

Supplementary Data for:

iSyTE 2.0: a database for expression-based gene discovery in the eye

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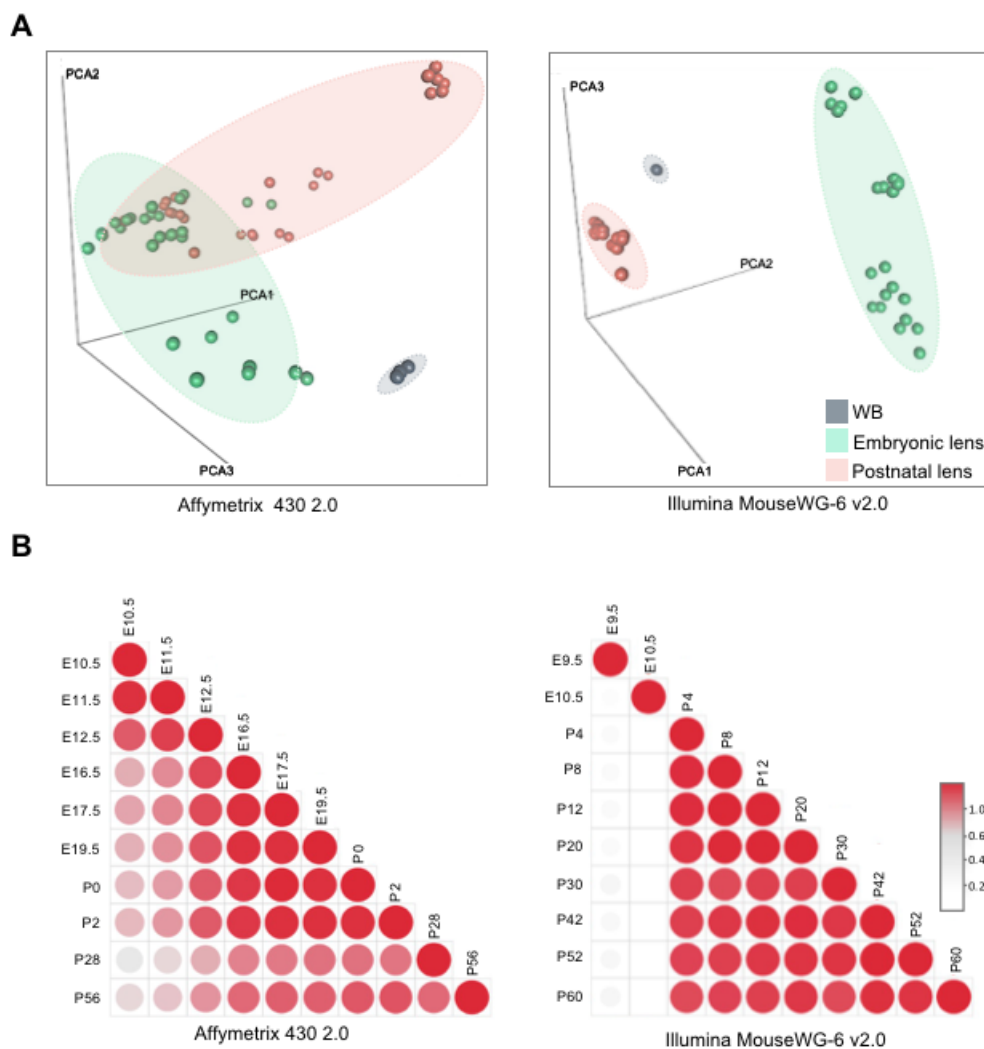
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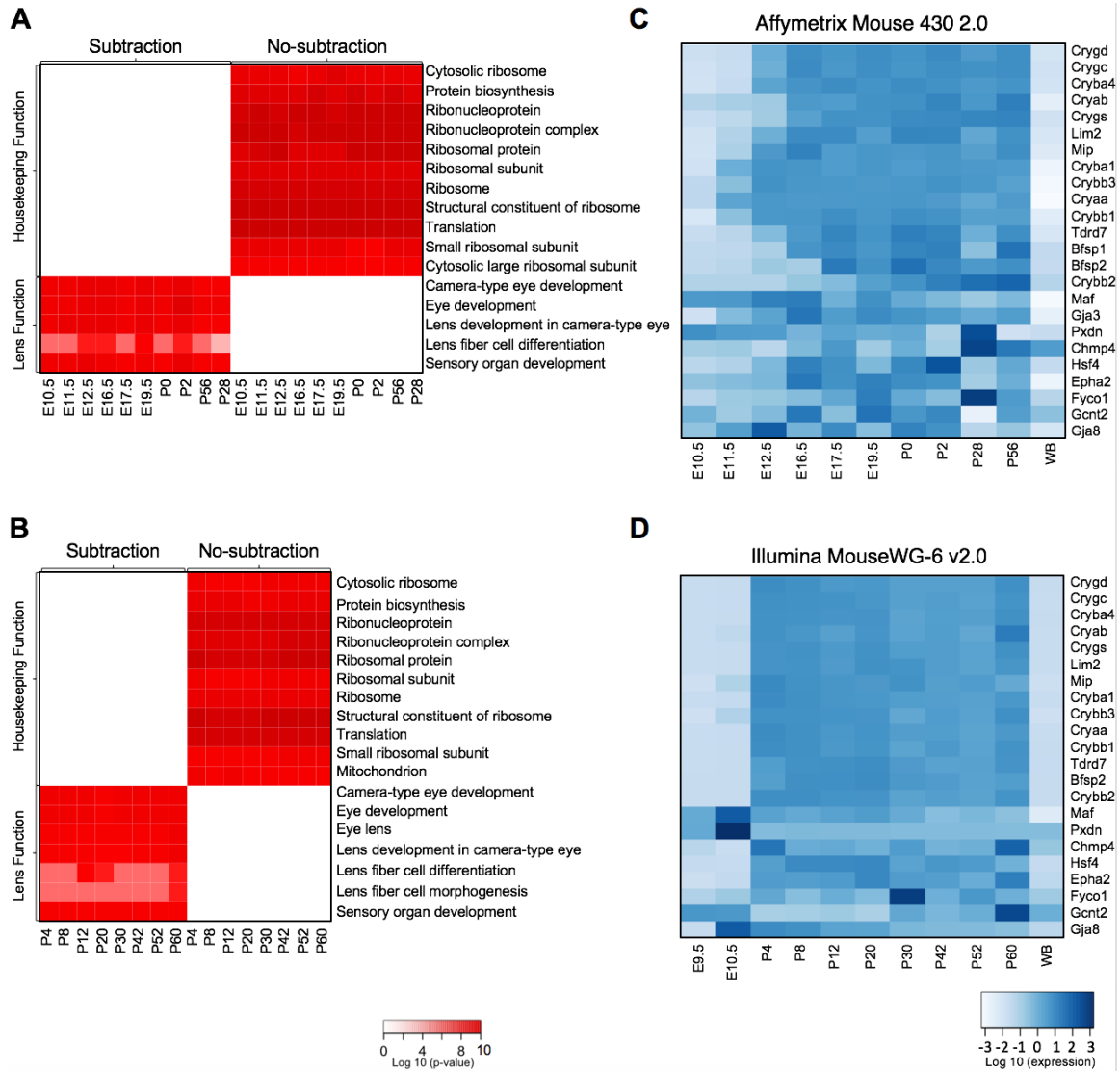
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SUPPLEMENTARY FIGURE S1.



SUPPLEMENTARY FIGURE 1. Quality analysis of lens microarray datasets at embryonic, postnatal and adult stages. (A) Principle component analysis (PCA) of normalized data from Affymetrix Mouse 430 2.0 and Illumina MouseWG-6 v2.0 microarray platforms along with platform-specific embryonic whole body (WB) control datasets. The plots showed a segregation of data in three main groups corresponding to embryonic (green), postnatal (pink) and WB control (grey). The colored ellipsoid indicates specific data group. (B) Correlation dot plot representing Pearson's correlation values for all-versus-all comparisons of the normalized, processed data. The color and size of dots indicate degree of consensus between datasets.

SUPPLEMENTARY FIGURE S2.



SUPPLEMENTARY FIGURE 2. *In silico* WB-subtraction identifies lens tissue-enriched genes in embryonic, postnatal and adult lenses. The top 500 highly ranked genes with and without WB subtraction from (A) Affymetrix Mouse 430 2.0 datasets for isolated whole lens tissue at stages E10.5, E11.5, E12.5, E16.5, E17.5, E19.5, P0, P2, P56, and from isolated lens epithelium at P28, and (B) Illumina MouseWG-6 v2.0 datasets from isolated whole lens tissue at stages P4, P8, P12, P20, P30, P42, P52, P60, were tested for gene ontology (GO) functional categories. The obtained statistically significant GO categories (Fisher's exact test and Bonferroni corrected p -value ($p < 0.05$)) with and without WB subtraction were visualized in the heat map. Heat map (red) intensity reflects statistically significant gene set enrichment. (C) Heat maps depicting expression of known genes linked to isolated (non-syndromic) human cataract cases in Affymetrix Mouse 430 2.0 lens datasets from stages E10.5, E11.5, E12.5, E16.5, E17.5, E19.5, P0, P2, P28 and P56 against the WB dataset and, (D) in the Illumina MouseWG-6 v2.0 lens datasets from stages E9.5, E10.5, P4, P8, P12, P20, P30, P42, P52, P60 against the WB dataset. Heat map (blue) intensity represents high to low gene expression.

SUPPLEMENTARY FIGURE S3.

A

Symbol	Rank	Dev	Dev	Dev	Dev	Dev	Dev	Dev	Dev	Dev
		E10.5	E11.5	E12.5	E16.5	E17.5	E19.5	P0	P2	P56
Cryaa	-	6096.34	22231.29	26968.79	26084.9	26887.72	27032.72	27180.48	25970.2	25995.96
Cryab	-	4051.36	5326.39	6239.69	18040.61	16928.76	19925.06	20418.22	23520.56	25273.56
Cryba1	-	2454.95	18264.48	28381.95	27502.56	24954.36	27102.99	24817.04	27257.21	25392.33
Cryba4	-	35.72	639.56	15661.34	21856.6	24935.58	21977.31	24851.24	23108.17	22000.5
Crybb1	-	428.27	10518.47	25522.76	25844.13	28954.47	25627.46	29168.25	27191.04	22185.05
Crybb2	-	89.41	108.12	115.05	1270.79	2672.05	8290.19	11947.88	17744.73	27794.09
Crybb3	-	5597.31	13149.38	27963.55	26321.33	26031	25269.45	25920.99	27533.09	22585.4
Crygb	-	25.32	208.27	10667.41	24642	19873.19	23485.56	20608.36	23628.24	23446.76
Crygd	-	273.12	554.12	13411.12	26053	22602.36	26042.58	23339.43	27073.42	25517.17
Crygs	-	228.36	885.45	3138.64	13952.11	19483.63	19210.45	21787.82	22036.03	24560.78

B

Symbol	Rank	Dev	Dev	Dev	Dev	Dev	Dev	Dev	Dev	Dev
		E10.5	E11.5	E12.5	E16.5	E17.5	E19.5	P0	P2	P56
Cryaa	-	300.04	693.14	909.54	877.95	897.02	902.01	907.03	869.48	867.07
Cryab	-	31.34	39.92	45.57	124.59	120.51	139.2	141.93	162.92	176.56
Cryba1	-	192.27	648.07	1092.94	1070.45	979.57	1060.85	967.42	1070.45	993.93
Cryba4	-	10.68	38.56	778.2	1068.97	1235.6	1082.39	1234.75	1139.35	1083.89
Crybb1	-	24.29	180.27	437.76	447.27	496.97	446.65	509.88	470.81	386.68
Crybb2	-	2.26	2.56	2.6	32.36	59.3	192.67	289.82	413	651.22
Crybb3	-	106.45	194.42	375.33	372.48	364.81	354.1	363.8	391.54	316.49
Crygb	-	11.55	13.37	749.61	1691.4	1392.06	1645.15	1456.21	1661.19	1644.01
Crygd	-	61.78	46.98	871.89	1682.04	1444.15	1673.9	1514.89	1752.26	1640.59
Crygs	-	35.33	47.11	198.91	907.66	1195.17	1193.51	1355.87	1366.25	1525.43

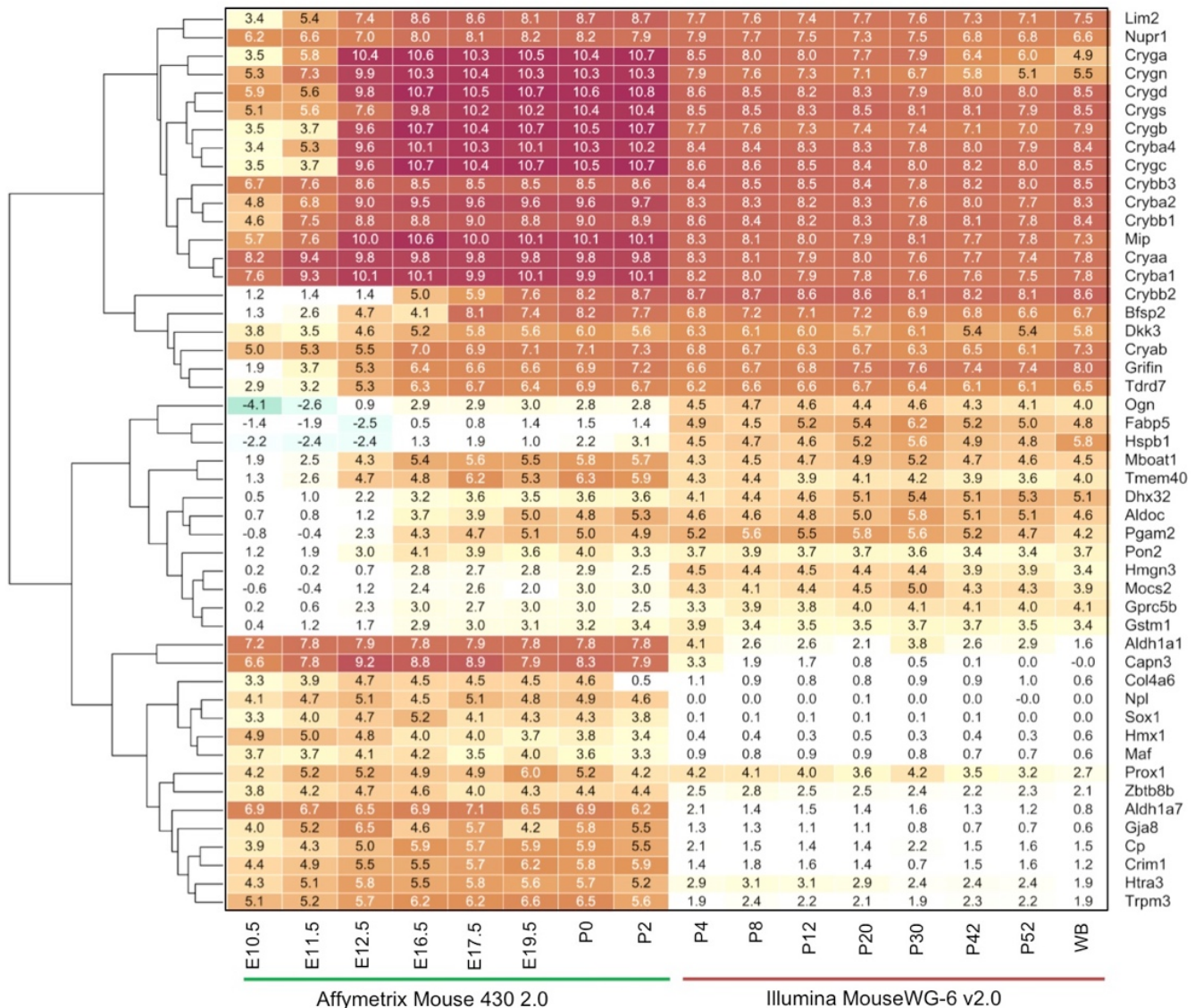
SUPPLEMENTARY FIGURE 3. Lens expression and enriched expression of crystallin genes in iSyTE 2.0. (A) Expression and (B) enrichment of ten crystallin-encoding genes in nine stages of lens (E10.5, E11.5, E12.5, E16.5, E17.5, E19.5, P0, P2, P56) as indicated by the processed Affymerix microarray datasets on the iSyTE 2.0 web-interface.

SUPPLEMENTARY FIGURE S4.



SUPPLEMENTARY FIGURE 4. Analysis of the human non-syndromic cataract genes *Chmp4b*, *Fyco1*, *Gcnt2* in iSyTE 2.0. (A) Lens-enriched expression of the three cataract-linked genes in Affymetrix and Illumina microarrays. **(B)** Differential expression of *Chmp4b*, *Fyco1*, *Gcnt2* in *Brg1*, *Pax6* and *Tdrd7* mutant lenses. **(C-E)** Improved ranking of *Gcnt2*, *Fyco1* and *Chmp4b* in the original mapped intervals linked to cataract.

SUPPLEMENTARY FIGURE S5.



SUPPLEMENTARY FIGURE 5. Derivation of a molecular signature gene set for mouse embryonic and postnatal lens. Genes enriched ($FC \geq 10$ fold) in embryonic or postnatal stages of lens development. Because a large number of embryonic lens microarrays were performed on the Affymetrix platform and a large number of postnatal lens microarrays were performed on the Illumina platform, these platform-specific datasets were analyzed to infer embryonic and postnatal lens molecular signatures, respectively. Values represent lens enrichment in \log_2 scale.

