

Supplementary Table S3. Differential expressed genes in glomeruli from diabetic mGPDH KO mice compared with WT mice.

Up-regulated:

No.	Track_id	Gene_Name	FC(KO/WT)	Log2FC(KO/WT)	P value
1	ENSMUSG00000086503	Xist	17489.3407	14.09418828	2.67E-22
2	ENSMUSG00000030653	Gm45837	1707.993731	10.73808696	1.81E-12
3	ENSMUSG000000107928	Gm45140	1169.666266	10.19188124	5.92E-11
4	ENSMUSG00000094065	Gm21541	659.6831845	9.36562952	9.62E-09
5	ENSMUSG00000097421	D630011A20Rik	475.8043925	8.89422478	1.47E-07
6	ENSMUSG00000018865	Sult4a1	375.0883092	8.551086488	8.76E-07
7	ENSMUSG000000103037	Pcdhgb1	371.9948867	8.53913898	1.03E-06
8	ENSMUSG00000093829	Gm24798	309.7667352	8.275038416	3.54E-06
9	ENSMUSG00000026834	Acvr1c	259.9842141	8.022280217	1.17E-05
10	ENSMUSG00000021403	Serpib9b	252.7902081	7.981796771	1.45E-05
11	ENSMUSG00000045551	Fpr1	238.4021963	7.897253716	2.25E-05
12	ENSMUSG00000097770	Gm26776	236.1001143	7.88325493	2.25E-05
13	ENSMUSG00000019848	Popdc3	231.2081903	7.853048694	2.82E-05
14	ENSMUSG00000087067	Gm11532	228.2586479	7.834525709	2.82E-05
15	ENSMUSG00000099241	Gm18852	227.251487	7.828145925	3.57E-05
16	ENSMUSG00000024401	Tnf	188.0441546	7.55492765	9.64E-05
17	ENSMUSG00000026390	Marco	180.8501487	7.498650974	0.000125561
18	ENSMUSG00000027913	Crc1	180.8501487	7.498650974	0.000125561
19	ENSMUSG000000112640	AC172027.3	178.835827	7.482491977	0.000164799
20	ENSMUSG000000112022	AC157515.1	177.8286662	7.474344097	0.000164799
21	ENSMUSG00000026580	Selp	166.4621368	7.379050251	0.00021796
22	ENSMUSG00000044162	Tnfp3	166.4621368	7.379050251	0.00021796
23	ENSMUSG000000113599	AC154502.3	166.4621368	7.379050251	0.00021796
24	ENSMUSG00000097590	Gm26675	163.9442347	7.357061358	0.00021796
25	ENSMUSG00000078674	Mup18	159.8436513	7.320517634	0.000290613
26	ENSMUSG00000052270	Fpr2	159.2681308	7.315313806	0.000290613
27	ENSMUSG00000078776	9530053A07Rik	159.2681308	7.315313806	0.000290613
28	ENSMUSG00000026984	Il1f6	152.0741249	7.248630892	0.000390825
29	ENSMUSG000000113673	AC127281.1	149.4842827	7.223849993	0.000390825
30	ENSMUSG00000042256	Ptchd4	144.8801189	7.178715826	0.000530405
31	ENSMUSG00000043740	B430306N03Rik	144.8801189	7.178715826	0.000530405
32	ENSMUSG000000102049	Zbed6	139.7723747	7.126935438	0.000726851
33	ENSMUSG00000066682	Pilrb2	137.686113	7.105239247	0.000726851
34	ENSMUSG000000110693	Gm45899	136.6789522	7.094647282	0.000726851
35	ENSMUSG000000113555	AC110377.1	130.1324067	7.02383647	0.001006409
36	ENSMUSG00000037716	Ccdc33	123.2981011	6.946006771	0.001408973
37	ENSMUSG000000105954	Gm42793	116.1040952	6.859275049	0.001408973
38	ENSMUSG000000100287	Gm28068	116.1040952	6.859275049	0.001408973
39	ENSMUSG00000043388	Tmem130	116.1040952	6.859275049	0.001408973
40	ENSMUSG000000105868	Gm43766	114.3775337	6.837659893	0.001996045
41	ENSMUSG00000060807	Serpina6	108.9100892	6.766993798	0.001996045
42	ENSMUSG00000099980	Gm5619	108.8381491	6.766040518	0.001996045
43	ENSMUSG000000105095	8430422M14Rik	108.8381491	6.766040518	0.001996045
44	ENSMUSG000000102610	Gm37846	101.7160833	6.668404005	0.002863891

45	ENSMUSG00000048416	Mlfl	101.7160833	6.668404005	0.002863891
46	ENSMUSG00000056987	Fam71d	101.7160833	6.668404005	0.002863891
47	ENSMUSG00000030898	Cckbr	101.7160833	6.668404005	0.002863891
48	ENSMUSG00000028718	Stil	101.7160833	6.668404005	0.002863891
49	ENSMUSG00000067455	Hist1h4j	95.9608785	6.58437446	0.004165659
50	ENSMUSG00000113303	AC124595.1	94.52207731	6.562579431	0.004165659
51	ENSMUSG00000021795	Sftpd	94.52207731	6.562579431	0.004165659
52	ENSMUSG00000067813	Xkr9	94.52207731	6.562579431	0.004165659
53	ENSMUSG00000036560	Lgi4	92.14805535	6.525881815	0.004165659
54	ENSMUSG00000089739	Gm20431	89.05463279	6.47661876	0.006149306
55	ENSMUSG00000097561	4632411P08Rik	87.32807136	6.448373574	0.006149306
56	ENSMUSG00000097373	Gm26877	87.32807136	6.448373574	0.006149306
57	ENSMUSG00000094817	Cphx3	87.32807136	6.448373574	0.006149306
58	ENSMUSG00000090104	Slmapos2	87.32807136	6.448373574	0.006149306
59	ENSMUSG00000086935	Gm15956	87.32807136	6.448373574	0.006149306
60	ENSMUSG00000045569	Mc2r	87.32807136	6.448373574	0.006149306
61	ENSMUSG00000043430	Psap11	87.32807136	6.448373574	0.006149306
62	ENSMUSG00000037224	Zfyve28	87.32807136	6.448373574	0.006149306
63	ENSMUSG00000025930	Msc	87.32807136	6.448373574	0.006149306
64	ENSMUSG00000022053	Ebf2	87.32807136	6.448373574	0.006149306
65	ENSMUSG0000002057	Foxn1	87.32807136	6.448373574	0.006149306
66	ENSMUSG00000028004	Npy2r	87.32807136	6.448373574	0.006149306
67	ENSMUSG00000094526	Gm21451	84.30658887	6.397573482	0.006149306
68	ENSMUSG00000056978	Hamp2	80.13406542	6.324343765	0.009223959
69	ENSMUSG00000050762	Prss27	80.13406542	6.324343765	0.009223959
70	ENSMUSG00000044303	Cdkn2a	80.13406542	6.324343765	0.009223959
71	ENSMUSG00000040205	Cuzd1	80.13406542	6.324343765	0.009223959
72	ENSMUSG00000037843	Vstm2l	80.13406542	6.324343765	0.009223959
73	ENSMUSG00000033470	Cysltr2	80.13406542	6.324343765	0.009223959
74	ENSMUSG00000029195	Klb	80.13406542	6.324343765	0.009223959
75	ENSMUSG00000099871	Gm21742	76.39318232	6.255371986	0.009223959
76	ENSMUSG00000078886	Gm2026	73.73140012	6.204207248	0.014078675
77	ENSMUSG00000079022	Col22a1	72.94005947	6.188639471	0.014078675
78	ENSMUSG00000086591	Dnah2os	72.94005947	6.188639471	0.014078675
79	ENSMUSG00000092373	Gm20535	72.94005947	6.188639471	0.014078675
80	ENSMUSG00000096446	Gm8104	72.94005947	6.188639471	0.014078675
81	ENSMUSG00000105134	Gm42923	72.94005947	6.188639471	0.014078675
82	ENSMUSG00000106383	E330034L11Rik	72.94005947	6.188639471	0.014078675
83	ENSMUSG00000074625	Arhgap40	72.94005947	6.188639471	0.014078675
84	ENSMUSG00000050982	Apol10a	72.94005947	6.188639471	0.014078675
85	ENSMUSG00000024306	Ccdc178	72.94005947	6.188639471	0.014078675
86	ENSMUSG00000039084	Chad	72.94005947	6.188639471	0.014078675
87	ENSMUSG00000044528	Tram11l	72.94005947	6.188639471	0.014078675
88	ENSMUSG00000107482	Gm45233	71.6451384	6.162796906	0.014078675
89	ENSMUSG00000109357	Gm45236	71.21349804	6.154078815	0.014078675
90	ENSMUSG00000083500	Gm15470	69.84663691	6.126118747	0.014078675
91	ENSMUSG00000078967	Gm3272	68.9833562	6.108176416	0.014078675
92	ENSMUSG00000026344	Lypd1	66.46545412	6.05453278	0.021900161
93	ENSMUSG00000071532	Gm10335	66.24963394	6.049840578	0.021900161

94	ENSMUSG00000094784	Gm8122	66.24963394	6.049840578	0.021900161
95	ENSMUSG00000113149	AC099934.3	66.03381376	6.045133066	0.021900161
96	ENSMUSG00000107071	Gm42420	65.74605352	6.038832393	0.021900161
97	ENSMUSG00000104529	Rbakdn	65.74605352	6.038832393	0.021900161
98	ENSMUSG00000099354	1700124L16Rik	65.74605352	6.038832393	0.021900161
99	ENSMUSG00000072675	Duxbl2	65.74605352	6.038832393	0.021900161
100	ENSMUSG00000097757	Gm17518	65.74605352	6.038832393	0.021900161
101	ENSMUSG00000024598	Fbn2	65.74605352	6.038832393	0.021900161
102	ENSMUSG00000035580	Kcnh8	65.74605352	6.038832393	0.021900161
103	ENSMUSG00000037922	Bank1	65.74605352	6.038832393	0.021900161
104	ENSMUSG00000044216	Kcnj4	65.74605352	6.038832393	0.021900161
105	ENSMUSG00000045083	Lingo2	65.74605352	6.038832393	0.021900161
106	ENSMUSG00000070323	Mmp27	65.74605352	6.038832393	0.021900161
107	ENSMUSG00000097797	Gm26901	65.74605352	6.038832393	0.021900161
108	ENSMUSG00000078122	F630028O10Rik	65.74605352	6.038832393	0.021900161
109	ENSMUSG00000089797	Gm16118	65.74605352	6.038832393	0.021900161
110	ENSMUSG00000032131	Abcg4	65.74605352	6.038832393	0.021900161
111	ENSMUSG00000090256	Alms1-ps1	63.37203156	5.985774361	0.021900161
112	ENSMUSG00000015854	Cd51	63.34781128	5.985222869	1.18E-07
113	ENSMUSG00000073403	Gm10499	62.72457103	5.970958794	0.021900161
114	ENSMUSG00000105058	Gm43590	62.72457103	5.970958794	0.021900161
115	ENSMUSG00000066952	Myo1h	61.06994966	5.932390751	0.021900161
116	ENSMUSG00000043483	Gm6863	60.56636924	5.920445024	0.021900161
117	ENSMUSG00000103865	Gm37416	60.20666894	5.911851394	0.034782609
118	ENSMUSG00000111824	AC161250.2	59.63114847	5.897994218	0.034782609
119	ENSMUSG00000074417	Gm14548	59.12756805	5.885759034	0.034782609
120	ENSMUSG00000113771	AC160108.1	58.55204758	5.871647718	0.034782609
121	ENSMUSG00000089900	Tbc1d22bos	58.55204758	5.871647718	0.034782609
122	ENSMUSG00000097766	5730420D15Rik	58.55204758	5.871647718	0.034782609
123	ENSMUSG00000001021	S100a3	58.55204758	5.871647718	0.034782609
124	ENSMUSG00000025467	Prap1	58.55204758	5.871647718	0.034782609
125	ENSMUSG00000026241	Nppc	58.55204758	5.871647718	0.034782609
126	ENSMUSG00000028217	Cdh17	58.55204758	5.871647718	0.034782609
127	ENSMUSG00000040649	Rimklb	58.55204758	5.871647718	0.034782609
128	ENSMUSG00000053214	Gm9899	58.55204758	5.871647718	0.034782609
129	ENSMUSG00000056222	Spock1	58.55204758	5.871647718	0.034782609
130	ENSMUSG00000053522	Lgals7	58.55204758	5.871647718	0.034782609
131	ENSMUSG00000060204	Gm5868	58.55204758	5.871647718	0.034782609
132	ENSMUSG00000061816	My11	58.55204758	5.871647718	0.034782609
133	ENSMUSG00000110613	Lncbatel	58.55204758	5.871647718	0.034782609
134	ENSMUSG00000091956	C2cd4b	58.55204758	5.871647718	0.034782609
135	ENSMUSG00000044206	Vsig4	58.55204758	5.871647718	0.034782609
136	ENSMUSG00000091754	Gm3636	58.55204758	5.871647718	0.034782609
137	ENSMUSG00000096024	Gm17174	58.55204758	5.871647718	0.034782609
138	ENSMUSG00000097088	Gm26615	58.55204758	5.871647718	0.034782609
139	ENSMUSG00000100454	Gm28901	58.3362274	5.866320185	0.034782609
140	ENSMUSG00000067017	Gm3608	57.32906657	5.841194884	0.034782609
141	ENSMUSG00000066878	Gm10184	56.82548615	5.828466216	0.034782609
142	ENSMUSG00000097610	A930012L18Rik	55.89026538	5.80452512	0.034782609

