	1731.929	1468.92	1171.89	0.486783845	0.012123	0.055043	Ppan
1360.53	1230.089	1017.21	830.448	0.485853272	0.012199	0.055338	Phf6
9904.865	8525.05	7170.85	7028.93	0.376068266	0.012294	0.055663	Anp32b
368.6932	377.9403	46.908	2.43891	3.911664593	0.012301	0.055682	Dpysl3
15468.5	12855.32	11401.3	9275.16	0.453825824	0.012309	0.055703	H3f3b
844.3594	618.6099	519.463	428.028	0.624266904	0.012495	0.056463	Cpped1
10720.14	9279.148	7450.56	7943.52	0.377598996	0.012618	0.056906	Sfl
62.31435	59.7217	26.9287	12.1945	1.619478876	0.012659	0.057047	Abat
2641.09	2391.542	2017.91	1746.26	0.418112065	0.012686	0.057134	Eed
1181.895	874.4327	751.397	614.604	0.58815942	0.012737	0.057301	Ap1s3
729.0778	755.8806	519.463	553.632	0.469661893	0.012749	0.057338	Rbbp8
1932.783	1668.642	1406.37	1237.75	0.444707725	0.012784	0.057455	Eif1ad
110.0887	79.33181	47.7767	30.4863	1.262903736	0.01282	0.057595	Gm14150
1451.924	1251.482	944.242	1034.1	0.450844772	0.012843	0.057666	Blmh
1438.423	1315.66	1072.8	971.904	0.428586936	0.012871	0.057757	Pfdn6
651.1849	468.8599	314.458	390.225	0.669788652	0.012919	0.057957	Gpsm2
3186.34	2780.179	2383.62	2053.56	0.426478045	0.013012	0.05831	Psmc2
3312.007	3313.217	2707.64	2368.18	0.383752728	0.013032	0.05837	Tob2
1074.922	857.4967	725.337	586.557	0.55657058	0.013033	0.05837	Zbtb45
1045.842	972.4832	785.275	662.163	0.477794155	0.013068	0.058496	Otud6b
4944.643	4016.507	3474.67	3169.36	0.431216012	0.013171	0.05886	Coro1c
1436.346	1184.629	991.15	888.981	0.478020664	0.0132	0.058955	Tyw1
2153.999	1958.337	1613.12	1515.78	0.393688626	0.013207	0.058971	Chordc1
1068.691	918.1097	738.367	696.308	0.468652264	0.013243	0.059051	Foxn2
3179.07	2523.465	2194.25	1930.39	0.466621825	0.013262	0.059091	Psemb5
1174.625	1003.681	810.467	770.694	0.46128114	0.013296	0.059204	Mrpl13
742.5793	625.7408	514.251	379.25	0.611541017	0.013321	0.059267	Nudt1
77.89293	92.70234	17.3733	43.9003	1.497333633	0.013356	0.059392	Rtn4rl1
92.43295	45.4598	27.7974	7.31672	1.945929267	0.013412	0.05959	Insm1
3589.306	2783.744	2467.88	2046.24	0.49678147	0.013421	0.059597	Ncln
2146.729	1876.331	1607.03	1264.57	0.485114678	0.01345	0.059693	Rnpep
2820.763	2650.93	2184.7	2052.34	0.368470676	0.013486	0.059838	Pbrm1
2948.507	2793.549	2347.14	1868.2	0.44498374	0.013508	0.059915	Pes1
2095.839	1559.004	1231.77	1332.86	0.511014502	0.013538	0.059997	Reep4
9826.972	8443.935	7440.14	6092.39	0.43280542	0.013541	0.059997	Akt1

15.57859	4.456843	0	0	5.721960899	0.013562	1	Gm13630
791.3922	447.4671	185.026	45.1198	2.425434643	0.01363	0.060343	Npas4
4969.569	5084.367	4136.59	3683.97	0.362079151	0.013668	0.060473	Mapk6
1835.157	1741.734	1421.14	1296.28	0.39565795	0.013671	0.060473	Arhgap17
257.566	10.69642	3.47467	0	6.228811345	0.013758	0.060809	Ighv9-3
1659.639	1474.324	1197.89	1157.26	0.411591255	0.013769	0.060839	Hspbp1
1059.344	934.1544	761.821	675.577	0.470266916	0.01379	0.060899	Tmem97
1463.349	1283.571	1074.54	920.687	0.45980228	0.013855	0.061135	Uchl5
1374.031	1231.871	1018.95	892.64	0.445635619	0.014046	0.061894	Bccip
248.2188	291.4776	184.158	125.604	0.795736864	0.014065	0.061962	Gm12411
29.08003	28.5238	7.81801	3.65836	2.296054649	0.014116	0.062152	Chga
129.8216	76.65771	44.302	45.1198	1.205281512	0.014124	0.062171	Myl4
481.8976	280.7811	204.137	226.818	0.823267853	0.014134	0.062196	A530040E14Rik
502.6691	443.9016	262.338	349.983	0.631625021	0.014145	0.062213	Slc25a42
1467.503	1186.412	967.696	949.954	0.468154732	0.014158	0.062252	Acaa2
1625.366	1512.653	1219.61	1167.02	0.394311105	0.014176	0.062298	Nudt5
36.35003	31.1979	9.55534	7.31672	1.989568913	0.014187	0.062327	Rasl10a
1122.697	1042.901	855.637	648.749	0.523337706	0.014213	0.062426	Knop1
279.376	430.5311	235.409	151.212	0.873223347	0.014245	0.06255	Nbl1
1049.997	763.0116	674.955	409.736	0.738091136	0.014343	0.062961	Tmem154
10.38572	8.022318	0	0	5.602424774	0.014374	1	Trabd2b
1187.088	1120.45	912.97	758.5	0.46348496	0.01454	0.063757	Grhpr
740.5021	661.3956	533.362	431.686	0.535987664	0.01455	0.063785	Sms-ps
1395.841	1271.092	1033.71	963.368	0.416385963	0.014578	0.063888	Tubgcp3
884.8637	1039.336	714.045	676.797	0.46826528	0.014583	0.063892	Cep162
4230.105	3812.384	3164.56	3107.17	0.35857619	0.014593	0.06392	Shmt2
1275.367	1041.119	845.213	825.57	0.470689879	0.014605	0.063955	Wbscr22
1552.666	1492.151	1213.53	1075.56	0.410510288	0.014627	0.064016	Dhx37
500.5919	482.2304	294.478	367.055	0.574057143	0.014669	0.064178	Ypel2
3278.773	2743.633	2412.29	1449.93	0.639829807	0.014672	0.064178	H2afj
257.566	221.0594	152.885	137.798	0.716505507	0.014766	0.064539	Dscc1
4483.517	3698.289	2888.32	3219.36	0.421932778	0.014776	0.064563	Nup153
58.16006	137.2708	44.302	19.5113	1.603115137	0.014849	0.064835	Tgfb2
2910.08	2387.085	2017.91	1930.39	0.42351668	0.01485	0.064835	Snrpg
1032.341	972.4832	721.863	768.256	0.428533513	0.014906	0.065025	Parl
3040.94	2615.276	2288.94	1646.26	0.522327055	0.014933	0.06509	Nhp2
2189.311	1905.746	1620.93	1430.42	0.423480497	0.014986	0.065253	Brd3
1732.339	1645.467	1340.35	1236.53	0.389694063	0.015039	0.065414	Utp6
1002.222	960.8954	767.033	667.041	0.451425957	0.015077	0.06556	Tnfrsf10b
369.7318	291.4776	197.188	219.502	0.666802106	0.01511	0.065684	Sass6
8.308579	9.805055	0	0	5.580718056	0.015151	1	Nrep
28603.32	26761.56	23150	19491.7	0.376606067	0.015214	0.06612	Atp5b
428.9304	369.918	262.338	271.938	0.580205554	0.015296	0.066458	CT030173.1
13.50144	16.936	1.73733	0	3.993813279	0.015319	0.066539	Ric3
1454.001	1232.763	1032.85	931.662	0.450514182	0.015336	0.06658	Nom1



2237.085	2052.822	1580.97	1708.45	0.38342306	0.015384	0.066713	Eml4
270.0288	363.6784	213.692	162.187	0.750770416	0.015397	0.066753	Ccdc74a
1435.307	1371.816	1076.28	1069.46	0.387416248	0.015421	0.066803	Xpo4
838.1279	738.0533	608.067	469.49	0.545880843	0.015437	0.066854	Ltv1
572.2534	535.7126	408.274	368.275	0.510929901	0.015445	0.066854	Gm10131
1511.123	1226.523	937.292	1038.97	0.4704289	0.015511	0.067061	Rhno1
860.9765	443.0102	103.371	8.53617	3.538795972	0.015514	0.067061	S100a3
21.81002	18.71874	3.47467	2.43891	2.757064901	0.015526	0.06708	Mtcl1
603.4106	461.729	348.336	360.958	0.586067585	0.015533	0.067092	Klf9
2440.645	2130.371	1794.67	1674.31	0.397373712	0.015684	0.067582	Med24
2657.707	2853.271	2176.88	2131.6	0.355141973	0.015695	0.067592	Larp4
2701.327	2469.983	1996.2	2023.07	0.36350256	0.01573	0.067724	Hdgfl2
3062.75	2526.139	2110.86	2088.92	0.411938471	0.015746	0.067773	Naa40
344.806	303.9567	229.328	171.943	0.688096654	0.015757	0.067802	Pinx1
1079.077	851.2571	666.268	697.527	0.500993157	0.015803	0.067982	Bora
4290.343	4039.683	3383.46	3169.36	0.345872866	0.015864	0.068192	Syncrip
5009.035	4513.891	3637.98	3814.45	0.353736335	0.015892	0.068239	Hnrnpdl
835.0122	703.2899	568.109	521.926	0.495418715	0.015897	0.068241	Tsen54
424.7761	338.7201	247.57	249.988	0.616884033	0.015919	0.068292	Skp2
2706.52	2233.77	1983.17	1408.47	0.541405942	0.015928	0.068302	Sptlc1
125.6673	1.782737	0.86867	0	7.006956975	0.015958	0.068393	Igkv6-25
1878.778	1839.785	1467.18	1419.44	0.365046954	0.015976	0.068448	Zcchc8
192.1359	159.555	112.058	62.1921	1.002932054	0.015983	0.068448	Gm17383
1196.435	1133.821	891.253	870.69	0.402891277	0.01604	0.068654	Trmt6
265.8745	237.1041	172.865	113.409	0.806074604	0.016048	0.068669	C130083M11Rik
3095.984	2891.6	2467.02	1880.4	0.46086089	0.01609	0.068832	Szrd1
2774.027	2746.307	2254.19	2032.83	0.364212582	0.016145	0.069033	Supt20
45.69719	27.63243	9.55534	0	2.875147251	0.016166	0.069034	Tmem136
236.7945	220.1681	109.452	156.09	0.789084661	0.01617	0.069034	Insrr
79.97008	48.13391	27.7974	8.53617	1.791249016	0.016221	0.069173	Tpm2
21700.97	16976.12	15440.6	12718.9	0.457720923	0.016232	0.069199	Ucp2
3878.029	3077.005	2596.45	2576.7	0.426756061	0.016236	0.069199	Agap2
1014.685	908.3047	723.6	695.088	0.437962006	0.016248	0.069233	Nhlrc2
2669.131	2853.271	2263.75	1909.66	0.403409001	0.016269	0.069286	Acaca
104.8958	69.52676	31.272	42.6809	1.243589188	0.016289	0.069316	Mmp17
438.2776	373.4835	209.349	297.547	0.68320493	0.016325	0.069453	Ube2t
943.0238	917.2184	710.57	676.797	0.422446442	0.01641	0.069723	Usp45
1320.026	1269.309	1032.85	896.298	0.423285346	0.016416	0.069729	Lsg1
3535.301	3194.665	2726.75	2455.98	0.376323304	0.016481	0.069986	Xrn2
293.916	256.7142	191.976	126.823	0.781791088	0.016565	0.070326	Pdss1
459.049	378.8317	274.499	285.352	0.581425661	0.01659	0.070409	Pole2
1201.628	1038.444	848.688	802.4	0.439170201	0.016633	0.070575	Ppie
1393.764	652.4819	323.144	90.2395	2.305796956	0.016683	0.070732	Twist1
2973.433	2983.411	2421.84	2260.87	0.346844029	0.016701	0.070751	Trim24
2281.744	2411.152	1928.44	1510.9	0.447363028	0.016718	0.070807	Wdr6

