

Table S4. Down-regulated mRNAs in GAS of *db/db* vs. *db/m* mice (FDR <0.05)

Gene ID	Gene Symbol	Type	log2FC	p-value	q-value
232875	Zscan18	mRNA	-0.826080913	9.59E-07	5.30E-06
66136	Znrd1	mRNA	-0.596034343	6.32E-12	5.46E-11
332934	Zmynd12	mRNA	-1.657826899	0.00420446	0.013029457
320158	Zmat4	mRNA	-1.690248377	4.37E-09	3.04E-08
22774	Zic4	mRNA	-2.005750202	0.0160385	0.042261475
103406	Zfr2	mRNA	-0.606606349	1.94E-09	1.39E-08
240038	Zfp994	mRNA	-0.651405753	4.42E-07	2.54E-06
112422	Zfp979	mRNA	-1.108260506	0.00176828	0.005972616
100043914	Zfp968	mRNA	-6.228013806	2.23E-10	1.71E-09
407812	Zfp941	mRNA	-2.590712703	0.00494652	0.015100042
408062	Zfp873	mRNA	-0.7231314	8.26E-04	0.003000075
622675	Zfp827	mRNA	-0.776434506	1.52E-63	4.91E-62
240064	Zfp799	mRNA	-0.610180658	2.98E-27	4.91E-26
353310	Zfp703	mRNA	-0.999033973	6.27E-208	5.30E-206
242109	Zfp697	mRNA	-0.990531622	8.05E-18	9.57E-17
243937	Zfp536	mRNA	-0.853747109	6.82E-07	3.83E-06
328274	Zfp459	mRNA	-1.129320479	1.08E-13	1.04E-12
232969	Zfp428	mRNA	-0.608094781	5.21E-04	0.001962014
22695	Zfp36	mRNA	-0.597628432	8.13E-45	1.96E-43
63872	Zfp296	mRNA	-0.712968453	0.00569142	0.017022059
192651	Zfp286	mRNA	-0.993259258	4.91E-10	3.68E-09
100494	Zfand2a	mRNA	-0.623274486	3.84E-31	6.97E-30
332175	Zdhhc23	mRNA	-1.375036126	8.48E-144	5.12E-142
230738	Zc3h12a	mRNA	-0.714146644	4.43E-12	3.87E-11
72350	Zc2hc1c	mRNA	-0.714095119	3.17E-09	2.23E-08
58206	Zbtb32	mRNA	-0.670566011	0.01820414	0.047082813
229055	Zbtb10	mRNA	-0.697763003	9.53E-35	1.88E-33
58203	Zbp1	mRNA	-1.631935366	3.68E-07	2.12E-06
71970	Zbed5	mRNA	-0.609187388	0.00687915	0.020154675
574437	Xlr3b	mRNA	-0.73338006	0.00681678	0.019988069
228787	Xkr7	mRNA	-1.420787702	3.76E-06	1.94E-05
22437	Xirp1	mRNA	-1.278725375	0	0
327959	Xaf1	mRNA	-0.691094187	3.50E-20	4.58E-19
22419	Wnt5b	mRNA	-1.151729508	8.36E-13	7.66E-12
93735	Wnt16	mRNA	-1.175675204	0.00159861	0.005451919
22410	Wnt10b	mRNA	-0.830663496	0.00545668	0.016430076
330319	Wipf3	mRNA	-0.687509317	5.02E-52	1.37E-50
22393	Wfs1	mRNA	-0.769949618	2.54E-266	2.71E-264
100034251	Wfdc17	mRNA	-1.005750202	0.01564749	0.041424914
76773	Wdyhv1	mRNA	-0.606480019	8.58E-06	4.24E-05
22377	Wbp1	mRNA	-0.622983657	4.02E-41	9.16E-40
100125586	Vmn2r2	mRNA	-2.44271154	2.60E-04	0.001032128
22359	Vldlr	mRNA	-1.245196515	0	0
215031	Vgll2	mRNA	-1.137359022	0	0

13003	Vcan	mRNA	-0.944662891	6.95E-101	3.18E-99
270097	Vat1l	mRNA	-2.119965771	6.67E-45	1.61E-43
22320	Vamp8	mRNA	-0.694208726	1.74E-29	3.04E-28
54651	Usp27x	mRNA	-0.721957236	0.00942466	0.026504507