143	ENSMUSG00000045114	Prrt2	55.6744452	5.798943371	0.034782609
144	ENSMUSG00000047443	Erfe	55.24280484	5.787714666	0.034782609
145	ENSMUSG00000104563	Gm43041	53.80400365	5.749641625	0.034782609
146	ENSMUSG00000073830	Mup14	45.03929861	5.493112456	0.014078675
147	ENSMUSG00000035775	Krt20	33.79041448	5.078542142	8.54E-10
148	ENSMUSG00000081855	Rpl17-ps5	31.01489121	4.954889159	0.014078675
149	ENSMUSG00000069862	Rps12-ps9	30.75867919	4.942921648	0.003042849
150	ENSMUSG00000061100	Retnla	30.71621794	4.940928684	1.27E-07
151	ENSMUSG00000026405	C4bp	29.56768019	4.885949152	3.89E-05
152	ENSMUSG00000058427	Cxcl2	29.17846728	4.866832196	5.95E-06
153	ENSMUSG00000062593	Lilrb4a	28.2483118	4.820092746	0.000488131
154	ENSMUSG00000021208	Ifi2712b	26.90891759	4.750012455	1.06E-05
155	ENSMUSG00000030495	Slc7a10	22.26542206	4.476733055	0.000243817
156	ENSMUSG00000110439	Gm21320	21.99548333	4.459135398	5.95E-06
157	ENSMUSG00000109129	Gm44973	21.82148559	4.447677417	0.000797167
158	ENSMUSG00000040405	Havcr1	21.6714209	4.437721843	7.17E-09
159	ENSMUSG00000036110	Slc17a2	21.66169206	4.437074036	0.000305695
160	ENSMUSG00000068699	Flnc	19.2475083	4.266599788	1.35E-07
161	ENSMUSG00000053166	Cdh22	18.78678729	4.231646469	0.000621965
162	ENSMUSG00000030708	Dnajb13	18.06806109	4.175369792	0.000797167
163	ENSMUSG00000069830	Nlrp1a	17.3493349	4.116808452	0.001028032
164	ENSMUSG00000063133	Klk1b1	17.3493349	4.116808452	0.001028032
165	ENSMUSG00000025420	Katnal2	17.3493349	4.116808452	0.001028032
166	ENSMUSG00000020808	Fam64a	17.3493349	4.116808452	0.001028032
167	ENSMUSG00000016349	Eef1a2	17.3493349	4.116808452	0.001028032
168	ENSMUSG00000090713	Gm8127	17.18515066	4.103090594	2.70E-07
169	ENSMUSG00000040809	Chil3	16.74345654	4.065525485	3.67E-06
170	ENSMUSG00000041309	Nkx6-2	16.6163321	4.05453005	0.000291391
171	ENSMUSG00000039521	Foxp3	16.59071614	4.052304256	0.000797167
172	ENSMUSG00000039252	Lgi2	16.205935	4.018450354	6.77E-05
173	ENSMUSG00000074677	Sirpb1c	15.83351512	3.984909672	0.00013422
174	ENSMUSG00000034394	Lif	15.7668998	3.97882711	1.13E-06
175	ENSMUSG00000010435	Spaca7	15.56116916	3.959878554	0.000160239
176	ENSMUSG00000067786	Nnat	15.27880322	3.933459638	7.96E-07
177	ENSMUSG00000034706	Dnaic2	15.19315632	3.92534971	0.002294842
178	ENSMUSG00000030376	Slc8a2	15.18291088	3.924376507	0.000191901
179	ENSMUSG00000054013	Tmem179	14.47443013	3.855434644	0.003042849
180	ENSMUSG00000024912	Fosl1	14.28846959	3.836779495	5.06E-06
181	ENSMUSG00000029380	Cxcl1	13.90053001	3.797067988	7.76E-07
182	ENSMUSG00000028965	Tnfrsf9	13.66987776	3.772928437	0.000408153
183	ENSMUSG00000026981	Il1rn	13.61390873	3.767009438	3.56E-05
184	ENSMUSG00000043843	Tmem145	13.29161948	3.732444991	0.000408153
185	ENSMUSG00000107499	Ccdc142	13.22675076	3.725386792	0.002294842
186	ENSMUSG00000035385	Ccl2	13.07992967	3.709282878	1.07E-06
187	ENSMUSG00000085184	4933439K11Rik	13.03697774	3.704537554	0.005479339
188	ENSMUSG00000040026	Saa3	13.03697774	3.704537554	0.005479339
189	ENSMUSG00000035683	Melk	13.03697774	3.704537554	0.005479339
190	ENSMUSG00000052353	Cemip	12.53510292	3.647901936	0.000608346
191	ENSMUSG00000021250	Fos	12.32777721	3.623840789	8.17E-07

192	ENSMUSG00000046203	Spr2g	12.31825154	3.622725589	0.007447428
193	ENSMUSG00000032291	Crabp1	12.3008005	3.6206803	4.15E-05
194	ENSMUSG00000072596	Ear2	11.84253243	3.565905717	0.000622182
195	ENSMUSG00000015852	Ferls	11.82729976	3.56404883	2.16E-05
196	ENSMUSG00000026989	Dap1l	11.59952535	3.535993867	0.010215054
197	ENSMUSG00000026009	Icos	11.59952535	3.535993867	0.010215054
198	ENSMUSG00000090942	F830016B08Rik	11.59952535	3.535993867	0.010215054
199	ENSMUSG00000035811	Ugt2b35	11.58586169	3.534293442	0.000622182
200	ENSMUSG00000025582	Nptx1	11.40032807	3.511003437	0.001141053
201	ENSMUSG00000022780	Melft	11.07252021	3.468911726	0.000851461
202	ENSMUSG00000016942	Tmprss6	10.90419093	3.446810824	0.000382127
203	ENSMUSG00000032269	Htr3a	10.88793584	3.444658565	2.21E-05
204	ENSMUSG00000091412	Gm2895	10.88079916	3.443712616	0.010215054
205	ENSMUSG00000029072	Tas1r3	10.88079916	3.443712616	0.010215054
206	ENSMUSG00000009356	Lpo	10.78632976	3.431132141	1.03E-05
207	ENSMUSG00000032816	Igdcc4	10.64381151	3.411942962	0.001774106
208	ENSMUSG00000027322	Siglec1	10.5749988	3.402585594	1.91E-05
209	ENSMUSG00000092595	Gm20427	10.39344574	3.377602126	0.000499278
210	ENSMUSG00000026358	Rgs1	10.17680277	3.347212478	0.000291475
211	ENSMUSG00000024803	Ankrd1	10.16273287	3.345216505	5.55E-06
212	ENSMUSG00000110696	Gm45706	10.16207296	3.345122823	0.014145884
213	ENSMUSG00000109036	2210406H18Rik	10.16207296	3.345122823	0.014145884
214	ENSMUSG00000039114	Nrn1	10.16207296	3.345122823	0.014145884
215	ENSMUSG00000046338	Gpat2	10.16207296	3.345122823	0.014145884
216	ENSMUSG00000040229	Gpr34	10.16207296	3.345122823	0.014145884
217	ENSMUSG00000030592	Ryr1	10.16207296	3.345122823	0.014145884
218	ENSMUSG00000014602	Kif1a	10.12180789	3.339395092	0.000101616
219	ENSMUSG00000102543	Pcdhgc5	9.807864299	3.293939018	0.019786881
220	ENSMUSG00000023034	Nr4a1	9.764797239	3.287590088	5.43E-06
221	ENSMUSG00000092412	Gm20507	9.681156949	3.275179467	0.002811985
222	ENSMUSG00000106943	Dancr	9.575721265	3.259381158	0.009774911
223	ENSMUSG00000025789	St8sia2	9.532495775	3.252853986	0.002316369
224	ENSMUSG00000086536	Gm12264	9.450534033	3.240395856	0.019786881
225	ENSMUSG00000032033	Barx2	9.443346771	3.239298249	0.019786881
226	ENSMUSG00000048498	Cd300e	9.443346771	3.239298249	0.019786881
227	ENSMUSG00000053783	1700016K19Rik	9.443346771	3.239298249	0.019786881
228	ENSMUSG00000005355	Casp14	9.350306463	3.225013651	0.001005195
229	ENSMUSG00000038670	Mybpc2	9.223479094	3.205311037	0.000192859
230	ENSMUSG00000079808	AC168977.1	9.216049306	3.204148435	0.019786881
231	ENSMUSG00000038418	Egr1	9.152115071	3.194105192	7.79E-06
232	ENSMUSG00000066513	Klk1b4	9.13456097	3.191335391	0.003567541
233	ENSMUSG00000076709	Ighv1-47	9.130778387	3.190737853	0.003567541
234	ENSMUSG00000074220	Zfp382	9.130778387	3.190737853	0.003567541
235	ENSMUSG00000064125	Prr36	9.028223982	3.174442211	0.019786881
236	ENSMUSG00000035352	Ccl12	8.886605797	3.151632493	0.000257011
237	ENSMUSG00000051435	Fhad1	8.752520106	3.129698471	0.004550577
238	ENSMUSG00000043456	Zfp536	8.724620577	3.125092392	0.027969425
239	ENSMUSG00000089997	1810020O05Rik	8.724620577	3.125092392	0.027969425
240	ENSMUSG00000030865	Chp2	8.724620577	3.125092392	0.027969425

241	ENSMUSG00000024076	Vit	8.724620577	3.125092392	0.027969425
242	ENSMUSG00000022824	Muc13	8.724620577	3.125092392	0.027969425
243	ENSMUSG00000029419	Gm996	8.724620577	3.125092392	0.027969425
244	ENSMUSG00000002020	Ltbp2	8.628105183	3.109043764	3.53E-05
245	ENSMUSG00000049649	Gpr3	8.374261825	3.065962025	0.005837072
246	ENSMUSG00000025044	Msr1	8.249142078	3.044244085	0.004771142
247	ENSMUSG00000090440	Gm9732	8.223598301	3.039769795	9.26E-05
248	ENSMUSG00000021922	Itih4	8.18489311	3.032963576	0.002125618
249	ENSMUSG00000000567	Sox9	8.184704764	3.032930377	9.76E-05
250	ENSMUSG00000110575	6330537M06Rik	8.005894384	3.001062583	0.039970491
251	ENSMUSG00000084885	3010001F23Rik	8.005894384	3.001062583	0.039970491
252	ENSMUSG00000058626	Capn11	8.005894384	3.001062583	0.039970491
253	ENSMUSG00000053054	Adh6a	8.005894384	3.001062583	0.039970491
254	ENSMUSG00000046006	Gapt	8.005894384	3.001062583	0.039970491
255	ENSMUSG00000022431	Ribc2	8.005894384	3.001062583	0.039970491
256	ENSMUSG00000005800	Mmp8	8.005894384	3.001062583	0.039970491
257	ENSMUSG00000031872	Bean1	8.005894384	3.001062583	0.039970491
258	ENSMUSG00000026204	Ptpn	7.996003544	2.999279112	0.00753089
259	ENSMUSG00000059900	Tmem40	7.996003544	2.999279112	0.00753089
260	ENSMUSG00000046179	E2f8	7.992471338	2.998641665	0.005759502
261	ENSMUSG00000005124	Wisp1	7.987874818	2.997811724	0.000367677
262	ENSMUSG00000037868	Egr2	7.763694807	2.956743406	0.000639659
263	ENSMUSG00000045502	Hcar2	7.735800599	2.951550608	0.006974917
264	ENSMUSG00000031362	Xlr4c	7.69684212	2.944266655	0.039970491
265	ENSMUSG00000035914	Cd276	7.671414794	2.93949267	0.00029335
266	ENSMUSG00000076436	Oxct2a	7.668093073	2.938867848	0.039970491
267	ENSMUSG00000029212	Gabrb1	7.617745263	2.929364045	0.009774911
268	ENSMUSG00000037379	Spon2	7.617745263	2.929364045	0.009774911
269	ENSMUSG00000097272	Gm26649	7.443374602	2.895956844	0.001080015
270	ENSMUSG00000001131	Timp1	7.434494059	2.894234566	0.000373606
271	ENSMUSG00000028782	Adgrb2	7.407950875	2.889074531	0.004025529
272	ENSMUSG00000021256	Vash1	7.239486983	2.855887466	0.012766938
273	ENSMUSG00000039518	Cdsn	7.204812696	2.848960925	0.001623044
274	ENSMUSG00000019102	Aldh3a1	7.200300471	2.848057112	0.000720674
275	ENSMUSG00000027995	Tlr2	7.188373723	2.845665416	7.78E-05
276	ENSMUSG00000026822	Lcn2	7.174843367	2.842947337	5.53E-05
277	ENSMUSG00000003545	Fosb	7.108800215	2.82960609	0.000265115
278	ENSMUSG00000053687	Dpep2	7.019479757	2.81136411	0.005619692
279	ENSMUSG00000061780	Cfd	6.99022039	2.805337942	6.01E-05
280	ENSMUSG00000112241	Sumo3	6.980639196	2.803359146	0.001948681
281	ENSMUSG00000022696	Sidt1	6.965788381	2.800286645	0.0126381
282	ENSMUSG00000062760	1810041L15Rik	6.865366016	2.779336637	0.001378134
283	ENSMUSG00000042254	Cilp	6.861228702	2.778466956	0.016782554
284	ENSMUSG00000059108	Ifitm6	6.861228702	2.778466956	0.016782554
285	ENSMUSG00000106870	Gm43681	6.861228702	2.778466956	0.016782554
286	ENSMUSG00000112388	AC163033.2	6.861228702	2.778466956	0.016782554
287	ENSMUSG00000059974	Ntm	6.806513298	2.766915953	0.001080015
288	ENSMUSG00000044405	Adig	6.70781709	2.74584335	0.000603732
289	ENSMUSG00000035373	Ccl7	6.644758275	2.732216718	0.000799282

290	ENSMUSG00000032915	Adgre4	6.631008639	2.729228335	0.006664909
291	ENSMUSG00000110332	Gm45396	6.631008639	2.729228335	0.006664909
292	ENSMUSG00000103309	BC037039	6.613339579	2.725378982	0.039696281
293	ENSMUSG00000016493	Cd46	6.587388983	2.719706743	0.002612268
294	ENSMUSG00000027398	Il1b	6.549784978	2.711447545	0.001011115
295	ENSMUSG00000078640	Gm11627	6.482970421	2.69665499	0.022208097
296	ENSMUSG00000060188	Cxcl17	6.482970421	2.69665499	0.022208097
297	ENSMUSG00000030142	Clec4e	6.482970421	2.69665499	0.022208097
298	ENSMUSG00000025576	Rbfox3	6.482970421	2.69665499	0.022208097
299	ENSMUSG00000033342	Plppr5	6.482970421	2.69665499	0.022208097
300	ENSMUSG00000113975	AC102435.3	6.452446902	2.689846364	0.015514096
301	ENSMUSG00000074203	G430095P16Rik	6.452446902	2.689846364	0.015514096
302	ENSMUSG00000002831	Plin4	6.299599182	2.655260039	0.000177904
303	ENSMUSG00000026628	Atf3	6.287255149	2.652430312	0.000182527
304	ENSMUSG00000095497	Igkv1-122	6.195776162	2.631285024	0.019112419
305	ENSMUSG00000034686	Prr7	6.195776162	2.631285024	0.019112419
306	ENSMUSG00000110051	Gm45322	6.170823298	2.625462984	0.003560686
307	ENSMUSG00000015947	Fcgr1	6.168926966	2.625019566	0.000272634
308	ENSMUSG00000097231	Gm26852	6.10471214	2.609923268	0.029588432
309	ENSMUSG00000060780	Lrrtm1	6.10471214	2.609923268	0.029588432
310	ENSMUSG00000060183	Cxcl11	6.10471214	2.609923268	0.029588432
311	ENSMUSG00000030144	Clec4d	6.10471214	2.609923268	0.029588432
312	ENSMUSG00000089783	Gm454	6.10471214	2.609923268	0.029588432
313	ENSMUSG00000075266	Cenpw	6.015748874	2.588744343	0.004639651
314	ENSMUSG00000108199	Gm44249	5.949626245	2.572799041	0.029588432
315	ENSMUSG00000033006	Sox10	5.939105423	2.570245642	0.023630413
316	ENSMUSG00000022454	Nell2	5.939105423	2.570245642	0.023630413
317	ENSMUSG00000026414	Tnnt2	5.939105423	2.570245642	0.023630413
318	ENSMUSG00000091131	Gm7945	5.922853994	2.566292522	0.029588432
319	ENSMUSG00000106867	Gm43800	5.863778182	2.551830529	0.013538161
320	ENSMUSG00000032661	Oas3	5.862995575	2.551637968	0.000685273
321	ENSMUSG00000055782	Abcd2	5.802304276	2.536625953	0.008737165
322	ENSMUSG00000046245	Pilra	5.74895943	2.52330085	0.005195924
323	ENSMUSG00000051682	Trem14	5.742455026	2.521667653	0.004033073
324	ENSMUSG00000075027	4631405J19Rik	5.726453859	2.517642018	0.029588432
325	ENSMUSG00000026809	Spaca9	5.726453859	2.517642018	0.029588432
326	ENSMUSG00000020169	Best3	5.726453859	2.517642018	0.029588432
327	ENSMUSG00000093910	Zfp853	5.726453859	2.517642018	0.029588432
328	ENSMUSG00000038508	Gdf15	5.687945314	2.507907595	0.000294067
329	ENSMUSG00000010021	Kif19a	5.682434684	2.506509196	0.029323086
330	ENSMUSG00000020312	Shc2	5.682434684	2.506509196	0.029323086
331	ENSMUSG00000049758	Olfir1318	5.682434684	2.506509196	0.029323086
332	ENSMUSG00000022548	Apod	5.664620531	2.501979314	0.000807476
333	ENSMUSG00000069607	Cd300ld3	5.64207604	2.49622611	0.00293642
334	ENSMUSG00000022033	Pbk	5.636816448	2.49488059	0.006131112
335	ENSMUSG00000028195	Cyr61	5.578039225	2.47975808	0.000331674
336	ENSMUSG00000042436	Mfap4	5.568382516	2.477258319	0.000967177
337	ENSMUSG00000028885	Smpdl3b	5.517152268	2.463923798	0.000923639
338	ENSMUSG00000027469	Tpx2	5.513073242	2.462856768	0.001351709