1444.654	1388.752	1104.95	1067.02	0.383087775	0.016744	0.07088	Zbtb17
37.38861	8.022318	3.47467	1.21945	3.223491626	0.016792	0.07104	Cttnbp2
4996.572	4921.246	4133.99	3502.27	0.376684942	0.016795	0.07104	Cct6a
909.7894	686.3539	502.958	581.679	0.557932541	0.016842	0.071201	Mphosph9
364.5389	334.2632	253.651	167.065	0.726320614	0.016865	0.071262	Ptk2
5309.182	4579.852	4004.56	3518.12	0.394130242	0.016951	0.07153	Psme3
229.5245	199.6666	104.24	143.895	0.795742481	0.016984	0.071648	Cep72
37.38861	40.11159	9.55534	13.414	1.767521299	0.016993	0.071669	Ppp2r2c
346.8832	226.4076	184.158	137.798	0.827220201	0.017076	0.071988	Ankrd9
5589.597	5230.551	4510.99	3559.58	0.422444597	0.017079	0.071988	Ahcy
637.6835	566.9105	378.739	456.076	0.530894565	0.017113	0.072082	Nsun5
2341.981	1997.557	1690.43	1587.73	0.404025716	0.017126	0.0721	Pycr2
160.9787	114.0952	59.0694	79.2645	0.996122303	0.017126	0.0721	Ppargc1b
12.46287	13.37053	0	1.21945	4.611161533	0.017135	1	Pappa2
1631.597	1517.109	1261.31	1110.92	0.407387173	0.017148	0.072172	Mrps7
1591.093	1340.618	1126.66	1042.63	0.43356216	0.017203	0.072348	Snrpd1
781.0065	682.7884	433.465	567.046	0.55118522	0.017214	0.072356	Dsn1
98.66438	83.78865	40.8274	4.87781	1.972294903	0.017222	0.072371	Neol
5019.42	4392.665	3803.03	3446.17	0.376281013	0.01724	0.072415	Ppmlg
23852.89	23406.45	19871.6	13333.5	0.509054203	0.017291	0.072579	Flna
1600.44	1378.947	1135.35	1099.95	0.413937538	0.017311	0.072615	Tsc22d2
3701.472	3217.841	2837.94	2124.29	0.4787805	0.017355	0.072757	Psmc4
1993.02	1788.086	1510.61	778.011	0.722673478	0.017425	0.072996	Stom
904.5966	839.6693	688.853	463.392	0.59520783	0.017458	0.073095	Ercc612
1327.296	1192.651	987.675	891.42	0.422156464	0.01752	0.073296	Utp15
93.47152	66.85265	31.272	37.8031	1.218009003	0.01759	0.073442	Erfe
2191.388	2215.051	1733.86	1730.4	0.347075316	0.017616	0.073528	Elk4
1905.78	1736.386	1470.65	1258.48	0.415198454	0.017647	0.073636	Cdkn2aipnl
3699.395	3306.978	2735.43	2741.33	0.355194344	0.017652	0.073639	Ssb
2858.151	2679.454	2270.7	1974.29	0.382739298	0.017663	0.073663	Tufim
552.5205	487.5787	384.82	329.252	0.53989064	0.017671	0.073663	Pccb
501.6305	566.9105	290.135	407.297	0.619559748	0.017687	0.073702	Zhx2
1474.773	1316.552	1054.56	1060.92	0.399692497	0.01769	0.073702	Mrpl3
1078.038	863.7362	692.328	698.747	0.480639473	0.01771	0.073765	Nelfa
890.0566	747.8583	577.664	601.19	0.474318701	0.017722	0.073786	Nfkbid
2096.878	1899.507	1580.97	1492.61	0.378171793	0.017724	0.073786	Ddx19a
1348.067	974.266	681.035	873.129	0.580307748	0.017729	0.073791	Clpb
2455.185	2235.553	1860.69	1779.18	0.365472292	0.01793	0.074447	Zdhhc3
760.235	793.3181	532.493	601.19	0.456211667	0.017933	0.074447	Diexf
33.23432	50.80801	15.636	6.09727	1.925018773	0.017941	0.074462	Spon1
118.3973	114.9866	59.0694	63.4116	0.93181591	0.017954	0.074496	2010107G23Rik
3637.081	3593.107	3002.98	2581.58	0.371999797	0.017978	0.074576	Psma4
275.2217	222.8422	150.279	157.309	0.695081803	0.018031	0.074756	Hmgb1-ps2
45.69719	62.39581	21.7167	3.65836	2.057041929	0.018044	0.07479	Syt14
35.31146	18.71874	6.94934	1.21945	2.666096973	0.018089	0.074958	Gjc1

442.4319	352.0906	284.923	214.624	0.664999389	0.018099	0.07496	2310033P09Rik
1488.274	1408.362	1097.13	1130.43	0.379020651	0.018109	0.074983	Gnl3l
663.6478	532.1471	390.9	431.686	0.540130596	0.01821	0.075306	Nup37
76.85436	55.26486	31.272	14.6334	1.505026467	0.018237	0.075396	Tmem267
1348.067	1103.514	896.465	899.957	0.448113443	0.018278	0.07553	Ubac1
1932.783	1838.894	1547.1	1221.89	0.444515351	0.018291	0.075564	Jmjd6
1787.383	1488.586	1157.93	1270.67	0.432019498	0.018345	0.075753	Ttll12
489.1676	434.0965	333.568	301.205	0.538357196	0.018346	0.075753	Toe1
1389.61	1287.136	1078.02	882.884	0.447317411	0.018355	0.075771	Vhl
2730.407	3052.938	2380.15	1568.22	0.549722321	0.018382	0.075796	Icam1
998.0681	873.5413	664.531	710.941	0.444620907	0.018393	0.075796	Mrps5
278.3374	249.5832	176.34	158.529	0.654016778	0.018395	0.075796	Fbxl15
225.3702	212.1457	148.542	106.092	0.774488166	0.0184	0.075796	Gm10254
142.2844	87.35413	56.4634	51.217	1.088203451	0.018404	0.075796	Rfx2
3308.892	2839.009	2472.23	2179.16	0.401752956	0.018416	0.075825	Ppp1r10
1141.391	1128.473	885.172	840.203	0.395096923	0.018433	0.075858	Zfp319
241.9874	204.1234	117.27	148.773	0.749368521	0.018451	0.075913	Tram2
3182.186	2903.188	2436.61	2326.72	0.35300028	0.018466	0.075937	Dhx38
41.5429	62.39581	21.7167	10.9751	1.651364904	0.018502	0.076046	Gm42608
100.7415	86.46276	45.1707	45.1198	1.050966481	0.018517	0.076066	Rpp40
2475.957	2294.383	1897.17	1830.4	0.355480283	0.018525	0.076083	Arid2
798.6622	590.9774	490.797	449.978	0.561098555	0.018641	0.076481	Tmem39b
6852.501	8432.348	5289.32	6155.8	0.417685381	0.018675	0.076599	Tcf7
285.6074	253.1487	182.42	158.529	0.656746763	0.01876	0.076867	Rdh12
483.9747	492.9269	364.84	313.399	0.524194397	0.018764	0.076867	Gcfc2
196.2902	267.4106	154.623	81.7034	0.965449397	0.018784	0.076931	Mreg
6318.675	5802.81	4825.45	4836.35	0.327128473	0.018808	0.077009	Sdha
630.4135	585.6292	469.949	356.08	0.554603346	0.018976	0.077537	Gm10093
1814.386	1920.899	1535.8	1114.58	0.493678621	0.019001	0.077621	Tgfbr3
878.6323	858.388	631.521	667.041	0.420285697	0.019018	0.07767	Cnm3
2918.388	2469.091	2057	2063.31	0.386615558	0.019111	0.078012	Rnf220
1725.069	1615.16	1345.57	1202.38	0.389621018	0.019139	0.07807	Thumpd1
117.3587	95.37645	59.0694	43.9003	1.038497603	0.019193	0.078188	Efr3b
1128.928	966.2436	822.628	673.138	0.484171469	0.019208	0.078229	Lrrc14
276.2603	246.9091	147.673	180.479	0.6760593	0.01922	0.078244	Zfp850
3875.952	3227.646	2652.04	2771.82	0.389178271	0.019282	0.07845	Gnl1
29.08003	20.50148	5.212	4.87781	2.29190436	0.019328	0.078584	Tal2
416.4675	449.2498	293.61	308.522	0.525049967	0.019337	0.078584	Fam35a
4099.245	3877.454	3115.04	3235.21	0.329057741	0.019339	0.078584	Erbin
1268.097	1246.133	959.009	974.343	0.379115497	0.019381	0.078732	Tmem209
4073.281	3610.934	3138.5	2775.48	0.377219341	0.019431	0.078867	Psmc1
583.6777	467.9685	390.032	299.986	0.604325328	0.01946	0.078915	Ormdl2
1156.97	964.4609	829.577	671.919	0.496603087	0.019467	0.078924	Clpp
5372.535	5501.527	4572.67	3759.57	0.383677	0.019538	0.079089	Cabin1
3871.798	3482.577	2031.81	3055.95	0.532309774	0.019541	0.079089	Abhd8