SUPPLEMENTARY FIGURE S6.

iSyTE Integrated Systems Tool for Eye gene discovery

Home About Gene Expression Contacts

Lens Gene Expression

Standard **Co-expression** Lens-enrichment in UCSC Browser

Query gene: Select species: Mouse mm10 Human hg19

Limit by: **1. Input query gene**

Threshold (Pearson Correlation > 0.75 or < -0.75) N most correlated genes

2. Select parameters and submit

3. View genes co-expressed with query

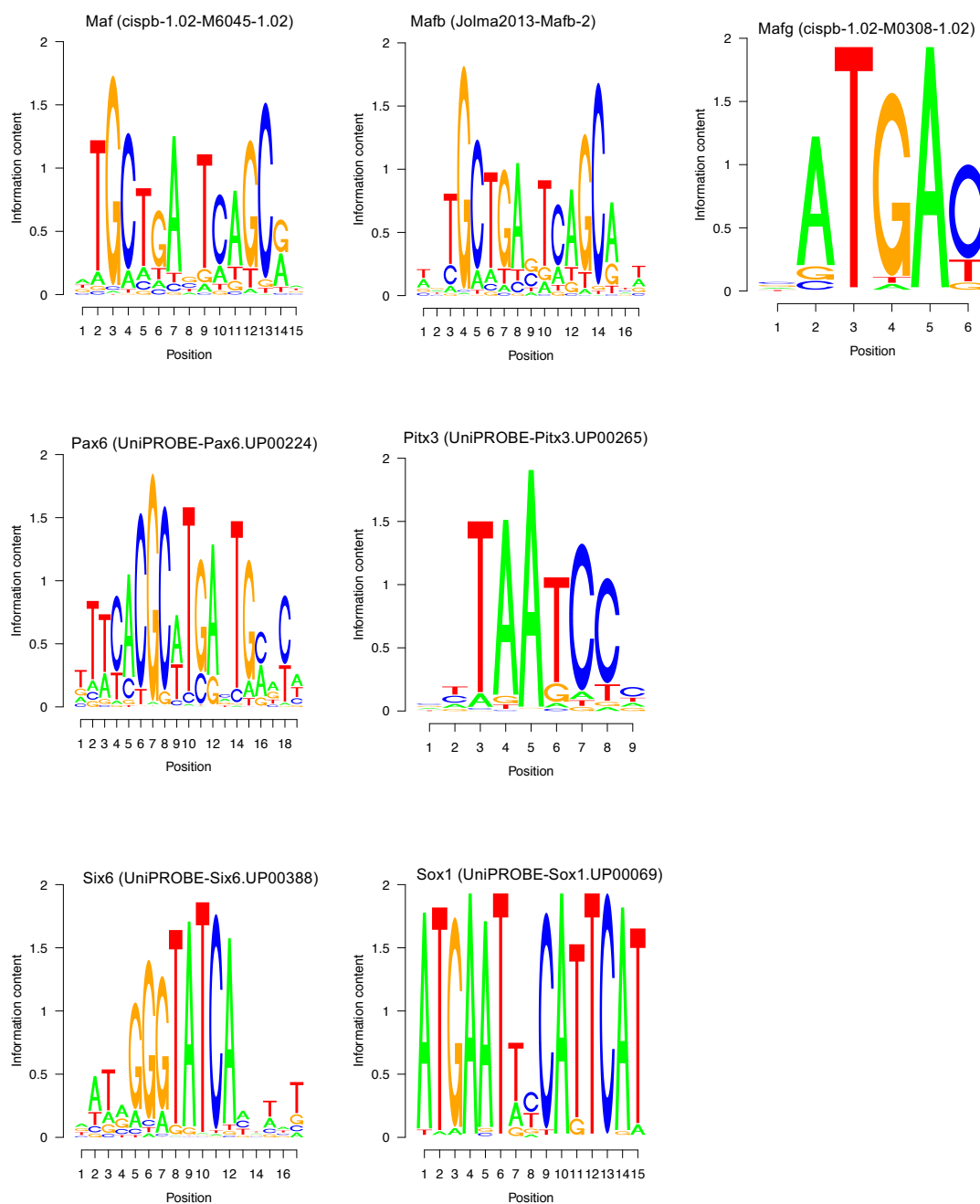
Filter records:

Query	Target	Correlation score
Cryga	Crygn	0.996958
Cryga	Lim2	0.994457
Cryga	Spg7	0.994243
Cryga	Crygb	0.994211
Cryga	Crybb1	0.994203
Cryga	Tmem126a	0.993859
Cryga	Cryba4	0.993747
Cryga	Grina	0.993683
Cryga	Ogn	0.992951
Cryga	Mip	0.99227

Showing 1 to 10 of 10 entries

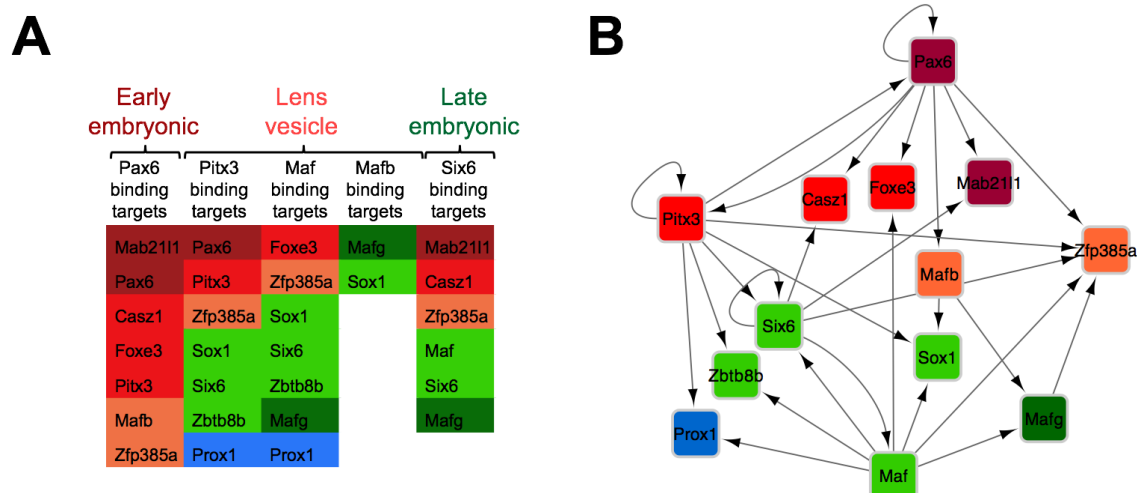
SUPPLEMENTARY FIGURE 6. iSyTE 2.0 has a new feature to determine co-expressed genes. Candidate genes that exhibit co-expression with a query gene can be searched using the Co-expression feature. This can be achieved by entering the candidate gene under the “query gene” (*Cryga* in the example above), and selecting the threshold for Pearson Correlation and the top number of correlated genes to be visualized as shown in steps 1-3.

SUPPLEMENTARY FIGURE S7.



SUPPLEMENTARY FIGURE 7. Transcription factor-Motifs used in expression-based gene regulatory network analysis. Transcription factor binding motifs for Maf, Mafb, Mafg, Pax6, Pitx3, Six6 and Sox1 were obtained from MotifDB and used to search the -2500bp upstream of the transcription start site in the 528 genes from the clusters identified by SOTA.

SUPPLEMENTARY FIGURE S8.



SUPPLEMENTARY FIGURE 8. Transcription factor regulatory network predicted using iSyTE 2.0. Regulatory connections between the transcription factors in the SOTA clusters were investigated for new insights into the temporal dynamics of their expression and that of their targets in the lens. (A) Transcription factor binding motif analysis for the proteins Pax6, Pitx3, Maf, Mafb and Six6 identifies putative binding sites in the -2500bp region upstream of the transcription start site within other transcription factor-encoding genes present in six clusters. Notably, we find Pax6 binding sites upstream of majority of the transcription factor genes that exhibit peak expression early in lens development. Indeed, six of nineteen potential transcription factor targets of Pax6 are in the early lens development, lens vesicle or primary fiber differentiation clusters. Conversely, the lens vesicle cluster transcription factors Pitx3, Maf, and Mafb as well as the late embryonic cluster transcription factors Six6 have binding sites upstream of other transcription factor genes, majority of which exhibit peak expression in lens vesicle stage and beyond. (B) Network representation of transcription factors based on the presence of their binding motif in other transcription factors expressed in the lens. This analysis suggests their temporal hierarchy in the lens.

Supplementary Table S1. Mouse lens microarray datasets used in iSyTE 2.0.

Dataset	Mouse Stage	GEO accession	Tissue	Genotype	Microarray platform	Reference
Development	E9.5	GSE49227	Lens placode	Wild-type	Illumina WG-6 v1.1	(1)
Development	E9.5	GSE49223	Lens placode	Wild-type	Illumina WG-6 v2.0	(2)
Development	E9.5	GSE49229	Lens placode	Wild-type	Illumina WG-6 v2.0	(1)
Development	E10.25	GSE49216	Lens pit	Wild-type	Illumina WG-6 v1.1	(1)
Development	E10.5	GSE49218	Lens pit	Wild-type	Illumina WG-6 v2.0	(2)
Development	E10.5	GSE32334	Lens pit	Wild-type	Affymetrix 430 2.0	(3)
Development	E11.5	GSE32334	Lens vesicle	Wild-type	Affymetrix 430 2.0	(3)
Development	E12.5	GSE32334	Lens	Wild-type	Affymetrix 430 2.0	(3)
Development	E15.5	GSE22322	Lens	Wild-type	Affymetrix 430A 2.0	(4)
Development	E16.5	GSE47694	Lens	Wild-type	Affymetrix 430 2.0	(5)
Development	E17.5	GSE16533	Lens	<i>E2f2</i> ^{-/-} (no lens phenotype)	Affymetrix 430 2.0	(6)

Development	E19.5	GSE31643	Lens	<i>Notch2^{loxP:loxP}</i>	Affymetrix 430 2.0	(7)
Development	P0	GSE22362	Lens	Wild-type	Affymetrix 430A 2.0	(4)
Development	P0	GSE16533	Lens	<i>E2f2</i> ^{-/-} (no lens phenotype)	Affymetrix 430 2.0	(6)
Development	P2	GSE9711	Lens	Wild-type	Affymetrix 430 2.0	(8)
Development	P4	GSE25775	Lens	<i>Tdrd7</i> ^{+/-}	Illumina WG-6 v2.0	(9)
Development	P8	GSE100136	Lens	Wild-type	Illumina WG-6 v2.0	This study
Development	P12	GSE100136	Lens	Wild-type	Illumina WG-6 v2.0	This study
Development	P20	GSE100136	Lens	Wild-type	Illumina WG-6 v2.0	This study
Development	P28	GSE13402	Lens epithelium	Wild-type	Affymetrix 430 2.0	(10)
Development	P30	GSE25776	Lens	<i>Tdrd7</i> ^{+/-}	Illumina WG-6 v2.0	(9)
Development	P42	GSE100136	Lens	Wild-type	Illumina WG-6 v2.0	This study
Development	P52	GSE100136	Lens	Wild-type	Illumina WG-6 v2.0	This study
Development	P56	GSE47694	Lens	Wild-type	Affymetrix 430 2.0	(5)

Development	P60	GSE65500	Lens	<i>Mafg</i> ^{+/-} : <i>Mafk</i> ^{+/-}	Illumina WG-6 v2.0	(11)
Mutant	E9.5	GSE49227	Lens placode	<i>Le-Cre:Pax6</i> ^{loxP:loxP}	Illumina WG-6 v1.1	(1)
Mutant	E9.5	GSE49223	Lens placode	<i>Le-Cre:Cbp</i> ^{loxP/loxP} : <i>p300</i> ^{loxP/loxP}	Illumina WG-6 v2.0	(2)
Mutant	E9.5	GSE49229	Lens placode	<i>Le-Cre:Pax6</i> ^{loxP:loxP}	Illumina WG-6 v2.0	(1)
Mutant	E10.25	GSE49216	Lens pit	<i>Le-Cre:Pax6</i> ^{loxP:loxP}	Illumina WG-6 v1.1	(1)
Mutant	E10.5	GSE49218	Lens pit	<i>Le-Cre:Cbp</i> ^{loxP/loxP} : <i>p300</i> ^{loxP/loxP}	Illumina WG-6 v2.0	(2)
Mutant	E15.5	GSE22322	Lens	<i>Brg1</i> dominant -ve	Affymetrix 430A 2.0	(4)
Mutant	E16.5	GSE47694	Lens	<i>Le-Cre:Klf4</i> ^{loxP:loxP}	Affymetrix 430 2.0	(5)
Mutant	E17.5	GSE16533	Lens	<i>Cry-Cre:E2f1</i> ^{-/-} : <i>E2F2</i> ^{-/-} : <i>E2F3</i> ^{-/-}	Affymetrix 430 2.0	(6)
Mutant	E19.5	GSE31643	Lens	<i>Le-Cre:Notch2</i> ^{loxP:loxP}	Affymetrix 430 2.0	(7)
Mutant	P0	GSE22362	Lens	<i>Hsf4</i> ^{-/-}	Affymetrix 430A 2.0	(4)
Mutant	P0	GSE16533	Lens	<i>Cry-Cre:E2f1</i> ^{-/-} : <i>E2F2</i> ^{-/-} : <i>E2F3</i> ^{-/-}	Affymetrix 430 2.0	(6)
Mutant	P2	GSE9711	Lens	<i>Cryaa-Foxe3</i> overexpress.	Affymetrix 430 2.0	(8)

Mutant	P4	GSE25775	Lens	<i>Tdrd7</i> ^{-/-}	Illumina WG-6 v2.0	(9)
Mutant	P28	GSE13402	Lens epithelium	<i>Sparc</i> ^{-/-}	Affymetrix 430 2.0	(10)
Mutant	P30	GSE25776	Lens	<i>Tdrd7</i> ^{-/-}	Illumina WG-6 v2.0	(9)
Mutant	P56	GSE47694	Lens	<i>Le-Cre:Klf4</i> ^{loxP:loxP}	Affymetrix 430 2.0	(5)
Mutant	P60	GSE65500	Lens	<i>Mafg</i> ^{-/-} : <i>Mafk</i> ^{+/-}	Illumina WG-6 v2.0	(11)

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Supplementary Table S2. Expression-based clustering analysis of Affymetrix genes

Gene.Sy mbol	res.c lust	Expressio n_E10.5	Expressio n_E11.5	Expressio n_E12.5	Expressio n_E16.5	Expressio n_E17.5	Expressio n_E19.5	Expressi on_P0	Expressi on_P2	Expressi on_P56	Enrichmen t_E10.5	Enrichmen t_E11.5	Enrichmen t_E12.5	Enrichmen t_E16.5	Enrichmen t_E17.5	Enrichmen t_E19.5	Enrichm ent_P0	Enrichm ent_P2	Enrichme nt_P56
Nupr1	1	1956.9	2464.7	3493.2	6979.6	7155.8	7761.3	7356.5	6505.3	10098.6	74.0	97.9	124.8	253.0	279.2	298.8	286.0	232.5	388.8
Grifin	1	158.9	788.4	2567.1	5023.6	5977.6	6204.7	7366.0	9442.2	17842.4	3.8	12.7	40.1	85.4	96.3	100.4	118.9	152.0	288.4
Sox2ot	1	229.3	351.7	481.3	202.5	503.2	719.7	651.7	656.5	1123.4	23.9	32.1	41.1	26.5	46.0	66.2	60.2	60.8	103.3
Cela1	1	386.5	518.5	1484.5	2347.4	2409.9	860.4	2491.5	1922.2	3120.6	11.5	15.7	42.6	65.7	70.0	24.9	72.2	54.9	90.4
Crybb2	1	89.4	108.1	115.0	1270.8	2672.0	8290.2	11947.9	17744.7	27794.1	2.3	2.6	2.6	32.4	59.3	192.7	289.8	413.0	651.2
Smco3	1	26.6	45.9	84.8	1048.3	1452.1	1225.2	1605.1	1784.5	2395.3	2.2	3.5	6.8	89.4	122.9	101.7	134.1	153.6	199.5
Clu	1	2023.0	2827.6	4907.8	7319.4	4053.7	4863.9	7096.4	8225.6	17433.7	8.9	10.4	21.7	33.2	18.0	21.9	28.7	37.7	78.6
Mboat1	1	138.7	329.4	1030.6	2089.8	2417.4	2238.7	2862.9	2709.0	5531.9	3.6	5.6	19.7	42.3	49.5	45.3	57.7	52.9	111.9
Gpr160	1	34.1	84.1	400.4	942.2	1543.7	829.2	1625.7	836.4	2788.7	2.0	3.3	19.1	43.5	72.4	39.2	75.2	40.5	131.4
Anxa1	1	2615.1	1784.2	1347.0	2686.0	2702.6	2096.5	2835.4	3050.6	7572.4	17.6	11.5	9.2	18.5	17.2	14.4	19.3	21.8	52.0
E1302181 03Rik	1	185.3	167.5	155.3	201.0	205.2	180.9	217.3	75.3	1511.3	12.9	8.5	10.0	13.7	14.0	12.3	14.1	6.6	102.5
Ass1	1	1522.1	1646.5	822.5	1270.4	841.5	586.5	1183.9	2614.9	3086.2	23.4	26.0	12.4	17.8	11.5	7.9	15.9	36.3	43.3
Folr1	1	410.6	276.1	235.6	616.7	505.5	974.1	686.4	1358.3	2336.7	9.6	6.7	5.8	14.6	11.5	23.5	16.4	33.9	56.5
Cyp4v3	1	246.2	214.7	210.0	412.2	441.5	337.3	484.7	327.5	845.0	8.4	6.3	7.0	15.1	15.4	11.6	16.1	11.4	29.2
S100a4	1	75.6	43.7	90.3	1202.9	2560.1	2850.4	3802.8	3009.8	5760.6	1.7	1.0	2.8	31.1	67.5	74.4	99.6	79.7	149.3
Dnase2b	1	16.0	13.0	12.6	1260.5	1246.8	779.5	1752.7	1663.6	4441.2	1.4	-1.1	1.0	94.5	92.9	56.8	125.7	107.2	324.7
Metnl	1	209.8	288.9	470.5	1057.8	1342.1	1108.4	1640.5	1117.2	4682.4	2.8	3.9	6.4	14.0	17.8	14.6	21.7	15.8	61.8
Dapl1	1	64.7	82.4	69.2	371.8	545.5	1696.4	465.5	1715.1	8734.5	1.8	2.0	1.9	10.5	15.9	47.9	11.7	54.4	246.1
Aldoe	1	215.5	249.9	314.3	1847.3	2162.9	4608.2	3928.1	5431.1	11351.0	1.6	1.8	2.3	13.0	15.3	32.8	28.0	40.2	81.0
Dtna	1	136.4	142.8	159.5	378.0	333.1	517.3	420.4	621.2	1673.8	4.4	4.1	5.0	11.7	11.4	16.7	13.7	20.0	54.1
Gpr137b- ps	1	634.2	895.2	1771.3	2153.7	1876.4	1949.5	2095.8	2044.7	3703.3	3.1	4.4	9.9	12.7	10.9	11.2	12.0	11.8	21.3