339	ENSMUSG00000091733	Gm8094	5.478862562	2.453876414	0.00205304
340	ENSMUSG00000106566	Gm43836	5.433845041	2.441973424	0.005195924
341	ENSMUSG00000033576	Apol6	5.42885003	2.440646631	0.002402525
342	ENSMUSG00000025932	Eya1	5.425763944	2.439826282	0.036520717
343	ENSMUSG00000049128	Ivl	5.425763944	2.439826282	0.036520717
344	ENSMUSG00000053113	Socs3	5.385950858	2.429201067	0.000616478
345	ENSMUSG00000086539	Gm16759	5.374417161	2.426108307	0.002706795
346	ENSMUSG00000034227	Foxj1	5.370321866	2.425008558	0.000864021
347	ENSMUSG00000014599	Csfl	5.366319321	2.423932904	0.000453094
348	ENSMUSG00000031489	Adrb3	5.36488054	2.423546047	0.001006817
349	ENSMUSG00000017943	Gdap1l1	5.348195578	2.419052224	0.039696281
350	ENSMUSG00000072944	Nup62cl	5.348195578	2.419052224	0.039696281
351	ENSMUSG00000095682	Igkv3-1	5.348195578	2.419052224	0.039696281
352	ENSMUSG00000040528	Milr1	5.329811398	2.414084482	0.004509703
353	ENSMUSG00000057346	Apol9a	5.315056601	2.410085055	0.000690125
354	ENSMUSG00000095379	Gm22108	5.282943603	2.401342009	0.003989127
355	ENSMUSG00000091243	Vgll3	5.24614045	2.391256432	0.003038621
356	ENSMUSG00000084350	Znf41-ps	5.193876664	2.376811756	0.015514096
357	ENSMUSG00000004791	Pgf	5.180999532	2.373230453	0.007680727
358	ENSMUSG00000038968	Klk1b16	5.17737592	2.372221073	0.014225315
359	ENSMUSG00000074771	Ankef1	5.169093205	2.369911216	0.045651874
360	ENSMUSG00000006143	Upk3bl	5.169093205	2.369911216	0.045651874
361	ENSMUSG00000020354	Sgcd	5.169093205	2.369911216	0.045651874
362	ENSMUSG00000013974	Mcemp1	5.169093205	2.369911216	0.045651874
363	ENSMUSG00000045087	S1pr5	5.169093205	2.369911216	0.045651874
364	ENSMUSG00000032419	Tbx18	5.077124168	2.344011544	0.028743676
365	ENSMUSG00000054418	2900041M22Rik	5.077124168	2.344011544	0.028743676
366	ENSMUSG00000087050	Dhrs13os	5.067056246	2.341147843	0.029323086
367	ENSMUSG00000029093	Sores2	5.040601449	2.333595888	0.005139673
368	ENSMUSG00000007783	Cpt1c	4.996844086	2.321017203	0.001788412
369	ENSMUSG00000034040	Wbscr17	4.983484678	2.317154893	0.012692048
370	ENSMUSG00000054200	Ffar4	4.983484678	2.317154893	0.012692048
371	ENSMUSG00000079017	Ifi2712a	4.966103081	2.312114208	0.000797623
372	ENSMUSG00000022878	Adipoq	4.962866372	2.31117361	0.000875122
373	ENSMUSG00000017716	Birc5	4.907339551	2.294941098	0.004862976
374	ENSMUSG00000008845	Cd163	4.88288861	2.287734867	0.028743676
375	ENSMUSG00000044595	Dnd1	4.864911742	2.282413632	0.01990983
376	ENSMUSG00000036377	C530008M17Rik	4.852818324	2.278822851	0.014760757
377	ENSMUSG00000039385	Cdh6	4.816005088	2.267836916	0.003817017
378	ENSMUSG00000030278	Cidec	4.801852417	2.263591064	0.001088583
379	ENSMUSG00000035186	Ubd	4.780323833	2.257108354	0.001230213
380	ENSMUSG00000027559	Car3	4.767846192	2.253337696	0.001020449
381	ENSMUSG00000037188	Grhl3	4.758914904	2.250632657	0.005361479
382	ENSMUSG00000024164	C3	4.757892831	2.250322776	0.001007968
383	ENSMUSG00000028068	Iqgap3	4.747023187	2.247023097	0.005988588
384	ENSMUSG00000054999	Naaladl1	4.739130638	2.244622431	0.009323198
385	ENSMUSG00000063919	Srrm4	4.731835136	2.242399809	0.011508026
386	ENSMUSG00000036144	Meox2	4.72215197	2.239444472	0.017198877
387	ENSMUSG00000031098	Syt8	4.72215197	2.239444472	0.017198877

388	ENSMUSG00000023992	Trem2	4.715328556	2.237358299	0.004072786
389	ENSMUSG00000043648	Pld6	4.688653051	2.229173527	0.034945041
390	ENSMUSG00000040663	Clefl	4.68737563	2.228780412	0.001534783
391	ENSMUSG00000004730	Adgre1	4.679935471	2.226488637	0.001842625
392	ENSMUSG00000048583	Igf2	4.656301323	2.219184422	0.001623133
393	ENSMUSG00000068246	Apol9b	4.628716656	2.210612252	0.001591081
394	ENSMUSG00000096372	Gm8138	4.604443009	2.203026647	0.002643499
395	ENSMUSG00000025498	Irf7	4.558713731	2.188626817	0.001375362
396	ENSMUSG00000030109	Slc6a12	4.552635901	2.186702084	0.001941465
397	ENSMUSG00000110475	Gm45813	4.552447564	2.1866424	0.028123146
398	ENSMUSG00000049988	Lrrc25	4.547328667	2.185019282	0.004277524
399	ENSMUSG00000030137	Tuba8	4.520392467	2.176448035	0.003590717
400	ENSMUSG00000046223	Plaur	4.502972514	2.170877672	0.001669449
401	ENSMUSG00000006403	Adamts4	4.494417492	2.168134144	0.042605988
402	ENSMUSG00000051439	Cd14	4.492448168	2.167501859	0.00178582
403	ENSMUSG00000030074	Gxylt2	4.484003927	2.164787542	0.003427018
404	ENSMUSG00000076617	Ighm	4.466022398	2.158990487	0.0016816
405	ENSMUSG00000104713	Gbp6	4.465314958	2.158761938	0.001723527
406	ENSMUSG00000015843	Rxrg	4.454398937	2.155230772	0.007513782
407	ENSMUSG00000058922	Gm10052	4.443361205	2.151651424	0.045651874
408	ENSMUSG00000055254	Ntrk2	4.440678005	2.150779965	0.003161683
409	ENSMUSG00000061576	Dpp6	4.43349808	2.148445451	0.009186799
410	ENSMUSG00000090171	Ugt1a2	4.397075907	2.136544438	0.001734736
411	ENSMUSG00000061947	Serpina10	4.396897951	2.136486049	0.00232917
412	ENSMUSG00000000031	H19	4.396215474	2.1362621	0.033540426
413	ENSMUSG00000085395	Gm13056	4.394961839	2.135850639	0.017485384
414	ENSMUSG00000003863	Ppfia3	4.394258587	2.13561977	0.011034893
415	ENSMUSG00000032226	Gcnt3	4.392743908	2.135122394	0.004516262
416	ENSMUSG00000000628	Hk2	4.377340132	2.13005449	0.00398525
417	ENSMUSG00000026826	Nr4a2	4.33259255	2.115230568	0.00892791
418	ENSMUSG00000022949	Clic6	4.330152908	2.114417971	0.023482955
419	ENSMUSG00000074183	Gsta1	4.316779952	2.109955553	0.002410176
420	ENSMUSG00000040836	Gpr161	4.308491833	2.107182949	0.008511695
421	ENSMUSG00000045312	Lhfp12	4.308464077	2.107173655	0.002359212
422	ENSMUSG00000052776	Oas1a	4.305032677	2.106024188	0.002364808
423	ENSMUSG00000068744	Psrc1	4.292390368	2.101781287	0.00270749
424	ENSMUSG00000018930	Ccl4	4.28267074	2.098510764	0.020165681
425	ENSMUSG00000078922	Tgtp1	4.279952054	2.097594635	0.002147315
426	ENSMUSG00000020423	Btg2	4.261385238	2.09132248	0.00217928
427	ENSMUSG00000057135	Scimp	4.250076744	2.087488892	0.013408159
428	ENSMUSG00000074874	Ctla2b	4.246896672	2.086409008	0.015527944
429	ENSMUSG00000075020	Mir670hg	4.239983385	2.084058612	0.040093587
430	ENSMUSG00000030148	Clec4a2	4.219703384	2.077141591	0.007830826
431	ENSMUSG00000033491	Prss35	4.201082587	2.070761147	0.004123273
432	ENSMUSG00000019359	Gdpd2	4.199486554	2.070212949	0.027518336
433	ENSMUSG00000019942	Cdk1	4.165893522	2.058625965	0.006916237
434	ENSMUSG00000025488	Cox8b	4.14225638	2.05041685	0.008313624
435	ENSMUSG00000038037	Socs1	4.129053696	2.04581118	0.009541561
436	ENSMUSG00000038587	Akap12	4.08964688	2.031976279	0.002853775

437	ENSMUSG00000054659	Pm20d2	4.083751296	2.029895008	0.048036813
438	ENSMUSG00000078612	1700024P16Rik	4.071015832	2.025388832	0.009101284
439	ENSMUSG00000025017	Pik3ap1	4.066427648	2.023761945	0.008715184
440	ENSMUSG00000037887	Dusp8	4.064505837	2.02307996	0.003735114
441	ENSMUSG00000049892	Rasd1	4.059446999	2.021283209	0.003382714
442	ENSMUSG00000028341	Nr4a3	4.043692506	2.015673295	0.01786172
443	ENSMUSG00000030546	Plin1	4.034867548	2.012521315	0.003627172
444	ENSMUSG00000038943	Prc1	4.023350699	2.008397497	0.012434184
445	ENSMUSG00000056529	Ptafr	4.021453315	2.007716972	0.009818818
446	ENSMUSG00000052837	Junb	3.989123707	1.996071864	0.003301813
447	ENSMUSG00000039323	Igfbp2	3.985741535	1.994848158	0.003718159
448	ENSMUSG00000037411	Serpine1	3.985122882	1.994624211	0.003875577
449	ENSMUSG00000043687	1190005I06Rik	3.983928158	1.994191632	0.02695136
450	ENSMUSG00000050359	Sprr1a	3.975752386	1.991227907	0.003611841
451	ENSMUSG00000031129	Slc9a9	3.968968731	1.988764196	0.012942608
452	ENSMUSG00000079620	Muc4	3.966687932	1.987934902	0.006910632
453	ENSMUSG00000054855	Rnd1	3.965004913	1.987322653	0.005646964
454	ENSMUSG00000022893	Adamts1	3.963538953	1.986789155	0.003618176
455	ENSMUSG00000037613	Tnfrsf23	3.962635218	1.986460166	0.007545453
456	ENSMUSG00000027961	Lrrc39	3.958938911	1.985113806	0.0447917
457	ENSMUSG00000026177	Slc11a1	3.947758815	1.981033852	0.005524764
458	ENSMUSG00000041202	Pla2g2d	3.945797443	1.980316898	0.031232938
459	ENSMUSG00000029561	Oasl2	3.941918387	1.978897907	0.003815073
460	ENSMUSG00000033219	Gm9758	3.929081528	1.974192104	0.048036813
461	ENSMUSG00000024670	Cd6	3.922328281	1.971710287	0.011444498
462	ENSMUSG00000069516	Lyz2	3.908466959	1.966602842	0.003735912
463	ENSMUSG00000026536	Ifi211	3.8997618	1.963386006	0.007082305
464	ENSMUSG00000026387	Sctr	3.899149623	1.963159517	0.01821108
465	ENSMUSG00000076431	Sox4	3.895087599	1.961655774	0.004879494
466	ENSMUSG00000046718	Bst2	3.88954833	1.959602634	0.00386915
467	ENSMUSG00000023905	Tnfrsf12a	3.877660339	1.955186437	0.004038007
468	ENSMUSG00000026831	1700007K13Rik	3.872765763	1.953364245	0.0123646
469	ENSMUSG00000074179	Gm10639	3.869162491	1.952021318	0.004874851
470	ENSMUSG00000079277	Hoxd3	3.865822277	1.950775314	0.01665597
471	ENSMUSG00000031722	Hp	3.86476303	1.950379957	0.005119627
472	ENSMUSG00000034641	Cd300ld	3.856877201	1.947433213	0.011689357
473	ENSMUSG00000022864	D16Ert472e	3.853109498	1.946023185	0.026429163
474	ENSMUSG00000078606	Gm4070	3.840331479	1.941230843	0.007983976
475	ENSMUSG00000069515	Lyz1	3.833217678	1.938555927	0.020070275
476	ENSMUSG00000078664	Sprr2a1	3.829746416	1.937248868	0.025952006
477	ENSMUSG00000074934	Grem1	3.829220453	1.93705072	0.022308897
478	ENSMUSG00000029659	Medag	3.826881348	1.936169171	0.00878727
479	ENSMUSG00000029484	Anxa3	3.816946972	1.932419144	0.004553438
480	ENSMUSG00000053560	Ier2	3.810752742	1.930076003	0.00463061
481	ENSMUSG00000079293	Clec7a	3.78848671	1.921621687	0.009559448
482	ENSMUSG00000034266	Batf	3.78446381	1.920088911	0.018255132
483	ENSMUSG00000029816	GpnmB	3.781854454	1.919093842	0.010228883
484	ENSMUSG00000022766	Serpind1	3.780767946	1.918679303	0.022886106
485	ENSMUSG00000021950	Anxa8	3.770830982	1.914882487	0.010880164