2704.443	2821.182	2257.67	2079.17	0.349126762	0.019542	0.079089	Atp9b
411.2747	334.2632	251.045	242.671	0.593079949	0.019623	0.079356	Gm12184
2174.771	1945.858	1681.74	1376.76	0.428852675	0.019664	0.079494	2310011J03Rik
51.92862	53.48212	19.1107	20.7307	1.406564377	0.019709	0.079605	Preld3a
408.159	344.0683	271.024	217.063	0.620026104	0.019753	0.079725	Kti12
393.6189	393.985	239.752	291.449	0.571354161	0.019785	0.079813	Dclrela
1.038572	155.0981	0.86867	0	7.303222874	0.019797	0.079822	Igkv17-121
1708.452	1629.422	1350.78	1204.82	0.384296632	0.01989	0.080132	Spg21
127.7444	122.1175	66.0187	69.5088	0.88356881	0.019894	0.080132	Necab3
1428.037	1304.072	1110.16	760.939	0.544091165	0.019912	0.080149	Ncbp2
2390.794	2003.797	453.444	45.1198	3.138908176	0.019913	0.080149	Dsp
2009.638	1666.859	1467.18	1207.26	0.45782275	0.019953	0.080251	Pgp
846.4365	755.8806	613.279	554.851	0.454380742	0.02001	0.080461	Crtc1
59.19863	29.41517	13.8987	12.1945	1.756399871	0.020019	0.080463	CT025660.2
2900.733	2516.334	1826.81	2213.31	0.423688103	0.020026	0.080463	Smo
524.4791	446.5757	362.234	285.352	0.580859667	0.020057	0.080568	Atxn712
1071.807	1033.096	845.213	690.211	0.453217002	0.020095	0.08066	Magoh
7941.963	6957.132	5796.62	5950.93	0.342828383	0.020162	0.080904	Akt2
1178.78	909.196	648.026	799.961	0.528981967	0.020166	0.080904	Abcd3
237.8331	126.5744	86.8667	96.3368	0.991572578	0.020206	0.081045	Siglecg
50.89005	73.09223	26.06	3.65836	2.030068217	0.020225	0.081102	Pparg
6.231435	10.69642	0	0	5.484329604	0.020279	1	Kcnip1
1433.23	1138.278	927.737	948.735	0.45423453	0.02035	0.081499	Nsmce4a
439.3161	375.2662	291.872	256.085	0.569241258	0.020389	0.081617	Ptges2
4714.08	4854.394	4007.16	3470.56	0.355289149	0.020442	0.081786	Mat2a
244.0645	223.7335	135.512	157.309	0.678389424	0.020455	0.081819	Cep131
11984.09	9550.124	8214.12	8213.02	0.390467307	0.020599	0.082273	Sfpq
1024.032	925.2407	742.711	717.039	0.416468659	0.020604	0.082273	Prps113
0	52.59075	0.86867	1.21945	4.674126322	0.020626	0.08232	Iglv2
3005.629	2826.53	2434.01	1756.01	0.47606168	0.02068	0.082494	Ap1m1
582.6391	519.6679	379.608	404.858	0.491163168	0.020714	0.08261	4931406P16Rik
1167.355	1240.785	954.666	871.909	0.398099365	0.020735	0.082675	Depdc5
9969.257	9108.896	7941.36	7103.32	0.342443395	0.020772	0.082779	Brd2
24.92574	18.71874	5.212	1.21945	2.703221104	0.020788	0.082822	Gm9134
645.992	518.7766	398.718	412.175	0.522044859	0.020799	0.082846	Gm8991
750.8879	686.3539	534.231	521.926	0.443788277	0.020845	0.082965	Rsrc1
4006.812	3494.165	3043.81	2744.99	0.373300843	0.020849	0.082965	Usp5
2401.179	2108.087	1722.57	1764.55	0.370749072	0.020875	0.083037	Gmps
1514.239	1353.989	1079.75	1112.14	0.387921278	0.020878	0.083037	Thyn1
650.1463	603.4566	460.394	452.417	0.457097828	0.020908	0.083138	Sirt1
45.69719	51.69938	19.1107	15.8529	1.472563704	0.020971	0.083368	Nme2
2899.694	2428.98	2107.39	1938.93	0.396551979	0.020997	0.083451	Gipc1
1571.36	1526.023	1251.75	1129.21	0.378589147	0.021038	0.08357	Rbm27
5106.661	4819.63	4153.1	3583.97	0.359001398	0.021052	0.083586	Ankrd52
13128.59	12538.88	9523.2	10826.3	0.335085583	0.021052	0.083586	Lck

15.57859	54.37349	9.55534	3.65836	2.379247838	0.021087	0.083706	Kcnip3
258.6045	203.2321	148.542	131.701	0.717224504	0.021138	0.083847	Gm10521
1425.96	1331.705	1090.18	1026.78	0.38071161	0.021162	0.083921	Nup54
124.6287	139.9449	62.5441	80.4839	0.89392059	0.021201	0.084013	Pard6g
2647.321	2258.728	1805.96	1945.03	0.38740314	0.021261	0.084228	Nudt21
293.916	224.6249	153.754	167.065	0.692855162	0.021315	0.0844	Zfp41
228.4859	225.5163	153.754	128.043	0.684263546	0.021348	0.08447	Nmnat3
102.8187	61.50444	41.696	17.0723	1.464482615	0.021442	0.084711	Rsg1
378.0404	279.8898	228.46	174.382	0.702968666	0.021442	0.084711	Traf3ip1
1513.2	1362.011	1170.96	902.395	0.469941661	0.021443	0.084711	Isg2012
95.54866	92.70234	47.7767	8.53617	1.719316213	0.02145	0.084711	Gpr45
65.43006	66.85265	31.272	24.3891	1.241654952	0.021466	0.084717	Fam89a
2093.762	1930.705	1636.57	1460.91	0.376825685	0.021473	0.084717	Preli3b
2326.402	1641.01	1325.59	1465.78	0.507214374	0.02149	0.08476	Itga4
3054.441	2736.502	2387.1	2012.1	0.39573176	0.021554	0.084995	Txn2
1482.043	1441.343	1106.68	1162.14	0.366055966	0.021561	0.085	Ddx10
3413.788	2579.621	2297.63	2084.05	0.451325881	0.021603	0.085143	Gramd4
44.65861	22.28422	10.424	4.87781	2.100520699	0.02161	0.085152	Apol10b
34.27289	24.95832	7.81801	0	2.849940487	0.021619	0.085166	Nrxn2
479.8205	389.5281	300.559	290.23	0.555852306	0.021808	0.08579	Rmi2
19.73288	25.84969	5.212	0	3.042101185	0.021809	0.08579	Sult4a1
458.0104	412.7037	315.326	289.01	0.524921107	0.021946	0.086245	Fadd
1386.494	1133.821	978.988	859.715	0.45352477	0.021992	0.086383	Mrpl37
2363.791	2356.779	1963.19	1649.92	0.384827015	0.022066	0.086625	Kpna3
23.88717	3.565475	0.86867	0	4.771939716	0.022069	0.086625	Trav3d-3
4.15429	78.44044	6.94934	0	3.5191663	0.02207	0.086625	Igkv10-96
2935.006	2588.535	2202.07	2099.9	0.360157939	0.022077	0.086632	Bms1
4409.778	3882.802	3463.38	2570.61	0.457982565	0.022125	0.086777	Cdc34
666.7635	510.7542	421.304	384.128	0.545985386	0.022168	0.086914	Rcc1l
1818.54	1809.478	1488.9	1303.6	0.376703036	0.02217	0.086914	Pds5b
1556.82	1386.97	1123.19	1135.31	0.382086475	0.022344	0.087444	Prpf4
260.6817	198.7752	137.249	142.676	0.714232625	0.022355	0.087469	N6amt1
168.2487	96.26782	66.8874	62.1921	1.031367591	0.022393	0.087572	Pdia5
410.2361	341.3942	239.752	264.621	0.576239755	0.022435	0.087719	Srcap
1596.286	1459.171	1243.06	1047.51	0.414300247	0.022458	0.087786	Itpa
889.018	841.452	687.985	574.362	0.453000458	0.022541	0.08809	Pigu
2499.844	2068.867	1799.01	1652.36	0.40391418	0.022559	0.088137	Get4
149.5544	106.9642	73.8367	57.3143	0.96073621	0.022591	0.0882	Hmgn2-ps1
97.62581	82.89729	46.908	40.242	1.045488157	0.022629	0.088308	Fbxo10
3596.576	3096.615	2736.3	2359.64	0.392665585	0.022697	0.088504	Msl2
6014.373	4640.465	3673.59	4216.87	0.433431599	0.022697	0.088504	Nup62
2958.893	2778.396	2267.22	2296.23	0.33019663	0.022727	0.088601	Rbm15
1919.282	1666.859	1263.91	1443.83	0.40587385	0.022756	0.088694	Prps2
3556.072	3216.058	2780.6	2508.42	0.356057647	0.022815	0.088889	4930533O14Rik
176.5573	134.5967	90.3414	84.1423	0.831496549	0.022841	0.088908	Phf21b

359.3461	358.3302	228.46	260.963	0.554584638	0.022842	0.088908	Aldh1b1
1455.04	1308.529	1125.79	886.543	0.4559134	0.022844	0.088908	Arhgef12
1012.608	836.1038	651.501	697.527	0.454679281	0.02295	0.089253	Ipo11
103.8572	96.26782	57.3321	40.242	1.027239548	0.023022	0.089512	Rubcnl
34.27289	15.15327	6.08067	2.43891	2.497112484	0.023196	0.090018	Rnf39
1083.231	848.583	627.178	740.208	0.499256344	0.023279	0.090296	Cep152
4364.081	4147.538	3577.17	3043.76	0.36184642	0.023317	0.090421	Nadk
7793.447	6668.329	5624.62	5747.28	0.34671129	0.023327	0.090436	Mta2
1057.267	1012.595	810.467	767.036	0.391125898	0.02341	0.090651	Cops3
2993.166	2629.538	2275.04	2085.27	0.366238986	0.023481	0.090853	Arhgap1
68.54578	46.35117	23.454	20.7307	1.372835433	0.023485	0.090853	Map3k9
15.57859	14.2619	0.86867	2.43891	3.23336052	0.023501	0.090891	D430019H16Rik
299.1089	237.1041	167.653	173.162	0.65321382	0.023506	0.090891	Abhd6
447.6247	334.2632	241.49	269.499	0.614032392	0.02355	0.090974	Mcm8
3245.539	2945.973	2383.62	2504.76	0.341016149	0.023563	0.091002	Rrp1b
1527.74	1141.843	707.964	1057.27	0.598095867	0.02357	0.091009	Knstrn
1638.867	1600.007	1267.39	1275.55	0.348984016	0.023589	0.091041	Ttl4
3341.087	2885.36	2547.8	2202.33	0.389723925	0.023647	0.091212	Pdap1
157.863	215.7112	111.189	106.092	0.782502554	0.023651	0.091212	Prkcz
398.8118	402.8986	264.944	293.888	0.522504976	0.023774	0.091553	Aoc2
1854.89	1572.374	1387.26	1131.65	0.442879666	0.023782	0.091563	Snrpc
1121.658	947.5249	774.851	764.597	0.426008641	0.023866	0.091756	Nup133
597.1791	444.793	359.628	345.105	0.562661185	0.023965	0.09207	Yars2
3471.948	3244.582	2756.28	2579.14	0.331706953	0.024006	0.092186	Hnrnpr
1765.573	1532.263	1322.11	1170.68	0.402660637	0.024046	0.092311	Fmr1
486.0519	372.5921	284.923	291.449	0.574296757	0.024051	0.092311	Tex30
88.27866	44.56843	30.4034	14.6334	1.541954058	0.02406	0.092323	Rtn2
87.24008	60.61307	26.9287	36.5836	1.225136999	0.024066	0.092323	Gm11579
1240.055	966.2436	812.204	787.767	0.462748444	0.024071	0.092323	Lsm8
1953.555	1653.489	1364.68	1390.18	0.388613507	0.024181	0.092702	U2af1
22.84859	23.17559	3.47467	6.09727	2.290896752	0.024198	0.092744	Gm26571
401.9275	300.3912	231.934	224.379	0.62037767	0.024311	0.093088	Cmss1
183.8273	95.37645	79.0487	24.3891	1.418303924	0.024327	0.093124	Unc13b
2574.621	2309.536	1921.49	1915.76	0.34781104	0.024332	0.093124	Dnajc2
2869.576	2569.816	2230.74	1984.05	0.367269358	0.024372	0.093244	Zfp706
109.0501	69.52676	46.0394	32.9252	1.167388942	0.024375	0.093244	Kbtbd6
16.61716	10.69642	1.73733	0	3.840607041	0.024384	0.093256	Slc38a8
3.115717	24.95832	0	1.21945	4.721307915	0.024393	0.093261	Igkv8-24
2545.541	2142.85	1799.01	1806.01	0.378817443	0.024397	0.093261	Axin1
380.1175	311.0877	242.358	214.624	0.594082879	0.024414	0.093307	Mapkapk5
1574.476	1505.522	1233.51	1168.24	0.358253173	0.024429	0.093342	Wdr36
955.4866	890.4773	630.653	737.769	0.433234828	0.024538	0.093714	G2e3
197.3288	160.4464	116.401	89.0201	0.794164131	0.024573	0.093822	Xkr5
59.19863	32.08927	13.8987	15.8529	1.618467677	0.024606	0.093927	Amotl2
2.077145	34.76338	1.73733	0	4.297571352	0.024622	0.093965	Igkv6-23