Necab1	1	70.3	32.3	32.1	82.7	96.6	87.9	123.8	83.6	348.0	6.2	3.4	3.0	7.7	8.7	8.2	11.5	7.9	32.5
Ngef	1	59.2	96.9	186.6	476.5	605.8	604.6	845.0	648.0	1400.5	1.5	2.5	4.9	12.5	16.5	16.6	23.0	17.4	38.6
Kenj12	1	137.2	242.6	279.6	197.2	247.9	202.9	260.1	140.4	287.8	5.0	7.9	10.3	8.1	9.6	7.9	9.7	5.9	11.2
Myo6	1	196.3	301.2	296.4	308.1	322.9	329.5	363.4	214.1	532.1	4.7	5.6	7.0	7.0	7.0	7.6	7.7	4.9	12.3
2310030 G06Rik	1	153.8	104.8	82.1	155.0	164.7	207.4	228.2	148.9	1313.7	4.9	2.9	3.0	5.6	5.1	7.4	8.3	5.3	46.7
Dhx32	1	236.6	370.3	842.1	1705.9	2134.4	1994.1	2280.2	2267.8	5853.5	1.4	2.0	4.6	9.1	12.0	10.9	12.4	12.4	32.1
Ablim1	1	593.3	526.4	605.1	715.4	626.2	785.6	619.0	634.5	1092.9	4.8	4.6	5.5	6.4	5.6	7.0	5.2	5.8	9.7
P4ha1	1	959.7	946.0	956.9	1368.1	1524.9	2026.9	1008.3	842.8	2174.8	4.2	4.1	4.6	6.3	7.2	9.1	4.7	3.9	9.7
Fam134b	1	336.3	287.0	289.0	619.6	487.0	540.5	537.8	250.6	925.7	4.2	2.7	3.3	7.9	6.1	6.9	6.6	3.6	11.8
Ndrg1	1	34.0	26.4	127.5	2492.4	3020.5	4242.1	5322.6	3650.8	10818.6	-2.6	-4.3	1.0	20.6	23.7	34.3	44.0	29.4	87.4
Gstm1	1	251.0	455.3	665.7	1424.3	1698.7	1707.3	1884.1	2117.8	3579.5	1.3	2.3	3.3	7.2	7.9	8.5	9.1	10.5	17.7
Col4a4	1	14.4	17.2	16.9	96.7	263.4	590.3	847.9	726.0	1925.8	-1.2	-1.2	-1.0	5.8	12.7	30.3	42.7	38.0	100.6
Dct	1	65.0	148.6	84.3	89.4	293.4	604.7	169.0	549.6	973.7	1.6	3.9	2.2	2.2	6.7	14.6	4.2	13.9	23.4
Arsi	1	309.4	348.8	308.8	395.7	626.7	223.6	597.0	77.1	649.4	4.6	4.6	4.3	5.4	8.5	3.3	8.4	1.1	9.5
Lgals3	1	19.1	42.8	31.9	424.2	302.3	445.7	450.3	767.5	4834.2	-1.3	1.2	1.4	13.9	9.6	13.9	14.1	23.1	151.2
Fam169a	1	335.9	428.6	498.7	394.5	383.0	502.3	384.8	302.2	565.2	4.0	4.6	5.9	5.0	4.9	6.1	4.7	3.7	6.9
Birc7	1	45.8	38.1	50.3	477.1	675.2	826.3	963.4	762.4	2642.3	1.1	1.1	1.3	11.8	18.2	20.6	24.1	19.6	66.5
Oca2	1	21.4	52.7	53.8	80.6	125.0	218.9	142.8	110.6	287.2	1.2	2.7	3.0	4.4	6.4	12.3	8.0	6.6	16.0
Rilp11	1	311.6	448.2	984.1	1222.3	1424.6	1295.9	1525.8	869.5	1928.6	1.7	2.4	5.8	7.2	8.2	7.4	8.6	5.0	11.1
Tpd52	1	1262.8	896.3	1007.2	1308.0	1555.4	1325.8	1652.7	1685.3	2318.0	4.7	3.0	3.6	4.7	5.7	4.8	6.0	6.1	8.4
Emb	1	1033.8	706.5	452.1	641.8	898.7	700.5	1327.4	1151.0	2122.1	5.9	4.1	2.6	3.5	4.9	3.9	7.6	6.1	11.9
Ephx2	1	131.7	72.2	74.5	181.3	184.9	201.8	217.1	123.6	409.9	3.8	2.1	2.4	5.7	5.9	6.6	7.0	4.1	13.3
Ptgsd	1	149.5	263.0	345.7	505.9	987.5	3117.0	1165.7	3226.7	9600.2	-1.2	1.6	2.2	3.0	5.9	19.3	7.8	20.4	59.9
Prrt4	1	155.6	189.2	152.6	239.4	199.9	110.2	251.3	159.3	489.5	3.6	4.3	3.6	5.3	4.5	2.4	5.5	3.5	11.0
Dnajb2	1	187.3	215.1	401.1	1386.0	1732.9	1182.3	2162.7	1332.5	2920.9	1.3	1.5	2.4	9.0	11.4	7.8	14.3	9.2	19.2

Slc15a2	1	69.0	53.3	72.7	294.5	135.3	342.2	295.3	452.8	668.8	1.6	1.3	1.7	7.6	3.9	9.1	8.4	12.0	17.8
Hebp2	1	165.9	207.6	275.2	1132.3	2357.6	1367.8	2748.3	939.2	3020.3	1.2	1.3	1.9	8.2	17.1	9.8	19.6	7.3	21.8
Gpre5b	1	163.4	264.5	851.0	1278.1	1077.4	1304.8	1250.1	962.6	3031.9	1.1	1.5	4.9	8.0	6.7	8.0	7.8	5.8	18.7
Sqrdl	1	56.1	95.1	219.2	442.1	560.2	400.1	585.0	309.5	809.1	1.1	1.9	4.1	8.4	11.0	7.5	11.1	5.8	15.3
Suco	1	2337.1	2380.3	2500.9	2424.3	2443.6	2984.5	2739.5	1605.9	3057.6	4.4	4.6	4.3	4.3	4.4	5.4	4.9	2.8	5.5
Mypn	1	18.6	29.8	85.8	307.3	203.0	296.9	363.5	508.5	1078.8	-1.4	-1.1	2.7	9.8	6.5	9.4	12.4	15.3	34.8
Snta1	1	74.1	79.4	161.9	538.9	637.9	583.0	832.4	720.8	1265.1	1.1	1.3	2.6	8.8	10.0	9.2	13.1	10.5	20.1
S100a6	1	25.7	48.5	86.7	475.1	795.2	1483.8	1155.9	1475.5	3033.1	-2.2	-1.2	1.3	6.8	11.0	21.0	16.0	20.8	42.6
Nol3	1	45.7	67.6	154.7	374.7	492.9	400.0	497.2	346.0	2647.4	-1.1	1.2	3.2	7.3	10.4	7.8	9.7	7.0	51.5
Sned1	1	148.2	384.0	509.6	193.2	243.3	508.9	234.9	402.3	399.6	2.0	5.3	6.9	2.7	3.4	7.2	3.2	5.5	5.6
Snhg12	1	327.4	293.3	375.1	2380.3	1537.3	1905.5	1553.8	2821.0	4437.6	1.8	1.4	1.6	5.4	7.8	9.4	7.6	13.5	21.9
C920006 O11Rik	1	22.7	28.7	28.6	168.9	142.5	298.7	195.2	32.0	747.7	-1.0	1.6	1.4	9.8	8.8	17.3	12.6	1.8	43.3
D630024 D03Rik	1	26.7	32.5	45.3	242.7	280.1	266.7	271.0	118.8	400.2	1.1	1.3	1.8	8.3	10.5	10.1	10.1	4.8	15.1
Pgap2	1	164.3	199.2	198.9	1712.3	1786.7	1783.7	2115.3	1535.0	3680.0	1.2	1.1	1.1	10.4	11.1	10.7	12.8	8.7	22.2
Gpsm3	1	107.3	159.2	156.7	196.6	92.0	102.1	116.0	136.4	226.1	2.6	3.9	4.4	5.3	2.5	2.8	3.1	3.9	6.2
Jazf1	1	35.2	48.0	139.6	167.2	220.2	153.0	217.1	137.2	435.0	1.2	1.4	4.5	5.3	6.6	4.7	6.9	4.5	13.4
Tyrp1	1	30.5	40.6	31.5	53.1	201.1	372.9	191.3	300.1	336.9	1.1	1.5	1.2	1.9	7.7	13.9	7.0	12.0	12.5
Ing2	1	368.6	378.7	634.5	1286.5	1434.3	1461.3	1943.7	1734.4	3665.7	1.4	1.4	2.6	4.6	5.3	5.4	7.2	6.4	13.6
Amph	1	119.7	232.7	461.3	1236.7	1106.9	1684.0	1138.2	816.5	3282.9	-1.2	1.1	2.6	8.1	7.1	10.8	7.3	5.2	21.1
Fgfl2	1	122.7	167.9	363.9	243.2	134.9	159.7	135.8	154.5	934.3	2.3	3.3	7.0	7.4	2.7	3.0	2.7	2.9	18.0
Slc4a5	1	28.8	37.4	30.9	32.2	54.7	190.9	52.3	144.2	177.8	1.7	2.3	1.9	2.0	3.3	11.6	3.0	9.8	10.8
Htra1	1	48.0	34.8	36.5	206.5	829.5	1347.5	1252.6	1785.3	5176.5	-1.7	-2.6	-2.6	2.3	8.5	14.7	13.4	19.1	56.4
Thrsp	1	12.4	12.1	26.0	85.1	66.3	107.6	104.5	71.2	281.6	-1.0	-1.1	1.9	6.0	5.2	7.9	7.5	5.4	20.7
Eif5b	1	585.3	630.4	736.9	3656.3	3739.8	2498.7	4240.4	4677.7	9517.5	1.3	1.4	1.5	7.7	7.8	5.2	8.9	9.7	20.0
Pcbd2	1	325.1	389.4	428.5	1056.6	1028.8	1121.8	1102.3	711.5	3038.0	1.5	1.8	2.1	5.2	4.7	5.3	5.1	3.2	14.3
Col4a3	1	27.4	24.2	26.4	59.8	76.1	175.1	245.3	229.5	934.8	1.2	-1.2	1.0	2.3	2.8	6.9	9.7	9.4	37.1

Ppl	1	44.9	44.7	51.0	75.3	120.1	207.1	409.8	245.1	446.9	1.3	1.4	1.4	2.4	4.0	6.4	11.9	7.2	14.4
Tfap2a-as1	1	128.7	85.1	64.5	56.8	58.7	48.9	61.8	35.1	180.9	5.0	3.6	2.7	2.4	2.6	2.1	2.6	1.5	7.7
Dync1i1	1	57.1	68.2	85.0	801.7	825.0	675.4	1071.0	670.2	2063.2	-1.6	-1.3	-1.0	8.5	8.8	7.3	11.4	7.1	22.3
Pla2g5	1	17.9	21.0	22.7	34.3	109.7	275.3	138.8	429.1	1414.5	-1.2	-1.1	-1.0	1.5	4.3	12.2	5.7	17.6	62.6
Pstpip2	1	35.8	40.5	51.6	218.9	187.7	213.4	325.8	216.6	622.2	1.1	1.1	1.4	6.3	5.5	6.2	9.1	5.8	18.1
Kcnh1	1	31.0	37.3	47.8	209.6	151.4	166.0	189.7	153.1	455.1	-1.0	1.0	1.3	6.0	4.3	5.0	5.5	4.8	13.7
Hmx1	1	128.5	122.9	159.6	1588.1	2242.9	403.3	4212.4	5799.6	5632.8	-1.2	-1.4	-1.1	9.8	13.6	2.4	25.0	33.2	33.1
Slc22a2	1	15.6	24.5	33.2	95.4	91.7	69.3	140.8	107.9	292.2	-1.1	1.2	1.6	5.2	5.2	3.7	7.6	5.1	15.5
Entpd1	1	15.6	23.3	42.2	124.5	175.9	119.3	209.4	199.6	676.0	-1.4	1.0	1.7	5.5	7.8	5.0	9.0	8.4	28.3
Car8	1	17.6	14.5	15.4	145.2	81.7	107.2	138.0	40.4	424.2	-1.1	-1.1	-1.1	7.2	4.3	6.3	8.0	3.0	24.4
Ank	1	275.2	975.1	1453.6	886.1	829.6	608.3	896.8	672.1	1830.0	1.2	3.3	5.1	3.2	3.0	2.2	3.3	2.6	6.7
Serp1nb6b	1	129.8	117.6	90.9	136.3	55.6	53.5	60.3	40.9	1261.3	3.7	3.0	2.4	3.6	1.6	1.4	1.6	1.2	33.8
A430108 G06Rik	1	10.6	11.8	15.9	44.2	34.8	58.6	69.1	36.6	345.3	1.0	1.2	1.7	4.7	3.6	5.7	6.4	3.5	34.6
Fas	1	69.2	57.7	61.4	69.7	71.1	54.6	84.6	98.0	894.1	2.3	2.0	2.1	2.3	2.5	1.9	2.9	3.4	30.6
Pacs1n3	1	209.0	170.1	244.2	492.5	780.0	461.7	1295.9	725.2	3645.1	1.3	1.2	1.4	2.9	4.8	2.9	8.3	4.4	22.9
Il18	1	29.0	68.8	155.9	361.0	351.3	506.6	428.3	296.8	1473.8	-2.5	-1.3	1.7	4.3	4.5	6.4	5.6	3.8	18.6
Paqr3	1	27.9	42.5	87.9	221.6	120.4	181.8	159.4	70.0	440.8	-1.0	-1.0	2.4	6.4	4.1	5.8	5.2	2.1	14.1
Ephx1	1	27.0	48.8	46.4	125.0	112.1	126.3	141.4	136.5	1082.4	-1.3	1.2	1.4	3.3	3.0	3.4	3.7	3.5	28.9
Pygl	1	121.0	132.4	158.5	422.2	416.6	426.8	475.3	203.3	2286.7	1.1	1.0	1.4	3.6	3.9	3.6	4.2	1.7	19.3
Secl	1	26.7	27.1	29.1	69.7	73.4	117.5	103.0	72.9	1071.9	-1.1	1.0	1.1	2.6	2.6	4.2	3.9	2.6	38.7
Cd44	1	15.4	15.8	19.3	296.3	271.1	456.9	638.8	116.9	3607.5	-4.8	-4.2	-3.8	4.5	3.8	6.3	9.0	1.7	49.9
Casq1	1	17.2	30.1	31.6	57.9	134.2	240.7	294.1	399.2	1432.4	-2.4	-1.4	-1.3	1.3	3.2	5.6	6.8	8.8	33.6
Optc	1	26.3	20.0	22.2	40.4	161.5	303.3	244.2	779.3	445.6	1.0	-1.2	-1.2	2.0	5.7	10.3	6.6	26.0	15.1
Cubn	1	19.5	23.2	32.1	34.8	25.9	23.1	26.8	22.9	324.7	1.2	1.4	2.0	2.0	1.7	1.4	1.7	1.5	20.5
2310043 M15Rik	1	22.5	33.5	29.3	84.9	76.3	80.4	96.9	111.5	406.7	-1.4	1.1	1.0	2.7	2.4	2.8	3.3	3.5	13.8
Neat1	1	58.7	47.8	46.5	61.4	56.9	97.9	55.0	73.1	546.2	1.5	1.4	1.4	1.8	1.8	2.9	1.6	2.2	16.2