486	ENSMUSG00000046056	Sbsn	3.759554597	1.910561753	0.010576641
487	ENSMUSG00000030510	Cers3	3.754662705	1.908683311	0.030291249
488	ENSMUSG00000015090	Ptgds	3.752683192	1.907922501	0.005226683
489	ENSMUSG00000097518	Gm26694	3.746676414	1.905611383	0.025121452
490	ENSMUSG00000040710	St8sia4	3.73976574	1.902947902	0.013550642
491	ENSMUSG00000001943	Vsig2	3.724888954	1.897197417	0.01063373
492	ENSMUSG00000025473	Adam8	3.724078212	1.896883372	0.015638697
493	ENSMUSG00000029875	Ccdc184	3.721215246	1.895773842	0.036252813
494	ENSMUSG00000044320	1700001O22Rik	3.721215246	1.895773842	0.036252813
495	ENSMUSG00000013338	Fer1l4	3.701353787	1.88805304	0.024430933
496	ENSMUSG00000020469	Myl7	3.701353787	1.88805304	0.024430933
497	ENSMUSG00000046794	Ppp1r3b	3.701353787	1.88805304	0.024430933
498	ENSMUSG00000025650	Col7a1	3.675149686	1.877803011	0.027504091
499	ENSMUSG00000022887	Masp1	3.671551957	1.876390016	0.007159032
500	ENSMUSG00000012519	Mlkl	3.667178828	1.87467062	0.012925512
501	ENSMUSG00000066861	Oasl1g	3.661350502	1.87237589	0.008445656
502	ENSMUSG00000040726	Hesx1	3.656215912	1.870351269	0.034765337
503	ENSMUSG00000089945	Pakap	3.651234901	1.868384487	0.006642872
504	ENSMUSG00000036931	Nfkbid	3.643762297	1.865428847	0.025517314
505	ENSMUSG00000043122	A530016L24Rik	3.643395087	1.865283448	0.011376879
506	ENSMUSG00000039377	Hlx	3.643267302	1.865232848	0.008222764
507	ENSMUSG00000009185	Ccl8	3.62434509	1.857720327	0.00946403
508	ENSMUSG00000041827	Oasl1	3.616646344	1.85465253	0.007642577
509	ENSMUSG00000022952	Runx1	3.595621557	1.846241184	0.009792316
510	ENSMUSG00000038963	Slco4a1	3.591453829	1.844567969	0.006638098
511	ENSMUSG00000033355	Rtp4	3.591313286	1.844511511	0.007316031
512	ENSMUSG00000039109	F13a1	3.569489896	1.835717918	0.029826037
513	ENSMUSG00000040412	5330417C22Rik	3.569489896	1.835717918	0.029826037
514	ENSMUSG00000022947	Cbr3	3.562910332	1.833056176	0.009491049
515	ENSMUSG00000059430	Actg2	3.56071013	1.832164994	0.017248349
516	ENSMUSG00000026196	Bard1	3.557769118	1.83097289	0.03995467
517	ENSMUSG00000038352	Arl5c	3.557769118	1.83097289	0.03995467
518	ENSMUSG00000061527	Krt5	3.551402029	1.828388687	0.009426386
519	ENSMUSG00000017830	Dhx58	3.55069957	1.828103297	0.010375987
520	ENSMUSG00000013707	Tnfaip8l2	3.538000534	1.822934266	0.012009678
521	ENSMUSG00000024521	Pmaip1	3.537347661	1.822668018	0.007979157
522	ENSMUSG00000034765	Dusp5	3.537322394	1.822657713	0.010322954
523	ENSMUSG00000085328	Gm17131	3.533706436	1.821182192	0.043422342
524	ENSMUSG00000027514	Zbp1	3.522320756	1.816526292	0.008656669
525	ENSMUSG00000029304	Spp1	3.518637672	1.815016962	0.007045549
526	ENSMUSG00000035429	Ptprh	3.517843385	1.814691255	0.033490202
527	ENSMUSG00000030745	Il21r	3.4995347	1.807163113	0.019628363
528	ENSMUSG00000030641	Ddias	3.496633048	1.805966401	0.049075768
529	ENSMUSG00000058589	Anks1b	3.496633048	1.805966401	0.049075768
530	ENSMUSG00000097347	Gm17275	3.492653548	1.804323542	0.029156965
531	ENSMUSG00000068606	Gm4841	3.485062206	1.801184408	0.019584933
532	ENSMUSG00000020303	Ste2	3.475214011	1.797101825	0.008866149
533	ENSMUSG00000049723	Mmp12	3.473857525	1.796538585	0.029156965
534	ENSMUSG00000032332	Col12a1	3.472706071	1.796060307	0.008874548

535	ENSMUSG00000018927	Ccl6	3.470854396	1.795290845	0.01019007
536	ENSMUSG00000027335	Adra1d	3.459552039	1.790585242	0.037881243
537	ENSMUSG00000025701	Alox5	3.459552039	1.790585242	0.037881243
538	ENSMUSG00000026938	Fcna	3.459322325	1.790489444	0.045980594
539	ENSMUSG00000055809	Dnaaf3	3.459322325	1.790489444	0.045980594
540	ENSMUSG00000047180	Neurl3	3.453411331	1.788022182	0.00936835
541	ENSMUSG00000022221	Ripk3	3.448847659	1.786114404	0.0173463
542	ENSMUSG00000002699	Lcp2	3.44284049	1.783599341	0.015265868
543	ENSMUSG00000031740	Mmp2	3.440970919	1.782815699	0.009539183
544	ENSMUSG00000032691	Nlrp3	3.437626005	1.781412596	0.032991148
545	ENSMUSG00000027962	Vcam1	3.424839261	1.776036279	0.00891606
546	ENSMUSG00000006313	Upk1a	3.424252664	1.775789157	0.010584835
547	ENSMUSG00000048644	Ctxn1	3.421303183	1.774545956	0.012975697
548	ENSMUSG00000030867	Plk1	3.415729927	1.772193909	0.018372291
549	ENSMUSG00000026077	Npas2	3.413103831	1.771084304	0.023144746
550	ENSMUSG00000037239	Spred3	3.413103831	1.771084304	0.023144746
551	ENSMUSG00000021356	Irf4	3.412358656	1.770769289	0.014611613
552	ENSMUSG00000022181	C6	3.406841562	1.768434855	0.032386763
553	ENSMUSG00000024675	Ms4a4c	3.399672146	1.765395624	0.020789946
554	ENSMUSG00000013584	Aldh1a2	3.396211998	1.763926517	0.010448905
555	ENSMUSG00000029651	Mtus2	3.387686157	1.760300226	0.04221484
556	ENSMUSG00000035692	Isg15	3.387112354	1.760055843	0.009734716
557	ENSMUSG00000038642	Ctss	3.385362347	1.759310259	0.009397563
558	ENSMUSG00000020865	Abcc3	3.382458144	1.758072082	0.010984312
559	ENSMUSG00000039683	Sdk1	3.370069721	1.752778439	0.013232827
560	ENSMUSG00000049436	Upk1b	3.362437697	1.749507536	0.01159309
561	ENSMUSG000000113101	AC118222.2	3.360875532	1.748837114	0.045980594
562	ENSMUSG00000029378	Areg	3.360875532	1.748837114	0.045980594
563	ENSMUSG00000091705	H2-Q2	3.34957122	1.743976427	0.013078564
564	ENSMUSG00000037129	Tmprss13	3.346509711	1.742657201	0.031274573
565	ENSMUSG00000033595	Lgi3	3.342560345	1.740953606	0.043422342
566	ENSMUSG00000023067	Cdkn1a	3.336289304	1.738244397	0.009798617
567	ENSMUSG00000001930	Vwf	3.333329873	1.736964097	0.011385492
568	ENSMUSG00000004951	Hspb1	3.333090303	1.736860405	0.009892932
569	ENSMUSG00000036067	Slc2a6	3.332288693	1.736513394	0.018360892
570	ENSMUSG00000042622	Maff	3.320352548	1.731336432	0.011774353
571	ENSMUSG00000027859	Ngf	3.304755287	1.724543446	0.013134284
572	ENSMUSG00000037580	Gch1	3.302835644	1.72370518	0.019356079
573	ENSMUSG00000028539	Artn	3.295942397	1.720691029	0.02534492
574	ENSMUSG00000029811	Aoc1	3.292595231	1.719225168	0.011590707
575	ENSMUSG00000030107	Usp18	3.291373134	1.71868959	0.012976447
576	ENSMUSG00000033880	Lgals3bp	3.288333615	1.717356674	0.010634826
577	ENSMUSG00000030263	Lrmp	3.287120929	1.716824532	0.023357485
578	ENSMUSG00000068014	Gm14648	3.281823411	1.714497612	0.045980594
579	ENSMUSG00000050370	Ch25h	3.276422564	1.712121435	0.020477951
580	ENSMUSG00000022037	Clu	3.274097792	1.711097413	0.010838045
581	ENSMUSG00000053398	Phgdh	3.265928747	1.707493316	0.011474229
582	ENSMUSG00000052160	Pld4	3.26568892	1.707387371	0.012270838
583	ENSMUSG00000003484	Cyp4f18	3.261022864	1.705324556	0.020061512

584	ENSMUSG00000037849	Ifi206	3.26090932	1.705274323	0.027432168
585	ENSMUSG00000090210	Itga10	3.248894405	1.699948854	0.04127558
586	ENSMUSG00000028076	Cd1d1	3.237510773	1.694884993	0.021071022
587	ENSMUSG00000066515	Klk1b3	3.228453039	1.690843042	0.03249639
588	ENSMUSG00000040276	Pacsin1	3.226439884	1.689943145	0.029312361
589	ENSMUSG00000049866	Arl4c	3.226340806	1.689898842	0.01281755
590	ENSMUSG00000057191	AB124611	3.219105538	1.686659876	0.026702842
591	ENSMUSG00000056596	Trnp1	3.215260477	1.684935619	0.022854384
592	ENSMUSG00000028047	Thbs3	3.214476495	1.684583802	0.021524967
593	ENSMUSG00000063415	Cyp26b1	3.212043575	1.683491465	0.013102393
594	ENSMUSG00000073787	Gm10575	3.197012718	1.676724483	0.049529827
595	ENSMUSG00000019122	Ccl9	3.189815268	1.673472875	0.017248164
596	ENSMUSG00000024672	Ms4a7	3.186651153	1.672041094	0.021869649
597	ENSMUSG00000026574	Dpt	3.186178343	1.671827023	0.023137346
598	ENSMUSG00000020901	Pik3r5	3.184308022	1.670979896	0.024359911
599	ENSMUSG00000024972	Lgals12	3.183468775	1.670599613	0.02804266
600	ENSMUSG00000022346	Myc	3.181744836	1.669818142	0.014538686
601	ENSMUSG00000074676	Foxs1	3.178890522	1.668523332	0.035334578
602	ENSMUSG00000042734	Ttc9	3.175431877	1.66695282	0.042908497
603	ENSMUSG00000030116	Mfap5	3.173898224	1.666255867	0.049741613
604	ENSMUSG00000058163	Gm5431	3.171168654	1.665014607	0.042908497
605	ENSMUSG00000005087	Cd44	3.166165986	1.662736891	0.017729416
606	ENSMUSG00000032271	Nnmt	3.164327893	1.661899102	0.021680391
607	ENSMUSG000000105247	Gm42519	3.162118082	1.660891243	0.046667979
608	ENSMUSG00000029260	Ugt2b34	3.151615049	1.656091329	0.014829799
609	ENSMUSG00000075296	Aldh3b2	3.151231585	1.655915782	0.026075263
610	ENSMUSG00000053318	Slamf8	3.144646549	1.652897871	0.032962144
611	ENSMUSG00000001025	S100a6	3.142484455	1.651905608	0.013934076
612	ENSMUSG00000073489	Ifi204	3.141413822	1.651414003	0.019361923
613	ENSMUSG00000022951	Rcan1	3.137522984	1.649626028	0.013999886
614	ENSMUSG00000063713	Klk1b24	3.130319255	1.646309802	0.035334578
615	ENSMUSG00000043263	Ifi209	3.129328005	1.645852885	0.035334578
616	ENSMUSG00000031934	Panx1	3.120710266	1.64187442	0.027317469
617	ENSMUSG00000043333	Rhbd12	3.114528684	1.639013859	0.047335885
618	ENSMUSG00000097183	Gm17501	3.114528684	1.639013859	0.047335885
619	ENSMUSG00000099974	Bcl2a1d	3.106943022	1.635495784	0.035334578
620	ENSMUSG00000049130	C5ar1	3.103351919	1.633827307	0.028604508
621	ENSMUSG00000097789	Gm2115	3.101377591	1.632909184	0.025144289
622	ENSMUSG00000030798	Cd37	3.096664298	1.630714992	0.026687294
623	ENSMUSG00000072188	Gm10354	3.093652001	1.62931092	0.044841285
624	ENSMUSG00000006219	Fblim1	3.09293073	1.628974523	0.016736964
625	ENSMUSG00000040037	Negr1	3.092381079	1.628718116	0.033540063
626	ENSMUSG00000064080	Fbln2	3.079899926	1.622883475	0.019985504
627	ENSMUSG00000021367	Edn1	3.079881092	1.622874652	0.021811079
628	ENSMUSG00000055541	Lair1	3.07670007	1.62138381	0.027505846
629	ENSMUSG00000021701	Plk2	3.073751976	1.620000757	0.016642891
630	ENSMUSG00000049999	Ppp1r3d	3.063573794	1.615215603	0.04970526
631	ENSMUSG00000053647	Gper1	3.06235526	1.614641658	0.028543885
632	ENSMUSG00000037548	H2-DMb2	3.06160901	1.614290052	0.018241072

633	ENSMUSG00000034652	Cd300a	3.05784727	1.61251635	0.027952483
634	ENSMUSG00000068893	Spr2a2	3.056650091	1.61195141	0.017205346
635	ENSMUSG00000028786	Tmem54	3.052120914	1.609812118	0.024490583
636	ENSMUSG00000039239	Tgfb2	3.051434874	1.6094878	0.033099203
637	ENSMUSG00000034792	Gna15	3.048291758	1.608000993	0.036231613
638	ENSMUSG00000049511	Htr1b	3.047395638	1.607576815	0.031634628
639	ENSMUSG00000063011	Msln	3.043316442	1.605644352	0.032120652
640	ENSMUSG00000040483	Xaf1	3.037997863	1.603120855	0.01913195
641	ENSMUSG00000054630	Ugt2b5	3.028410718	1.598560879	0.032315176
642	ENSMUSG00000040552	C3ar1	3.027181426	1.597975142	0.024856603
643	ENSMUSG00000022665	Ccdc80	3.026724475	1.597757352	0.019332818
644	ENSMUSG00000044313	Mab21l3	3.018574051	1.593867194	0.023061013
645	ENSMUSG00000031103	Elf4	3.004755401	1.587247555	0.021042568
646	ENSMUSG00000073802	Cdkn2b	3.00395708	1.5868642	0.022415089
647	ENSMUSG00000015452	Ager	3.002425609	1.586128501	0.039208206
648	ENSMUSG00000041431	Ccnb1	2.993109949	1.581645276	0.043849144
649	ENSMUSG00000104444	Gm33051	2.985444394	1.577945698	0.026877485
650	ENSMUSG00000038893	Fam117a	2.984333188	1.577408615	0.020485599
651	ENSMUSG00000016477	E2f3	2.983616533	1.577062126	0.028963406
652	ENSMUSG00000027750	Postn	2.966312287	1.56867049	0.041842087
653	ENSMUSG00000037731	Themis2	2.966061056	1.568548296	0.027178162
654	ENSMUSG00000056708	Ier5	2.963473893	1.567289348	0.020360915
655	ENSMUSG00000039956	Mrap	2.958100518	1.564671077	0.03756814
656	ENSMUSG00000003283	Hck	2.956218765	1.563753035	0.026457313
657	ENSMUSG00000095585	CR974586.3	2.955409201	1.563357897	0.043079437
658	ENSMUSG00000112508	2-Sep	2.953924228	1.56263282	0.020943796
659	ENSMUSG00000036905	C1qb	2.947641856	1.559561245	0.020179441
660	ENSMUSG00000092470	Gm20518	2.939670118	1.555654269	0.031687758
661	ENSMUSG00000038059	Smim3	2.931411331	1.551595419	0.025383523
662	ENSMUSG00000005465	Il27ra	2.930569461	1.551181033	0.040976356
663	ENSMUSG00000034855	Cxcl10	2.924714908	1.548296002	0.021813992
664	ENSMUSG00000089929	Bcl2a1b	2.921943963	1.54692851	0.044665414
665	ENSMUSG00000000957	Mmp14	2.918262482	1.545109652	0.023051361
666	ENSMUSG00000031880	Rrad	2.918206275	1.545081864	0.025238389
667	ENSMUSG00000015396	Cd83	2.905050918	1.538563451	0.029117431
668	ENSMUSG00000020120	Plek	2.901289901	1.536694459	0.041742789
669	ENSMUSG00000027908	Tchhl1	2.894213769	1.533171484	0.038010725
670	ENSMUSG00000087379	Gm13849	2.889517413	1.530828564	0.027306708
671	ENSMUSG00000032034	Kcnj5	2.871934475	1.522022833	0.049539603
672	ENSMUSG00000028270	Gbp2	2.870093915	1.521097946	0.02389062
673	ENSMUSG00000041548	Hspb8	2.866561476	1.519321219	0.024776278
674	ENSMUSG00000002111	Spi1	2.863716887	1.517888872	0.027500645
675	ENSMUSG00000037447	Arid5a	2.859145997	1.51558429	0.030908574
676	ENSMUSG00000002104	Rapsn	2.852173407	1.512061698	0.030925032
677	ENSMUSG00000020911	Krt19	2.849765516	1.510843217	0.025923326
678	ENSMUSG00000091387	Gcnt4	2.849516793	1.510717295	0.046095719
679	ENSMUSG00000041773	Enc1	2.848628013	1.51026724	0.027565362
680	ENSMUSG00000036718	Micall2	2.841467883	1.506636409	0.031921083
681	ENSMUSG00000074896	Ifit3	2.829912687	1.500757541	0.02499923