16470	Ush1g	mRNA	-1.456411611	4.98E-07	2.84E-06
66594	Uqcr1l	mRNA	-0.633362797	4.90E-171	3.44E-169
22256	Ung	mRNA	-1.414862868	6.41E-54	1.79E-52
75089	Uhrf1bp1l	mRNA	-0.71375044	1.31E-101	6.05E-100
22239	Ugt8a	mRNA	-1.885455969	1.49E-28	2.55E-27
216558	Ugp2	mRNA	-0.785232547	0	0
22229	Ucp3	mRNA	-1.105311339	0	0
80914	Uck2	mRNA	-0.77332284	3.34E-78	1.26E-76
22223	Uchl1	mRNA	-0.742715797	8.26E-12	7.08E-11
67196	Ube2t	mRNA	-0.753877903	1.96E-05	9.24E-05
76980	Ube2ql1	mRNA	-1.190782096	2.84E-12	2.52E-11
56791	Ube2l6	mRNA	-0.874887867	2.35E-18	2.86E-17
22190	Ubc	mRNA	-0.666272023	0	0
208080	Ubp1l	mRNA	-0.60398506	1.56E-05	7.44E-05
227620	Uap1l1	mRNA	-0.680683838	2.44E-11	2.02E-10
72962	Tymp	mRNA	-0.728039413	1.10E-04	4.63E-04
50493	Txnrd1	mRNA	-0.787437222	1.82E-284	2.08E-282
23999	Twf2	mRNA	-1.053594947	0	0
71924	Tubel	mRNA	-0.660253636	0.0077301	0.022294349
67951	Tubb6	mRNA	-1.358765975	1.52E-235	1.47E-233
22153	Tubb4a	mRNA	-0.727648348	3.90E-04	0.001504707
22152	Tubb3	mRNA	-0.689066461	4.45E-05	1.99E-04
73710	Tubb2b	mRNA	-0.685288913	2.15E-06	1.14E-05
22151	Tubb2a	mRNA	-0.732933944	5.84E-30	1.04E-28
545486	Tubb1	mRNA	-1.190174773	3.88E-05	1.75E-04
237930	Ttll6	mRNA	-3.005750202	0.01322586	0.035739502
100216474	Ttll2	mRNA	-0.861607678	4.91E-04	0.001858232
319953	Ttll1	mRNA	-0.676314571	2.46E-10	1.88E-09
69480	Ttc9	mRNA	-1.433031297	2.27E-48	5.85E-47
72747	Ttc39c	mRNA	-0.868668458	1.01E-10	7.96E-10
230603	Ttc39a	mRNA	-2.054931252	0.01142809	0.031416964
78802	Ttc30a1	mRNA	-0.698142783	2.76E-07	1.62E-06
264134	Ttc26	mRNA	-0.881557884	2.04E-07	1.21E-06
106763	Ttbk1	mRNA	-2.555947285	2.52E-07	1.48E-06
239364	Tspy15	mRNA	-0.597285357	0.00558458	0.016750857
27027	Tspan32	mRNA	-0.683822107	0.0171236	0.044646297
76927	Tsacc	mRNA	-0.94562921	1.34E-04	5.60E-04
225997	Trpm6	mRNA	-0.729232567	0.00788864	0.022713208
17364	Trpm1	mRNA	-3.249204239	1.06E-30	1.91E-29
277414	Trp53i11	mRNA	-0.717452885	2.30E-38	4.97E-37
108943	Trmt10a	mRNA	-0.934877763	1.09E-08	7.34E-08
433766	Trim63	mRNA	-1.426733009	0	0

666731	Trim43c	mRNA	-0.65908342	3.36E-05	1.53E-04
94094	Trim34a	mRNA	-0.665736981	2.07E-08	1.35E-07
20128	Trim30a	mRNA	-0.640309832	4.67E-11	3.79E-10
94092	Trim16	mRNA	-0.604131067	4.31E-99	1.94E-97
19824	Trim10	mRNA	-1.590712703	0.00663231	0.019521167
211770	Trib1	mRNA	-1.547888405	0	0
328833	Trem12	mRNA	-2.228142624	0.0054336	0.016376703
541610	Treg1	mRNA	-0.798351653	0.00404803	0.012587033
24100	Tpra1	mRNA	-0.915198335	2.60E-145	1.59E-143
59069	Tpm3	mRNA	-1.543479567	0	0