7282.47	6896.519	5940.82	5430.23	0.318140667	0.024643	0.094026	Cct8
30.1186	25.84969	8.68667	1.21945	2.441922729	0.024654	0.094045	Fhit
219.1388	123.0089	36.484	104.873	1.284954657	0.024663	0.094058	Ramp1
456.9719	402.8986	324.013	252.427	0.57304484	0.024742	0.094293	Tada2a
352.076	366.3525	270.156	191.454	0.633580513	0.024755	0.094319	Atrnl1
5583.365	5037.124	4451.92	3780.31	0.367026299	0.024819	0.094495	Dbnl
1148.661	1017.052	814.81	826.789	0.399489252	0.024879	0.094677	1190002N15Rik
18835.55	16664.14	13419.2	14754.2	0.333521059	0.024899	0.094733	Hnrnpa1
121.513	126.5744	11.2927	0	4.435127639	0.025016	0.095089	Zbtb7c
2354.444	2040.343	1713.88	1696.26	0.365630287	0.025031	0.095121	Ndufv1
2941.237	2817.616	2188.17	2381.59	0.334023064	0.025119	0.095414	Phf2
85.16294	83.78865	47.7767	21.9502	1.260372003	0.025133	0.095444	Fam171a1
32.19574	37.43748	11.2927	9.75563	1.721536511	0.025165	0.095529	Ret
3347.319	3036.893	2678.1	2114.53	0.412833825	0.025168	0.095529	Psmc1
1220.323	1034.879	857.375	834.106	0.414246018	0.025205	0.095612	Mrpl42
1252.518	708.6381	555.947	671.919	0.675741466	0.025271	0.095782	Pbdc1
5336.185	5173.504	4186.11	4335.16	0.302662344	0.025271	0.095782	Pds5a
2077.145	2133.937	1633.96	1707.23	0.334196514	0.025276	0.095782	Rad50
69.58435	73.09223	18.242	39.0225	1.335120711	0.025286	0.095799	Samd3
7982.468	6605.933	6042.45	4914.4	0.412614635	0.02537	0.096073	Ankrd13a
774.775	709.5295	423.91	596.313	0.543597888	0.025425	0.096235	Synj2
450.7404	451.9239	314.458	330.472	0.485899515	0.02547	0.096337	Dhdh1
1773.882	1239.002	1143.17	937.76	0.532586569	0.025562	0.096618	Tlnrd1
92.43295	53.48212	36.484	15.8529	1.460078818	0.025571	0.09663	Unc5a
667.8021	650.6991	507.302	465.831	0.436894021	0.025627	0.096756	Exosc1
1215.13	1092.818	917.313	828.009	0.401860885	0.025677	0.096917	Sppl3
76000.65	71045.65	62425.9	55794.9	0.314756455	0.025791	0.097255	Hsp90ab1
6210.663	5690.498	4782.88	4807.08	0.311435002	0.025837	0.097381	Ep400
1637.829	1410.145	1193.55	1134.09	0.388244929	0.025893	0.097572	Nop9
1186.05	1131.147	952.928	713.38	0.473639548	0.025999	0.097877	Msto1
33.23432	30.30653	11.2927	4.87781	1.944853188	0.02607	0.098095	Mst1r
8829.943	8153.349	7151.74	6353.35	0.330356746	0.026075	0.098095	Psmc2
1310.678	1066.077	938.161	785.328	0.461969305	0.026085	0.09811	L3mbtl2
2510.23	2296.166	1933.65	1864.54	0.339247546	0.026165	0.09839	Agap3
840.2051	644.4595	523.806	528.023	0.496515949	0.026198	0.098444	Kat14
779.9679	545.5176	474.292	415.834	0.572381545	0.026224	0.0985	Nudt19
43.62004	26.74106	12.1613	7.31672	1.833096043	0.026286	0.098682	Nmnat2
593.0249	509.8629	362.234	418.272	0.500073705	0.026335	0.098821	Ssx2ip
10203.97	10499.43	7670.33	8827.62	0.327799723	0.02643	0.099064	H2afy
9.347152	6.239581	0	0	5.361891204	0.026445	1	Nog
9.347152	6.239581	0	0	5.361891204	0.026445	1	Abhd12b
303.2631	308.4136	190.238	220.721	0.576606088	0.026526	0.099398	Rpusd2
1332.488	1449.365	1110.16	1041.41	0.370343416	0.026532	0.099398	Ipol3
674.0335	670.3092	528.15	454.856	0.449701057	0.026597	0.099596	Dcun1d2
17703.51	17152.61	14982.8	12070.1	0.365465359	0.026615	0.099607	Eif4g2

101.7801	173.8169	70.3621	70.7283	0.968326142	0.026627	0.099615	Rragd
208.7531	169.36	121.613	104.873	0.735244451	0.026675	0.099773	Haus5
209.7916	150.6413	99.0281	109.751	0.78807399	0.026781	0.100076	Cryl1
28.04146	17.82737	6.08067	2.43891	2.389348734	0.026814	0.100176	Klhl4
193.1745	207.6889	133.775	114.629	0.687605536	0.026838	0.100218	Slc27a3
1283.676	1278.223	1028.5	412.175	0.828246727	0.026929	0.100534	Car5b
795.5465	837.8865	649.763	560.949	0.430582456	0.026942	0.100561	Yrdc
712.4607	624.8494	467.343	509.731	0.453363975	0.026985	0.100698	Ccdc34
1743.763	1627.639	1399.42	1136.53	0.409442271	0.026997	0.100719	Ncoa5
7265.853	6668.329	5901.73	4992.44	0.3547062	0.027028	0.10081	Uck2
23959.87	12125.29	6959.76	2137.7	1.987780619	0.027042	0.100842	Spp1
207.7145	199.6666	143.33	82.9228	0.840019493	0.027055	0.100866	Lgals7
701.0364	585.6292	462.131	468.27	0.467175283	0.027238	0.101455	Prmt3
179.673	142.619	98.1594	89.0201	0.780524999	0.027289	0.101572	Ddx59
1034.418	1022.4	797.437	790.206	0.373379328	0.027326	0.101665	Eny2
368.6932	282.5639	237.146	156.09	0.721953757	0.027326	0.101665	Fancf
314.6874	241.5609	192.844	154.871	0.673233412	0.02748	0.102119	Tsen2
471.5119	450.1412	359.628	228.038	0.644510076	0.027618	0.102607	Lsm5
1017.801	836.1038	707.964	653.627	0.443941835	0.02768	0.102795	Mrpl41
1573.437	1517.109	1205.71	1229.21	0.344049331	0.027759	0.103014	Srek1
153.7087	172.9255	110.321	62.1921	0.911996094	0.027865	0.103335	Npnt
125.6673	114.9866	73.8367	54.8754	0.895432478	0.027933	0.103541	Nudt6
98.66438	61.50444	38.2214	32.9252	1.164612199	0.027967	0.103642	4930513N10Rik
3274.619	2709.761	2440.09	2090.14	0.400869574	0.027976	0.103651	Oxsr1
672.9949	468.8599	431.728	265.841	0.70690311	0.028425	0.105048	Tmem238
695.8435	601.6738	455.182	491.44	0.455282045	0.028491	0.105247	Btbd6
345.8446	310.1963	194.582	242.671	0.588381165	0.028618	0.105521	Magi3
1799.846	1537.611	1307.34	1259.7	0.378038653	0.028649	0.105612	Trmt2a
4.15429	11.58779	0	0	5.380882899	0.028678	1	Gm14151
5702.801	5522.029	4752.48	4246.14	0.318578801	0.028687	0.105698	Vdac1
625.2206	591.8688	443.02	458.514	0.433223296	0.028729	0.105786	Orc5
309.4946	286.1293	201.531	202.429	0.559816104	0.028749	0.105836	Zfp961
3558.149	3115.333	2596.45	2679.14	0.339054246	0.028776	0.105863	Rnpepl1
2308.746	2418.283	1871.98	1912.1	0.321227618	0.02879	0.10588	Ppp4r2
262.7588	243.3436	183.289	130.482	0.683793195	0.028794	0.10588	F2rl3
788.2765	802.2318	630.653	562.168	0.413789096	0.028841	0.106003	Cdyl
862.0151	869.0844	681.904	635.335	0.393345285	0.028876	0.106083	Fam206a
209.7916	197.8838	143.33	97.5563	0.75206022	0.028909	0.106183	Ift74
41.5429	55.26486	20.848	14.6334	1.438855156	0.028919	0.106195	Ankrd29
391.5418	483.1218	285.792	318.277	0.536430772	0.029065	0.106611	Armxc4
19.73288	28.5238	6.08067	4.87781	2.131353098	0.029066	0.106611	Baiap212
833.9737	1083.013	759.215	552.412	0.545965794	0.029115	0.106721	Dlg2
17.65573	16.04464	3.47467	1.21945	2.792983295	0.029141	0.106791	Fzd3
356.2303	345.851	264.944	202.429	0.582836531	0.029309	0.107283	Eif5a2
962.7566	777.2735	685.379	547.535	0.494681318	0.029351	0.107391	Atpaf2



3112.602	2523.465	2128.24	2199.89	0.380806924	0.029636	0.108237	Rexo1
418.5447	436.7706	318.801	289.01	0.491432428	0.029675	0.10833	Ttll3
3973.578	4213.5	3467.72	2984	0.343239315	0.029829	0.108789	Exoc4
876.5551	803.1232	683.641	498.756	0.503699304	0.029835	0.108789	Slc45a4
4426.396	3641.241	3084.64	3187.65	0.363060831	0.02997	0.109159	Lta4h
1504.891	1299.616	1068.46	1088.97	0.378199318	0.030065	0.109342	Pim3
1309.64	1183.738	1012.87	880.445	0.395762149	0.030086	0.109358	Champ1
10.38572	10.69642	0.86867	0	4.394106302	0.030127	1	Gm37729
181.7502	235.3213	138.118	115.848	0.713724096	0.030158	0.109578	Arntl2
19.73288	25.84969	6.08067	3.65836	2.206469221	0.03017	0.109578	AC153512.1
221.2159	203.2321	139.855	131.701	0.642537886	0.030183	0.109588	Ercc8
35.31146	34.76338	13.8987	3.65836	1.959793213	0.030209	0.109657	Mras
33824.23	30649.71	27830.4	20535.6	0.414624838	0.03026	0.109776	Eif5a
5622.831	5014.84	4298.17	4247.36	0.315795053	0.030262	0.109776	Atp5g3
78.9315	90.02824	46.0394	36.5836	1.026818701	0.030318	0.109956	Echdc2
1836.196	1710.536	1315.16	1459.69	0.354646718	0.030433	0.110316	Ddi2
2509.191	2262.294	2006.62	1592.61	0.405661049	0.030438	0.110316	Ciapi1
76.85436	59.7217	33.0094	28.0474	1.155384838	0.030482	0.110424	Farp2
1052.074	937.7198	761.821	757.28	0.38893719	0.030643	0.11091	Fbxo21
2126.996	1897.724	1626.15	1530.41	0.349911579	0.030645	0.11091	Sf3a3
1083.231	1060.729	857.375	801.181	0.369549412	0.030695	0.110997	Usp31
6252.206	5396.346	4846.3	4279.06	0.351822095	0.030709	0.110997	Psmb4
8189.144	6974.96	6000.76	6050.93	0.331341473	0.030717	0.111003	Ddx3x
253.4117	217.494	160.703	141.457	0.63680643	0.030751	0.1111	Adal
1271.213	1148.083	944.242	928.004	0.369330555	0.030792	0.111198	Ppp1r7
3469.87	3154.554	2633.8	2679.14	0.318215498	0.030943	0.111669	Prkd2
1107.118	1014.378	833.052	799.961	0.376819393	0.030948	0.111669	Pus7
848.5137	642.6768	568.977	470.709	0.517960045	0.031001	0.111706	Pdp1
898.3651	815.6023	689.722	574.362	0.437115539	0.031009	0.111706	Cars2
678.1878	597.217	469.949	471.928	0.436854133	0.031107	0.11201	Gmeb1
2771.95	2561.794	2178.62	2085.27	0.322593761	0.031135	0.112087	Smg7
965.8723	920.7838	779.195	531.682	0.522656822	0.031168	0.112131	Mcur1
129.8216	119.4434	78.1801	58.5338	0.859448215	0.031216	0.112252	Gm14276
2058.451	1862.069	1581.84	1509.68	0.342188028	0.031381	0.112794	Pcif1
1566.167	1074.991	876.486	979.221	0.509198841	0.031515	0.113151	Dctpp1
2052.219	1818.392	1492.37	1547.49	0.348530601	0.031603	0.113391	Slc25a17
632.4906	522.342	299.69	458.514	0.6101372	0.031645	0.113491	Troap
1040.65	891.3687	679.298	764.597	0.420787097	0.031659	0.1135	Exosc7
771.6593	671.2006	528.15	545.096	0.426787997	0.031668	0.1135	Polr1e
620.0277	601.6738	419.566	480.465	0.442549299	0.031749	0.113726	McpH1
526.5562	463.5117	390.032	262.182	0.597810035	0.031813	0.113916	Smco4
703.1135	679.2229	514.251	529.243	0.405927565	0.031905	0.114195	Med4
1423.883	1232.763	989.412	1051.17	0.380733125	0.031929	0.114256	Abcd1
1769.727	1413.711	1263.91	1110.92	0.421624065	0.032204	0.114987	Klf16
1372.993	1282.68	1064.12	1013.37	0.35358092	0.032249	0.115118	Xrcc1