682	ENSMUSG00000030411	Nova2	2.827598532	1.499577298	0.037353379
683	ENSMUSG00000027555	Car13	2.817917338	1.494629292	0.036008792
684	ENSMUSG00000044583	Tlr7	2.817706911	1.494521555	0.045005041
685	ENSMUSG00000036887	C1qa	2.797026749	1.483894051	0.026682918
686	ENSMUSG00000078162	Gm2574	2.79575321	1.483237015	0.041853268
687	ENSMUSG00000103567	Pcdhga5	2.793139257	1.481887504	0.045252558
688	ENSMUSG00000033420	Antxr1	2.79249431	1.481554341	0.032970568
689	ENSMUSG00000061232	H2-K1	2.781808269	1.476022988	0.026913157
690	ENSMUSG00000058297	Spock2	2.779453617	1.474801307	0.041318299
691	ENSMUSG00000028268	Gbp3	2.776323125	1.473175487	0.031177807
692	ENSMUSG00000052684	Jun	2.775410552	1.472701198	0.027549695
693	ENSMUSG00000038456	Dennd2a	2.755350067	1.462235625	0.03358856
694	ENSMUSG00000023908	Pkmyt1	2.752052293	1.460507884	0.049237215
695	ENSMUSG00000042246	Tmc7	2.738817588	1.453553182	0.046500719
696	ENSMUSG00000039232	Stx11	2.738621034	1.453449642	0.044764776
697	ENSMUSG00000002055	Spag5	2.732463898	1.450202435	0.037201759
698	ENSMUSG00000023247	Guca2a	2.731960713	1.449936737	0.037265518
699	ENSMUSG00000076615	Ighg3	2.731876888	1.44989247	0.033935287
700	ENSMUSG00000037035	Inhbb	2.728449034	1.448081095	0.047622895
701	ENSMUSG00000062488	Ifit3b	2.726703731	1.447157953	0.032402153
702	ENSMUSG00000035540	Gc	2.72646555	1.447031927	0.030097808
703	ENSMUSG00000020407	Upp1	2.725628159	1.446588757	0.032058966
704	ENSMUSG00000047281	Sfn	2.724285281	1.445877787	0.032038836
705	ENSMUSG00000036896	C1qc	2.718390028	1.442752465	0.031512701
706	ENSMUSG00000047822	Angptl8	2.717088304	1.442061453	0.039543949
707	ENSMUSG00000020205	Phlda1	2.712061711	1.439390007	0.035474544
708	ENSMUSG00000096847	Tmem151b	2.709358528	1.437951317	0.041556734
709	ENSMUSG00000006930	Hap1	2.70719458	1.436798585	0.040216166
710	ENSMUSG00000059089	Fcgr4	2.705924589	1.436121634	0.035699633
711	ENSMUSG00000033777	Tlr13	2.704333133	1.435272881	0.049918285
712	ENSMUSG00000020121	Srgap1	2.703077344	1.434602793	0.035782336
713	ENSMUSG00000033831	Fgb	2.70127374	1.433639846	0.042988143
714	ENSMUSG00000000290	Itgb2	2.699177938	1.432520087	0.035346577
715	ENSMUSG00000078921	Tgtp2	2.699017408	1.432434282	0.033059499
716	ENSMUSG00000045136	Tubb2b	2.698551458	1.432185198	0.032757113
717	ENSMUSG00000052131	Akr1b7	2.695116386	1.430347575	0.040216166
718	ENSMUSG00000031904	Slc7a6	2.692807361	1.429111025	0.039017823
719	ENSMUSG00000070427	Il18bp	2.691867796	1.428607558	0.036393594
720	ENSMUSG00000029298	Gbp9	2.691589685	1.428458497	0.043422421
721	ENSMUSG00000034422	Parp14	2.686637483	1.425801667	0.034184637
722	ENSMUSG00000035835	Plppr3	2.686533327	1.425745735	0.046653393
723	ENSMUSG00000048865	Arhgap30	2.683038191	1.42386759	0.041226643
724	ENSMUSG00000019326	Aoc3	2.680594368	1.422552925	0.036449484
725	ENSMUSG00000000693	Lox13	2.680022839	1.422245296	0.042840473
726	ENSMUSG00000067276	Capn6	2.679237244	1.421822336	0.045183628
727	ENSMUSG00000019850	Tnfaip3	2.675923977	1.42003713	0.039075885
728	ENSMUSG00000024677	Ms4a6b	2.66765838	1.415573927	0.043515137
729	ENSMUSG00000034457	Eda2r	2.659002903	1.410885352	0.041914107
730	ENSMUSG00000026979	Psd4	2.657838031	1.410253189	0.048252143

731	ENSMUSG00000051790	Nlgn2	2.657541837	1.410092404	0.039370591
732	ENSMUSG00000001123	Lgals9	2.655289069	1.408868929	0.036382167
733	ENSMUSG00000063160	Numb1	2.654298071	1.408330391	0.043060184
734	ENSMUSG00000015745	Plekho1	2.654245722	1.408301937	0.03581525
735	ENSMUSG00000060063	Alox5ap	2.648808954	1.405343793	0.041731748
736	ENSMUSG00000072620	Slfn2	2.641651408	1.401440101	0.037653628
737	ENSMUSG00000022875	Kng1	2.630068299	1.395100265	0.048047321
738	ENSMUSG00000045382	Cxcr4	2.617887689	1.388403205	0.04117146
739	ENSMUSG00000027298	Tyro3	2.617285228	1.388071156	0.044840138
740	ENSMUSG00000022602	Arc	2.608615431	1.383284274	0.040653535
741	ENSMUSG00000021556	Golm1	2.606187279	1.381940759	0.039413628
742	ENSMUSG00000056737	Capg	2.603803556	1.380620608	0.038847831
743	ENSMUSG00000025037	Maoa	2.603644102	1.380532257	0.040450167
744	ENSMUSG00000018774	Cd68	2.600878086	1.378998776	0.044201745
745	ENSMUSG00000035778	Ggta1	2.600878086	1.378998776	0.044201745
746	ENSMUSG00000036957	Lrfn3	2.600672994	1.378885008	0.045306143
747	ENSMUSG00000073490	Ifi207	2.59812802	1.37747252	0.047233419
748	ENSMUSG00000020806	Rhbdf2	2.595245527	1.375871033	0.041585798
749	ENSMUSG00000074151	Nlrc5	2.593492144	1.374896	0.044900211
750	ENSMUSG00000027188	Pamr1	2.585494041	1.37043998	0.04289166
751	ENSMUSG00000015652	Steap1	2.583081876	1.369093373	0.046005384
752	ENSMUSG00000022512	Cldn1	2.58307624	1.369090225	0.042393155
753	ENSMUSG00000012705	Retn	2.57608429	1.365179799	0.04669568
754	ENSMUSG00000036894	Rap2b	2.574648394	1.364375425	0.047073656
755	ENSMUSG00000035403	Crb2	2.572116465	1.362955969	0.046316564
756	ENSMUSG00000000078	Klf6	2.565744305	1.359377402	0.042203497
757	ENSMUSG00000048458	Fam212b	2.563561872	1.358149718	0.04776031
758	ENSMUSG00000061048	Cdh3	2.563365463	1.358039181	0.044430605
759	ENSMUSG00000050335	Lgals3	2.552461743	1.351889338	0.042383363
760	ENSMUSG00000028583	Pdpn	2.54964482	1.350296286	0.04561955
761	ENSMUSG00000028364	Tnc	2.544341731	1.347292453	0.045532488
762	ENSMUSG00000024338	Psmb8	2.538917609	1.344213579	0.044241831
763	ENSMUSG00000064215	Ifi27	2.525181561	1.336387122	0.044824701
764	ENSMUSG00000078920	Ifi47	2.509311473	1.327291559	0.049135666
765	ENSMUSG00000062991	Nrg1	2.503995416	1.324231921	0.048816234
766	ENSMUSG00000041120	Nbl1	2.502580139	1.323416268	0.047754653
767	ENSMUSG00000090877	Hspa1b	2.49882735	1.321251226	0.046893303
768	ENSMUSG00000018593	Sparc	2.494888397	1.318975282	0.047250454
769	ENSMUSG00000073409	H2-Q6	2.482011375	1.311509727	0.04864935

Down-regulated:

No.	Track_id	Gene_Name	FC(KO/WT)	Log2FC(KO/WT)	P value
1	ENSMUSG00000100153	Gm5601	0.000526841	-10.89034472	7.18E-13
2	ENSMUSG00000041698	Slco1a1	0.018837614	-5.730239912	1.15E-11
3	ENSMUSG00000093769	Hist2h3c1	0.001606278	-9.282062941	1.64E-08
4	ENSMUSG00000030359	Pzp	0.053071561	-4.235917217	2.71E-08
5	ENSMUSG00000053916	Nanp	0.00200784	-8.960140041	1.12E-07
6	ENSMUSG00000094162	Ccl19-ps3	0.002085165	-8.905622992	1.47E-07
7	ENSMUSG00000084383	Gm13370	0.002118597	-8.88267532	1.68E-07

8	ENSMUSG00000028571	Cyp2j13	0.073408969	-3.767899843	2.71E-07
9	ENSMUSG00000097582	Gm26527	0.067354447	-3.892082983	4.35E-07
10	ENSMUSG00000104375	Gm6300	0.002574642	-8.601412321	7.45E-07
11	ENSMUSG00000033715	Akr1c14	0.082693626	-3.596080063	9.37E-07
12	ENSMUSG00000089675	Ugt1a8	0.082075884	-3.606897804	1.28E-06
13	ENSMUSG00000030680	Pagrla	0.076126709	-3.715453476	1.36E-06
14	ENSMUSG00000052562	Slc22a30	0.091468495	-3.45058128	1.90E-06
15	ENSMUSG00000086156	Gm15354	0.058491126	-4.095638416	2.00E-06
16	ENSMUSG00000022366	Slc22a22	0.096461657	-3.37390059	3.39E-06
17	ENSMUSG00000063590	Slc22a28	0.099321909	-3.331744196	3.89E-06
18	ENSMUSG00000041052	Slc7a13	0.102427797	-3.287320803	4.10E-06
19	ENSMUSG00000022877	Hrg	0.08177935	-3.612119587	4.96E-06
20	ENSMUSG00000096963	B230364G03Rik	0.003399449	-8.200483422	6.32E-06
21	ENSMUSG00000092822	Gm23162	0.09500925	-3.395788217	6.63E-06
22	ENSMUSG00000032758	Kap	0.109053818	-3.19688781	6.74E-06
23	ENSMUSG00000039519	Cyp7b1	0.10897169	-3.197974713	7.56E-06
24	ENSMUSG00000028713	Cyp4b1	0.11241105	-3.153144234	8.68E-06
25	ENSMUSG00000030935	Acsn3	0.111803722	-3.160959874	8.75E-06
26	ENSMUSG00000108511	Gm44987	0.003572315	-8.128924908	9.48E-06
27	ENSMUSG00000102683	Gm37375	0.003629554	-8.105991814	9.48E-06
28	ENSMUSG00000031725	Ces1f	0.114662697	-3.124531974	1.03E-05
29	ENSMUSG00000100426	Gm4208	0.077763259	-3.684767515	1.24E-05
30	ENSMUSG00000025479	Cyp2e1	0.119415248	-3.065941028	1.42E-05
31	ENSMUSG00000026827	Gpd2	0.11292215	-3.146599591	1.50E-05
32	ENSMUSG00000093598	A730085K08Rik	0.004119944	-7.923159603	2.25E-05
33	ENSMUSG00000105446	Gm42605	0.086118387	-3.537534884	2.32E-05
34	ENSMUSG00000103441	7530428D23Rik	0.069420296	-3.848498664	2.33E-05
35	ENSMUSG00000078816	Prkeg	0.101711539	-3.297444731	3.46E-05
36	ENSMUSG00000079495	Nat8f6	0.134378072	-2.895630364	3.81E-05
37	ENSMUSG00000005547	Cyp2a5	0.136716773	-2.870737846	4.20E-05
38	ENSMUSG00000107838	Gm45769	0.102783172	-3.282324021	5.74E-05
39	ENSMUSG00000022304	Dpys	0.143546206	-2.800412891	8.07E-05
40	ENSMUSG00000053852	Adgrg4	0.125595844	-2.993139372	8.59E-05
41	ENSMUSG00000061833	Gm6311	0.005072685	-7.623034817	9.64E-05
42	ENSMUSG00000031710	Ucp1	0.085292412	-3.551438798	0.000112865
43	ENSMUSG00000099146	0610031O16Rik	0.092297353	-3.437566911	0.000124037
44	ENSMUSG00000061959	Ces1e	0.155327697	-2.686612986	0.000125917
45	ENSMUSG00000051149	Adnp	0.11421837	-3.130133396	0.000136087
46	ENSMUSG00000083294	Gm14957	0.122569691	-3.028325826	0.000139731
47	ENSMUSG00000070368	Prok1	0.123268617	-3.020122541	0.000157978
48	ENSMUSG00000084127	Gm13169	0.005574578	-7.486921794	0.000164799
49	ENSMUSG00000003477	Inmt	0.165575838	-2.594435933	0.000180238
50	ENSMUSG00000066071	Cyp4a12a	0.163819816	-2.609818215	0.000187084
51	ENSMUSG00000026415	Fcamr	0.141534809	-2.82077118	0.000192323
52	ENSMUSG00000037053	Azgp1	0.16703228	-2.581801153	0.000199968
53	ENSMUSG00000053303	Slc22a26	0.155111833	-2.688619341	0.000207797
54	ENSMUSG00000108955	Gm44775	0.104062053	-3.264484021	0.000209973
55	ENSMUSG00000006200	Rhox6	0.110382679	-3.179414292	0.000212047
56	ENSMUSG00000105906	Igcl1	0.00585388	-7.416391151	0.00021796