22004	Tpm2	mRNA	-1.032750542	0	0
72749	Tons1	mRNA	-0.60312327	0.00117228	0.004115246
66169	Tomm7	mRNA	-0.633781425	2.16E-18	2.64E-17
68512	Tomm5	mRNA	-0.620513481	1.40E-32	2.63E-31
320159	Togaram2	mRNA	-0.603423755	1.54E-09	1.11E-08
217169	Tns4	mRNA	-1.29525682	0.01724678	0.044910972
21956	Tnnt2	mRNA	-1.04839454	1.34E-05	6.48E-05
21955	Tnnt1	mRNA	-2.122315015	0	0
21952	Tnni1	mRNA	-1.635229506	0	0
21924	Tnncl	mRNA	-2.098732782	0	0
22164	Tnfsf4	mRNA	-2.005750202	0.0160385	0.042261475
69583	Tnfsf13	mRNA	-0.854891491	4.09E-05	1.84E-04
94185	Tnfrsf21	mRNA	-0.642889404	3.16E-59	9.57E-58
29820	Tnfrsf19	mRNA	-1.870639971	3.71E-275	4.01E-273
57916	Tnfrsf13b	mRNA	-0.670566011	0.01820414	0.047082813
27279	Tnfrsf12a	mRNA	-1.346340396	3.71E-194	2.94E-192
66443	Tnfaip811	mRNA	-0.913827713	2.38E-06	1.26E-05
21928	Tnfaip2	mRNA	-0.900440344	8.67E-90	3.57E-88
278279	Tmtc2	mRNA	-0.597352486	2.67E-11	2.20E-10
100034363	Tmsb15b2	mRNA	-3.005750202	0.01322586	0.035739502
666244	Tmsb15b1	mRNA	-4.005750202	0.00549346	0.016509109
19240	Tmsb10	mRNA	-0.901110795	4.40E-11	3.57E-10
320587	Tmem88b	mRNA	-0.694098528	4.92E-08	3.11E-07
213989	Tmem82	mRNA	-1.696812915	1.82E-09	1.31E-08
329909	Tmem61	mRNA	-1.813105124	0.01505816	0.040021749
633640	Tmem267	mRNA	-1.238714249	1.17E-172	8.33E-171
226040	Tmem252	mRNA	-0.793617179	1.33E-05	6.42E-05
234740	Tmem231	mRNA	-0.726852943	5.46E-07	3.10E-06
319832	Tmem229a	mRNA	-1.13614684	3.79E-05	1.71E-04
226351	Tmem185b	mRNA	-0.673174863	7.34E-14	7.16E-13
231832	Tmem184a	mRNA	-1.475235486	1.97E-06	1.05E-05
380863	Tmem171	mRNA	-1.312411541	4.38E-04	0.001672196
381199	Tmem151a	mRNA	-1.760637705	9.39E-04	0.003367729
231503	Tmem150c	mRNA	-0.611471263	0.00569211	0.017022346
70652	Tmem144	mRNA	-0.614171676	2.20E-04	8.87E-04
68487	Tmem140	mRNA	-1.097802619	3.42E-278	3.73E-276

235300	Tmem136	mRNA	-1.228142624	2.28E-22	3.24E-21
208151	Tmem132b	mRNA	-0.6214095	4.46E-14	4.41E-13
229473	Tmem131l	mRNA	-0.699763651	3.49E-53	9.66E-52
230678	Tmem125	mRNA	-3.253677716	7.51E-05	3.25E-04
77462	Tmem116	mRNA	-1.291206625	7.31E-12	6.29E-11
71983	Tmco6	mRNA	-0.671719266	1.11E-13	1.07E-12
81897	Tlr9	mRNA	-0.911113328	3.37E-05	1.54E-04
53791	Tlr5	mRNA	-1.265985975	7.73E-69	2.67E-67
21892	Tlll1	mRNA	-0.642243004	2.27E-04	9.14E-04
74347	Tldc1	mRNA	-0.877561933	3.77E-15	3.93E-14
21857	Timp1	mRNA	-1.640232839	7.84E-28	1.32E-26
30059	Timm10	mRNA	-1.176184001	4.98E-36	1.01E-34
21853	Timeless	mRNA	-0.687579634	7.77E-06	3.86E-05
319801	Tigar	mRNA	-0.695886503	0	0
24001	Tiam2	mRNA	-0.896986171	1.25E-163	8.44E-162