121.513	133.7053	76.4427	69.5088	0.804551854	0.03235	0.115456	Kif5c
1293.023	1254.156	1018.95	981.66	0.347994943	0.032513	0.115908	Dnttip2
2852.958	2486.027	2128.24	2091.36	0.339146705	0.032596	0.116129	Lrwd1
4858.442	4382.86	3872.52	3485.2	0.328415554	0.032678	0.116303	Mapre1
1817.502	2407.587	1380.31	1695.04	0.45930167	0.032686	0.116303	Sema4f
422.699	385.0713	301.428	267.06	0.504389734	0.032697	0.116308	Bcl2a1b
720.7693	731.8137	537.705	564.607	0.398812534	0.032775	0.11656	Slc9a5
1632.636	1500.173	1250.88	1217.01	0.343719413	0.03279	0.116583	Ppp1r11
1923.436	1912.877	1517.56	1557.24	0.319407546	0.032805	0.116587	Crebbp
620.0277	534.8212	443.02	390.225	0.468664875	0.032813	0.116591	Gm10039
502.6691	410.921	312.72	330.472	0.5062016	0.032966	0.117031	Ssscal
748.8107	795.9922	291.872	60.9727	2.128371244	0.032984	0.117069	Gucyl1a3
309.4946	325.3496	225.854	213.404	0.530557898	0.033026	0.117193	Lix11
338.5746	336.9374	257.126	191.454	0.586182839	0.033108	0.117457	Zfp932
387.3875	270.9761	231.934	182.918	0.662009285	0.03335	0.118231	Engase
3720.166	3367.591	2892.66	2805.96	0.31444471	0.033465	0.118566	Aen
992.8752	967.135	812.204	615.824	0.454581624	0.033513	0.118685	Gtf2h3
966.9109	890.4773	751.397	646.31	0.408431245	0.033542	0.118763	Cetn3
1370.916	1227.415	1081.49	820.692	0.448024317	0.033579	0.118868	Zcchc17
14588.83	14913.49	12749.4	10925.1	0.317347125	0.033632	0.118976	Cd28
4353.696	3919.348	3345.24	3324.23	0.310691534	0.033665	0.119054	Dnaja2
1568.244	1449.365	1248.28	1081.66	0.371885274	0.033685	0.119059	Tfe3
331.3046	342.2856	257.994	181.699	0.610624251	0.033765	0.119318	Wdr35
2625.511	2365.692	1952.76	2025.51	0.327251403	0.033856	0.119585	Smc3
266.9131	244.235	184.158	148.773	0.614171256	0.033883	0.119655	Zfp764
35.31146	38.32885	13.03	12.1945	1.543845893	0.033965	0.119865	Gprc5b
5701.763	4754.56	4105.32	4147.36	0.341317105	0.033981	0.119897	Acs15
608.6034	607.0221	491.666	354.861	0.518768484	0.034055	0.120133	Pak6
17.65573	4.456843	0.86867	0	4.460498535	0.034065	1	Rprml
84.12437	87.35413	41.696	46.3392	0.964991538	0.034116	0.120314	Carmil3
2737.677	2519.008	2000.54	2185.26	0.328961329	0.034157	0.120411	Rabl6
1972.249	1815.718	1561	1424.32	0.342742874	0.03426	0.120685	Psmb7
16.61716	35.65475	7.81801	3.65836	2.16368785	0.034269	0.120685	Mb21d2
3008.744	2568.924	2215.1	2179.16	0.343727948	0.034273	0.120685	Map1s
972.1038	960.0041	718.388	775.572	0.371850078	0.034287	0.120685	Hadh
51.92862	47.24254	24.3227	9.75563	1.517460248	0.03431	0.120739	Plcd4
55.04434	17.82737	11.2927	7.31672	1.95256179	0.034342	0.120825	Alpl
8196.414	7469.669	6118.03	6576.51	0.303518211	0.034373	0.12091	Nap111
1438.423	1350.424	995.493	1157.26	0.374487255	0.034412	0.121008	Ptprv
563.9448	481.3391	325.75	408.517	0.511658108	0.034416	0.121008	Fntb
1741.686	1679.339	1410.72	1298.72	0.335710806	0.034448	0.121068	Tcea1
1922.398	1787.194	1510.61	1437.74	0.330817447	0.034596	0.121534	Arfgef2
11.4243	3.565475	0	0	5.303444638	0.034651	1	Hs6st3
104.8958	106.9642	66.0187	43.9003	0.93757103	0.034729	0.121976	5033430I15Rik
3146.874	2741.85	2309.79	2366.96	0.332351195	0.034762	0.122038	Trim27

1496.583	1411.037	1178.78	1114.58	0.341716903	0.034881	0.122377	Sap30bp
1155.931	1115.102	951.191	526.804	0.617298344	0.034898	0.12241	Tubb2a
221.2159	216.6026	147.673	139.018	0.60942326	0.034974	0.122622	Vsig10
272.106	256.7142	170.259	186.576	0.56897352	0.034996	0.122646	Lpar5
1569.283	1445.8	1193.55	1188.97	0.339445555	0.035124	0.123015	Kansl2
523.4405	449.2498	337.912	362.178	0.474751315	0.035159	0.12311	Cwfl19l1
3477.14	3367.591	2872.68	2673.04	0.303239885	0.035301	0.123473	Phrf1
17086.59	19118.08	15533.5	13068.9	0.339944464	0.03533	0.123548	Mknk2
2693.018	2368.367	2094.36	1876.74	0.349265838	0.035355	0.123569	Rbm8a
21242.96	19421.14	17677.4	13470.1	0.384489642	0.035489	0.123942	Cd6
31.15717	13.37053	6.08067	1.21945	2.552566556	0.035501	0.123959	Ncam1
1300.293	1185.52	965.09	979.221	0.354303822	0.035557	0.124081	Plrg1
1278.483	1094.601	945.979	863.373	0.390104803	0.0357	0.124517	Dera
512.0162	432.3138	324.013	351.203	0.484342024	0.035821	0.124806	Rpusd1
52.96719	27.63243	16.5047	7.31672	1.733427821	0.035852	0.124858	Dlk2
1041.688	1076.773	882.566	690.211	0.427843182	0.035988	0.12517	Tmem8
799.7008	811.1455	647.157	576.801	0.394948796	0.036085	0.12548	Abcc4
578.4848	512.537	383.951	415.834	0.448576651	0.036108	0.125512	Eral1
1010.531	859.2794	735.761	670.699	0.40941928	0.036109	0.125512	Mrps12
578.4848	483.1218	410.88	337.789	0.50082686	0.03613	0.125554	Eef1akmt1
1802.962	1504.63	1132.74	1359.69	0.408911787	0.036182	0.125708	Tank
313.6489	246.9091	196.319	170.723	0.607459336	0.036223	0.125823	Abhd10
469.4347	429.6397	343.992	298.766	0.481614254	0.036241	0.125861	Bcl6
5945.827	5502.419	4568.32	4772.94	0.293485973	0.036345	0.126084	Supt5
25.96431	30.30653	7.81801	8.53617	1.787100546	0.036585	0.126755	Kcna2
92.43295	64.17854	40.8274	32.9252	1.07900933	0.036594	0.126758	Ntn1
57.12148	59.7217	29.5347	20.7307	1.207115449	0.036691	0.126965	MacroD2
1317.948	1090.144	897.334	935.321	0.393794189	0.036693	0.126965	Rnaseh2c
1631.597	1706.971	1404.64	1182.87	0.366643488	0.036762	0.127178	Tarbp2
3836.487	3277.563	3007.33	2429.15	0.38725948	0.036803	0.127293	Phc2
1720.914	1879.005	1517.56	1237.75	0.384777891	0.036883	0.127487	Pofut1
4988.263	4847.263	4167	3862.01	0.292495371	0.037037	0.127989	Vav1
313.6489	284.3466	218.036	189.015	0.551842135	0.037156	0.128348	Zfp770
482.9362	456.3808	356.154	329.252	0.453120612	0.037298	0.128727	Timm9
407.1204	374.3748	304.902	221.94	0.564365057	0.037517	0.12926	Pusl1
2060.528	1850.481	1589.66	1513.34	0.333315355	0.03762	0.129479	Usp39
22.84859	26.74106	6.94934	6.09727	1.921977328	0.03764	0.129498	Gm11592
1484.12	1667.751	1338.62	769.475	0.578647887	0.037676	0.129589	Phf11b
44.65861	35.65475	16.5047	12.1945	1.473413433	0.037765	0.129801	Slc17a7
3444.945	3269.54	2860.52	2495	0.32563551	0.037837	0.129975	Hprt
5126.393	4697.513	4004.56	4010.78	0.293439545	0.037862	0.130033	Zc3h4
1355.337	1419.059	1168.36	538.998	0.698445989	0.037884	0.130081	Gstt3
1335.604	1309.421	1070.2	1026.78	0.334509258	0.037999	0.130394	Prpf38a
106.973	98.05055	65.1501	26.828	1.141248145	0.038024	0.13045	Ubtd2
4586.336	4291.94	3703.13	3543.73	0.292680005	0.038036	0.13045	Chtop