57	ENSMUSG00000057074	Ces1g	0.159100656	-2.651988307	0.000220281
58	ENSMUSG00000037477	Tbx10	0.099814803	-3.324602406	0.000228285
59	ENSMUSG00000036083	Slc17a3	0.170698799	-2.550475191	0.00022989
60	ENSMUSG00000038224	Serpinf2	0.171371195	-2.544803462	0.00024003
61	ENSMUSG00000085894	Gm15832	0.006012427	-7.377836791	0.000290613
62	ENSMUSG00000057425	Ugt2b37	0.178568882	-2.485447405	0.000333808
63	ENSMUSG00000045799	Gm9800	0.057217468	-4.127400543	0.000336207
64	ENSMUSG00000012187	Mogat1	0.181870226	-2.459018715	0.000379342
65	ENSMUSG00000112713	AC122301.3	0.03772125	-4.72847872	0.000385253
66	ENSMUSG00000113789	AC139941.2	0.006486787	-7.268280135	0.000390825
67	ENSMUSG00000032854	Ugt8a	0.180653667	-2.468701557	0.000395852
68	ENSMUSG00000061906	Ugt2b38	0.185186193	-2.432951554	0.000411974
69	ENSMUSG00000099519	Gm29253	0.114648249	-3.124713771	0.000415922
70	ENSMUSG00000056162	Cndp1	0.187570749	-2.414493235	0.000501288
71	ENSMUSG00000026442	Nfasc	0.169636588	-2.559480721	0.00052965
72	ENSMUSG00000043219	Hoxa6	0.006889418	-7.181402079	0.000530405
73	ENSMUSG00000021187	Tc2n	0.145889043	-2.777056562	0.000552913
74	ENSMUSG00000030945	Acsn2	0.193344146	-2.370757014	0.000555379
75	ENSMUSG00000031294	D630029K05Rik	0.194037912	-2.365589536	0.00059542
76	ENSMUSG00000049152	Ugt3a2	0.200468758	-2.318550675	0.000718067
77	ENSMUSG00000040693	Slco4c1	0.193426505	-2.370142598	0.000785903
78	ENSMUSG00000028527	Ak4	0.203419567	-2.297469637	0.000805713
79	ENSMUSG00000030244	Gys2	0.196266155	-2.349116685	0.00090399
80	ENSMUSG00000098975	Gm27177	0.198272637	-2.334442504	0.000909632
81	ENSMUSG00000096844	Igkv6-14	0.068017947	-3.877940721	0.000921321
82	ENSMUSG00000009115	Spatc11	0.195694598	-2.353324159	0.000921602
83	ENSMUSG00000038641	Akr1d1	0.202746658	-2.302249964	0.000970582
84	ENSMUSG00000074575	Kcng1	0.140037793	-2.836111868	0.000985149
85	ENSMUSG00000024575	Pde6a	0.186382785	-2.423659484	0.000995816
86	ENSMUSG00000074919	Gm10787	0.132228582	-2.918894035	0.001002138
87	ENSMUSG00000072664	Ugt3a1	0.210547496	-2.247782377	0.001018939
88	ENSMUSG00000074254	Cyp2a4	0.211823888	-2.239062799	0.001052009
89	ENSMUSG00000035878	Hykk	0.211126551	-2.243820071	0.001058902
90	ENSMUSG00000081752	Gm14680	0.156918315	-2.671914347	0.001117054
91	ENSMUSG00000091813	Ces2h	0.137950965	-2.857772545	0.001121897
92	ENSMUSG00000024866	Acy3	0.213968686	-2.22452842	0.001126164
93	ENSMUSG00000000049	Apoh	0.199141818	-2.328131889	0.00121926
94	ENSMUSG00000037347	Chst7	0.209974291	-2.251715398	0.00122267
95	ENSMUSG00000030004	Nat8	0.218287182	-2.195700676	0.001303092
96	ENSMUSG00000022853	Ehhadh	0.219152427	-2.18999344	0.001334494
97	ENSMUSG00000024650	Slc22a6	0.220137019	-2.183526319	0.001371124
98	ENSMUSG00000071177	Serpina1d	0.22149293	-2.174667445	0.001435735
99	ENSMUSG00000090145	Ugt1a6b	0.218142916	-2.196654467	0.001562322
100	ENSMUSG00000046178	Nxph1	0.169722365	-2.558751404	0.001568007
101	ENSMUSG00000069045	Ddx3y	0.211041119	-2.244403975	0.001620591
102	ENSMUSG00000096852	Cyp2d12	0.226474872	-2.142577105	0.001721047
103	ENSMUSG00000068457	Uty	0.196700012	-2.345931051	0.001895002
104	ENSMUSG00000062410	Hsd3b3	0.229182485	-2.125431305	0.001901619
105	ENSMUSG00000046213	Cym	0.145752	-2.778412416	0.001969439

106	ENSMUSG00000112101	AC159326.1	0.008491732	-6.879725458	0.001996045
107	ENSMUSG00000083929	Gm10600	0.008537453	-6.871978532	0.001996045
108	ENSMUSG00000097718	Gm26896	0.008780589	-6.831466518	0.001996045
109	ENSMUSG00000029482	Aacs	0.231998755	-2.107811034	0.00201336
110	ENSMUSG00000095210	Ighv5-9-1	0.12657508	-2.981934696	0.002088451
111	ENSMUSG00000083863	Gm13341	0.157067225	-2.670545932	0.00219265
112	ENSMUSG00000045871	Slitrk6	0.19030131	-2.3936426	0.00226869
113	ENSMUSG00000061825	Ces2c	0.23782013	-2.072057258	0.002309827
114	ENSMUSG00000108652	0610006L08Rik	0.22775307	-2.134457595	0.00233637
115	ENSMUSG00000109532	Gm44810	0.216928901	-2.204705819	0.002343319
116	ENSMUSG00000074469	Gm15348	0.20189941	-2.3082914	0.002359162
117	ENSMUSG00000059406	Tmprss9	0.158084406	-2.661233033	0.002378747
118	ENSMUSG00000031549	Ido2	0.221793224	-2.172712805	0.002386195
119	ENSMUSG00000037953	A4gnt	0.226861373	-2.14011711	0.002390497
120	ENSMUSG00000056673	Kdm5d	0.217857294	-2.198544681	0.002407125
121	ENSMUSG00000032098	Treh	0.239247431	-2.063424664	0.002489684
122	ENSMUSG00000020839	Tmigdl	0.24039657	-2.056511783	0.002497303
123	ENSMUSG00000057103	Nat8fl	0.241111441	-2.052227983	0.002518223
124	ENSMUSG00000097723	Gm26848	0.131354157	-2.928466238	0.002547333
125	ENSMUSG00000020062	Slc5a8	0.242015339	-2.046829607	0.002619993
126	ENSMUSG00000021620	Acot12	0.241020072	-2.052774797	0.00263535
127	ENSMUSG00000068205	Macrocl2	0.240296012	-2.057115387	0.002661636
128	ENSMUSG00000086868	Gm15883	0.233441686	-2.098865885	0.002675369
129	ENSMUSG00000109432	Gm44785	0.216864461	-2.205134445	0.002696714
130	ENSMUSG00000029695	Aass	0.243883526	-2.035735788	0.002718731
131	ENSMUSG00000078650	G6pc	0.245190655	-2.0280241	0.002827828
132	ENSMUSG00000110221	Gm36210	0.224830857	-2.153088046	0.002937585
133	ENSMUSG00000034875	Nudtl9	0.248014399	-2.01150421	0.003013959
134	ENSMUSG00000002769	Gnmt	0.239968284	-2.059084356	0.00308198
135	ENSMUSG00000079494	Nat8f5	0.246165549	-2.022299223	0.00309694
136	ENSMUSG00000038155	Gstp2	0.236227621	-2.081750435	0.003110598
137	ENSMUSG00000094787	Ighv1-54	0.137074446	-2.866968452	0.003118634
138	ENSMUSG00000049580	Tsku	0.249315917	-2.003953106	0.003302362
139	ENSMUSG00000024694	Kegl	0.253130347	-1.982047614	0.003428643
140	ENSMUSG00000006711	D130043K22Rik	0.084928584	-3.557605993	0.003567541
141	ENSMUSG00000030924	2610020H08Rik	0.19753941	-2.339787586	0.003583287
142	ENSMUSG00000021207	Akr1c21	0.258326688	-1.952731395	0.003903564
143	ENSMUSG00000021335	Slc17a1	0.258287291	-1.952951439	0.003914502
144	ENSMUSG00000055114	Anxa13	0.229779041	-2.121680884	0.003939603
145	ENSMUSG00000110750	AC142113.1	0.195582443	-2.354151224	0.003963632
146	ENSMUSG00000037254	Itih2	0.245521262	-2.026080128	0.004039036
147	ENSMUSG00000058921	Slc10a5	0.210701746	-2.246725825	0.00403928
148	ENSMUSG00000026189	Pecr	0.259531125	-1.946020529	0.004043056
149	ENSMUSG00000068877	Selenbp2	0.252386604	-1.986292756	0.004058328
150	ENSMUSG00000086474	9130204K15Rik	0.009989689	-6.645344516	0.004165659
151	ENSMUSG00000094638	Gm21972	0.00987416	-6.66212624	0.004165659
152	ENSMUSG00000087041	Gm16295	0.009744134	-6.681250269	0.004165659
153	ENSMUSG00000113368	AC159815.1	0.009989689	-6.645344516	0.004165659
154	ENSMUSG00000031517	Gpm6a	0.258785852	-1.950169349	0.004188239

155	ENSMUSG00000069049	Eif2s3y	0.248731527	-2.007338714	0.004301955
156	ENSMUSG00000085826	Gm15638	0.255568061	-1.968220547	0.00442853
157	ENSMUSG00000027359	Slc27a2	0.264892492	-1.916521142	0.004564964
158	ENSMUSG00000027896	Slc16a4	0.262286849	-1.930782623	0.004642459
159	ENSMUSG00000104887	Gm43158	0.237376808	-2.074749108	0.004652917
160	ENSMUSG00000036764	Dnajc12	0.265841455	-1.911361999	0.004736265
161	ENSMUSG00000031481	Tpte	0.157156124	-2.669729606	0.004771142
162	ENSMUSG00000086706	Gm15848	0.261436023	-1.935470155	0.005044757
163	ENSMUSG00000058914	Clqtnf3	0.267135072	-1.904358696	0.005111728
164	ENSMUSG00000024313	Mep1b	0.270159269	-1.888117912	0.005253764
165	ENSMUSG00000023914	Mep1a	0.271940733	-1.87863583	0.005382606
166	ENSMUSG00000033634	Nat8f2	0.269885306	-1.889581662	0.005545546
167	ENSMUSG00000067547	Gm7666	0.266125313	-1.909822354	0.00565405
168	ENSMUSG00000048572	Tmem252	0.274493935	-1.86515382	0.005731846
169	ENSMUSG00000078879	Zfp973	0.166989773	-2.582168346	0.005759502
170	ENSMUSG00000021416	Eci3	0.274565717	-1.864776597	0.005772688
171	ENSMUSG00000097706	E030037K01Rik	0.11792356	-3.084076105	0.005858968
172	ENSMUSG00000061742	Slc22a12	0.276163001	-1.856408047	0.005921144
173	ENSMUSG00000079015	Serpina1c	0.260767695	-1.939162943	0.005943413
174	ENSMUSG00000109093	Gm19950	0.276386708	-1.855239858	0.006034251
175	ENSMUSG00000010651	Acaa1b	0.277454614	-1.849676302	0.006123966
176	ENSMUSG00000022244	Amacr	0.27720942	-1.850951814	0.006135971
177	ENSMUSG00000100621	Gm28374	0.011290351	-6.46876585	0.006149306
178	ENSMUSG00000097811	2810425M01Rik	0.01138298	-6.456977851	0.006149306
179	ENSMUSG00000112972	AC156632.1	0.011336476	-6.46288389	0.006149306
180	ENSMUSG00000104392	Gm37962	0.010977692	-6.50928148	0.006149306
181	ENSMUSG00000025815	Dhtkd1	0.27324621	-1.871726608	0.006315162
182	ENSMUSG00000029193	Cckar	0.276455758	-1.854879474	0.006405755
183	ENSMUSG00000097503	3110045C21Rik	0.266506389	-1.907757976	0.006498188
184	ENSMUSG00000032066	Bco2	0.269079113	-1.893897686	0.006538785
185	ENSMUSG00000039783	Kmo	0.280043354	-1.836277903	0.006640231
186	ENSMUSG00000078552	Dcdc2b	0.174380318	-2.519690882	0.006664909
187	ENSMUSG00000041708	Mpped1	0.25843206	-1.952143041	0.006779749
188	ENSMUSG00000021384	Susd3	0.281092505	-1.83088311	0.006793046
189	ENSMUSG00000031958	Ldhd	0.282492889	-1.823713543	0.006806285
190	ENSMUSG00000098747	Gm27216	0.275199363	-1.861450965	0.006937552
191	ENSMUSG00000087405	Gm14232	0.270653893	-1.885478956	0.006941786
192	ENSMUSG00000042988	Notum	0.276584874	-1.854205833	0.007137581
193	ENSMUSG00000076680	Ighv6-6	0.099818761	-3.324545191	0.00753089
194	ENSMUSG00000109628	BC024386	0.28337526	-1.819214285	0.007558167
195	ENSMUSG00000024766	Lipo3	0.282097823	-1.825732563	0.007750506
196	ENSMUSG00000070530	Wfdc16	0.264779485	-1.917136748	0.007815134
197	ENSMUSG00000037762	Slc16a9	0.28986819	-1.786531074	0.008169703
198	ENSMUSG00000040413	Timd2	0.288894623	-1.791384741	0.008170869
199	ENSMUSG00000090124	Ugt1a7c	0.291317729	-1.77933459	0.008241611
200	ENSMUSG00000113529	AC159649.3	0.222627166	-2.167298449	0.008242678
201	ENSMUSG00000076532	Igkv4-91	0.249308884	-2.003993799	0.008374124
202	ENSMUSG00000025936	Gm4956	0.26675692	-1.906402397	0.008404163
203	ENSMUSG00000024757	Slc22a19	0.290563583	-1.783074195	0.008416676

204	ENSMUSG00000026368	F13b	0.290485155	-1.783463655	0.00845218
205	ENSMUSG00000037686	Aspg	0.289881798	-1.786463348	0.008514062
206	ENSMUSG00000005980	Dnase1	0.293922543	-1.766492079	0.008640753
207	ENSMUSG00000033610	Pank1	0.294108783	-1.765578227	0.008806973
208	ENSMUSG00000051147	Nat2	0.283659844	-1.817766164	0.009059783
209	ENSMUSG00000002076	Hsf2bp	0.286088523	-1.805466473	0.009096837
210	ENSMUSG00000085694	Gm14967	0.151190894	-2.725556841	0.00910829
211	ENSMUSG00000052520	Cyp2j5	0.296841601	-1.752234801	0.009169607
212	ENSMUSG00000032418	Me1	0.296778563	-1.752541209	0.009194941
213	ENSMUSG00000112935	AC192616.1	0.012182575	-6.359037032	0.009223959
214	ENSMUSG00000081895	Rpl17-ps10	0.012222822	-6.354278796	0.009223959
215	ENSMUSG00000108599	Gm10616	0.012182575	-6.359037032	0.009223959
216	ENSMUSG00000085944	1700003D09Rik	0.012182575	-6.359037032	0.009223959
217	ENSMUSG00000054822	1700041G16Rik	0.012182575	-6.359037032	0.009223959
218	ENSMUSG00000044125	9530080O11Rik	0.012182575	-6.359037032	0.009223959
219	ENSMUSG00000023473	Celsr3	0.012182575	-6.359037032	0.009223959
220	ENSMUSG00000056973	Ces1d	0.296921246	-1.751847766	0.009270581
221	ENSMUSG00000055452	Gm7353	0.205144826	-2.285285327	0.009323198
222	ENSMUSG00000090486	BC035947	0.296643053	-1.753200098	0.00942177
223	ENSMUSG00000102440	Pcdhga9	0.188256347	-2.409229592	0.009435984
224	ENSMUSG00000071178	Serpina1b	0.294206619	-1.765098393	0.00945837
225	ENSMUSG00000028979	Masp2	0.106014453	-3.237667134	0.009774911
226	ENSMUSG00000042179	Pnliprp1	0.106014453	-3.237667134	0.009774911
227	ENSMUSG00000020774	Aspa	0.298655685	-1.743444911	0.009942317
228	ENSMUSG00000107516	Gm44244	0.241234835	-2.051489845	0.009974628
229	ENSMUSG00000109849	Gm45645	0.241234835	-2.051489845	0.009974628
230	ENSMUSG00000055137	Sugct	0.300207093	-1.735970029	0.010034017
231	ENSMUSG00000104607	Gm43202	0.260319977	-1.941642065	0.010088656
232	ENSMUSG00000040170	Fmo2	0.301813999	-1.728268371	0.01018004
233	ENSMUSG00000089989	Gm45713	0.112182467	-3.15608088	0.010215054
234	ENSMUSG00000090175	Ugt1a9	0.297863407	-1.747277198	0.010358142
235	ENSMUSG00000031441	Atp11a	0.303104578	-1.722112451	0.010383412
236	ENSMUSG00000025911	Adhfe1	0.304580194	-1.715105965	0.010767504
237	ENSMUSG00000096917	2500002B13Rik	0.278061735	-1.846522869	0.010902479
238	ENSMUSG00000063730	Hsd3b2	0.304111508	-1.717327684	0.010906494
239	ENSMUSG00000063796	Slc22a8	0.305972627	-1.708525502	0.010961139
240	ENSMUSG00000042102	Dmgdh	0.305569712	-1.710426545	0.011031229
241	ENSMUSG00000024644	Cndp2	0.30653873	-1.705858729	0.011066374
242	ENSMUSG00000037348	Paqr7	0.305476023	-1.71086895	0.011207757
243	ENSMUSG00000022679	Mpv17l	0.307134016	-1.703059789	0.011255528
244	ENSMUSG00000099669	Gm29012	0.275322759	-1.860804221	0.011376879
245	ENSMUSG00000097658	Gm16755	0.172937164	-2.531680163	0.01143183
246	ENSMUSG00000047528	Als2cr12	0.232617776	-2.103966749	0.01144599
247	ENSMUSG00000025059	Gk	0.308063923	-1.698698353	0.011491956
248	ENSMUSG00000051262	Nat8f3	0.306257644	-1.70718224	0.011518257
249	ENSMUSG00000102095	C730036E19Rik	0.30220086	-1.72642033	0.011596415
250	ENSMUSG00000042118	Bhmt2	0.308224172	-1.697948088	0.011725947
251	ENSMUSG00000097930	C330002G04Rik	0.202785626	-2.301972701	0.012065199
252	ENSMUSG00000108763	Gm36028	0.279028883	-1.84151363	0.01235326