21832	Thpo	mRNA	-1.404846158	2.00E-93	8.52E-92
66198	Them5	mRNA	-3.590712703	0.00105449	0.003740217
21824	Thbd	mRNA	-0.774323761	5.79E-91	2.42E-89
100039796	Tgtp2	mRNA	-1.65933896	3.06E-21	4.18E-20
21822	Tgtp1	mRNA	-0.925925313	4.78E-11	3.87E-10
21815	Tgif1	mRNA	-0.901686341	3.42E-40	7.67E-39
21802	Tgfa	mRNA	-0.795532495	5.94E-04	0.002215078
70920	Tex47	mRNA	-1.228142624	0.00395946	0.012334099
83560	Tex14	mRNA	-0.731430844	0.00690823	0.020229653
17771	Tesmin	mRNA	-0.998137018	1.49E-08	9.87E-08
72016	Tedc2	mRNA	-0.738054419	4.80E-06	2.44E-05
21683	Tecta	mRNA	-1.857227678	1.78E-09	1.28E-08
21679	Tead4	mRNA	-0.883725359	1.54E-64	5.07E-63
399675	Tdpoz4	mRNA	-0.701019653	3.82E-05	1.73E-04
67590	Tctn3	mRNA	-0.672862223	2.41E-09	1.71E-08
69068	Tcim	mRNA	-1.008479206	9.69E-62	3.05E-60
21387	Tbx4	mRNA	-0.833136829	5.02E-13	4.67E-12
21386	Tbx3	mRNA	-0.587386604	2.33E-27	3.84E-26
109575	Tbx10	mRNA	-2.912640798	8.35E-04	0.003030021
21380	Tbx1	mRNA	-1.884071646	3.74E-38	8.01E-37
387514	Tas2r143	mRNA	-1.152591591	0.00992445	0.027743327
21354	Tap1	mRNA	-0.660307178	1.09E-10	8.54E-10
21349	Tal1	mRNA	-0.589523342	8.40E-06	4.16E-05
225895	Taf6l	mRNA	-0.59940275	9.43E-08	5.80E-07
171180	Syt12	mRNA	-0.943325328	5.05E-17	5.78E-16
20975	Synj2	mRNA	-1.275341424	0	0
20964	Syn1	mRNA	-0.71482525	0.00771427	0.022255337
320590	Svop1	mRNA	-0.587128366	3.75E-04	0.001448834
64051	Sv2a	mRNA	-1.344552116	6.11E-04	0.002272002
109115	Supt3	mRNA	-0.682038433	2.04E-20	2.71E-19
243659	Styk1	mRNA	-0.790021511	0.00111555	0.003932764

74732	Stx11	mRNA	-0.890272985	0.00149122	0.005123289
140476	Strc	mRNA	-2.175675204	1.42E-04	5.89E-04
20897	Stra6	mRNA	-2.88021932	3.19E-12	2.81E-11
78806	Stpg1	mRNA	-1.105285876	0.00266797	0.008678575
13830	Stom	mRNA	-0.793887496	3.88E-121	2.06E-119
20262	Stmn3	mRNA	-0.900721356	3.44E-04	0.001339929
16765	Stmn1	mRNA	-1.26354796	1.50E-13	1.44E-12
74051	Steap2	mRNA	-0.620460046	9.18E-04	0.00330119
26938	St6galnac5	mRNA	-1.147598066	1.12E-27	1.88E-26
20607	Sstr3	mRNA	-1.783357781	0.00165037	0.00561193
20605	Sstr1	mRNA	-3.70618992	5.62E-04	0.002106312
76650	Srxn1	mRNA	-1.531650003	0	0
58212	Srrm3	mRNA	-1.844469295	2.31E-10	1.76E-09
277744	Srarp	mRNA	-1.518372469	1.24E-54	3.50E-53
18412	Sqstm1	mRNA	-0.603312489	0	0
640524	Sptbn5	mRNA	-0.685031887	4.59E-15	4.77E-14
20739	Spta1	mRNA	-1.068034481	2.43E-04	9.72E-04
211949	Spsb4	mRNA	-0.867144964	1.63E-08	1.07E-07
14794	Spsb2	mRNA	-0.633781425	1.43E-12	1.29E-11
74646	Spsb1	mRNA	-0.857847757	2.09E-58	6.26E-57
20750	Spp1	mRNA	-2.068034481	1.70E-48	4.38E-47