10799.08	10494.08	9250.44	7784.99	0.321618228	0.038056	0.130478	Caprin1
545.2505	489.3614	393.506	364.617	0.446962269	0.03807	0.130497	Dock6
325.0732	427.857	286.66	114.629	0.90248122	0.0381	0.130572	Ptprk
642.8763	583.8465	485.585	415.834	0.442202342	0.038173	0.130766	Mrpl27
1673.14	1509.979	1304.74	1192.63	0.34912026	0.038191	0.130802	Ppp1r2
539.0191	403.79	308.377	343.886	0.5317835	0.038283	0.131061	Chek2
284.5688	257.6055	154.623	202.429	0.606634315	0.038349	0.131203	Snai3
2122.842	2100.065	1744.28	1665.77	0.308095592	0.038369	0.131245	Setdb1
1470.619	1275.549	1048.48	1088.97	0.361451009	0.038461	0.131529	Gm10052
2167.501	2044.8	1763.4	1588.95	0.32867307	0.038494	0.131615	Gps1
1505.93	1276.44	1080.62	1074.34	0.368190541	0.038613	0.131995	Zw10
131.8987	118.552	80.7861	59.7532	0.826267339	0.038625	0.131999	Ttc32
34.27289	8.022318	3.47467	3.65836	2.564944409	0.038732	0.132262	Ighv1-64
226.4088	221.9508	145.936	152.432	0.588355289	0.038829	0.132536	Fancl
1352.221	1241.677	1074.54	925.565	0.373634239	0.03886	0.132603	Nip7
263.7974	238.8868	187.632	126.823	0.670424599	0.038865	0.132603	9230114K14Rik
116.3201	107.8556	59.9381	67.0699	0.822015438	0.038941	0.132807	Rtl10
6438.11	6061.307	5313.64	4882.69	0.293542492	0.038963	0.132826	Rnf10
109.0501	81.11455	46.908	52.4365	0.937699294	0.038987	0.13288	Gm11998
11.4243	8.022318	0.86867	0	4.277171627	0.039045	1	Cyp4a12a
100.7415	64.17854	34.7467	43.9003	1.071453071	0.039093	0.133166	Chd3os
39.46575	22.28422	9.55534	8.53617	1.764039698	0.039138	0.133231	Nanp
129.8216	147.9672	94.6848	41.4614	1.017417392	0.039155	0.133231	Ninl
2589.161	2245.358	1969.27	1856.01	0.337260155	0.03916	0.133231	Rfc1
418.5447	385.0713	303.165	270.719	0.48347958	0.039165	0.133231	Coq10b
2678.478	2521.682	1934.52	2204.77	0.329717202	0.039186	0.133276	Rere
4664.229	4191.215	3826.48	2896.2	0.396872053	0.039214	0.133343	Ywhab
12.46287	7.130949	0.86867	0	4.28741368	0.039259	1	S100a5
1593.17	1553.656	1329.93	1104.82	0.368827852	0.039314	0.133598	Arhgap21
372.8475	300.3912	255.388	180.479	0.621999796	0.03942	0.133875	Dennd2c
4166.753	4533.501	3726.58	3177.9	0.33314587	0.039607	0.134423	Cyld
1110.234	1016.16	875.617	745.086	0.39009314	0.039674	0.134562	Mis12
151.6316	97.15918	65.1501	69.5088	0.884732698	0.039698	0.134562	Gm11223
155.7859	123.0089	92.0788	63.4116	0.833957633	0.039763	0.134727	Cd79a
620.0277	549.0831	417.829	449.978	0.430440367	0.039763	0.134727	Dph2
303.2631	278.9984	220.642	160.968	0.604351426	0.039809	0.134855	Cnyll1
1832.042	1374.49	1258.7	1115.8	0.432344289	0.039887	0.135049	Rpia
680.2649	584.7378	456.05	484.123	0.428281428	0.039955	0.135231	Mical3
871.3623	793.3181	628.047	651.188	0.380024152	0.039962	0.135231	Nedd1
833.9737	756.772	651.501	519.487	0.439499799	0.040088	0.135515	Zfp628
229.5245	169.36	141.593	82.9228	0.820689427	0.040214	0.135856	Reep2
2947.469	3075.222	2588.63	2151.12	0.344932208	0.040251	0.135951	Skp1a
1323.141	1247.025	1047.61	979.221	0.34182467	0.040373	0.13625	Mon1b
147.4773	196.9925	79.9174	119.506	0.796560133	0.040404	0.136326	Myo1h
6.231435	13.37053	0.86867	0	4.2941428	0.040453	1	Igkv8-28

6034.106	4961.358	4611.76	3907.13	0.367733423	0.04053	0.136666	Ptpa
851.6294	782.6217	660.187	578.021	0.398602139	0.040548	0.136697	Fam234a
1024.032	1062.511	849.557	778.011	0.357606779	0.040649	0.136971	Pwp1
105.9344	103.3988	62.5441	53.6559	0.845187435	0.040655	0.136971	Prx
699.9978	646.2423	523.806	496.317	0.39912127	0.040676	0.136995	Naa16
436.2004	324.4582	286.66	208.527	0.614675412	0.040734	0.137065	Uchl3
2430.259	2213.268	1941.47	1754.79	0.328424805	0.040825	0.137287	Xpo7
2115.572	1858.504	1653.94	1451.15	0.35501272	0.040844	0.137308	Trim11
5854.433	5072.779	4625.65	4016.88	0.337979547	0.040909	0.137407	Abcf1
4942.566	4604.811	3829.09	3992.49	0.287703465	0.040912	0.137407	Dcaf7
377.0018	369.918	246.702	285.352	0.491714062	0.040939	0.137455	Macrodl
19.73288	16.04464	4.34334	2.43891	2.371659644	0.040943	0.137455	Peg3
6537.813	5859.858	5022.64	5093.66	0.293328953	0.041023	0.137635	Rrp1
933.6766	779.0562	705.358	509.731	0.492461044	0.041057	0.137695	Polr2l
840.2051	697.9417	582.876	569.485	0.415697337	0.04116	0.138009	Ubqln2
563.9448	537.4953	437.808	370.714	0.443582635	0.041297	0.138411	Psmg4
785.1607	679.2229	522.069	576.801	0.414874857	0.041325	0.138449	Mmgt1
3035.747	2769.482	2470.49	2114.53	0.339657803	0.04137	0.138572	Pip5k1c
3351.473	3081.461	2616.43	2618.17	0.297266302	0.041383	0.138583	Ints3
930.5609	820.9505	687.985	653.627	0.383620046	0.041391	0.138584	Dxo
1519.431	1342.401	1149.25	1098.73	0.347622515	0.04141	0.138588	Cnot11
49.85148	17.82737	10.424	0	2.645200803	0.0416	0.139111	Gbp2b
2923.581	2867.533	2428.79	2296.23	0.293183192	0.041734	0.139472	Rsl1d1
930.5609	890.4773	734.893	676.797	0.366235882	0.041768	0.139557	Rmdn3
179.673	158.6636	98.1594	113.409	0.679681889	0.04182	0.139615	Ftx
1551.627	1449.365	1262.17	1068.24	0.363526596	0.041855	0.139674	Ash2l
2.077145	70.41812	0	0	7.581304355	0.041896	0.139754	Ighv1-72
1035.457	1070.534	885.172	691.43	0.415822917	0.041897	0.139754	Mphosph6
7481.876	7301.201	6378.63	5698.51	0.29141217	0.041971	0.139945	Rbck1
4972.685	4647.596	4216.51	2781.57	0.458482544	0.042029	0.14011	Rgs1
31.15717	24.06695	9.55534	6.09727	1.800908484	0.042045	0.140131	Aoc3
174.4802	153.3154	105.977	19.5113	1.372816764	0.042072	0.140183	Plagl1
6.231435	7.130949	0	0	5.141703474	0.04222	1	Cygb
55.04434	89.13687	39.9587	10.9751	1.482077497	0.042233	0.140614	Pard3b
3367.052	2630.429	1712.14	2549.88	0.493485786	0.042291	0.140748	Lbh
8327.274	7646.16	6326.51	6764.31	0.287194816	0.042368	0.140971	Ddx39b
762.3122	741.6187	622.835	476.806	0.4490636	0.042375	0.140971	Hikeshi
17.65573	21.39285	1.73733	6.09727	2.367517775	0.04242	0.14105	Amph
2258.895	2055.496	1733.86	1738.94	0.312871148	0.042423	0.14105	Ampd2
1054.151	1101.732	832.183	867.031	0.344006895	0.042432	0.14105	Mbtd1
535.9034	412.7037	370.052	264.621	0.575671062	0.042434	0.14105	Timm8a1
50.89005	36.54612	20.848	8.53617	1.548452142	0.042451	0.141076	AC139323.1
1267.058	1033.096	868.667	886.543	0.389716502	0.04269	0.141785	Paip2b
179.673	172.0342	126.825	54.8754	0.942468848	0.042699	0.141785	Kbtbd8
141.2458	221.9508	77.3114	124.384	0.856788846	0.04277	0.141906	Bace2

1029.225	945.7422	772.245	770.694	0.355814174	0.042771	0.141906	Gps2
1607.71	1484.129	1183.13	1273.11	0.332381482	0.042783	0.141906	Tomm34
1408.304	1231.871	1031.98	1037.75	0.350860189	0.042788	0.141906	Eif2b4
2613.048	2654.496	2195.12	2107.22	0.291801985	0.042833	0.142024	Eps15
389.4647	334.2632	271.893	232.916	0.516564158	0.042842	0.142026	Palb2
617.9506	592.7602	428.253	481.684	0.413434872	0.042855	0.142038	Zgrf1
3171.8	2812.268	2250.72	2515.73	0.328506718	0.04296	0.142328	Odf2
4720.312	4121.689	3726.58	3324.23	0.326124971	0.042972	0.142341	Metap2
16.61716	10.69642	2.606	0	3.27965541	0.042996	0.142362	Ighv1-53
1112.311	1036.662	823.497	864.592	0.348514748	0.043198	0.14294	Srsf4
6287.517	6832.341	5244.15	5527.78	0.284675843	0.043226	0.143006	Mycbp2
270.0288	254.9314	198.925	140.237	0.624523589	0.043269	0.143119	Fam109a
5794.196	5284.925	4549.21	4544.9	0.284742923	0.043427	0.143552	Brd4
976.2581	850.3657	762.69	540.218	0.484786273	0.043467	0.143625	Cpox
382.1947	297.7171	246.702	215.843	0.552673034	0.043506	0.143694	Anapc15
4398.354	3655.503	3419.08	2755.96	0.382581992	0.04358	0.14385	Cenpb
1200.59	1111.537	929.474	892.64	0.342949152	0.043601	0.143874	Thoc5
3594.499	4039.683	3279.22	2691.33	0.354157024	0.043616	0.143881	Itpr1
391.5418	402.0073	312.72	241.452	0.514435859	0.043693	0.144019	Luzp1
87.24008	82.89729	52.9887	23.1696	1.143671945	0.043858	0.144472	10-Sep
2201.774	2160.678	1862.42	1604.8	0.330489451	0.043957	0.144652	Drg1
2454.147	2210.594	1757.31	1958.44	0.328527505	0.044013	0.144784	Sfswap
76.85436	98.05055	52.9887	32.9252	1.016326276	0.044042	0.144784	Clec2l
2764.68	2434.328	2052.66	2120.63	0.316996563	0.044107	0.144937	Twf2
547.3277	434.9879	357.891	347.544	0.476352794	0.04418	0.145119	Apex2
1.038572	203.2321	0	0	9.075349182	0.044267	0.14529	Igkv3-1
30.1186	20.50148	7.81801	0	2.62869183	0.044338	0.145431	Iqcf3
389.4647	160.4464	118.139	169.504	0.936314903	0.044396	0.145592	Etv4
1449.847	1418.168	1199.63	1071.9	0.335401155	0.044591	0.146156	Nop14
995.9909	804.9059	708.833	637.774	0.417835818	0.044595	0.146156	Med9
3739.899	3337.284	2918.72	2818.16	0.302610726	0.044617	0.14619	Snx3
10083.5	8503.657	8026.49	6239.94	0.381369376	0.044624	0.14619	Calm3
3186.34	3441.574	2800.58	2574.27	0.302081617	0.044676	0.146332	Msi2
69.58435	141.7276	59.0694	40.242	1.085331112	0.044702	0.146355	Pkhd11l
2436.491	2234.661	2008.36	1599.92	0.371386657	0.044721	0.146388	Psm6
493.3219	384.1799	334.437	271.938	0.529759709	0.044792	0.146564	Cox11
825.6651	790.644	641.945	612.166	0.365264966	0.04494	0.146963	Ing5
4051.471	3710.768	3260.98	3062.05	0.295502	0.044978	0.146963	Api5
3053.403	2707.978	2366.25	2279.16	0.310239382	0.044987	0.146963	Samm50
1010.531	942.1767	800.911	709.722	0.368859054	0.045025	0.147025	Ldah
882.7866	795.9922	644.551	653.627	0.370683611	0.045168	0.147435	Tdp2
39.46575	35.65475	17.3733	6.09727	1.649694345	0.045236	0.147606	Rnf223
20286.44	17766.76	16110.3	14842	0.297874318	0.045239	0.147606	Atp5a1
2252.664	2105.413	1856.34	1596.26	0.335068013	0.045358	0.147903	Rars
1213.053	1103.514	972.908	785.328	0.396015287	0.045497	0.148267	Rsl24d1