253	ENSMUSG00000023262	Acy1	0.313601101	-1.672997472	0.012830068
254	ENSMUSG00000066097	Cyp2j11	0.314109948	-1.670658462	0.012987066
255	ENSMUSG00000060317	Acnat2	0.314890983	-1.667075648	0.013021507
256	ENSMUSG00000028132	Tmem56	0.300547103	-1.73433698	0.013045267
257	ENSMUSG00000035699	Slc51a	0.313339974	-1.674199265	0.013148654
258	ENSMUSG00000010122	Slc47a1	0.3158664	-1.662613614	0.013198477
259	ENSMUSG00000038843	Gcnt1	0.315609257	-1.663788574	0.013202827
260	ENSMUSG00000106365	Gm43568	0.22039533	-2.181834437	0.01320914
261	ENSMUSG00000030283	St8sia1	0.314425485	-1.669209937	0.013571778
262	ENSMUSG00000104340	Gm10522	0.227417166	-2.136586936	0.014006507
263	ENSMUSG00000087367	Gm15491	0.013786542	-6.180595516	0.014078675
264	ENSMUSG00000091199	Gm2619	0.014066082	-6.15163565	0.014078675
265	ENSMUSG00000073415	Gm10501	0.012935025	-6.272573362	0.014078675
266	ENSMUSG00000070025	Gm10284	0.013291276	-6.233376522	0.014078675
267	ENSMUSG00000020805	Slc13a5	0.013684558	-6.191307327	0.014078675
268	ENSMUSG00000024673	Ms4a1	0.013684558	-6.191307327	0.014078675
269	ENSMUSG00000039095	En2	0.013684558	-6.191307327	0.014078675
270	ENSMUSG00000026357	Rgs18	0.013684558	-6.191307327	0.014078675
271	ENSMUSG00000056300	Zfp981	0.013684558	-6.191307327	0.014078675
272	ENSMUSG00000085830	Grin1os	0.013684558	-6.191307327	0.014078675
273	ENSMUSG00000095975	Cphx1	0.013684558	-6.191307327	0.014078675
274	ENSMUSG00000109473	B930025P03Rik	0.013684558	-6.191307327	0.014078675
275	ENSMUSG00000112641	AC160411.1	0.013684558	-6.191307327	0.014078675
276	ENSMUSG00000044556	Tex38	0.013684558	-6.191307327	0.014078675
277	ENSMUSG00000085023	Gm12744	0.303968189	-1.718007747	0.014138335
278	ENSMUSG00000044429	Cryga	0.104074245	-3.264315004	0.014145884
279	ENSMUSG00000038704	Aspdh	0.318294168	-1.651567372	0.014292285
280	ENSMUSG00000024039	Cbs	0.319973245	-1.643976819	0.014317606
281	ENSMUSG00000030523	Trpm1	0.138396581	-2.853119787	0.014413706
282	ENSMUSG00000027887	Syp12	0.318275072	-1.651653927	0.014519298
283	ENSMUSG00000074207	Adhl	0.322203883	-1.633954215	0.014772535
284	ENSMUSG00000022613	Miox	0.322536554	-1.632465422	0.014814869
285	ENSMUSG00000001155	Ftcd	0.316708275	-1.658773533	0.014870588
286	ENSMUSG00000034612	Chst11	0.31878976	-1.649322808	0.014921996
287	ENSMUSG00000017718	Afmid	0.320688075	-1.640757389	0.01502129
288	ENSMUSG00000040966	Slc22a2	0.324666029	-1.622971658	0.015458986
289	ENSMUSG00000048022	Tmem229a	0.325760553	-1.61811618	0.015926592
290	ENSMUSG00000108435	Gm45051	0.319485741	-1.646176551	0.01636984
291	ENSMUSG00000050164	Mchr1	0.295008451	-1.761171811	0.016575526
292	ENSMUSG00000023044	Csad	0.328424406	-1.606366753	0.016589228
293	ENSMUSG00000104459	Gm37824	0.294527002	-1.763528189	0.016724661
294	ENSMUSG00000107785	Gm45083	0.218318211	-2.195495618	0.016810069
295	ENSMUSG00000074435	Smcp	0.271763904	-1.879574245	0.016998824
296	ENSMUSG00000024411	Aqp4	0.328299555	-1.606915301	0.017031076
297	ENSMUSG00000037605	Adgrl3	0.317644715	-1.654514079	0.017406568
298	ENSMUSG00000024391	Apom	0.329347622	-1.602316963	0.01747286
299	ENSMUSG00000025937	Lactb2	0.333161601	-1.585705965	0.017825816
300	ENSMUSG00000071633	Gm4952	0.241654767	-2.048980643	0.017985498
301	ENSMUSG00000027762	Sucnr1	0.328368141	-1.606613933	0.018094028

302	ENSMUSG00000021999	Cpb2	0.267860165	-1.900448048	0.01821108
303	ENSMUSG00000087135	Gm16096	0.146484748	-2.771177635	0.018258403
304	ENSMUSG00000109089	4833411C07Rik	0.146484748	-2.771177635	0.018258403
305	ENSMUSG00000020777	Acox1	0.334947719	-1.577992169	0.018341017
306	ENSMUSG00000112478	AC153370.2	0.28805203	-1.795598668	0.018372932
307	ENSMUSG00000027513	Pck1	0.335839871	-1.574154578	0.018581102
308	ENSMUSG00000099876	Gm29650	0.204042751	-2.293056639	0.019112419
309	ENSMUSG00000078487	Ankrd65	0.204042751	-2.293056639	0.019112419
310	ENSMUSG00000061577	Adgrg5	0.204042751	-2.293056639	0.019112419
311	ENSMUSG00000003949	Hlf	0.33638783	-1.571802583	0.019158619
312	ENSMUSG00000047728	BC025446	0.334875032	-1.578305281	0.019239285
313	ENSMUSG00000104208	Gm37401	0.214625413	-2.220107187	0.019614958
314	ENSMUSG00000066366	Serpina1a	0.338837246	-1.561335626	0.019633497
315	ENSMUSG00000023073	Slc10a2	0.335362003	-1.576208858	0.019746701
316	ENSMUSG00000086600	C030005K06Rik	0.279373646	-1.839732163	0.019867521
317	ENSMUSG00000087616	Gm14257	0.227012339	-2.13915738	0.01990983
318	ENSMUSG00000072949	Acot1	0.339016561	-1.560572344	0.020103144
319	ENSMUSG00000037542	Aldh8a1	0.340457886	-1.554451744	0.020204897
320	ENSMUSG00000040134	Rdh7	0.246310345	-2.021450871	0.020206433
321	ENSMUSG00000020681	Ace	0.340424582	-1.554592878	0.020348288
322	ENSMUSG00000020258	Glyctk	0.341118278	-1.551656034	0.020567161
323	ENSMUSG00000001095	Slc13a2	0.341566587	-1.54976124	0.021149024
324	ENSMUSG00000075304	Sp5	0.338035509	-1.564753291	0.021361041
325	ENSMUSG00000022040	Ephx2	0.344612372	-1.536953597	0.021489006
326	ENSMUSG00000109644	0610005C13Rik	0.344165806	-1.538824325	0.021501214
327	ENSMUSG00000100774	Gm7329	0.015456825	-6.015612189	0.021900161
328	ENSMUSG00000027967	Neurog2	0.015608981	-6.001479874	0.021900161
329	ENSMUSG00000048349	Pou4f1	0.015608981	-6.001479874	0.021900161
330	ENSMUSG00000085658	Gm15704	0.015608981	-6.001479874	0.021900161
331	ENSMUSG00000086837	Gm16618	0.015608981	-6.001479874	0.021900161
332	ENSMUSG00000104384	Gm37031	0.015608981	-6.001479874	0.021900161
333	ENSMUSG00000106438	Gm42749	0.015608981	-6.001479874	0.021900161
334	ENSMUSG00000113848	CT572985.3	0.015608981	-6.001479874	0.021900161
335	ENSMUSG00000105747	Igkv13-64	0.015764162	-5.987207751	0.021900161
336	ENSMUSG00000099764	Rps10-ps2	0.015831616	-5.981047639	0.021900161
337	ENSMUSG00000108521	Gm44639	0.015608981	-6.001479874	0.021900161
338	ENSMUSG00000105852	Gm42890	0.01408393	-6.14980621	0.021900161
339	ENSMUSG00000095852	Gm10256	0.014450652	-6.112721637	0.021900161
340	ENSMUSG00000096947	Gm26723	0.015140562	-6.045437451	0.021900161
341	ENSMUSG00000097530	Kansl2-ps	0.015202775	-6.039521522	0.021900161
342	ENSMUSG00000021263	Degs2	0.343264992	-1.542605362	0.02204131
343	ENSMUSG00000067656	Slc22a27	0.17140284	-2.544537081	0.022208097
344	ENSMUSG00000059481	Plg	0.121040247	-3.046441262	0.022208097
345	ENSMUSG00000028179	Cth	0.346319372	-1.529825006	0.022252779
346	ENSMUSG00000056487	Mettl7a2	0.347857408	-1.523432051	0.022673774
347	ENSMUSG00000079501	Gm5138	0.30549956	-1.71075779	0.022755702
348	ENSMUSG00000086929	Gm11788	0.252976554	-1.982924411	0.022886106
349	ENSMUSG00000003623	Crot	0.348340388	-1.521430341	0.022938813
350	ENSMUSG00000097613	Gm17597	0.252125795	-1.987784364	0.023091217

351	ENSMUSG00000110540	Gm45743	0.290470444	-1.783536723	0.023144746
352	ENSMUSG00000029245	Epha5	0.308580757	-1.696279995	0.023179116
353	ENSMUSG00000022235	Cmb1	0.349031617	-1.518570365	0.023197684
354	ENSMUSG00000058385	Hist1h2bg	0.171729715	-2.541788403	0.023239034
355	ENSMUSG00000085192	Gm12195	0.242353621	-2.044814456	0.023294179
356	ENSMUSG00000062170	Fmr1nb	0.214719471	-2.219475072	0.023630413
357	ENSMUSG00000043719	Col6a6	0.214719471	-2.219475072	0.023630413
358	ENSMUSG00000046806	3110062M04Rik	0.338407783	-1.563165345	0.02368038
359	ENSMUSG00000109311	Al314278	0.350288647	-1.513383866	0.023738216
360	ENSMUSG00000063683	Glyat	0.351492183	-1.508435489	0.02394066
361	ENSMUSG00000100750	Gm29084	0.347454787	-1.525102839	0.02404112
362	ENSMUSG00000047719	Ubiad1	0.350584862	-1.512164393	0.024266284
363	ENSMUSG00000068086	Cyp2d9	0.352319282	-1.505044662	0.024287858
364	ENSMUSG00000006345	Ggt1	0.352801588	-1.50307104	0.024354364
365	ENSMUSG00000019894	Slc6a15	0.335340985	-1.576299276	0.024403328
366	ENSMUSG00000000673	Haa0	0.352787197	-1.503129889	0.024532066
367	ENSMUSG00000069456	Rdh16	0.352910002	-1.502627775	0.024644253
368	ENSMUSG00000095388	Gm10681	0.354377093	-1.496642745	0.025009696
369	ENSMUSG00000027605	Acss2	0.354901424	-1.494509731	0.025283156
370	ENSMUSG00000042410	Agps	0.354821855	-1.494833222	0.025461643
371	ENSMUSG00000030498	Gas2	0.355084266	-1.493766659	0.02551142
372	ENSMUSG00000028088	Fmo5	0.354722813	-1.495235978	0.025561748
373	ENSMUSG00000108178	Gm44267	0.314802101	-1.667482926	0.02579325
374	ENSMUSG00000002944	Cd36	0.356009108	-1.490013942	0.025866101
375	ENSMUSG00000064373	Selenop	0.357457483	-1.484156443	0.026109132
376	ENSMUSG00000059602	Syn3	0.356881322	-1.486483697	0.026240243
377	ENSMUSG00000055373	Fut9	0.356815787	-1.486748649	0.026337411
378	ENSMUSG00000101514	Gm5524	0.287783357	-1.796944932	0.026515485
379	ENSMUSG00000089678	Agxt2	0.35697039	-1.486123685	0.026586685
380	ENSMUSG00000011008	Mcoln2	0.312573481	-1.677732712	0.026673066
381	ENSMUSG00000030972	Acsm5	0.357145153	-1.485417553	0.026802757
382	ENSMUSG00000087341	0610040F04Rik	0.347809604	-1.523630323	0.026926478
383	ENSMUSG00000046082	Tmem174	0.359565262	-1.475674447	0.027011339
384	ENSMUSG00000049799	Lrrc19	0.357994447	-1.481990887	0.027116838
385	ENSMUSG00000103711	Tstd1	0.351826553	-1.507063724	0.02729907
386	ENSMUSG00000027870	Hao2	0.36044996	-1.472129108	0.027396719
387	ENSMUSG00000109904	Gm45819	0.294045853	-1.765886953	0.027504091
388	ENSMUSG00000027965	Olfm3	0.331578919	-1.592575807	0.027505846
389	ENSMUSG00000107504	Gm35549	0.248899254	-2.006366187	0.027518336
390	ENSMUSG00000022218	Tgm1	0.355891699	-1.49048981	0.027678686
391	ENSMUSG00000089694	Nat8f7	0.344724185	-1.536485577	0.027761081
392	ENSMUSG00000038072	Galnt11	0.361691776	-1.467167299	0.027901672
393	ENSMUSG00000039438	Ttc36	0.361900487	-1.466335046	0.027909516
394	ENSMUSG00000102234	Gm37885	0.156044349	-2.679971982	0.027969425
395	ENSMUSG00000003476	Crhr2	0.08995127	-3.47471254	0.027969425
396	ENSMUSG00000076589	Igkv8-18	0.246657736	-2.01941756	0.028123146
397	ENSMUSG00000061578	Ksr2	0.349228518	-1.517756721	0.028699664
398	ENSMUSG00000112734	AC153524.4	0.21967497	-2.186557597	0.028743676
399	ENSMUSG00000068587	Mgam	0.360772615	-1.470838262	0.028795684