20732	Spint1	mRNA	-1.638018418	7.55E-04	0.002765938
212514	Spice1	mRNA	-0.743386661	9.03E-18	1.07E-16
20698	Sphk1	mRNA	-0.679150668	5.60E-05	2.47E-04
74288	Spem1	mRNA	-4.005750202	0.00549346	0.016509109
54141	Spag5	mRNA	-0.815527787	2.01E-09	1.44E-08
20682	Sox9	mRNA	-1.366894694	4.43E-37	9.26E-36
20665	Sox10	mRNA	-1.249021353	3.36E-20	4.40E-19
78088	Sowahb	mRNA	-2.912640798	0.01815445	0.046971043
66042	Sostdc1	mRNA	-1.683822107	3.41E-08	2.19E-07
20411	Sorbs1	mRNA	-0.599277985	0	0
12702	Socs3	mRNA	-0.630988661	4.56E-11	3.70E-10
216233	Socs2	mRNA	-1.094393055	5.41E-61	1.68E-59
223920	Soat2	mRNA	-1.10646914	0.01796967	0.046542752
69878	Snrpf	mRNA	-0.60150648	5.46E-08	3.43E-07
20641	Snrpd1	mRNA	-0.660991399	1.77E-07	1.06E-06
20617	Snca	mRNA	-1.124144903	5.53E-09	3.81E-08
30927	Snai3	mRNA	-1.124423504	4.15E-66	1.40E-64
68678	Smtnl1	mRNA	-1.199226087	1.30E-174	9.39E-173
100503915	Smpd5	mRNA	-1.040896765	0.01395708	0.037398481
228608	Smox	mRNA	-1.705544133	0	0
106878	Smim3	mRNA	-0.636782352	2.15E-04	8.66E-04
100042450	Smim17	mRNA	-3.70618992	5.62E-04	0.002106312
654818	Smco3	mRNA	-1.742715797	1.23E-07	7.48E-07
57277	Slurp1	mRNA	-1.384261826	1.17E-04	4.91E-04
20568	Slpi	mRNA	-1.668715215	0.00752861	0.021792301

66402	Sln	mRNA	-1.636882884	3.71E-32	6.87E-31
276950	Slfn8	mRNA	-1.049251841	1.61E-05	7.66E-05
20558	Slfn4	mRNA	-2.544570921	1.38E-18	1.69E-17
20555	Slfn1	mRNA	-1.668715215	1.57E-04	6.47E-04
110895	Slc9a4	mRNA	-1.703721665	5.56E-14	5.46E-13
20539	Slc7a5	mRNA	-1.065016152	2.38E-28	4.06E-27
20538	Slc6a2	mRNA	-0.884734801	4.39E-07	2.52E-06
243616	Slc6a11	mRNA	-2.590712703	0.00494652	0.015100042
232333	Slc6a1	mRNA	-1.035497546	0.00295781	0.009499423
20533	Slc4a1	mRNA	-2.721957236	1.26E-22	1.82E-21
67473	Slc47a1	mRNA	-1.096489105	8.04E-154	5.15E-152
242259	Slc44a5	mRNA	-2.005750202	0.00187872	0.006303816
213053	Slc39a14	mRNA	-0.961103724	4.54E-110	2.23E-108
76257	Slc38a3	mRNA	-0.612315216	1.34E-97	5.95E-96
105727	Slc38a1	mRNA	-1.546858413	1.71E-37	3.61E-36
75288	Slc35f4	mRNA	-0.744066232	7.06E-06	3.52E-05
22784	Slc30a3	mRNA	-3.175675204	0.00701937	0.020503382
20525	Slc2a1	mRNA	-0.74711426	1.63E-26	2.61E-25
243328	Slc29a4	mRNA	-1.529312158	0.00576863	0.017224551
434203	Slc28a1	mRNA	-1.136994736	0.00189123	0.006337724
216441	Slc26a10	mRNA	-0.71047546	1.20E-07	7.31E-07
384071	Slc25a34	mRNA	-0.987208142	8.23E-75	3.01E-73
67554	Slc25a30	mRNA	-1.027123853	2.83E-49	7.42E-48
68267	Slc25a22	mRNA	-1.073404026	4.43E-129	2.45E-127
71803	Slc25a18	mRNA	-0.58715619	1.09E-05	5.33E-05