Ctic5	1	17.9	14.6	13.3	38.7	40.5	60.1	153.1	113.9	1282.0	-1.2	-1.4	-1.6	2.0	2.1	2.7	7.9	5.7	63.1
Ankrd24	1	133.4	137.8	149.3	205.7	211.7	151.8	159.5	141.6	3949.1	1.5	1.3	1.7	2.2	2.2	1.6	1.8	1.5	42.8
Lrrc66	1	23.3	18.9	20.3	20.0	21.4	19.2	22.8	20.9	172.9	1.8	1.6	1.6	1.5	1.7	1.5	1.7	1.7	13.7
Hspb1	1	124.1	112.4	119.8	1600.6	2295.6	1289.6	2970.7	5058.0	22002.9	-4.5	-5.3	-5.2	2.5	3.6	2.0	4.7	8.3	34.7
Rrh	1	89.9	17.3	21.1	27.9	31.0	65.3	22.8	203.8	91.4	4.5	-1.1	1.2	1.4	1.6	3.7	1.4	9.7	5.2
Tcp11	1	197.0	195.5	172.9	313.7	464.8	293.8	655.2	751.1	6910.5	1.1	1.1	1.1	1.8	2.6	1.6	3.8	4.3	39.7
Nrl	1	21.9	25.9	25.7	26.1	26.7	24.3	39.4	316.7	169.0	1.1	1.2	1.3	1.2	1.3	1.2	1.9	14.3	8.3
Vsn11	1	13.2	12.2	10.1	66.4	45.9	61.1	59.8	47.2	407.3	-1.6	-1.7	-2.2	3.1	2.2	2.9	2.8	2.5	19.3
Cadm2	1	10.1	13.5	13.3	19.6	39.8	108.8	41.4	119.8	305.1	-1.9	-1.4	-1.4	1.0	2.1	5.6	2.1	6.1	15.5
Atp1a2	1	9.9	10.0	10.7	71.6	80.8	255.5	120.4	160.6	2246.3	-4.8	-5.0	-4.8	1.5	1.8	5.3	2.5	4.0	47.5
Gnat1	1	15.8	19.0	15.5	25.1	15.6	16.1	15.7	17.5	302.0	1.2	1.4	1.3	1.8	1.2	1.2	1.2	1.3	21.8
Ackr4	1	11.2	12.4	11.0	12.0	46.1	30.0	62.7	22.9	331.2	-1.2	1.0	-1.2	1.0	3.9	2.3	4.8	1.7	25.7
Fxyd1	1	87.0	151.6	284.3	355.1	379.5	660.1	493.1	1123.2	2904.2	-2.6	-1.6	1.5	1.8	1.9	3.3	2.5	5.3	14.3
Abi3bp	1	7.3	9.1	12.2	36.3	33.3	118.0	103.9	29.4	468.5	-2.7	-2.4	-1.9	1.7	1.7	5.6	5.0	1.5	22.7
Pde	1	25.6	26.0	24.5	27.3	36.4	29.1	42.3	529.5	492.7	-1.1	-1.1	-1.1	-1.1	1.3	1.0	1.8	17.0	16.9
Aqp5	1	31.2	32.2	38.4	69.9	77.3	55.8	105.6	125.0	2875.1	-1.3	-1.2	-1.0	1.5	1.8	1.3	2.5	2.8	68.0
Srd5a2	1	23.3	25.8	24.0	32.0	26.7	24.9	57.6	114.9	1176.9	-1.0	1.2	-1.0	1.3	1.1	-1.0	2.3	4.2	46.6
Sh3bgr	1	11.0	14.5	15.0	127.0	240.0	234.5	354.3	312.0	987.6	-6.7	-4.7	-5.2	1.6	3.3	3.2	4.9	4.0	13.5
Aldh3a1	1	8.0	8.7	8.9	8.6	7.5	6.6	7.1	8.2	2552.5	1.1	1.2	1.2	1.1	1.0	-1.1	-1.0	1.1	347.8
Wdfy4	1	32.9	43.8	56.1	82.9	71.6	61.9	85.1	82.3	518.8	-1.0	1.2	1.5	2.1	1.8	1.6	2.1	2.3	13.6
Sord	1	62.1	105.1	92.5	380.4	423.8	418.4	465.3	273.2	3171.9	-2.3	-1.5	-1.9	2.5	2.8	2.6	2.9	1.7	19.7
Chrd11	1	26.6	33.6	37.1	73.6	74.7	109.9	84.4	58.0	723.2	-1.4	-1.5	-1.2	1.8	1.7	2.5	2.1	1.5	17.2
1700020 N01Rik	1	13.7	13.4	13.9	31.0	40.3	15.6	53.9	12.1	848.7	1.1	1.0	1.0	2.2	3.2	1.2	3.9	-1.1	65.3
Tinag	1	19.1	18.6	21.2	20.0	18.3	22.6	22.5	26.5	341.7	1.2	1.1	1.2	1.4	1.2	1.4	1.5	1.7	21.5
Sbson	1	22.5	17.2	23.3	30.5	30.8	72.2	41.5	33.3	413.4	-1.2	-1.5	-1.2	1.2	1.2	2.8	1.6	1.5	15.9
Slc24a2	1	29.3	32.1	40.0	60.1	53.2	45.1	68.7	38.4	562.2	-1.2	-1.0	1.1	1.6	1.5	1.3	1.9	1.1	16.2

Chpt1	1	70.3	112.6	128.9	253.6	224.7	213.9	316.7	252.7	1913.3	-1.8	-1.3	-1.1	2.1	1.8	1.7	2.6	2.0	15.6
Cdkn2b	1	50.7	197.2	374.1	49.9	56.7	53.2	60.1	58.2	445.9	-1.2	3.1	5.7	-1.2	1.0	-1.1	1.0	1.0	7.5
Ces5a	1	180.3	249.7	275.0	318.5	258.0	269.8	290.5	211.9	5534.9	-1.1	1.2	1.2	1.6	1.2	1.3	1.4	1.0	26.8
Otud1	1	29.7	29.0	21.8	45.9	33.8	50.0	57.2	37.2	523.5	-1.1	-1.1	-1.2	1.5	1.1	1.7	2.0	1.3	17.6
Cldn2	1	28.3	30.7	29.1	31.2	30.8	46.8	43.0	33.5	570.1	1.1	1.1	1.1	1.1	1.2	1.7	1.6	1.3	21.1
Rgs4	1	10.1	10.6	10.9	68.4	216.3	116.6	152.8	192.1	2570.9	-9.4	-9.3	-9.8	-1.5	2.1	1.1	1.6	1.8	24.7
Slc26a4	1	27.9	31.3	38.6	33.7	31.6	32.4	34.2	41.7	629.3	-1.1	1.0	1.2	1.1	0.0	-1.0	1.1	1.4	19.3
Gm4850	1	23.7	25.6	23.4	25.5	20.6	21.6	27.8	26.6	595.1	1.0	1.1	1.0	1.1	-1.1	-1.1	1.1	1.2	24.5
Ii33	1	8.0	8.0	9.2	10.6	10.0	22.3	14.7	23.0	387.1	-1.7	-1.8	-1.5	-1.4	-1.4	1.6	1.1	2.1	27.6
Abca8a	1	10.1	10.2	10.6	7.7	10.7	9.6	10.9	10.3	168.4	-1.1	-1.1	-1.1	-1.4	-1.0	-1.2	1.0	-1.0	15.1
Zfp354b	1	14.9	21.8	20.5	26.6	21.9	27.8	18.7	21.3	291.2	-1.4	-1.1	-1.2	1.4	1.0	1.3	-1.1	-1.0	14.2
Gp2	1	13.0	14.3	14.6	12.9	14.3	12.2	17.6	12.1	183.2	-1.1	1.1	1.1	-1.0	1.0	-1.1	1.2	-1.2	13.4
Mup4	1	8.2	7.9	8.2	7.2	7.4	7.3	7.8	11.1	137.9	-1.0	-1.1	-1.0	-1.2	-1.2	-1.2	-1.1	1.2	15.7
Emp2	1	59.7	45.3	36.4	62.0	54.9	68.8	67.4	81.9	2221.4	-2.0	-2.6	-3.2	-2.0	-2.2	-1.7	-1.8	-1.5	18.5
Prox1	2	528.6	1283.3	1261.9	929.3	940.8	2071.2	1222.2	606.6	891.3	18.3	37.1	37.8	29.3	28.9	62.3	36.6	18.3	27.1
A830021 M18Rik	2	19.3	96.4	192.4	275.8	1404.2	1389.9	1296.9	404.1	31.2	3.6	8.4	20.6	34.4	143.4	154.0	133.5	41.4	3.1
2900017F 05Rik	2	127.8	46.7	79.4	15.7	574.4	302.1	696.3	36.6	31.2	10.5	6.3	7.4	1.5	56.1	27.6	63.8	3.6	2.8
Rnf113a1	2	364.8	361.3	398.2	1076.1	2204.3	3395.1	2729.8	1494.2	121.0	4.6	4.4	5.4	14.3	28.4	43.4	35.3	17.8	1.5
AU02176 0	2	126.3	102.8	84.3	28.4	404.5	395.0	542.9	22.5	31.0	11.2	10.4	8.5	2.3	34.9	32.4	44.7	1.7	2.5
2310014F 06Rik	2	152.1	212.1	249.1	282.9	372.0	452.4	331.9	225.7	140.7	4.6	6.1	7.5	8.5	10.9	13.4	9.9	6.4	4.1
Stx3	2	449.0	339.4	407.2	571.0	570.5	803.1	679.1	405.2	379.5	5.9	4.1	5.1	6.4	7.0	10.0	8.4	5.0	4.7
D230019 N24Rik	2	68.9	59.4	69.5	41.8	348.1	455.6	408.8	25.5	40.9	4.5	4.0	4.9	3.1	24.9	32.2	29.7	1.9	2.9
D430033 H22Rik	2	117.0	51.5	49.5	24.1	239.6	349.2	158.1	24.9	32.0	8.3	4.9	4.6	2.2	17.1	26.0	11.3	1.9	2.2
4930406 D14Rik	2	84.2	116.3	98.9	55.6	174.6	206.6	175.4	62.7	69.1	4.0	5.8	5.1	3.1	8.8	9.9	8.6	2.8	3.3
Lama1	2	563.1	590.2	381.8	335.8	622.0	655.1	607.7	395.2	158.5	7.3	7.1	5.1	4.3	7.5	7.7	6.8	4.6	1.9
92301081 15Rik	2	192.0	130.3	304.8	68.9	417.4	369.2	423.3	126.2	125.9	4.3	3.9	6.7	2.0	8.8	8.4	9.6	2.8	2.9

9930031P 18Rik	2	157.8	46.6	47.3	26.3	235.9	250.5	164.5	32.8	27.5	8.5	4.0	3.7	1.8	13.9	14.9	9.4	2.0	1.6
Tmem37	2	685.3	561.5	513.1	608.3	557.4	743.8	485.3	826.2	424.2	4.6	3.9	3.3	4.4	3.8	5.2	3.4	5.6	2.9
D5Wsu15 2e	2	151.0	63.7	55.4	27.1	202.0	227.5	164.3	28.1	45.8	7.5	3.9	3.7	1.7	11.5	13.3	9.7	1.6	2.6
2900073C 17Rik	2	340.0	189.5	157.1	59.4	329.5	292.5	283.4	73.8	47.4	11.4	7.2	5.4	1.6	10.3	8.8	8.4	2.1	1.4
6430537 K16Rik	2	516.7	149.4	117.1	46.8	476.1	607.6	421.7	64.5	27.9	11.8	5.6	3.8	1.2	13.4	16.4	10.6	1.7	-1.3
4930578 M01Rik	2	111.9	62.9	57.9	45.0	98.0	84.3	89.0	87.0	27.1	6.2	4.2	3.6	2.5	5.6	5.0	5.4	4.8	1.6
Dmd	2	346.8	293.1	310.8	307.6	308.4	319.8	380.7	290.0	337.2	4.5	4.0	4.1	4.0	4.2	4.2	5.0	4.0	4.5
Kcnq1otl	2	199.6	135.5	119.3	42.9	353.4	409.1	277.6	137.9	54.9	5.0	4.3	4.1	1.3	9.3	10.7	7.1	3.4	1.4
5430406J 06Rik	2	165.0	144.6	98.4	159.6	156.8	539.6	220.1	106.8	75.8	4.1	3.7	2.7	2.9	4.1	13.6	5.6	2.4	1.9
A130004 G07Rik	2	70.0	17.6	18.9	16.2	74.2	149.0	42.6	14.3	20.3	6.1	2.5	2.0	1.8	7.3	16.8	4.8	1.6	2.2
D15Wsu1 26e	2	103.6	69.9	61.0	25.9	192.6	448.7	177.2	28.9	27.8	4.4	3.7	3.0	1.5	8.9	21.3	8.1	1.3	1.3
5730409 N24Rik	2	26.1	25.7	27.6	24.7	195.4	385.8	207.8	37.5	16.6	2.2	2.0	2.4	1.9	16.1	31.2	17.1	2.6	1.4
9030425L 15Rik	2	59.0	37.1	34.8	24.8	241.2	430.9	269.2	27.5	42.8	2.8	2.1	2.2	1.3	12.2	21.8	14.0	1.4	2.2
2900011L 18Rik	2	66.1	34.8	37.3	18.3	162.4	373.7	124.3	16.5	18.1	4.5	2.7	2.5	1.2	11.3	26.8	8.9	1.2	1.2
D530037 H12Rik	2	40.8	20.3	45.2	14.9	111.3	154.0	98.3	18.4	12.2	4.1	2.2	4.5	1.4	10.6	15.0	9.9	1.6	1.2
A430102J 17Rik	2	172.4	79.4	91.7	23.8	224.0	370.7	197.7	48.5	33.3	6.1	3.9	3.2	-1.2	8.5	14.1	7.4	1.7	1.3
2810043 O03Rik	2	69.6	24.6	22.1	11.6	97.1	203.5	87.7	11.1	13.6	7.7	2.9	2.4	1.2	9.4	19.2	8.3	-1.0	1.3
9430011C 21Rik	2	93.6	45.9	36.9	23.3	331.9	290.7	325.6	18.7	32.3	5.2	2.3	2.0	1.2	17.4	15.4	16.3	-1.1	1.7
9330156P 08Rik	2	33.1	22.2	26.0	25.7	69.5	147.7	80.0	11.0	27.5	3.0	2.0	2.3	2.2	6.4	13.1	7.1	1.1	2.5
D230044 B12Rik	2	57.6	26.6	25.2	14.1	121.6	197.4	105.9	19.4	17.9	4.6	2.4	2.3	1.2	8.8	14.4	7.2	1.4	1.3
B930068 K11Rik	2	131.5	55.6	39.9	25.6	156.0	190.2	143.0	31.6	29.0	5.8	3.3	2.1	1.2	7.3	8.8	6.4	1.5	1.3
3110005L 21Rik	2	45.9	17.5	16.1	14.0	122.9	132.3	98.9	13.4	14.9	4.4	1.8	1.9	1.5	12.7	13.8	10.0	1.4	1.5
8030447 M02Rik	2	124.8	46.7	52.1	36.3	274.8	397.5	232.3	45.1	33.1	4.5	2.0	2.1	1.3	9.7	14.1	8.6	1.5	1.2
Sfd2	2	127.3	105.7	194.5	105.1	98.4	563.4	91.6	53.4	61.9	2.9	2.5	4.2	3.2	5.4	13.4	3.4	1.3	1.5
Taf15	2	81.5	66.8	48.3	46.8	63.3	104.1	43.6	17.4	13.4	6.8	4.2	3.0	2.6	4.1	7.0	3.0	1.0	-1.1
5430434 G16Rik	2	95.0	44.5	31.1	22.3	65.9	95.5	83.2	19.4	10.2	5.8	3.1	2.3	1.8	4.4	6.5	5.4	1.3	-1.4