3290.197	3298.064	2695.48	2740.11	0.277548327	0.045506	0.148267	Zswim4
3843.757	3274.888	2784.08	2912.05	0.321586884	0.045517	0.148274	Uqrc1
741.5407	722.9	575.058	557.29	0.370500716	0.045646	0.1486	Lrrc40
18356.77	16833.5	15115.7	13783.5	0.284038474	0.04569	0.148686	Tpm3
1564.09	2191.876	1563.6	1012.15	0.543281557	0.045734	0.148758	Batf3
247.1802	205.9062	153.754	146.334	0.592398265	0.045772	0.148833	Gm11560
386.3489	311.0877	226.722	257.305	0.527897084	0.046025	0.149501	Cep78
192.1359	126.5744	85.9981	99.9952	0.777759809	0.046041	0.149501	Gm15452
4502.211	3837.342	3527.66	3051.07	0.341622139	0.046087	0.149585	E2f4
25.96431	30.30653	7.81801	9.75563	1.68818827	0.046279	0.150027	Rasl11a
1929.668	1752.431	1542.75	1377.98	0.333266478	0.046302	0.150073	Eif2b5
2161.269	1914.66	1637.44	1630.41	0.318503105	0.046463	0.15038	Zfp865
48.8129	64.17854	30.4034	15.8529	1.273813351	0.046472	0.15038	Tmod2
28.04146	22.28422	8.68667	4.87781	1.868820416	0.046474	0.15038	Jam3
480.859	381.5058	316.195	296.327	0.491651445	0.046488	0.15038	Thoc6
510.9776	419.8346	349.204	321.936	0.469903516	0.046517	0.150436	2410004B18Rik
425.8147	290.5862	260.6	206.088	0.614359908	0.046712	0.151007	Gfra1
226.4088	207.6889	163.309	73.1672	0.867445426	0.04673	0.15102	Kcnc3
778.9293	612.3703	462.131	548.754	0.461735862	0.046744	0.15102	D1Ertd622e
82.04722	57.93896	32.1407	35.3641	1.052648879	0.046941	0.151596	Gm9774
33.23432	24.95832	8.68667	9.75563	1.660302637	0.04704	0.151847	Platr14
524.4791	483.1218	365.709	386.567	0.422027076	0.047093	0.151966	Dctd
1001.184	982.2883	842.607	615.824	0.441321925	0.047145	0.152054	Gm4737
889.018	771.0339	589.825	670.699	0.398044277	0.047256	0.152247	Psmg2
6872.234	5860.749	5365.76	4825.38	0.320941083	0.047346	0.152461	Lrmp
1563.051	1344.184	1122.32	1164.58	0.34615482	0.047346	0.152461	Fh1
160.9787	308.4136	138.987	132.92	0.789054982	0.047365	0.152461	Kif1a
287.6846	243.3436	191.976	167.065	0.561284105	0.04737	0.152461	Jade3
2675.363	2063.518	1924.1	1684.06	0.39248008	0.047472	0.152668	Ccdc124
721.8078	705.0726	471.686	592.654	0.425239763	0.04749	0.152696	Telo2
7466.297	6841.255	5946.9	5883.86	0.274138611	0.047598	0.153012	Ppp1cc
25.96431	16.936	6.94934	1.21945	2.337646216	0.047654	0.153157	Tmem255a
84.12437	75.76634	45.1707	37.8031	0.940993453	0.047665	0.153157	Pecr
729.0778	727.3568	590.694	525.584	0.382281951	0.047672	0.153157	Prpsap2
695.8435	681.897	579.401	358.519	0.55136247	0.047709	0.153247	Meis3
347.9218	459.0549	311.852	228.038	0.577281323	0.047842	0.153583	Mast4
2486.342	2275.664	2050.06	1668.21	0.355918136	0.047915	0.153787	Cpsf2
1640.944	1468.976	1289.97	1167.02	0.338992821	0.047945	0.153852	Pmm2
6.231435	22.28422	2.606	0	3.354599106	0.047994	0.153962	Faxc
1122.697	1070.534	917.313	785.328	0.363739916	0.048004	0.153962	Sh3bp5l
1571.36	1372.708	1258.7	914.59	0.436156774	0.048028	0.153995	Galnt7
58.16006	57.04759	31.272	19.5113	1.169062959	0.048152	0.154281	Adgrd1
27.00288	27.63243	10.424	1.21945	2.180560309	0.04816	0.154281	Myrf1
1924.475	1641.01	1500.19	1243.84	0.376548562	0.048247	0.154484	Hbs1l
42.58147	37.43748	17.3733	13.414	1.368901797	0.048357	0.154752	Crocc2

25.96431	4.456843	2.606	0	3.443687391	0.04836	0.154752	Nkx1-1
2445.838	2245.358	1984.91	1779.18	0.316908537	0.048377	0.154776	Timm13
438.2776	385.0713	321.407	263.402	0.490134265	0.048419	0.15488	Orc1
54.00577	79.33181	38.2214	15.8529	1.286042786	0.048481	0.154986	Fam135a
946.1395	1250.59	898.202	680.455	0.47557399	0.048513	0.155027	Ncoa7
1683.526	1471.65	1288.23	1207.26	0.337608078	0.048553	0.155123	Ints5
3018.091	3003.912	2634.67	2043.8	0.363367303	0.048605	0.155205	Fam53b
1989.905	1818.392	1566.21	1503.59	0.310511633	0.048607	0.155205	Cers5
1466.464	1309.421	1056.3	1138.97	0.338848467	0.048687	0.155396	Strbp
7.270007	10.69642	0.86867	0	4.167476056	0.04869	1	Gm14145
4585.297	3765.141	3458.17	3138.87	0.339598141	0.048711	0.155425	Sh3kbp1
2697.173	2688.368	2055.27	2310.86	0.303323332	0.048727	0.155425	Helz
1323.141	1145.409	1024.16	873.129	0.378184452	0.048779	0.155538	Pura
1282.637	1142.735	1013.73	854.837	0.374665032	0.048844	0.155684	Tti1
59.19863	88.2455	42.5647	24.3891	1.12868468	0.048904	0.155816	Abca5
82.04722	85.57139	42.5647	47.5587	0.898434414	0.049022	0.156096	Gm37198
1030.264	921.6752	789.619	728.014	0.361885416	0.049042	0.156108	Pfdn2
4032.777	3904.195	3221.89	3348.62	0.27269718	0.049045	0.156108	Rdx
149.5544	155.9895	105.977	80.4839	0.707027631	0.049112	0.15629	Rnf144b
663.6478	564.2364	434.334	481.684	0.423351836	0.049123	0.156295	Crocc
872.4008	755.8806	655.844	581.679	0.394153775	0.049321	0.156801	Nudcd1
1494.506	1367.36	1149.25	1141.41	0.32087714	0.04949	0.157209	Yeats2
1046.881	986.7451	695.803	858.495	0.389415356	0.049498	0.157209	Unk
3278.773	3533.385	2195.99	2993.76	0.393283293	0.049605	0.157423	Rasgrp1
705.1907	599.8911	484.716	499.976	0.406127834	0.049718	0.15774	Cenpl
627.2977	699.7244	509.039	506.073	0.386950945	0.049777	0.157846	Phlpp2



**Supplemental Table 3. Common genes generated by RNA-Seq and ChIP-Seq data**

<b>161 common gene in "Differentially expressed genes" and "Genes with E4BP4 enrichment in promoter region"</b>
Ighm
Hivep3
Tal1
Tex2
Ccna2
Snap23
Abcb9
Tnfrsf9
Wipi1
Ugcg
Ncapg2
Msmo1
Nabp1
Rcc1
Mbnl1
Nbeal1
Mapre2
Oasl1
Spr
Ksr1
Hspd1
Mob3c
Mxi1
Wdhd1
Figl1
Ahi1
Txlna
Hmgn2
Gen1
Irf2bp1
Fam214b
Pcbp3
Cdk17

Cdk4
Diaph1
Tubg1
Ptma
Ilf3
Tnfaip3
Paxbp1
Plxnc1
Tiparp
Samd1
Pwp2
Hjurp
Mfsd2a
Palm3
Sart3
Trim59
Nup188
Jak2
Actn4
Rnps1
Mindy2
Gm2a
Ncaph
Cdc7
Mettl1
Lpcat1
Zc3h18
Pole4
Slc6a6
Tdg
Nop2
Rara
Pknox1
Psen2
Smpd4
Hnrnpd
Ctbp1
Hmgb1
Ikkap
Nampt
Abhd18
AW549877
Ptpn1

Psmc9
Serf2
Ublcp1
Dusp22
Diablo
Fau
Rps24
Parp6
Rps15
Phtf1
Wdr1
Rsrp1
Hsp90aa1
Nup107
Rpl5
Dazap1
Polh
Gtf3c1
Set
Mrpl49
Smc6
Ddit3
Spag9
Stx2
Nfyc
Xpo5
Ptges3
Socs1
Rab33b
Rad23b
Brox
Zcchc6
Rrbp1
Spen
Adipor2
Rps29
Adam10
Taf4b
Hint3
Mapk6
Eml4
Fam46c
Szrd1
Ldlrap1
Slc35a5

Cep72
Utp15
Psma4
Gjc1
Tmem267
Park7
Preli3a
Crtc1
Brd2
Preli3b
Pds5b
N6amt1
Nfat5
Cops3
Slc11a2
Ndufa13
Dhd1
Ep400
Tmem135
Ddx59
Nudt6
Btbd6
Fam206a
Trim41
Ciapi1
Smg7
Xrcc1
Arfgef2
Abhd10
Bcl6
Rffl
Nip7
Cmc1
Naa16
Usp20
Snx3
Azi2
Il6st
Shc3p11
Crocc

**Supplemental Table 4. Sample information**

<b>Characteristic</b>	<b>SLE patient ( n=60 )</b>
<b>Age, median (range), years</b>	35 (20–64)
<b>Female, %</b>	88
<b>Ethnicity, %</b>	
<b>Chinese</b>	100
<b>Glucocorticoid treatment, %</b>	97
<b>Glucocorticoid dose, prednisolone, median (range), mg/day</b>	7 (0–60)
<b>MTX, %</b>	3
<b>HCQ, %</b>	87
<b>AZA, %</b>	28
<b>MMF, %</b>	13
<b>Ciclosporin, %</b>	5
<b>SLEDAI score, median (range)</b>	4 (0–16)
<b>Renal disease, %</b>	13
<b>CNS disease, %</b>	8
<b>Cutaneous disease, %</b>	8
<b>ANA positive, %</b>	100
<b>Serum creatinine, median (range), <math>\mu</math>mol/l</b>	52 (40–662)