50799	Slc25a13	mRNA	-0.701969454	5.60E-04	0.002100472
54338	Slc23a2	mRNA	-0.622723098	1.38E-64	4.55E-63
30805	Slc22a4	mRNA	-1.642551635	1.08E-144	6.56E-143
20512	Slc1a3	mRNA	-0.629186851	7.55E-19	9.40E-18
116914	Slc19a2	mRNA	-0.978316972	8.27E-43	1.94E-41
104681	Slc16a6	mRNA	-0.617447749	1.54E-20	2.05E-19
20501	Slc16a1	mRNA	-1.286535793	0	0
277898	Slc15a5	mRNA	-1.307002377	7.23E-73	2.60E-71
57738	Slc15a2	mRNA	-1.855301055	8.63E-44	2.04E-42
114644	Slc13a3	mRNA	-0.898834998	0.01843609	0.047576691
231290	Slc10a4	mRNA	-2.005750202	0.0160385	0.042261475
20493	Slc10a1	mRNA	-0.881878544	7.76E-06	3.85E-05
105439	Slain1	mRNA	-3.813105124	0.01058011	0.029352761
20491	Sla	mRNA	-0.585043953	0.00346853	0.010958949
242627	Skint5	mRNA	-1.66006075	0.01276364	0.034655093
20464	Sim1	mRNA	-2.529312158	9.08E-18	1.08E-16
17691	Sik1	mRNA	-0.919026931	2.68E-201	2.17E-199
20612	Siglec1	mRNA	-0.634835256	2.42E-14	2.43E-13
77803	Shisal2b	mRNA	-2.590712703	0.00494652	0.015100042
232813	Shisa7	mRNA	-1.813105124	0.01505816	0.040021749
271849	Shc4	mRNA	-0.947627824	6.41E-13	5.92E-12

24055	Sh3bp2	mRNA	-1.052202864	1.29E-33	2.48E-32
27371	Sh2d2a	mRNA	-1.398067625	0.01362563	0.036606689
74442	Sgms2	mRNA	-1.087499392	1.51E-24	2.30E-23
20379	Sfrp4	mRNA	-1.840939333	2.79E-31	5.10E-30
20319	Sfrp2	mRNA	-1.213858398	1.02E-18	1.27E-17
66222	Serpina1a	mRNA	-2.497603299	1.32E-156	8.60E-155
20714	Serpina3k	mRNA	-4.912640798	6.76E-05	2.95E-04
68607	Serhl	mRNA	-0.675715665	5.94E-26	9.44E-25
20365	Serfl	mRNA	-0.759456907	5.17E-04	0.001948431
20345	Selplg	mRNA	-0.636516393	1.07E-04	4.51E-04
20339	Sele	mRNA	-1.278768697	0.00678822	0.019920436
67815	Sec14l2	mRNA	-0.729501255	0.00212106	0.007038807
68002	Sdhaf4	mRNA	-0.585780408	5.51E-08	3.46E-07
64136	Sdf2l1	mRNA	-1.299481405	1.52E-14	1.54E-13
64706	Scube1	mRNA	-1.762479051	4.67E-19	5.87E-18
69938	Scrn1	mRNA	-0.911798268	1.07E-11	9.06E-11
100126824	Sco2	mRNA	-0.862028246	8.27E-20	1.07E-18
20271	Scn5a	mRNA	-1.347307104	1.09E-12	9.92E-12
110876	Scn2a	mRNA	-0.761227893	4.42E-14	4.37E-13
268297	Scml4	mRNA	-0.756521596	1.66E-05	7.88E-05
20394	Scg5	mRNA	-2.005750202	0.0160385	0.042261475
20255	Scg3	mRNA	-0.667936977	1.33E-04	5.53E-04
216161	Sbno2	mRNA	-0.631338743	8.15E-55	2.31E-53
381835	Sbk3	mRNA	-1.27468521	1.20E-09	8.78E-09
381836	Sbk2	mRNA	-1.672501066	0	0
20229	Sat1	mRNA	-0.710364363	6.78E-16	7.36E-15
320825	Samd5	mRNA	-0.77436379	1.34E-50	3.58E-49
229011	Samd10	mRNA	-0.67510489	1.28E-11	1.08E-10
20203	S100b	mRNA	-0.913491694	2.54E-08	1.65E-07
20200	S100a6	mRNA	-0.705250273	3.20E-29	5.54E-28