B230214 009Rik	2	13.6	9.9	16.3	51.5	473.2	361.9	304.9	8.2	55.1	1.2	-1.1	-1.0	5.2	34.4	26.0	19.0	-1.5	3.9
Gm19313	2	122.5	52.9	55.6	33.0	154.5	178.3	128.4	46.6	35.9	4.7	2.9	2.6	1.4	6.2	7.1	4.9	1.7	1.4
D5Erd79 8e	2	65.8	31.7	22.7	11.4	66.2	106.0	56.3	22.2	14.7	6.2	2.7	1.9	1.0	5.5	9.0	5.0	1.8	1.2
LOC1010 56057	2	650.7	411.9	281.7	144.9	376.8	823.7	592.0	201.7	88.1	5.8	3.6	3.1	-1.0	3.5	7.3	4.7	1.8	-1.3
Mid1	2	163.4	69.1	69.9	29.7	82.4	166.5	73.5	47.7	72.6	5.9	2.4	2.8	1.0	2.8	5.8	2.5	1.6	2.5
4732423E 21Rik	2	42.6	19.7	13.4	8.6	50.0	68.7	36.1	9.8	9.3	5.1	2.7	2.0	1.1	6.4	8.7	4.6	1.2	1.2
Atoh7	2	33.2	48.9	85.6	362.5	534.3	686.1	61.4	559.0	22.7	-1.1	1.6	3.0	8.6	12.0	19.9	2.3	14.1	-1.5
C130015 C19	2	112.2	67.3	39.6	25.2	120.1	217.8	95.7	26.3	17.3	5.1	3.4	2.2	1.2	5.7	10.7	4.7	1.3	-1.2
2310035P 21Rik	2	59.4	37.8	33.9	15.0	46.7	66.1	48.5	15.3	18.8	5.1	2.6	2.5	1.1	3.4	5.0	3.5	1.2	1.4
D9Erd30 6e	2	133.0	55.2	46.7	16.6	103.1	74.8	88.6	35.9	18.1	5.7	2.8	2.3	-1.4	5.0	3.6	4.1	1.7	-1.2
AA41503 8	2	102.5	49.1	40.7	20.8	79.9	223.6	54.6	27.1	20.9	4.8	2.7	1.8	1.0	4.0	10.9	2.7	1.4	1.0
H3f3b	2	61.6	62.3	46.0	32.5	228.1	426.2	116.3	39.0	41.7	2.2	2.1	1.7	1.2	7.7	15.0	4.0	1.3	1.5
C430003 N24Rik	2	68.3	27.4	35.3	16.8	103.4	140.2	75.6	19.2	17.9	4.2	1.7	2.1	1.1	6.4	8.5	4.3	1.1	1.0
A730059 M13Rik	2	44.9	23.2	19.6	11.7	33.1	107.4	33.3	14.8	11.8	4.8	2.2	1.8	1.0	3.2	9.6	3.1	1.3	1.1
Fu3krp	2	8.2	10.9	12.7	63.1	19.7	616.3	95.1	14.8	31.0	-1.0	1.1	1.5	6.6	1.9	61.7	6.2	1.4	3.1
LOC7577 1	2	86.8	62.5	34.5	26.4	55.9	71.9	85.5	20.0	27.0	4.3	2.8	1.7	1.3	2.8	3.6	3.8	1.1	1.3
Slc16a4	2	141.8	59.8	34.6	22.0	79.1	175.8	72.0	39.1	17.5	5.8	2.7	1.5	0.0	3.5	7.4	2.9	1.5	-1.4
6330415B 21Rik	2	8.2	8.6	8.3	8.5	100.2	128.0	122.2	10.2	21.0	1.1	1.1	1.1	1.2	13.3	16.9	15.9	1.4	2.8
1110012L 19Rik	2	237.5	192.6	206.3	300.3	1674.5	1679.4	2001.3	221.9	300.1	1.3	1.0	1.2	1.8	9.3	9.7	11.9	1.3	1.7
D1Erd56 4e	2	14.1	12.0	9.1	7.9	52.1	109.5	89.1	9.5	11.2	1.8	1.4	1.1	1.0	6.3	12.7	10.3	1.2	1.3
B4302031 24Rik	2	18.9	14.8	16.4	12.4	91.9	162.2	119.5	15.1	13.9	1.5	1.1	1.3	1.1	7.4	13.0	8.6	1.2	1.1
4930447C 04Rik	2	10.1	10.6	10.8	9.0	19.0	104.0	18.0	20.9	12.0	1.3	1.4	1.3	1.4	2.6	12.8	2.0	2.4	1.5
2610027 H17Rik	2	16.3	11.1	9.1	11.2	25.1	105.1	16.3	12.6	13.4	1.9	1.3	1.2	1.4	2.8	12.5	1.9	1.4	1.6
A330076 H08Rik	2	9.5	10.7	11.4	9.6	24.7	125.9	28.9	10.8	9.4	-1.1	1.0	1.1	-1.1	2.4	12.3	2.7	1.0	-1.1
Xist	3	970.6	329.6	372.6	115.3	1037.2	1073.6	602.0	267.3	108.3	134.2	51.1	60.3	16.4	23.4	19.3	15.9	35.1	14.9
Dmrta2	3	3203.7	1507.8	1463.6	1238.4	1458.9	1808.6	1865.4	638.6	2046.1	22.9	12.2	10.8	9.4	11.1	13.6	13.4	4.4	15.4

Pax6	3	3609.2	3160.2	2399.9	981.4	1384.7	2352.4	1232.2	1998.0	1572.6	24.6	19.7	14.4	6.3	8.7	15.2	8.1	13.1	10.2
Six3	3	2074.6	1517.9	1367.4	1426.0	1021.8	1620.8	979.9	572.3	676.7	20.3	15.3	13.3	14.1	10.1	16.1	9.8	5.8	6.7
Six3os1	3	436.2	257.4	200.8	237.9	240.2	257.5	263.1	208.7	78.7	19.2	11.4	10.4	11.5	10.9	12.3	12.6	9.8	3.7
Cdh1	3	2455.5	1496.9	1264.0	1107.2	926.5	860.3	809.3	435.1	817.8	16.9	11.1	9.0	8.2	5.6	6.3	5.9	3.4	6.0
Cx3cl1	3	967.8	424.4	274.1	309.3	223.1	100.6	189.3	146.8	136.7	22.4	9.6	5.9	7.1	4.4	2.3	4.4	3.5	3.1
Mab21l1	3	2213.5	1624.8	1439.3	537.4	723.7	915.0	601.9	905.0	743.7	9.8	7.6	6.7	2.5	3.5	4.2	2.7	4.3	3.4
Edaradd	3	328.5	292.2	194.0	194.0	115.9	233.5	83.9	84.5	111.2	7.3	5.7	5.2	4.9	2.8	5.6	1.9	2.0	2.6
Ggt1	3	343.7	225.5	146.8	160.8	147.0	131.9	140.8	140.1	101.9	7.4	5.0	3.3	3.6	3.4	2.9	3.2	3.2	2.2
Cadps2	3	508.4	182.1	168.3	186.7	159.5	166.7	196.7	203.7	468.3	7.5	2.6	2.6	2.7	2.4	2.5	2.9	2.9	7.1
Leprel1	3	2027.8	1427.6	967.6	790.4	615.7	532.0	502.5	410.8	95.2	13.6	9.4	6.5	4.9	4.1	3.5	3.3	2.8	-1.6
Upp1	3	212.9	171.1	92.1	146.6	96.4	82.7	71.4	152.2	227.9	6.7	4.2	2.6	4.4	3.5	2.2	2.1	4.0	6.0
Eml5	3	549.4	246.0	180.9	121.3	225.1	276.8	230.5	190.6	91.5	9.2	4.6	3.2	2.1	4.0	4.9	4.0	3.2	1.6
Etv5	3	979.6	732.7	621.8	734.5	434.1	535.0	402.2	525.5	367.5	5.7	5.0	4.3	4.9	3.1	3.7	2.8	3.7	2.5
Atp1b3	3	6115.9	6422.6	5205.3	2431.5	3029.2	3357.4	3274.7	3213.0	7190.8	4.4	4.4	3.7	1.7	2.1	2.4	2.3	2.4	5.1
Elp4	3	1191.4	908.7	699.7	503.0	473.9	711.3	398.4	535.0	404.6	4.7	3.7	3.1	2.3	2.1	3.1	1.8	2.5	1.8
Tfap2a	3	1149.0	524.8	409.8	328.7	244.2	310.1	374.7	361.3	665.8	6.5	3.0	2.3	2.0	1.4	1.7	2.0	2.0	3.7
Abcc4	3	784.7	263.0	163.6	203.4	151.8	174.7	139.0	53.8	84.0	11.4	4.0	2.7	3.2	2.1	2.8	2.1	-1.3	1.3
Itga3	3	496.3	260.0	180.8	287.5	240.8	200.5	252.2	184.5	241.4	5.0	3.0	1.9	2.9	2.2	1.9	2.3	1.7	2.3
Sema4d	3	556.9	558.3	383.2	275.6	265.1	176.6	187.2	293.8	164.2	5.2	5.0	3.6	2.4	2.3	1.6	1.7	2.7	1.5
Aldh1a3	3	683.6	176.7	71.1	34.5	86.5	146.0	28.6	252.2	99.8	20.2	4.3	2.1	1.2	2.1	4.4	-1.1	7.6	3.0
Slc17a1	3	210.4	83.7	73.5	65.3	55.4	52.1	76.4	44.3	35.6	7.7	3.3	2.8	2.3	2.0	1.9	2.8	1.5	1.2
Steap1	3	331.3	180.9	131.0	91.1	91.7	110.0	87.9	139.5	262.0	5.0	2.7	1.8	1.6	1.5	1.8	1.4	2.3	4.2
Cyp26a1	3	449.7	355.6	250.4	158.0	115.5	104.5	146.8	166.1	351.6	5.1	4.3	3.1	1.6	1.4	1.2	1.7	1.9	4.1
Dnaje1	3	1035.2	472.9	507.4	325.4	248.9	265.7	196.1	102.1	161.4	8.0	4.6	4.2	2.6	2.0	2.2	1.6	-1.2	1.3
Plekha1	3	890.9	478.2	370.2	250.0	442.2	672.5	389.1	472.3	268.1	4.4	2.5	1.8	1.3	2.1	3.3	1.9	2.3	1.3
Coll3a1	3	1363.0	479.7	351.4	160.4	178.7	132.5	136.4	83.3	54.9	15.1	5.8	4.2	2.0	2.1	1.6	1.7	1.0	-1.5

1700086L 19Rik	3	85.5	45.3	24.1	83.9	42.0	27.7	35.2	18.4	23.2	5.8	2.9	1.4	5.8	2.5	1.7	2.2	1.1	1.4
Plech1	3	657.2	348.2	281.1	182.6	205.4	294.4	170.2	193.1	92.9	4.9	2.7	2.1	1.5	1.5	2.3	1.3	1.7	-1.4
A730062 M13Rik	3	93.3	53.7	41.7	25.8	45.8	67.3	44.5	27.2	32.7	4.4	2.5	1.8	1.1	2.0	2.9	1.9	1.2	1.4
Cngb3	3	135.1	40.8	29.5	17.4	18.2	19.9	20.5	23.1	25.6	8.3	2.6	1.9	1.1	1.3	1.3	1.3	1.5	1.7
Stra6	3	1638.8	989.8	522.0	336.2	204.0	118.0	168.0	156.7	66.4	12.0	8.6	3.5	2.4	1.4	-1.2	1.2	1.2	-2.1
Pla2g4a	3	531.1	239.3	139.8	222.5	166.0	183.9	153.4	93.2	232.1	5.2	1.7	1.2	2.0	1.3	1.7	1.4	-1.0	2.1
Sle15a3	3	412.4	121.4	308.8	31.7	20.5	24.7	20.0	23.0	16.2	15.4	5.7	12.8	1.3	-1.1	1.1	-1.1	-1.0	-1.4
Mte11	3	1086.2	483.8	359.6	325.4	514.3	422.0	564.1	181.7	276.6	4.5	2.1	1.6	1.4	2.2	1.8	2.3	-1.3	1.2
D230021J 17Rik	3	47.9	16.8	12.8	17.0	28.0	19.2	28.7	11.4	18.1	4.3	1.6	1.2	1.5	2.6	1.7	2.6	-1.0	1.6
2410127L 17Rik	3	4498.0	2750.9	1773.7	1051.8	846.3	814.6	667.4	457.6	921.7	6.6	4.4	2.8	1.6	1.3	1.2	1.0	-1.3	1.4
Alpl	3	177.2	186.0	97.3	44.6	42.0	33.2	45.5	62.2	54.5	4.6	4.7	2.6	1.1	-1.1	-1.3	1.1	1.6	1.3
A030007 N12Rik	3	50.2	40.8	39.5	11.0	28.2	15.1	27.9	9.6	11.3	4.5	3.5	2.9	-1.1	2.2	1.2	2.2	-1.3	-1.1
BC02396 9	3	612.0	532.7	273.5	188.6	120.5	227.9	143.7	114.9	53.4	5.7	4.6	2.7	1.4	1.0	2.0	1.3	-1.0	-2.2
D10Eird7 55e	3	64.8	24.7	19.1	12.6	27.4	23.3	23.4	12.2	13.9	4.7	2.0	1.8	1.0	2.1	1.9	1.8	1.0	1.1
Npvf	3	141.5	49.1	32.7	59.7	42.0	34.3	40.7	40.6	59.9	4.6	1.7	1.2	2.0	1.4	1.2	1.4	1.5	2.0
Gm4354	3	3098.0	2189.6	1678.8	205.3	930.6	816.5	1051.6	303.0	601.7	4.4	3.2	2.5	-2.9	1.3	1.2	1.5	-2.2	-1.2
Nav1	3	1390.4	1038.0	668.4	170.1	259.7	215.1	215.5	94.4	269.4	6.2	4.8	2.8	-1.4	1.1	-1.1	-1.1	-2.4	1.1
Csn3	3	1895.1	39.1	29.6	23.9	18.1	20.2	16.7	16.7	32.0	75.0	2.1	1.5	1.2	-1.1	1.0	-1.1	-1.2	1.5
Kenk1	3	891.9	194.3	73.0	82.9	111.5	205.1	77.9	82.3	299.9	6.7	1.5	-1.6	-1.2	-1.0	1.7	-1.5	-1.3	2.4
Frem2	3	645.9	226.5	119.4	37.3	86.4	190.9	119.7	33.5	89.8	5.5	2.0	1.1	-3.5	-1.3	1.7	-1.0	-3.3	-1.3
Prtg	3	1006.3	462.3	222.8	95.0	112.3	120.4	114.8	56.5	91.6	6.3	3.2	1.5	-1.5	-1.3	-1.2	-1.3	-2.7	-1.6
2610028L 16Rik	3	249.9	109.8	50.9	22.0	59.0	74.6	66.5	25.0	30.5	4.9	2.0	1.1	-2.2	1.1	1.4	1.3	-2.3	-1.7
Kene3	3	82.6	36.7	35.7	47.4	14.8	12.8	9.2	9.1	8.0	4.3	2.5	1.5	2.0	-1.4	-1.6	-2.1	-1.9	-2.5
Phlda1	3	1637.1	464.1	340.6	648.4	337.2	471.0	287.0	138.5	111.0	4.2	1.4	-1.0	1.7	-1.1	1.3	-1.3	-2.8	-3.3
Crym	3	420.9	323.7	60.6	18.1	16.8	16.4	15.3	92.2	19.6	4.8	3.7	-1.4	-4.3	-4.7	-5.1	-4.8	1.0	-4.1
Cbln2	3	900.1	164.9	57.2	26.9	34.1	26.8	29.7	66.5	42.7	10.0	1.8	-1.5	-3.1	-2.7	-3.2	-3.0	-1.4	-2.0

Dleu7	3	92.8	16.0	14.4	15.6	12.9	20.7	12.7	15.0	22.1	4.5	-1.2	-1.4	-1.3	-1.6	-1.0	-1.7	-1.2	1.0
Lin28a	3	511.1	228.7	26.2	10.7	8.1	10.6	7.8	7.0	10.6	5.0	1.9	-3.3	-9.3	-12.6	-9.6	-13.2	-13.3	-9.8
Hmx1	4	2618.8	2908.8	2473.2	1368.7	1381.9	1127.8	1230.9	936.3	443.8	30.3	32.3	27.3	15.6	15.5	12.8	14.0	10.4	5.0
Pitx3	4	1191.0	1522.6	1333.9	1080.3	936.5	511.9	971.1	642.4	521.5	14.7	18.6	16.1	11.7	10.7	5.9	11.1	7.0	6.0
Camk1d	4	521.5	565.3	488.7	337.8	341.9	347.7	360.1	167.0	89.5	13.9	15.1	11.2	8.8	8.2	8.7	9.0	4.2	2.3
Foxe3	4	1097.0	1962.6	1077.4	379.3	398.0	122.3	322.5	373.3	196.0	19.8	33.3	20.3	7.1	7.8	2.5	6.3	7.8	4.0
Slc38a3	4	411.6	618.4	585.2	372.3	430.1	371.1	517.0	416.4	149.6	5.8	9.2	9.5	5.6	6.1	5.5	7.4	6.0	2.2
Fam198b	4	788.7	1916.8	3410.7	1326.8	1049.5	960.2	953.7	591.2	9.6	6.3	14.6	26.0	10.2	7.7	7.3	7.1	4.7	-13.7
Plekhg1	4	1670.5	1665.6	1921.5	1592.9	1546.9	421.9	1806.0	1188.6	514.1	6.8	6.2	7.6	5.9	5.8	1.6	6.8	4.6	2.0
Tox2	4	1533.5	1986.3	1685.3	1622.2	1760.2	1405.1	1766.2	1348.2	1048.6	4.1	4.9	4.3	4.2	4.6	3.6	4.5	3.5	2.7
Fam19a4	4	126.2	203.6	126.8	133.9	136.8	132.8	143.2	95.5	67.9	3.7	4.9	3.8	4.1	4.1	3.8	4.1	2.6	1.9
4632427E13Rik	4	292.8	308.6	285.1	79.4	242.5	269.1	215.5	116.2	63.2	5.0	5.0	4.8	1.1	4.0	4.4	3.5	2.1	1.0
Casz1	4	101.9	138.7	130.1	120.1	118.5	97.9	116.9	94.3	41.2	2.8	4.0	3.2	3.0	2.9	2.3	2.7	2.1	-1.0
Cgnl1	4	522.5	678.8	494.9	555.3	445.7	437.3	378.5	375.3	196.4	2.9	4.1	3.0	3.2	2.5	2.6	2.2	2.3	1.2
Bid	4	502.8	541.8	472.4	361.4	249.3	268.4	217.7	198.3	190.9	4.0	4.5	4.2	3.0	2.1	2.3	1.8	1.7	1.6
Trib1	4	318.6	395.1	463.8	227.7	261.6	227.4	206.9	328.4	129.4	3.3	4.1	4.6	2.2	2.6	2.2	2.0	3.1	1.3
Gata3	4	226.2	283.8	245.1	280.0	136.4	152.2	111.7	87.8	32.0	3.4	4.7	3.6	4.3	2.0	2.3	1.8	1.3	-2.0
Parm1	4	1310.1	1664.1	1375.4	733.8	762.1	835.4	741.3	591.6	441.6	3.1	4.0	3.4	1.8	1.8	2.0	1.8	1.5	1.1
Myb	4	1170.5	554.4	422.0	313.7	479.6	473.9	200.2	1069.6	47.3	5.0	2.8	2.1	1.3	1.9	2.1	-1.0	4.4	-4.7
Scube3	4	872.6	908.8	564.3	267.7	215.1	186.7	178.8	118.5	70.4	5.1	5.7	3.4	1.6	1.2	1.1	1.1	-1.4	-2.3
Tmem132a	4	1588.8	1733.2	1546.9	810.6	667.6	514.2	495.2	496.4	239.0	3.3	4.1	3.4	1.8	1.5	1.1	1.1	1.1	-1.9
Sfrp2	4	11545.0	9058.9	5124.8	333.1	188.9	246.3	28.3	144.3	13.9	8.7	6.7	3.8	-3.3	-7.6	-5.5	-42.0	-8.4	-96.5
Aldh1a1	5	6288.4	9761.0	10899.4	9764.9	10791.8	9837.6	9976.7	10209.8	7555.0	144.7	221.3	244.9	220.1	241.4	219.6	221.5	230.6	168.7
Capn3	5	1931.7	5817.5	16518.9	12196.0	12435.3	6296.0	8434.2	6584.5	31.7	98.5	215.3	608.5	455.1	467.2	232.2	307.6	236.2	1.2
Htra3	5	1352.7	2260.0	3419.5	3146.7	3658.0	3159.8	3523.5	2524.0	936.9	20.2	33.9	54.5	46.6	54.7	47.1	53.4	36.9	14.1
Gja8	5	461.0	1058.2	2613.2	688.0	1443.6	533.3	1623.1	1319.3	412.7	16.3	37.7	88.4	24.8	50.5	18.4	56.2	45.9	14.2