400	ENSMUSG00000042797	Aqp11	0.3628054	-1.462732167	0.029200189
401	ENSMUSG00000077640	Gm24986	0.226575223	-2.141937989	0.029323086
402	ENSMUSG00000086279	Gm15634	0.226575223	-2.141937989	0.029323086
403	ENSMUSG00000033427	Upb1	0.364618131	-1.455541793	0.029336546
404	ENSMUSG00000097481	D330020A13Rik	0.130272211	-2.940398723	0.029588432
405	ENSMUSG00000076434	Wfdc3	0.130272211	-2.940398723	0.029588432
406	ENSMUSG00000031258	Xkrr	0.130272211	-2.940398723	0.029588432
407	ENSMUSG00000026940	Ccdc183	0.218714999	-2.192875937	0.029721761
408	ENSMUSG00000080893	Gm15920	0.16724729	-2.579945264	0.029721761
409	ENSMUSG00000085885	Gm11906	0.165872584	-2.591852644	0.029721761
410	ENSMUSG00000024386	Proc	0.3661896	-1.449337276	0.029891203
411	ENSMUSG00000025726	Slc28a1	0.358388427	-1.480404045	0.03033443
412	ENSMUSG00000036466	Megf11	0.320657326	-1.640895724	0.030442387
413	ENSMUSG00000025089	Gfra1	0.344954581	-1.535521676	0.030663896
414	ENSMUSG00000055737	Ghr	0.369061896	-1.4380653	0.031035054
415	ENSMUSG00000097239	Gm27029	0.318376589	-1.651193839	0.031061299
416	ENSMUSG00000060314	Zfp941	0.259596242	-1.945658595	0.031232938
417	ENSMUSG00000001755	Coasy	0.369283763	-1.437198265	0.031285749
418	ENSMUSG00000003809	Gedh	0.369745672	-1.435394834	0.031321112
419	ENSMUSG00000023120	Gm853	0.365420638	-1.452369978	0.031533743
420	ENSMUSG00000057766	Ankrd29	0.356121789	-1.489557388	0.031600948
421	ENSMUSG00000076441	Ass1	0.370701489	-1.431670184	0.031629457
422	ENSMUSG00000039682	Lap3	0.370456378	-1.432624423	0.031660094
423	ENSMUSG000000107451	Gm44421	0.346621661	-1.528566282	0.031812997
424	ENSMUSG00000074398	Gm15441	0.352354592	-1.504900077	0.031886188
425	ENSMUSG00000021376	Tpmt	0.370319722	-1.433156712	0.031995405
426	ENSMUSG00000087142	Gm12454	0.303374389	-1.720828797	0.032082603
427	ENSMUSG00000002475	Abhd3	0.369700651	-1.435570511	0.032337322
428	ENSMUSG00000096499	Ighv1-5	0.298809948	-1.742699914	0.032386763
429	ENSMUSG00000043789	Vwce	0.362948597	-1.462162855	0.032880082
430	ENSMUSG00000024646	Cyb5a	0.373897299	-1.419286045	0.033106705
431	ENSMUSG00000035472	Slc25a21	0.363842556	-1.458613802	0.033125648
432	ENSMUSG00000030268	Beat1	0.370153966	-1.433802609	0.033252628
433	ENSMUSG00000038528	Mfsd4b5	0.374048708	-1.418701946	0.033300346
434	ENSMUSG00000025243	Slc6a20b	0.373972049	-1.41899765	0.033353704
435	ENSMUSG00000028189	Ctbs	0.371060576	-1.430273366	0.033865424
436	ENSMUSG00000027597	Ahey	0.376182028	-1.410497169	0.034222986
437	ENSMUSG00000096795	Zfp433	0.312190444	-1.679501717	0.034271036
438	ENSMUSG00000033963	Fancd2os	0.307105634	-1.703193114	0.034271036
439	ENSMUSG00000031303	Map3k15	0.369625706	-1.435863001	0.034574787
440	ENSMUSG00000029650	Slc46a3	0.371871678	-1.42712322	0.034661111
441	ENSMUSG00000053603	4930442H23Rik	0.017205932	-5.860950139	0.034782609
442	ENSMUSG00000080888	Gm14387	0.017476849	-5.838411076	0.034782609
443	ENSMUSG000000111685	AC124577.4	0.01753206	-5.833860698	0.034782609
444	ENSMUSG000000109982	Gm45520	0.018133552	-5.785194634	0.034782609
445	ENSMUSG00000012042	4930579F01Rik	0.018163226	-5.782835746	0.034782609
446	ENSMUSG00000039059	Hrh3	0.018163226	-5.782835746	0.034782609
447	ENSMUSG000000114133	AC153134.1	0.018282898	-5.773361431	0.034782609
448	ENSMUSG00000047641	Krt87	0.018163226	-5.782835746	0.034782609

449	ENSMUSG00000055170	Ifng	0.018163226	-5.782835746	0.034782609
450	ENSMUSG00000072618	Gm10384	0.018163226	-5.782835746	0.034782609
451	ENSMUSG00000085925	Rtl1	0.018163226	-5.782835746	0.034782609
452	ENSMUSG00000085196	Gm14963	0.018163226	-5.782835746	0.034782609
453	ENSMUSG00000087017	4930417H01Rik	0.018163226	-5.782835746	0.034782609
454	ENSMUSG00000086387	Gm15563	0.018163226	-5.782835746	0.034782609
455	ENSMUSG00000111082	AC061963.3	0.018163226	-5.782835746	0.034782609
456	ENSMUSG00000040489	Sox30	0.018163226	-5.782835746	0.034782609
457	ENSMUSG00000113386	AC154903.1	0.016465727	-5.924389992	0.034782609
458	ENSMUSG00000081738	Hmgb1-ps2	0.016688538	-5.904998624	0.034782609
459	ENSMUSG00000086801	Gm15943	0.016840459	-5.891924714	0.034782609
460	ENSMUSG00000061390	Gm7866	0.016738873	-5.900653805	0.034782609
461	ENSMUSG00000052595	Alcf	0.372970734	-1.422865663	0.034817911
462	ENSMUSG00000046352	Gjb2	0.376137323	-1.410668628	0.034925108
463	ENSMUSG00000019787	Trdn	0.243747473	-2.036540832	0.034945041
464	ENSMUSG00000056148	Rdh9	0.297720657	-1.747968769	0.035193135
465	ENSMUSG00000027070	Lrp2	0.378292574	-1.402425637	0.035194509
466	ENSMUSG00000056600	Olfr90	0.319848914	-1.644537512	0.035334578
467	ENSMUSG00000024899	Papss2	0.37929206	-1.398618925	0.035787733
468	ENSMUSG00000015083	C8g	0.372915119	-1.423080807	0.035884909
469	ENSMUSG00000020051	Pah	0.379711543	-1.397024239	0.035894758
470	ENSMUSG00000094930	Igkv6-25	0.36820986	-1.441399833	0.035921808
471	ENSMUSG00000033965	Slc16a2	0.379331408	-1.398469265	0.035984243
472	ENSMUSG00000022002	Erich6b	0.269171554	-1.893402139	0.036252813
473	ENSMUSG00000102425	Gm26616	0.274907722	-1.86298066	0.036252813
474	ENSMUSG00000032047	Acat1	0.380634816	-1.393520568	0.036354778
475	ENSMUSG00000035780	Ugt2a3	0.239816722	-2.059995837	0.036520717
476	ENSMUSG00000055555	4930502E18Rik	0.239816722	-2.059995837	0.036520717
477	ENSMUSG00000042116	Vwa1	0.378699384	-1.400875021	0.036604695
478	ENSMUSG00000000154	Slc22a18	0.381314075	-1.390948309	0.036675448
479	ENSMUSG00000058258	Idi1	0.379378776	-1.398289125	0.037071807
480	ENSMUSG00000019874	Fabp7	0.356141017	-1.489479495	0.03715679
481	ENSMUSG00000023921	Mut	0.381716	-1.389428436	0.037549213
482	ENSMUSG00000024424	Ttc39c	0.379482872	-1.397893324	0.037592387
483	ENSMUSG00000053897	Slc39a8	0.380483032	-1.394095977	0.037641574
484	ENSMUSG00000025903	Lypla1	0.38297849	-1.384664729	0.037823966
485	ENSMUSG00000085787	Gm13092	0.316539194	-1.659543949	0.037881243
486	ENSMUSG00000095143	Hsd3b4	0.383295888	-1.383469573	0.037881535
487	ENSMUSG00000026687	Aldh9a1	0.383677552	-1.382033734	0.037892455
488	ENSMUSG00000081143	Gm15823	0.359056509	-1.477717178	0.038153194
489	ENSMUSG00000036330	Slc18a1	0.382786009	-1.385389994	0.038194157
490	ENSMUSG00000041058	Wwp1	0.382904072	-1.384945094	0.038231714
491	ENSMUSG00000030630	Fah	0.386019402	-1.373254734	0.039077098
492	ENSMUSG00000026156	B3gat2	0.384827458	-1.377716355	0.039133704
493	ENSMUSG00000054986	Sec14l3	0.335260313	-1.576646382	0.039155241
494	ENSMUSG00000069733	Ube2u	0.360561938	-1.471680985	0.039597587
495	ENSMUSG00000108207	1810059H22Rik	0.381157603	-1.39154044	0.039692978
496	ENSMUSG00000097564	C430014B12Rik	0.171782952	-2.54134123	0.039696281
497	ENSMUSG00000070574	2310016G11Rik	0.317651371	-1.65448385	0.039747057

498	ENSMUSG00000090817	Gm4450	0.386971781	-1.36969973	0.03981969
499	ENSMUSG00000038526	Car14	0.386831165	-1.370224063	0.039891151
500	ENSMUSG00000086350	B230369F24Rik	0.278108328	-1.846281147	0.03995467
501	ENSMUSG00000053825	Ppfia2	0.306258997	-1.707175867	0.03995467
502	ENSMUSG00000039809	Gabbr2	0.099824096	-3.324468092	0.039970491
503	ENSMUSG000000103925	B230112G18Rik	0.099824096	-3.324468092	0.039970491
504	ENSMUSG00000081833	Gm13669	0.099824096	-3.324468092	0.039970491
505	ENSMUSG00000087077	Gm12480	0.076160885	-3.714805942	0.039970491
506	ENSMUSG000000105961	Gm42754	0.253781726	-1.978339907	0.040093587
507	ENSMUSG00000031698	Mylk3	0.257813169	-1.955602136	0.040093587
508	ENSMUSG00000021490	Slc34a1	0.388635746	-1.363509491	0.040328754
509	ENSMUSG000000108884	Gm45792	0.361534953	-1.467792963	0.040431312
510	ENSMUSG00000079263	Gm6614	0.321402898	-1.637545157	0.040452122
511	ENSMUSG00000024292	Cyp4f14	0.341612076	-1.549569121	0.040716268
512	ENSMUSG00000047638	Nr1h4	0.388611781	-1.363598457	0.040900133
513	ENSMUSG00000029273	Sult1d1	0.389447149	-1.360500537	0.040936778
514	ENSMUSG00000074071	Fam169b	0.377710863	-1.404645818	0.040989146
515	ENSMUSG00000042251	Pm20d1	0.388783028	-1.362962855	0.041098962
516	ENSMUSG000000104520	Gm37336	0.316858934	-1.658087399	0.04127558
517	ENSMUSG00000028755	Cda	0.391726171	-1.352082576	0.0422133
518	ENSMUSG00000058022	Adtrp	0.391296644	-1.353665359	0.042313835
519	ENSMUSG00000037754	Ppp1r16b	0.390793217	-1.355522669	0.042403839
520	ENSMUSG00000024064	Galnt14	0.390052897	-1.358258307	0.042590464
521	ENSMUSG00000024228	Nudt12	0.387192205	-1.368878186	0.042600732
522	ENSMUSG00000033544	Angptl1	0.256501779	-1.962959265	0.042605988
523	ENSMUSG00000091002	Tcerg1l	0.256501779	-1.962959265	0.042605988
524	ENSMUSG00000064354	mt-Co2	0.393650594	-1.345012438	0.043187508
525	ENSMUSG00000035031	C8a	0.381088003	-1.391803904	0.043255475
526	ENSMUSG000000110755	AC151971.2	0.375369931	-1.413615009	0.043410577
527	ENSMUSG00000025082	Vwa2	0.386217327	-1.372515205	0.043618028
528	ENSMUSG00000015599	Ttbf1	0.364372476	-1.456514109	0.043676496
529	ENSMUSG00000036813	Entpd8	0.377891922	-1.403954417	0.043685209
530	ENSMUSG00000097204	Gm17690	0.357712942	-1.483125779	0.044176692
531	ENSMUSG00000024892	Pcx	0.396249476	-1.335519067	0.044592527
532	ENSMUSG00000099098	1110035H17Rik	0.286979219	-1.800981822	0.0447917
533	ENSMUSG00000081684	Rps2-ps13	0.291513418	-1.778365805	0.0447917
534	ENSMUSG00000060002	Chpt1	0.397296933	-1.33171044	0.045122397
535	ENSMUSG00000079261	Gm15217	0.389948517	-1.35864443	0.045341403
536	ENSMUSG00000002346	Slc25a42	0.396095852	-1.336078501	0.045409408
537	ENSMUSG00000002797	Ggct	0.394291495	-1.342665505	0.045638163
538	ENSMUSG00000076666	Ighv14-4	0.254702005	-1.97311778	0.045651874
539	ENSMUSG00000078808	Vmn1r58	0.246886707	-2.018078933	0.045651874
540	ENSMUSG00000028712	Cyp4a31	0.398137614	-1.32866092	0.045721322
541	ENSMUSG00000024354	Slc23a1	0.398239426	-1.328292039	0.046053993
542	ENSMUSG00000021033	Gstz1	0.399117913	-1.325113066	0.04630905
543	ENSMUSG00000017453	Pipox	0.399445506	-1.323929397	0.046461883
544	ENSMUSG00000086914	Gm16124	0.326726549	-1.613844404	0.046667979
545	ENSMUSG00000031938	4931406C07Rik	0.400359774	-1.320631067	0.046904708
546	ENSMUSG00000021238	Aldh6a1	0.401394569	-1.316906997	0.047574261

547	ENSMUSG00000026730	Pter	0.401519557	-1.316457835	0.047671951
548	ENSMUSG00000076536	Igkv4-86	0.270025439	-1.888832766	0.048036813
549	ENSMUSG00000095442	Ighv1-4	0.270025439	-1.888832766	0.048036813
550	ENSMUSG00000020623	Map2k6	0.3966866	-1.333928431	0.048322593
551	ENSMUSG00000027187	Cat	0.402905334	-1.311487189	0.048351135
552	ENSMUSG00000019232	Etnppl	0.396860032	-1.33329782	0.048874699
553	ENSMUSG00000109478	Gm45111	0.379986757	-1.395978956	0.048894102
554	ENSMUSG00000084111	Gm15710	0.187131963	-2.417872096	0.049335813
555	ENSMUSG00000096954	Gdap10	0.234214614	-2.094096999	0.049335813
556	ENSMUSG00000113581	AL591207.3	0.354609435	-1.495697174	0.049337786
557	ENSMUSG00000028655	Mfsd2a	0.382141001	-1.387823038	0.049703029
558	ENSMUSG00000048281	Dleu7	0.396101099	-1.33605939	0.049900991