20198	S100a4	mRNA	-1.02253986	4.85E-25	7.46E-24
20196	S100a13	mRNA	-0.60429111	3.44E-08	2.21E-07
20194	S100a10	mRNA	-0.586027933	1.24E-26	2.00E-25
20193	S100a1	mRNA	-0.700216322	1.20E-150	7.59E-149
20192	Ryr3	mRNA	-0.709730278	2.22E-15	2.35E-14
381489	Rxfp1	mRNA	-2.363535219	0.00245262	0.008030722
12399	Runx3	mRNA	-1.175675204	0.01449524	0.038683304
12394	Runx1	mRNA	-1.542313964	1.09E-228	1.01E-226
67775	Rtp4	mRNA	-1.168886038	6.74E-17	7.67E-16
235636	Rtp3	mRNA	-0.693894749	1.41E-08	9.40E-08
72780	Rspo3	mRNA	-2.005750202	3.62E-12	3.18E-11
22092	Rsph1	mRNA	-1.500514894	0.00157561	0.005383287
20147	Rs1	mRNA	-2.005750202	0.00187872	0.006303816
20135	Rrm2	mRNA	-0.717947891	0.00634692	0.018763004
56437	Rrad	mRNA	-2.482485197	8.62E-219	7.65E-217
20090	Rps29	mRNA	-0.897769078	9.22E-49	2.40E-47

19888	Rp1	mRNA	-0.953282782	0.00357359	0.01126021
269695	Rnft2	mRNA	-0.609821526	1.54E-07	9.31E-07
381845	Rnf225	mRNA	-1.005750202	0.00132346	0.004595905
68846	Rnf208	mRNA	-1.536264919	0.00322985	0.01029677
75234	Rnf19b	mRNA	-0.596192588	4.11E-57	1.21E-55
67845	Rnf115	mRNA	-0.627298665	1.80E-124	9.76E-123
81018	Rnf114	mRNA	-0.868631076	4.65E-181	3.48E-179
223970	Rmi2	mRNA	-0.908614169	1.02E-10	8.06E-10
56532	Ripk3	mRNA	-0.725642283	0.00401003	0.012476894
225870	Rin1	mRNA	-0.717180704	2.00E-07	1.19E-06
108653	Rimklb	mRNA	-1.073111627	4.96E-05	2.20E-04
66611	Ribc1	mRNA	-0.692519282	0.00151337	0.005189569
69581	Rhou	mRNA	-1.184858526	4.76E-146	2.92E-144
23912	Rhof	mRNA	-0.902127571	2.10E-07	1.25E-06
212541	Rho	mRNA	-0.805451552	4.48E-05	2.00E-04
69159	Rheb1	mRNA	-0.792346564	0.00488018	0.014915574
71746	Rgl3	mRNA	-0.609232791	1.66E-04	6.83E-04
76438	Rftn1	mRNA	-0.866717927	2.99E-164	2.03E-162
19698	Relb	mRNA	-0.772851514	1.03E-32	1.94E-31
70335	Reep6	mRNA	-0.69225073	1.19E-07	7.24E-07
225362	Reep2	mRNA	-0.712587692	0.0178546	0.046290165
53901	Rcan2	mRNA	-0.988590669	0	0
54720	Rcan1	mRNA	-1.342762298	0	0
237504	Rassf9	mRNA	-1.009602528	8.11E-16	8.75E-15
78748	Rassf10	mRNA	-0.886451274	5.89E-05	2.59E-04
19428	Ras12-9	mRNA	-0.850099332	0.00137777	0.004767967
276952	Ras110b	mRNA	-0.639622304	0.00770515	0.022237868
320292	Rasgef1b	mRNA	-1.0675264	1.85E-08	1.22E-07
56508	Rapgef4	mRNA	-0.676082582	6.67E-12	5.75E-11
110351	Rap1gap	mRNA	-0.589469536	3.20E-10	2.43E-09
57785	Rangrf	mRNA	-0.593784674	1.85E-40	4.17E-39
19385	Ranbp1	mRNA	-0.590712703	8.71E-11	6.90E-10
56089	Ramp3	mRNA	-1.420787702	0.00205173	0.006826696
114714	Rad51c	mRNA	-1.005750202	0.00192237	0.006432448