Npl	5	1867.4	2757.5	3553.8	2484.8	3527.3	3011.6	3136.3	2544.5	1856.4	17.6	26.5	33.4	23.3	34.0	28.5	29.5	23.7	17.6
Saped1	5	821.0	1282.6	1520.5	1469.4	1116.7	1251.2	1142.8	872.8	835.1	14.9	22.8	26.8	26.4	20.1	22.1	19.8	15.7	14.8
Rbm24	5	542.4	3358.7	4207.0	2916.7	2113.0	2538.5	2376.2	1574.3	2063.3	6.4	19.6	32.6	24.5	18.2	21.8	20.5	13.4	17.8
Adams18	5	190.3	455.6	898.9	698.6	746.4	909.2	829.0	312.9	400.2	5.5	11.2	23.8	18.5	19.4	24.1	21.3	7.9	10.6
Sowaha	5	66.2	212.5	702.3	287.2	144.1	215.8	175.1	95.6	74.6	7.0	18.4	65.5	27.4	14.3	20.4	16.9	8.8	7.2
Col4a5	5	1392.1	3120.6	4840.3	3618.0	2824.5	3455.5	2655.8	1825.7	2373.6	6.7	10.5	17.3	15.4	11.8	14.3	11.1	8.0	9.8
Prx	5	165.9	713.8	1949.1	1057.3	2103.3	1655.1	2132.2	1632.5	425.9	2.5	8.0	23.4	14.6	24.3	20.1	23.8	17.8	5.2
Zfp185	5	197.5	511.3	821.9	553.8	738.4	583.9	764.0	473.2	358.9	3.9	8.6	16.3	12.4	14.9	11.8	15.1	9.4	7.3
Slc7a5	5	1964.1	4327.8	5145.7	3771.0	2633.4	2778.2	3051.8	2121.5	478.6	8.3	16.4	22.3	17.5	11.9	12.6	13.5	9.5	2.2
Ank2	5	629.2	2043.4	4077.0	4325.2	3022.6	3880.7	3413.8	2144.3	1312.7	2.6	7.8	15.8	16.0	12.0	14.9	13.1	8.2	5.0
Ezr	5	1912.9	2345.9	3110.5	2786.0	2419.6	2686.1	2432.2	1652.3	1761.0	6.8	8.0	10.8	9.9	7.9	9.3	8.2	5.8	6.1
Slc3a2	5	2975.7	4279.2	5541.5	4348.5	5788.5	4868.8	5812.1	4415.2	2783.9	3.9	5.0	6.7	5.3	6.9	5.9	6.8	5.4	3.4
S1pr5	5	22.9	62.2	140.1	95.0	72.6	60.1	57.8	37.0	17.6	2.3	5.3	14.4	8.8	7.0	5.9	5.7	3.7	1.7
Fam214b	5	277.2	454.4	945.9	890.2	956.2	753.7	975.4	450.6	347.7	2.4	4.0	7.6	7.3	7.7	6.2	7.9	4.0	2.8
Ma1b	5	283.0	479.3	419.8	356.0	330.9	351.7	411.3	250.6	102.9	3.4	6.0	5.5	4.3	3.9	4.4	5.2	3.2	1.3
Pnpla6	5	175.5	293.1	565.0	403.8	370.7	490.3	388.9	409.7	156.7	1.9	3.0	5.7	4.5	3.7	5.0	3.9	3.7	1.6
Ddx26b	5	611.1	1781.5	2651.4	1029.1	1931.1	2337.8	1680.3	564.6	113.1	2.6	5.7	9.5	3.3	6.3	7.8	5.4	1.8	-2.7
Naaa	5	107.6	173.7	291.0	212.2	251.5	221.6	225.8	173.8	141.1	1.6	2.5	5.1	3.6	4.3	3.9	4.0	3.0	2.5
Crygd	6	273.1	554.1	13411.1	26053.0	22602.4	26042.6	23339.4	27073.4	25517.2	61.8	47.0	871.9	1682.0	1444.1	1673.9	1514.9	1752.3	1640.6
Crygb	6	25.3	208.3	10667.4	24642.0	19873.2	23485.6	20608.4	23628.2	23446.8	11.6	13.4	749.6	1691.4	1392.1	1645.1	1456.2	1661.2	1644.0
Crygc	6	25.3	208.3	10667.4	24642.0	19873.2	23485.6	20608.4	23628.2	23446.8	11.6	13.4	749.6	1691.4	1392.1	1645.1	1456.2	1661.2	1644.0
Cryba1	6	2455.0	18264.5	28381.9	27502.6	24954.4	27103.0	24817.0	27257.2	25392.3	192.3	648.1	1092.9	1070.4	979.6	1060.8	967.4	1070.4	993.9
Cryaa	6	6096.3	22231.3	26968.8	26084.9	26887.7	27032.7	27180.5	25970.2	25996.0	300.0	693.1	909.5	878.0	897.0	902.0	907.0	869.5	867.1
Mip	6	273.1	2431.3	12285.2	17325.8	11418.9	12722.5	12345.0	12850.3	14507.9	52.2	188.3	1024.7	1510.7	1011.3	1122.1	1095.2	1130.7	1282.7
Crygs	6	228.4	885.4	3138.6	13952.1	19483.6	19210.4	21787.8	22036.0	24560.8	35.3	47.1	198.9	907.7	1195.2	1193.5	1355.9	1366.2	1525.4
Cryba4	6	35.7	639.6	15661.3	21856.6	24935.6	21977.3	24851.2	23108.2	22000.5	10.7	38.6	778.2	1069.0	1235.6	1082.4	1234.7	1139.4	1083.9

Cryba2	6	276.9	3502.8	16897.9	23258.7	25397.8	24152.0	25170.9	25521.6	26123.5	27.0	111.6	527.9	737.2	802.3	765.9	799.0	811.8	828.3
Crybb1	6	428.3	10518.5	25522.8	25844.1	28954.5	25627.5	29168.3	27191.0	22185.1	24.3	180.3	437.8	447.3	497.0	446.6	509.9	470.8	386.7
Crybb3	6	5597.3	13149.4	27963.6	26321.3	26031.0	25269.5	25921.0	27533.1	22585.4	106.4	194.4	375.3	372.5	364.8	354.1	363.8	391.5	316.5
Gja3	6	329.3	2151.7	3472.3	6645.7	3993.7	5074.9	4478.8	3915.6	3911.5	49.4	153.5	334.3	640.5	378.5	481.4	424.9	382.9	376.6
Lim2	6	168.0	1906.1	7746.7	15812.9	15951.3	11452.0	17410.0	17222.7	14574.5	10.3	42.7	169.6	379.8	382.4	275.1	418.8	412.7	350.2
Mgarp	6	4386.9	4743.2	6962.7	7464.6	7365.8	9247.4	8277.2	9353.2	10036.7	56.9	63.8	94.4	99.0	97.0	121.8	109.2	121.7	132.2
Cryab	6	4051.4	5326.4	6239.7	18040.6	16928.8	19925.1	20418.2	23520.6	25273.6	31.3	39.9	45.6	124.6	120.5	139.2	141.9	162.9	176.6
Crygf	6	73.1	176.2	8083.8	21346.0	17170.6	20288.6	18117.6	19468.6	12774.1	8.9	3.7	164.3	459.2	369.6	431.7	385.3	413.6	271.9
Bfsp1	6	57.5	113.3	675.3	10137.9	12403.8	9699.6	13701.7	14716.5	18457.2	4.0	3.1	20.3	278.2	342.3	266.5	378.2	400.6	507.8
Tdrd7	6	645.1	1209.5	4162.8	8840.7	11917.8	9706.4	13043.7	11930.1	10403.6	7.5	9.4	38.2	79.3	107.4	86.6	115.8	103.4	92.8
Cp	6	629.3	934.9	1444.4	2454.1	2332.7	2606.0	2709.4	2064.9	3303.4	15.0	19.6	31.6	59.6	51.7	60.2	61.6	46.2	76.3
Bfsp2	6	111.2	251.1	1252.1	778.3	12317.5	8258.5	13957.8	9879.6	8511.6	2.4	6.2	25.6	16.8	265.2	173.6	296.3	213.9	181.0
Dkk3	6	1854.5	1531.6	3265.5	5086.8	7266.6	6631.9	8278.2	6169.8	7962.5	14.4	11.5	25.0	37.4	54.1	49.9	62.4	47.9	60.0
Tmem40	6	155.7	626.5	2511.6	2824.0	7381.6	3993.9	7848.0	5990.6	7251.7	2.5	6.2	26.4	28.2	76.0	40.1	79.8	59.5	72.6
Gpr137b	6	141.6	383.4	779.8	913.1	1088.9	449.3	1217.4	628.1	1046.1	6.1	11.9	29.8	38.5	48.0	19.4	54.3	26.2	45.1
Slc7a2	6	95.9	252.9	311.2	965.7	1146.7	1557.3	1452.6	1023.4	1293.1	3.8	7.5	10.7	32.0	37.5	49.5	47.3	32.0	41.1
Zbtb8b	6	579.7	770.0	1058.8	940.9	664.6	782.7	825.5	867.1	877.9	14.3	18.6	25.3	23.5	16.0	19.3	20.5	21.2	21.8
Cpeb1	6	24.9	74.6	192.3	491.9	390.6	575.3	437.5	400.6	455.6	2.4	5.2	17.0	41.2	30.3	48.9	38.3	33.1	38.6
Pla2g16	6	218.3	356.2	1516.1	6014.2	7426.1	8248.3	9047.2	7151.1	6329.6	2.1	2.6	10.7	38.8	53.8	55.9	60.9	51.1	42.9
Rsph10b	6	18.1	14.1	48.5	1083.5	849.5	1450.9	1284.0	819.3	1511.5	1.5	1.1	3.7	76.7	66.2	110.0	97.3	61.4	114.4
Gss	6	206.4	382.7	1170.8	2540.4	2678.5	1961.4	2798.9	2336.0	2049.0	2.9	4.6	12.8	28.0	30.2	22.1	31.1	26.1	23.0
Dock5	6	217.7	331.2	541.2	1285.4	2057.3	1373.9	2014.4	1016.8	1449.2	3.3	3.6	9.0	19.1	30.2	20.4	30.5	14.9	21.6
Sym	6	20.3	53.9	327.5	933.3	1792.3	1758.7	2363.2	595.5	1617.7	1.1	2.1	11.5	38.9	67.6	65.2	87.1	21.7	59.3
Usp15	6	38.6	160.4	526.1	1440.1	1020.9	1371.6	1216.3	1051.9	1108.7	1.4	2.8	8.8	35.9	25.6	33.8	31.1	24.6	28.0
Slc7a8	6	97.1	183.0	200.7	901.6	258.8	469.7	313.5	248.4	405.4	4.0	6.3	7.1	30.6	8.4	16.2	10.5	8.6	14.1
Sfrp1	6	666.3	2821.5	4311.3	5788.7	6541.3	3497.0	6692.4	5159.1	6171.5	2.2	7.4	11.2	16.7	17.4	9.4	18.1	12.8	16.7

Pon2	6	332.7	616.4	1368.8	2701.4	2281.1	1950.4	2634.2	1604.6	3193.2	2.3	3.7	8.1	17.3	14.5	11.9	16.2	10.1	19.8
Pkp2	6	352.1	370.8	889.6	1162.2	1398.6	1185.8	1311.8	924.1	1495.9	3.5	3.4	9.4	12.3	15.4	12.6	14.0	9.8	15.9
Malat1	6	365.4	314.0	755.8	692.7	1931.1	2801.2	1781.2	1234.3	1143.1	3.9	3.5	6.6	7.0	18.4	27.2	17.3	10.8	11.1
Fam89a	6	59.5	57.7	219.4	1244.8	2147.6	999.1	2863.8	1364.3	1722.6	1.6	1.1	4.2	24.6	44.7	20.6	57.2	27.9	35.5
Slc35f3	6	35.1	68.1	80.4	345.8	344.2	240.5	477.8	234.5	411.1	1.5	2.3	3.4	17.5	16.4	11.5	22.5	11.8	19.5
Susd2	6	151.8	97.1	94.8	234.4	226.5	250.3	289.7	177.8	259.0	5.7	3.9	3.7	8.9	7.4	9.2	10.1	6.9	9.6
Coro2b	6	224.8	218.5	463.1	2058.8	1812.4	2317.2	2121.5	1462.4	1555.2	2.3	1.6	3.9	20.3	17.1	22.5	20.0	13.4	15.1
Prkab2	6	132.1	170.7	208.9	805.7	1025.0	949.8	1498.9	811.9	1109.4	2.1	2.1	3.1	11.5	15.5	13.5	21.5	11.8	15.8
Mitf	6	75.7	125.2	137.2	391.2	554.5	764.4	568.5	464.9	666.1	2.2	3.5	3.8	11.4	15.6	22.0	16.3	13.2	19.2
Ypel2	6	515.0	1367.1	1654.9	1772.2	1778.1	1513.6	2192.6	1454.9	1828.1	2.7	5.2	7.6	9.4	9.3	8.0	11.7	7.7	9.7
Ptplad2	6	158.3	271.7	528.3	880.2	1137.4	834.0	1000.3	774.6	1052.2	2.0	3.2	6.2	10.4	13.6	9.9	11.7	8.7	12.5
Gstm6	6	35.8	64.1	71.9	328.6	191.8	301.3	215.7	276.6	150.1	1.9	2.8	4.5	18.5	10.8	16.7	12.2	16.4	8.3
1110059 G02Rik	6	265.0	258.0	523.1	1160.5	1112.6	886.4	1132.4	780.7	1061.7	2.9	3.0	6.1	14.1	13.0	10.4	13.2	8.8	12.5
Hfe	6	38.4	56.4	100.8	545.4	621.4	807.2	490.8	259.6	624.9	1.3	1.7	3.1	17.0	19.5	25.3	15.3	8.7	19.5
Nrcam	6	28.7	241.6	1384.7	2317.5	3748.9	2847.8	4166.6	3231.9	4553.8	-2.7	1.2	9.7	16.7	25.8	19.5	28.8	22.1	31.2
Ell2	6	1273.6	1624.1	3636.5	4834.0	2619.4	3003.2	2722.7	2559.3	3745.5	4.5	4.0	10.0	15.1	8.0	9.2	8.3	8.2	11.5
Six6	6	66.1	99.0	56.5	53.1	162.6	379.9	71.0	346.4	87.0	4.7	6.3	4.1	4.0	11.4	26.9	5.1	26.1	6.2
Pcp4	6	48.3	150.1	628.9	3805.7	4135.9	5007.8	5324.2	4597.2	4474.2	-2.0	-1.1	4.1	23.8	26.6	32.8	34.9	30.1	28.8
Rspo1	6	61.1	200.2	421.4	1070.2	1014.8	1073.3	991.5	668.9	1360.2	1.2	2.7	5.5	14.6	13.4	14.4	13.2	8.9	18.3
Crhbp	6	16.0	41.9	36.4	30.0	468.0	960.8	416.0	437.4	581.1	1.2	2.7	2.9	2.7	33.6	70.9	26.8	30.4	42.8
Rnf180	6	27.2	23.8	27.6	4669.5	3114.3	2616.9	3649.4	3543.8	4523.1	-1.1	-2.2	-2.0	88.8	58.5	50.4	72.8	70.7	87.1
Trpm1	6	105.7	182.6	69.8	85.8	184.0	263.7	139.0	232.1	190.0	4.4	6.6	2.8	3.9	7.8	10.9	6.1	9.2	7.9
Map3k5	6	85.4	94.8	89.8	418.4	617.7	813.8	717.3	926.9	1001.8	1.7	1.7	1.9	8.9	12.8	17.3	15.1	19.6	21.3
Katnal2	6	97.2	181.6	245.8	276.4	264.9	224.7	257.9	126.9	312.2	3.2	4.9	8.3	8.8	8.8	7.5	8.5	4.3	10.4
Palm2	6	35.4	28.0	68.9	1033.9	1795.0	1812.2	2048.2	1325.5	1060.9	-1.1	-1.6	1.5	21.7	40.6	37.7	44.1	28.0	23.7
Arhgap24	6	117.1	154.3	359.8	749.2	842.1	625.4	827.0	447.8	708.2	1.7	1.9	5.1	10.3	11.4	8.7	11.4	5.9	9.9