**Supplemental Table 5. Reagents**

<b>Reagents</b>	<b>Lot</b>	<b>Brand</b>
Purified NA.LE Rat Anti-Mouse IL-4	554385	BD biosciences
Purified NA.LE Rat Anti-Mouse IFN- $\gamma$	554430	BD biosciences
Purified NA.LE Hamster Anti-Mouse CD28	553294	BD biosciences
Purified NA.LE Hamster Anti-Mouse CD3e	553057	BD biosciences
Anti-CD3 Mouse mAb (UCHT1)	217570	Calbiochem
Anti-CD28 Mouse mAb (ANC28.1.5D 10)	217669	Calbiochem
Mouse IgG1	A90-105P	Bethyl laboratories
Mouse IgG2a	A90-107P	Bethyl laboratories
Mouse IgG2b	A90-109P	Bethyl laboratories
Mouse IgG3	A90-111P	Bethyl laboratories
Mouse IgM	A90-101A	Bethyl laboratories
Anti-FLAG(R) M2 MAGNETIC BEADS	M8823	Sigma-Aldrich
Phosphoserine Antibody	ICP9806	Immunechem
DYKDDDDK Tag (D6W5B) Rabbit mAb (Anti-FLAG® M2 Antibody)	14793	Cell signaling Technology
Mouse-E4BP4 (NFIL3) Monoclonal Antibody	12-5927-82	Thermo Fisher
Human E4BP4 (NFIL3) Monoclonal Antibody	12-9812-42	Thermo Fisher
Recombinant Murine IFN- $\gamma$	315-05	peprotech
Recombinant Murine TNF- $\alpha$	315-01A	peprotech
Recombinant Mouse IL-23 Protein	1887ML	R&D
Recombinant Mouse TGF-beta 1 Protein	7666MB	R&D
Recombinant Murine IL-1 $\beta$	211-11B	PeperoTech
Recombinant Murine IL-2	212-12	PeperoTech
Recombinant Murine IL-4	214-14	PeperoTech
Recombinant Murine IL-6	216-16	PeperoTech
Recombinant Murine IL-12	210-12	PeperoTech
Recombinant Murine IL-21	210-21	PeperoTech
recombinant human IL-6	200-06	peprotech
recombinant human IL-12	200-12	peprotech
recombinant human IL-21	200-21	peprotech
recombinant human TGF- $\beta$ 1	100-21	peprotech
Mouse IL-21	594-ML-010	Thermo Fisher
Mouse IL-6	406-ML-005	Thermo Fisher
Purified NA/LE Rat Anti-Mouse IFN- $\gamma$	554408	BD bioscience
Anti-Mouse TGF- $\beta$	16-9243-85	Thermo Fisher

Histone H3ac (pan-acetyl)antibody (pAb)	39139	Active Motif
Histone H3K27me3 antibody (pAb)	39155	ACTIVE MOTIF
HDAC1 antibody-Chip grade	40967	ACTIVE MOTIF
normal rabbit igg	2729	Cell signaling Technology
Anti-KMT6 / EZH2	ab186006	Abcam
E4BP4/NFIL3 (D5K8O) Rabbit mAb	14312S	Cell signaling Technology
E4BP4 Antibody	sc-74415	Santa cruz
APC Mouse Anti-Human CD69	555533	BD Biosciences
PE Mouse Anti-Human CD154	555700	BD Biosciences
PerCP-Cy™5.5 Foxp3	563902	BD Biosciences
APC-Cy7 Mouse Anti-Bcl-6	563581	BD biosciences
FITC Rat Anti-Mouse CD4	553729	BD biosciences
PE Rat Anti-Mouse CD4	553730	BD biosciences
APC hamster anti-mouse CD279 (PD-1)	562671	BD biosciences
PE Rat anti-mouse CD278 (ICOS)	552146	BD biosciences
PE Hamster Anti-Mouse CD95	554258	BD biosciences
Alexa Fluor® 647 Rat Anti-Mouse T- and B-Cell Activation Antigen	561529	BD biosciences
FITC Anti-mouse CD4	100510	Biolegend
FITC Rat Anti-Mouse CD4	553047	BD biosciences
PE Rat Anti-Mouse CD45RA	553989	BD biosciences
APC-Cy™7 Rat Anti-Mouse CD62L	560514	BD biosciences
PE-Cy™7 Rat Anti-Mouse CD44	560569	BD biosciences
PerCP.Cy5.5 anti-mouse CD8a	100734	Biolegend
APC anti-mouse CD3	557869	BD biosciences
PE Streptavidin RUO	554061	BD biosciences
Biotin Rat Anti-Mouse CXCR5	551960	BD biosciences
PE Rat Anti-Mouse CD25	552880	BD biosciences
PE-Cy™7 Rat Anti-Mouse CXCR5	553075	BD biosciences
APC Mouse anti-human CD69	555533	BD biosciences
PE Mouse anti-human CD154	561720	BD biosciences
APC-Cy™7 Mouse Anti-human Bcl-6	563581	BD biosciences
Biotin Rat Anti-Human CXCR5 (CD185)	552118	BD biosciences
APC Mouse Anti-Human IL-4	560671	BD bioscience
PerCP-Cy5.5 Mouse Anti-Human IFN-γ	560742	BD biosciences
Alexa Fluor® 647 Mouse anti-Human FoxP3	561184	BD biosciences
PE Anti-human CD278	12-9185	Thermo Fisher
Percp.Cy5.5 Anti-human CD185	313518	Biolegend
APC Anti-human CD279	85-17-2799-42	Thermo Fisher

PE Anti-human CD278(ICOS)	313507	Biolegend
PE-CY7 Anti-human CD185	356923	Biolegend
PerCP-Cy™5.5 Rat Anti-Mouse IL-17A	560666	BD biosciences
PE Mouse anti-Human IL-17A	560436	BD biosciences
Alexa Fluor® 647 Rat anti-Mouse IL-17A	560184	BD biosciences
APC Rat Anti-Mouse IL-4	562045	BD biosciences
APC Mouse Anti-Human IL-4	560671	BD biosciences
PerCP-Cy™5.5 Rat Anti-Mouse IFN-γ	560660	BD biosciences
Mouse IgG (total) ELISA Kit, 96 tests, Quantitative	6320	Alpha diagnostic
Alexa Fluor 488-conjugated goat anti-mouse IgG	ab150113	Abcam
BD biosciences Cytfix.Cytoperm™ Fixation.Permeabilization Solution Kit	554714	BD biosciences
Naive CD4+ T Cell Isolation Kit, mouse	130-104-453	Miltenyi Biotec
Naive CD4+T cell Isolation Kit II Human	130-094-131	Miltenyi Biotec
Human FoxP3 Buffer Set	560098	BD biosciences
Mouse FoxP3 Buffer Set	560509	BD biosciences
EZ-Magna ChIP™ A/G Chromatin Immunoprecipitation Kit	17-10086	Milipore
immunoprecipitation kit-dynabeads protein G	10007D	Thermo Fisher
M. tuberculosis H37 Ra	231141	BD biosciences
Freund's Adjuvant, Complete	F5881-10ml	Sigma-Aldrich
Keyhole Limpet Hemocyanin (KLH)	H7017	Sigma-Aldrich
Pristane	P9622	Sigma-Aldrich
Dual-Luciferase Reporter Assay System	E1910	Promega
Opti-mem I	31985070	Thermo Fisher
Lipofectamine 2000 Transfection Reagent	11668-019	Thermo Fisher
PrimeScript RT reagent Kit With gDNA Eraser (Perfect Real Time)	RR047A	Takara
P3 Primary Cell 4D-Nucleofector® X Kit L (24 RCT)	V4XP-3024	Lonza
B cell isolation kit,mouse	130-090-862	Miltenyi Biotec
PE Mouse anti-Bcl-6	561522	BD biosciences
Goat Anti-Mouse IgG2a-HRP	1081-05	SouthernBiotech
Goat Anti-Mouse IgG2b-HRP	1091-05	SouthernBiotech
NP-KLH (Keyhole Limpet Hemocyanin)	N-5060-25	Bioresearch technologies
NP-BSA (Bovine Serum Albumin), Ratio 1-4	N-5050XL- 10	Bioresearch technologies
NP-BSA (Bovine Serum Albumin), Ratio > 20	N-5050H-10	Bioresearch technologies
Goat polyclonal anti-IgG1 HRP	1071-05	SouthernBiotech
Imject™ Alum Adjuvant	77161	Thermo Fisher
FITC anti-mouse IgD	553510	BD biosciences



APC-Cy <sup>TM</sup> 7 Anti-Mouse CD69	561240	BD biosciences
PE-Cy <sup>TM</sup> 7 Anti-Mouse CD19	552854	BD biosciences
PE Anti-Mouse IgG1	550083	BD biosciences
APC anti-Mouse CD138	558626	BD biosciences
PerCP-Cy <sup>TM</sup> 5.5 Anti-Mouse IgM	562034	BD biosciences
Murine IL-4	214-14-20	PeptoTech
AffiniPure F(ab') <sub>2</sub> Fragment Goat Anti-Mouse IgM, $\mu$ chain specific	115-006-020	Jackson immunoresearch
CD40 Monoclonal Antibody (HM40-3), Functional Grade, eBioscience <sup>TM</sup>	16-0402-82	Thermo Fisher
Phospho-(Ser/Thr) Phe Antibody	9631	Cell signaling Technology
NFIL3 Antibody	11773-1-AP	Proteintech
Rat anti-C3 antibody	11H9	Abcam
Cy3-conjugated goat anti-Rat IgG	GB21302	Servicebio
Alexa Fluor 488-conjugated goat anti-mouse IgG	150113	Abcam
Mouse anti-dsDNA IgG-specific ELISA Kit	5120	Alpha diagnostic
Mouse anti-RNP IgG-specific ELISA Kit	5410	Alpha diagnostic

**Supplemental Table 6. Primers**

human $\beta$ -actin F	TGGCACCCAGCACAAATG AA
human $\beta$ -actin R	CTAAGTCATAGTCCGCCTAGAAGCA
mouse $\beta$ -actin F	AATCGTGCGTGACATCAAAG
mouse $\beta$ -actin R	GGATTCCATACCCAAGAAGG
m-Bcl6-FP	AGACGCACAGTGACAAACCA
m-Bcl6-RP	AGTGTGGGTCTTCAGGTTGG
m-IL21-FP	CGCCTCCTGATTAGACTTCG
m-IL21-RP	AAAACAGGCAAAAGCTGCAT
m-prdm1-FP	AGTGCAATGTCTGTGCCAAG
m-prdm1-RP	TTGAGATTGCTTGTGCTGCT
m-Tcf-7-FP	CAATCTGCTCATGCCCTACC
m-Tcf-7-RP	CTTGCTTCTGGCTGATGTCC
m-Pou2af1-FP	GACATGTACGTGCAGCCTGT
m-Pou2af1-RP	CGGGTGTAGCAGTGCTTCTT
m-Pdcd1-FP	CGTCCCTCAGTCAAGAGGAG
m-Pdcd1-RP	GTCCCTAGAAGTGCCCAACA
m-Tiam1-FP	TGCAGTTCCCCAGAGAGC
m-Tiam1-RP	CACACAATCTCTTGCCTCCA
m-CD40L-FP	CCTTGCTGAACTGTGAGGAGA
m-CD40L-RP	CTTCGCTTACAACGTGTGCT