Hsf4	6	59.5	82.7	230.5	668.0	534.7	229.5	598.5	1144.1	339.8	1.7	1.8	5.4	15.6	12.2	5.4	14.1	25.8	8.1
Pmel	6	95.2	272.7	131.4	141.6	469.0	649.3	359.0	662.4	211.1	1.8	5.4	2.4	3.3	8.4	12.1	6.7	12.3	3.9
Vsx2	6	79.2	175.1	133.7	149.0	280.6	377.6	138.6	575.8	218.4	2.1	4.2	3.8	3.7	7.7	10.7	3.9	17.5	6.2
Ninj1	6	397.9	713.3	2064.3	4498.2	3513.6	4543.4	4329.5	4534.6	3141.5	1.2	1.6	4.3	11.7	9.0	11.6	11.2	11.6	8.1
Fam46c	6	361.1	739.5	1966.8	3857.5	3576.0	3729.9	3973.0	2965.1	3215.8	1.2	2.0	5.3	10.2	9.7	10.0	10.7	8.3	8.6
Gas7	6	72.0	65.6	102.9	312.4	242.3	501.4	338.5	208.0	257.7	2.0	1.6	2.8	9.0	7.0	13.5	8.9	5.2	6.9
Epdr1	6	97.3	443.0	911.1	1302.2	1028.4	1180.1	1031.3	1148.3	1663.5	-1.1	2.4	5.4	9.3	6.8	8.0	7.0	7.9	11.3
Glycam1	6	13.0	12.6	15.7	65.8	179.8	214.5	191.5	191.9	135.0	1.2	1.2	1.5	6.0	16.1	19.6	17.1	16.9	12.4
Rorb	6	42.1	54.7	41.2	87.5	160.4	194.7	64.4	648.3	38.2	2.7	2.9	2.4	5.3	6.4	10.0	3.5	26.4	2.0
Hspb2	6	212.0	161.5	237.7	837.9	620.7	657.3	846.2	977.5	631.7	2.1	1.7	2.4	8.2	6.5	6.7	8.7	10.0	6.4
Hist1h1c	6	225.4	327.1	432.0	1745.5	2193.9	2873.2	5115.2	1769.7	3072.1	1.1	1.3	2.1	8.0	10.0	13.6	23.7	8.5	14.5
Lrrc75b	6	21.5	42.7	48.0	1235.4	634.1	720.1	1097.0	1182.3	674.7	-1.4	-1.1	-1.0	34.2	18.0	19.5	31.1	30.4	18.6
Wbp2	6	354.8	625.0	738.1	1320.3	775.5	593.5	949.8	1010.5	1183.3	2.1	3.9	4.7	8.4	4.7	3.6	5.8	6.1	7.3
Gsn	6	178.5	159.8	1031.4	5777.5	4530.2	6339.5	4733.5	5278.4	4769.7	-1.4	-2.6	1.1	22.3	16.9	24.4	17.9	21.2	18.3
Cpeb3	6	23.6	22.0	36.6	410.8	335.8	418.1	452.1	384.7	527.5	-1.1	-1.1	1.4	15.9	12.7	16.3	17.5	14.3	20.6
Cpq	6	115.5	155.2	261.9	846.7	856.9	799.0	1137.6	932.3	1374.9	1.0	1.2	2.6	7.7	7.8	7.3	10.4	8.9	12.6
Scgn	6	97.7	114.2	142.2	258.3	264.2	321.3	329.8	479.1	341.9	2.1	2.2	2.7	5.7	5.4	6.6	6.7	9.4	7.0
Prkaa2	6	26.1	58.2	169.2	618.3	542.2	573.8	693.6	606.4	567.0	-1.5	1.0	3.6	13.0	11.8	12.2	15.0	11.7	12.2
Gabrg3	6	13.1	15.0	16.9	81.7	84.4	164.2	98.5	28.8	89.5	1.3	1.7	1.8	7.6	8.3	15.7	8.8	2.6	8.3
Qpet	6	17.2	24.4	38.2	353.6	420.3	319.7	594.7	353.5	447.1	-1.4	-1.0	1.2	13.3	15.2	11.4	20.9	13.2	16.0
Tom1l1	6	158.4	215.2	412.9	399.4	425.9	574.7	400.0	525.5	542.0	2.2	2.1	5.2	5.1	5.3	7.3	5.0	6.4	6.8
Tex2	6	81.5	91.2	215.8	1214.7	1179.4	1095.7	1280.0	1012.3	967.0	-1.2	-1.3	2.2	12.1	11.7	10.7	12.7	9.7	9.4
Sorbs1	6	111.2	516.1	1969.5	3316.8	2082.4	4290.2	2159.0	2260.9	3181.4	-1.8	1.1	5.9	11.3	7.2	14.7	7.6	7.7	10.9
Stk39	6	167.4	516.0	1343.2	2378.8	1235.3	1425.6	1080.8	1591.9	1380.6	-1.0	2.5	6.1	10.9	5.6	6.5	4.7	7.0	6.3
Gas6	6	50.6	74.0	214.2	981.6	809.9	639.0	898.2	970.9	1450.0	-1.8	-1.1	2.4	10.6	8.9	7.1	9.9	10.7	16.1
Add2	6	55.8	126.2	397.9	1440.6	1911.5	1687.5	1733.8	1441.8	1321.7	-2.1	-1.8	2.4	9.8	12.5	11.4	12.0	8.8	8.9

Acss2	6	15.3	16.1	25.0	65.9	222.1	47.5	244.8	68.0	179.4	1.3	1.3	1.8	4.7	17.2	3.7	19.2	5.3	13.7
Snx22	6	42.5	49.3	62.1	661.5	935.9	686.4	1257.2	831.3	1054.9	-1.4	-1.2	1.1	10.5	16.0	10.5	19.1	13.4	16.3
Grid1	6	15.5	24.3	54.0	201.6	162.6	280.6	204.9	112.7	129.8	-1.3	1.2	2.1	9.8	8.1	14.0	10.2	6.2	6.5
Rassf5	6	19.5	16.2	19.3	160.2	190.1	196.2	257.6	227.8	215.0	1.1	-1.1	1.0	8.8	10.3	10.8	13.8	12.3	11.8
Lpin1	6	24.0	23.5	48.0	319.2	458.0	371.7	725.8	290.2	578.0	-1.6	-1.3	1.2	7.8	11.7	9.3	18.3	6.6	14.5
Mapre3	6	48.3	107.5	118.3	454.2	164.0	171.7	194.0	269.3	288.6	1.0	2.3	2.8	10.5	3.8	3.8	4.6	6.9	6.8
Rbp3	6	30.9	59.7	82.4	310.8	114.4	65.1	94.0	423.6	182.8	-1.3	1.5	2.2	8.6	3.4	1.8	2.7	12.3	5.2
Rcan2	6	24.8	41.5	280.9	1111.9	1411.1	620.0	1692.0	1354.1	2283.1	-4.9	-5.3	1.6	7.0	8.3	3.8	10.1	8.4	14.0
Wfdc1	6	109.2	158.0	111.8	131.0	244.7	642.5	171.3	638.2	238.3	1.8	2.6	1.9	2.2	3.8	10.1	2.4	9.4	3.8
Slc6a15	6	17.2	29.3	102.5	229.8	463.9	635.1	420.6	853.9	63.6	-2.8	-1.9	2.0	5.4	8.9	14.1	9.5	19.3	1.4
Sfi1	6	76.2	103.3	124.8	83.2	90.9	114.7	95.6	442.7	45.9	2.4	3.1	3.7	2.7	2.7	3.5	2.9	13.2	1.4
Vwa5a	6	151.3	161.2	801.2	1470.1	1111.5	1637.9	1316.2	2179.8	1885.8	-1.7	-1.6	3.4	6.2	4.8	6.9	5.6	8.9	7.9
Hopx	6	64.8	78.0	103.7	2332.3	2304.1	2365.7	2436.7	975.9	1961.3	-2.4	-3.3	-2.2	10.3	10.0	10.6	10.6	4.3	8.8
Gadd45b	6	66.8	84.2	86.2	774.4	1356.9	1165.7	2169.0	2268.5	1146.9	-2.8	-2.0	-1.9	4.5	7.8	7.0	13.0	13.1	6.9
Col6a3	6	50.2	205.0	394.0	1303.1	1255.2	1594.6	985.8	3415.4	2437.4	-4.4	-2.2	1.1	3.6	3.8	4.3	2.8	9.6	6.9
Bend6	6	19.3	27.2	29.4	121.1	65.4	255.6	153.3	28.9	76.9	-1.1	1.2	1.4	5.1	3.2	11.8	7.6	1.3	3.6
Avp	6	38.2	43.2	48.8	213.4	121.5	187.9	161.8	2086.4	58.3	-1.1	-1.1	0.0	4.5	2.7	4.0	3.4	44.5	1.3
Cryga	7	16.6	1060.2	16528.3	18381.5	15757.5	18253.3	16181.9	20076.1	7291.5	11.6	55.3	1354.9	1517.0	1289.9	1492.0	1340.0	1646.3	595.9
Crygn	7	208.7	2360.1	14145.7	18754.4	19787.0	18829.7	18881.4	18756.2	2808.8	38.2	162.0	948.8	1280.1	1321.5	1285.4	1289.0	1272.1	191.3
Trpm3	7	820.2	782.2	1143.3	1592.9	1708.4	2158.4	2075.2	1058.5	1429.0	35.3	36.2	53.4	72.1	74.9	94.7	91.9	48.9	62.7
Vit	7	358.7	1181.0	2697.1	3116.5	3500.0	2594.0	3631.3	2762.9	2258.6	9.4	22.3	67.2	74.0	82.3	61.7	85.6	66.7	53.7
Crim1	7	1659.0	2448.0	3507.0	3698.3	3894.8	5738.6	4430.8	4926.9	2206.3	21.1	30.0	43.9	43.8	51.1	72.6	56.2	59.7	27.4
Pip5k1l	7	52.1	263.1	902.0	1010.0	1326.9	1139.9	1306.7	859.0	574.1	4.3	13.5	51.2	57.6	76.0	65.7	74.4	48.0	32.9
Caprin2	7	167.3	427.9	1642.7	4910.4	5903.2	3661.5	6658.6	2829.6	1334.2	3.1	4.3	17.7	54.9	65.0	40.4	73.8	31.3	14.7
Zfp365	7	19.1	129.0	517.6	1504.2	887.1	454.3	921.4	314.0	305.6	2.0	5.6	34.1	99.4	59.5	29.7	62.1	20.7	20.0
Gm17586	7	141.6	204.1	597.2	1407.7	1154.0	987.0	1070.3	623.8	338.4	3.6	4.8	14.7	37.7	28.2	25.1	27.3	16.5	8.6

Ptpru	7	347.8	639.7	1151.3	1326.6	1149.7	724.7	1320.9	1149.2	492.4	6.1	9.2	16.8	21.8	18.0	11.1	20.0	16.2	7.5
Slc16a12	7	54.7	181.8	525.6	786.8	408.3	447.8	385.8	483.7	375.6	2.0	5.2	16.8	29.2	13.3	15.4	13.5	15.4	13.0
Abca4	7	214.4	518.1	761.4	906.2	1032.6	677.9	935.3	644.3	463.3	3.3	7.9	11.8	14.2	15.6	10.6	14.1	10.3	7.2
Nid1	7	2697.6	5308.9	5020.2	8192.9	4391.5	6257.7	4469.0	4103.5	4901.1	6.0	10.4	10.1	15.3	8.2	12.2	8.7	8.0	9.5
Epb4.114a	7	574.7	866.1	1247.7	1353.6	1845.1	874.8	2061.6	1413.4	760.8	5.1	6.8	11.2	11.9	15.1	7.3	17.3	10.8	6.3
Bcar3	7	385.7	453.8	579.1	760.0	748.3	802.6	905.2	548.7	442.8	6.3	7.3	9.3	12.1	11.8	12.8	14.4	8.8	7.1
Slc24a4	7	34.9	46.4	172.5	959.6	1123.5	885.4	1579.9	828.4	662.7	1.1	1.5	5.4	28.9	35.4	27.2	45.5	23.9	20.3
Pla2g7	7	41.9	98.1	2246.7	3852.3	4400.6	3653.9	5172.1	5486.2	237.8	1.3	1.3	31.1	52.3	60.7	49.0	66.9	75.6	3.2
Cap2	7	192.5	572.4	1372.3	1317.5	2114.1	1808.9	1779.3	1112.4	1270.8	1.7	4.5	13.3	12.1	18.8	16.6	16.4	10.0	11.6
Ceacam10	7	23.0	20.8	21.8	1282.4	1089.4	721.8	930.9	849.9	664.1	1.7	1.1	1.0	65.5	57.6	36.7	50.7	42.2	33.8
Npnt	7	799.0	750.3	659.0	1297.9	1124.7	673.2	1178.3	530.5	891.9	6.2	4.4	4.3	9.8	7.6	5.2	9.0	4.3	6.9
Efcab1	7	99.2	283.9	717.6	1283.2	964.7	945.7	958.0	821.2	113.9	1.9	4.1	11.7	22.9	17.4	16.3	16.3	14.3	1.9
Lgi2	7	69.8	58.1	230.9	1364.9	1393.1	1560.7	1417.9	1282.8	246.8	1.5	1.1	4.1	30.0	30.0	33.8	31.1	29.3	5.3
Sptb	7	108.9	171.3	515.8	752.1	1223.9	576.7	1419.3	1164.6	680.0	1.2	1.9	6.9	11.8	16.8	8.0	19.9	14.0	9.5
Zfp536	7	216.8	204.5	356.4	491.8	674.3	628.2	753.3	283.7	306.3	3.4	3.3	5.6	8.0	10.9	10.4	12.2	5.1	5.1
Chrng	7	64.1	258.8	1264.9	1999.2	2381.0	1490.9	2554.9	1617.0	162.2	1.2	3.3	17.5	27.8	33.6	20.9	35.7	20.7	2.3
C030009J22Rik	7	10.7	8.9	46.4	171.3	199.7	269.1	234.4	77.2	109.4	1.3	-1.0	4.2	19.5	23.2	30.4	26.0	9.5	12.4
Teerl	7	67.7	87.2	89.6	262.6	323.6	368.6	413.4	283.9	61.0	2.3	3.4	3.6	10.5	13.1	15.1	16.7	11.5	2.5
Pygm	7	38.9	33.2	184.1	1697.9	1251.6	1301.6	1306.5	1370.6	182.1	-1.2	1.0	4.3	50.2	33.5	35.6	36.3	34.6	5.1
Pgam2	7	56.2	99.8	824.9	3373.2	4488.0	5719.7	5255.9	4917.7	1303.3	-1.8	-1.3	5.0	20.0	26.3	34.4	32.2	30.2	7.8
Gcg	7	11.9	21.1	573.7	1429.6	2423.6	913.5	3111.8	871.0	52.0	-1.2	-1.3	18.4	47.1	72.8	30.4	99.9	28.3	1.7
Col4a2	7	1054.6	1861.8	2672.3	3007.6	3320.3	3404.9	3829.0	2900.6	1404.4	2.3	3.9	5.8	6.6	7.0	7.5	8.2	6.4	3.1
Col4a1	7	3237.3	5728.2	8030.3	7587.1	8523.5	7431.4	8831.3	5604.7	5745.6	2.6	4.7	6.3	6.0	6.6	5.9	6.8	4.5	4.6
Abcc8	7	104.5	184.4	278.5	328.2	479.6	540.4	622.3	518.6	84.0	2.4	3.8	5.6	7.1	10.0	11.1	13.1	9.5	1.7
Arnt2	7	16.0	19.6	107.9	296.9	84.4	131.7	73.3	122.0	26.1	1.4	2.0	11.2	32.2	9.1	13.8	7.5	12.3	2.7
Gget	7	79.3	86.8	174.5	3122.9	2806.1	1687.6	3278.5	2388.4	670.0	1.1	-1.1	1.9	35.3	30.3	19.3	37.8	28.1	7.7

Optn	7	48.5	36.3	60.3	745.7	666.3	360.2	896.7	538.8	281.3	1.6	1.1	1.7	22.0	20.2	10.6	25.6	15.9	8.4
Drd4	7	54.9	69.7	304.4	620.5	737.3	535.6	716.0	517.9	256.4	1.1	1.3	6.0	12.5	14.5	10.3	13.8	9.6	4.9
Ctsf	7	267.2	480.2	647.6	457.5	489.9	658.3	613.6	592.8	463.5	2.4	4.3	6.4	4.2	4.7	6.1	5.8	5.5	4.3
E130119 H09Rik	7	40.2	28.7	39.2	1262.3	1246.0	1195.6	980.6	825.2	608.6	1.2	-1.4	1.0	32.9	35.3	32.4	27.2	20.3	16.5
Sptbn2	7	347.0	883.7	1192.1	733.8	1066.6	924.0	1199.4	965.6	813.1	2.0	4.3	6.2	3.9	5.7	4.8	6.3	4.7	4.2
Stx11	7	10.8	13.6	14.6	485.9	645.7	556.9	861.4	593.7	349.0	-1.4	-1.3	-1.2	28.7	37.6	32.3	50.7	34.0	20.3
Tom1	7	475.7	517.8	1972.1	3713.3	4752.1	2764.7	4721.6	2352.0	2080.7	1.5	1.3	5.4	10.2	13.3	7.7	13.4	6.3	5.8
E330034 G19Rik	7	42.0	21.2	27.1	711.7	553.3	631.0	1038.2	580.6	37.1	1.6	1.0	1.5	28.6	25.9	28.3	41.4	26.3	1.7
Cspg5	7	161.1	267.4	420.9	631.1	421.3	277.6	513.4	659.6	353.9	2.0	3.7	5.9	8.1	5.7	3.7	7.0	8.8	4.8
Tmprs5	7	39.1	46.8	86.7	319.0	383.1	365.9	489.7	261.2	79.6	1.3	1.6	2.8	10.6	13.0	12.3	16.3	8.2	2.6
Casp7	7	175.6	223.0	418.8	2150.6	1717.1	2047.1	2157.4	1905.2	589.5	1.3	1.4	2.6	14.1	11.2	13.3	13.8	12.5	3.8
Rnf123	7	176.1	208.7	590.2	1455.9	1904.9	1048.4	2130.8	1773.0	205.8	1.4	1.6	4.3	11.2	14.2	7.7	16.0	12.1	1.5
Dgkg	7	37.6	62.7	70.8	285.9	226.4	203.3	252.8	84.0	154.5	1.6	2.2	2.5	10.8	8.5	7.4	9.4	2.7	5.7
Pyroxd2	7	32.1	66.7	164.8	159.7	178.4	272.3	198.7	154.1	116.8	1.3	2.0	5.7	5.5	6.2	9.5	6.9	5.1	4.1
Myo7b	7	50.7	87.3	149.4	642.0	1109.7	395.6	1089.6	825.2	69.1	1.1	1.7	3.0	13.5	23.4	8.0	22.0	14.6	1.4
Nlrc5	7	23.8	20.6	23.2	341.1	437.0	529.6	351.6	173.4	124.5	1.2	1.1	-1.0	15.7	19.9	24.8	17.1	9.0	5.8
Pdlim7	7	386.8	648.9	1662.5	3170.0	3588.3	2754.0	3438.9	3203.1	680.6	1.3	2.2	4.4	9.2	10.0	7.8	10.0	8.9	2.0
Gm3515	7	224.3	39.8	73.7	1105.1	1267.4	1621.3	836.4	440.0	233.5	3.4	-2.0	1.3	17.0	20.9	27.5	14.3	8.3	4.0
6030439 D06Rik	7	141.7	108.9	109.1	96.9	285.2	302.9	576.9	182.7	123.9	2.9	2.4	2.4	2.5	6.6	6.8	12.4	4.1	2.8
Tmprs11 c	7	7.8	8.2	6.6	430.8	247.6	248.0	181.8	117.4	20.0	1.1	1.0	-1.0	56.6	30.6	32.1	22.3	16.6	2.4
Syt11	7	151.3	592.1	1323.0	2087.6	1811.0	1714.8	2002.9	526.9	640.7	-1.4	2.0	5.4	8.9	7.8	7.3	8.5	2.2	2.8
Nipal3	7	59.7	91.1	189.7	327.0	1361.3	225.0	1347.2	218.5	236.6	-1.1	1.5	2.8	5.4	21.9	3.5	21.2	3.4	3.7
Fgfr1l	7	344.6	649.0	1303.9	3241.4	5075.4	2854.5	5911.6	2108.0	1361.8	-1.1	1.3	2.7	7.7	12.8	7.1	14.5	5.1	3.4
Hlcs	7	84.2	155.0	324.1	297.8	313.0	240.4	292.3	255.3	176.7	1.5	2.6	5.4	5.1	5.2	4.2	5.1	4.6	3.1
Sdk2	7	31.5	95.5	179.0	1141.4	902.6	587.8	1015.8	562.4	161.2	-1.7	1.3	2.7	17.4	13.6	8.7	14.1	7.4	2.4
Tmec3	7	103.6	106.6	747.7	1274.4	1294.8	1184.5	1281.1	673.6	767.8	-1.2	-1.7	5.0	9.1	9.6	8.7	9.3	5.1	5.6

Rsph3a	7	31.1	42.1	97.1	281.9	168.7	104.3	175.7	48.3	97.8	1.5	2.0	4.2	11.9	7.5	4.5	7.5	2.4	4.3
Cckbr	7	25.2	41.6	63.5	237.9	312.0	209.5	579.2	484.9	59.5	-1.1	1.4	2.3	7.2	9.7	6.8	19.2	14.8	1.9
Ggaet	7	35.8	36.9	58.2	332.0	263.3	365.1	298.6	211.6	135.8	1.3	1.1	1.9	10.5	7.7	11.0	9.0	6.1	4.0
Gtsf1	7	16.9	21.1	23.2	251.1	292.2	322.9	360.3	209.1	101.6	-1.4	-1.1	-1.0	10.6	12.8	14.5	16.0	9.9	4.5
Fam189a1	7	21.3	54.4	60.6	396.8	411.5	316.1	403.3	178.4	260.2	-1.6	1.3	1.6	10.4	10.5	8.4	10.6	4.9	6.9
Hspb6	7	22.5	40.1	41.8	159.5	235.2	284.1	416.1	170.2	160.0	-1.2	1.3	1.0	4.8	7.3	8.7	12.9	5.3	4.8
Hspb3	7	24.6	47.4	137.8	618.8	721.6	751.7	772.9	745.9	142.5	-1.7	-1.2	2.3	10.4	12.4	12.8	13.1	12.0	2.4
Pappa	7	12.1	11.1	13.7	358.1	428.2	444.9	555.8	248.3	198.7	-2.5	-3.2	-2.2	11.4	12.6	13.1	17.1	8.2	5.9
Unc13c	7	21.9	16.9	80.4	299.5	311.5	182.3	244.9	88.5	27.5	1.2	-1.3	3.1	14.7	13.4	8.7	11.6	4.1	1.3
Bmper	7	57.0	265.5	833.7	1713.6	1841.9	862.6	1759.7	648.8	329.0	-1.9	1.4	5.7	11.6	12.9	6.0	11.9	4.5	2.3
Rgs8	7	45.6	57.8	312.8	633.2	358.7	179.3	199.9	173.5	181.3	-1.6	1.2	6.1	12.1	6.6	3.5	4.1	3.6	3.5
Lrrtm2	7	16.5	12.4	24.8	358.3	261.4	150.4	339.3	142.8	111.1	-1.2	-1.6	1.2	15.1	12.6	7.0	16.1	6.9	5.3
Scn11a	7	22.2	24.5	115.9	421.3	212.7	135.9	170.1	64.0	28.1	1.0	1.3	5.3	17.3	9.9	6.3	7.9	2.7	1.3
Cabp5	7	31.2	41.4	39.0	350.5	536.7	188.0	573.9	224.5	102.8	-1.1	1.1	1.0	8.7	14.6	5.1	15.8	6.0	2.8
Sle46a3	7	19.1	28.6	28.4	283.8	348.7	204.6	447.7	217.8	48.5	-1.1	1.0	1.2	11.9	14.7	8.3	17.3	8.3	1.9
1300017J02Rik	7	72.3	138.5	704.2	1024.6	1679.7	840.9	1449.9	877.8	168.2	-1.7	1.1	4.9	8.5	13.3	6.7	11.2	7.1	1.3
Ceacam1	7	16.9	17.3	19.6	105.6	168.9	64.9	199.6	127.5	30.4	1.2	1.2	1.3	6.9	11.3	4.2	13.2	8.5	2.0
Atp13a5	7	9.8	9.8	11.1	87.0	68.6	114.4	86.4	61.0	12.2	1.3	1.1	1.4	8.8	8.0	13.3	9.4	7.4	1.4
Syn2	7	40.4	49.5	218.6	228.2	339.4	394.7	594.3	207.8	54.2	-1.3	-1.0	5.4	5.3	7.6	9.2	15.1	4.5	1.3
Ccde109b	7	12.3	11.9	9.7	94.9	235.0	80.1	282.4	243.8	62.6	-1.6	-1.5	-1.3	5.2	13.9	4.4	15.3	13.4	3.5
Ankrd66	7	18.0	15.4	17.9	201.0	177.6	194.8	173.6	216.2	25.3	1.0	1.1	-1.0	11.3	9.4	11.2	10.6	12.0	1.4
Rgs5	7	12.6	18.1	26.3	2242.6	1991.5	2398.9	2713.1	1745.6	67.4	-9.8	-8.5	-6.7	15.2	13.7	14.7	18.5	11.8	-2.4
Rmst	7	21.5	13.2	15.4	64.9	155.6	119.5	169.3	18.7	37.9	1.5	-1.1	1.1	4.9	11.8	8.4	12.1	1.3	2.7
Uox	7	20.1	22.2	26.1	231.4	292.6	22.2	440.5	224.5	119.6	-1.3	1.1	-1.0	9.4	12.0	-1.2	16.7	8.6	4.8
Wdr66	7	36.0	16.9	20.9	80.1	99.7	77.3	129.7	224.4	26.9	1.4	-1.4	-1.1	3.6	4.2	3.3	5.6	9.1	1.1
Rab42	7	23.8	22.3	32.6	327.6	67.9	110.3	27.4	51.6	28.5	1.1	-1.0	1.6	11.8	2.7	4.5	1.2	2.2	1.2

Gje1	8	41.6	600.6	4153.5	5535.8	2896.5	3166.2	2760.8	2435.9	206.0	19.2	69.5	742.9	1074.2	550.7	606.8	527.1	465.0	39.5
Sox1	8	571.2	1216.4	1898.7	2324.3	1111.7	1292.7	1267.6	880.6	730.3	10.0	16.1	26.0	36.2	17.4	20.1	19.9	13.8	11.2
Maf	8	6058.7	6137.9	7648.7	7956.6	4558.9	6626.4	4931.3	4056.6	4087.5	13.3	12.9	17.1	18.8	11.1	15.7	11.8	9.6	9.7
Med12l	8	514.2	736.1	880.4	978.8	725.4	1065.3	660.8	352.8	320.6	6.5	8.3	11.6	12.4	9.6	14.2	8.6	4.6	4.3
Ctnd2	8	940.0	899.2	1386.7	1931.6	1262.2	1945.0	1146.2	879.6	520.0	6.4	6.1	9.7	13.9	8.6	13.2	8.1	6.3	3.5
Kcne1	8	74.4	98.1	94.0	165.8	117.9	115.4	78.0	65.3	32.0	5.4	7.1	6.6	11.4	7.9	8.0	5.4	4.5	2.2
Eid4	8	611.8	682.7	722.3	1013.7	614.2	819.3	610.5	271.9	538.9	5.3	5.3	6.1	8.2	5.0	6.8	5.1	2.3	4.5
Stxbp6	8	238.2	527.8	1000.5	1499.1	1062.9	1337.4	1128.5	202.3	337.2	2.0	2.8	7.8	12.4	8.7	10.9	9.3	1.6	2.7
Map6d1	8	43.4	57.5	166.0	229.8	130.3	93.9	90.7	60.8	46.9	1.5	2.0	5.6	7.6	4.4	3.2	3.1	2.2	1.6
Pik3cd	8	268.5	392.4	377.5	6218.8	161.2	5347.8	169.4	642.7	285.7	-1.1	1.2	1.2	22.4	-1.9	17.2	-1.8	1.9	-1.1
Aldh1a7	9	3452.0	2987.7	2558.7	3632.1	4205.7	2563.7	3469.4	2067.0	1334.6	116.3	101.4	90.1	123.4	134.3	88.1	121.5	74.5	45.8
Cntn6	9	73.7	183.4	207.4	253.4	227.8	286.9	281.0	135.8	72.5	5.5	11.1	14.9	18.2	16.8	20.5	19.9	10.3	5.0
Col4a6	9	450.4	837.9	1194.0	1038.1	1080.3	1091.5	1101.7	65.6	276.8	9.9	15.1	25.5	22.0	22.7	22.8	23.7	1.4	5.8
Adamsl4	9	111.6	230.5	194.1	357.3	291.4	175.2	291.4	141.4	144.9	5.1	9.6	7.7	14.3	10.9	6.7	11.0	5.5	5.5
Ssx2ip	9	1751.7	2423.8	3532.5	4119.8	5843.5	3670.0	5345.2	3044.4	1314.4	3.8	5.0	6.6	8.3	11.5	7.4	10.8	6.4	2.6
Jag1	9	3203.7	3525.9	3806.0	3330.1	3425.4	3705.2	3179.0	1458.3	1171.5	6.5	6.9	7.4	6.7	6.9	7.4	6.3	2.9	2.3
Trpc6	9	12.5	27.5	96.2	192.1	200.9	111.1	116.5	69.7	14.2	1.4	2.5	9.7	19.3	20.6	11.0	11.9	7.2	1.4
Mafg	9	614.4	649.1	1049.0	1101.9	1056.8	1015.0	953.2	508.5	259.3	3.5	4.4	6.5	7.0	6.3	6.2	5.9	3.0	1.6
Cyyr1	9	71.3	83.9	173.8	1125.0	839.2	512.6	773.4	319.7	20.5	1.2	1.1	2.5	15.3	11.4	7.2	9.9	4.5	-3.5
Ptgfr	9	20.8	57.1	81.9	131.4	262.1	100.6	148.7	105.1	21.9	1.0	1.9	3.2	5.2	11.0	4.0	5.6	3.7	-1.2
Map7	10	1161.5	2233.0	2104.3	1201.0	1370.5	1090.1	1528.1	1156.4	1145.8	18.5	30.8	31.2	18.8	21.5	16.6	22.7	17.2	17.4
Bel2l13	10	1070.8	1396.1	1902.7	1318.8	1371.5	1004.2	1344.1	1157.6	1031.0	4.1	5.2	6.8	5.1	5.1	3.8	5.1	4.3	3.9
Tpra1	10	479.2	859.9	925.4	518.7	725.9	541.3	639.2	381.0	333.7	3.6	6.1	6.8	3.8	5.5	4.0	4.6	2.9	2.5
Fam105a	10	145.2	252.7	213.5	210.7	237.8	135.7	239.4	189.4	184.4	2.8	4.6	4.0	3.9	4.1	2.4	4.3	3.4	3.2
Cpne7	10	223.6	564.9	617.8	195.4	154.2	163.7	149.4	204.1	49.8	5.9	13.6	14.0	4.7	3.7	3.8	3.6	4.5	1.2
Zfp385a	10	410.0	986.9	954.0	601.1	429.2	220.9	407.4	530.7	395.2	2.9	6.2	6.9	4.5	3.1	1.5	2.9	3.6	2.8

Gbf1	10	455.1	544.1	587.3	414.1	474.5	387.8	487.4	444.1	262.5	3.4	4.0	5.1	3.8	4.0	3.2	3.9	3.4	2.2
Fam43a	10	224.5	556.7	696.5	192.9	153.4	74.9	95.3	44.2	42.1	2.2	4.4	6.6	1.9	1.3	-1.5	-1.2	-2.1	-2.6
Sipa113	11	684.3	1156.8	1222.4	1193.2	821.1	746.5	856.1	645.6	609.7	5.8	9.3	10.3	10.0	6.5	6.1	6.9	5.2	5.0
Lace1	11	301.2	374.7	463.0	406.7	339.8	143.8	348.6	65.6	361.6	8.0	8.1	11.2	9.9	8.2	3.5	8.2	1.7	8.7
Man1c1	11	777.0	786.7	836.9	991.4	708.4	725.8	794.1	582.6	588.6	6.3	6.7	6.8	7.9	5.7	5.8	6.1	4.8	4.7
Slc25a23	11	132.0	271.2	240.1	253.9	112.1	202.8	112.6	116.7	188.0	3.3	6.6	6.5	7.2	3.2	5.7	3.1	3.3	5.3
5830408B 19Rik	11	364.8	671.1	698.0	673.5	533.0	421.1	433.2	384.7	295.3	4.0	5.3	6.4	6.5	5.3	4.2	4.1	3.7	2.9
Dgkb	11	118.2	166.2	159.8	102.9	73.3	79.7	46.3	51.1	176.9	5.6	6.9	8.4	5.4	3.7	4.1	2.4	2.5	9.0
Espn	11	47.6	85.8	97.0	68.9	28.5	25.5	28.5	33.7	29.1	4.5	7.1	9.0	7.2	2.7	2.5	2.6	3.3	2.8
Septin8	11	1160.4	1779.4	2152.7	976.9	861.0	1008.4	825.4	672.4	1353.3	4.1	6.0	7.0	3.3	2.9	3.4	2.8	2.3	4.5
Msi1	11	1041.8	1583.6	1778.7	2286.5	668.2	1171.6	802.8	696.5	431.3	2.6	4.4	5.2	6.0	1.8	3.0	2.1	1.8	1.1
Rgs13	11	19.2	91.3	84.3	50.1	13.1	9.7	9.8	7.2	11.0	3.1	8.7	12.8	6.6	1.8	1.4	1.4	1.1	1.6
Spp1	11	54.0	144.5	178.6	113.4	7.8	8.3	10.5	13.3	19.0	2.5	7.4	8.0	5.0	-2.8	-2.6	-2.1	-1.6	-1.1
Cyb561	11	151.6	251.1	177.3	93.4	39.5	28.2	31.8	18.9	29.6	3.2	4.2	4.0	1.9	-1.3	-1.7	-1.5	-2.5	-1.7