68708	Rab12	mRNA	-0.637362796	0.00331718	0.010534665
442827	Rab44	mRNA	-1.26354796	2.21E-04	8.91E-04
80718	Rab27b	mRNA	-1.468787917	9.30E-07	5.15E-06
19332	Rab20	mRNA	-0.89079162	1.69E-13	1.61E-12
75767	Rab11fip1	mRNA	-0.972583338	1.85E-04	7.54E-04
110816	Pwp2	mRNA	-0.620022402	5.45E-37	1.14E-35
52118	Pvr	mRNA	-1.137540075	4.55E-94	1.95E-92
329384	Pthr1	mRNA	-0.898834998	3.18E-04	0.001244224
237523	Ptpaq	mRNA	-1.20368958	2.13E-09	1.52E-08
545622	Ptpn3	mRNA	-1.237879691	0	0
19227	Pthlh	mRNA	-0.631354688	4.09E-04	0.00157244
19215	Ptgds	mRNA	-1.278768697	0.00678822	0.019920436

19183	Psmc3ip	mRNA	-0.670566011	0.01820414	0.047082813
16912	Psemb9	mRNA	-0.865892539	2.30E-06	1.22E-05
16913	Psemb8	mRNA	-0.838455457	2.75E-08	1.78E-07
234353	Psd3	mRNA	-0.66375899	0	0
19153	Prx	mRNA	-1.516785074	2.40E-222	2.17E-220
353211	Prune2	mRNA	-2.185395394	0	0
235472	Prtg	mRNA	-0.801478507	2.67E-06	1.40E-05
76453	Prss23	mRNA	-0.864637259	3.48E-147	2.15E-145
228413	Prrg4	mRNA	-0.887105706	0.00179303	0.006042866
333193	Proser3	mRNA	-0.625350706	2.59E-12	2.30E-11
111368	Prn	mRNA	-3.661102031	0.01682252	0.043971942
15468	Prmt2	mRNA	-0.705839794	3.55E-12	3.12E-11
19092	Prkg2	mRNA	-1.426593323	6.36E-07	3.59E-06
101540	Prkd2	mRNA	-0.652626339	9.90E-26	1.56E-24
19075	Prim1	mRNA	-1.005750202	7.01E-05	3.05E-04
225655	Prelid3a	mRNA	-0.987828294	2.39E-07	1.41E-06
77630	Prdm8	mRNA	-0.628757835	2.89E-04	0.001140111
269643	Ppp2r2c	mRNA	-0.972583338	0.00820077	0.023482566
17872	Ppp1r15a	mRNA	-0.772409719	3.26E-60	1.00E-58
21981	Ppp1r13b	mRNA	-0.707882051	4.46E-50	1.18E-48
19041	Ppl	mRNA	-0.812309155	2.65E-37	5.57E-36
327655	Ppip5k1	mRNA	-0.715005423	3.87E-280	4.25E-278
73075	Ppil6	mRNA	-2.327678297	0.0031281	0.010007587
19024	Ppfibp2	mRNA	-0.6564505	1.66E-66	5.62E-65
57349	Ppbp	mRNA	-1.005750202	9.13E-04	0.003286043
19017	Ppargc1a	mRNA	-0.668367561	4.37E-134	2.50E-132
19013	Ppara	mRNA	-1.157753296	4.09E-109	2.00E-107
67895	Ppal	mRNA	-0.603614231	5.13E-34	9.95E-33
18992	Pou3f2	mRNA	-3.590712703	0.00105449	0.003740217
18979	Pon1	mRNA	-3.573434712	8.05E-18	9.57E-17
245841	Polr2h	mRNA	-0.692810891	6.32E-08	3.95E-07
67710	Polr2g	mRNA	-0.649449994	4.13E-22	5.83E-21
64424	Polr1e	mRNA	-0.585211064	1.24E-06	6.76E-06
26447	Poli	mRNA	-0.678204557	3.09E-06	1.61E-05
93843	Pnck	mRNA	-0.641261645	5.03E-19	6.31E-18
18858	Pmp22	mRNA	-1.234089131	0	0
18857	Pmp2	mRNA	-2.34678712	2.33E-11	1.93E-10
29858	Pmm1	mRNA	-0.72784252	2.21E-18	2.69E-17
212933	Pm20d1	mRNA	-1.244716848	1.04E-05	5.07E-05
140571	Plxnb3	mRNA	-1.010551189	5.20E-13	4.83E-12
18823	Plp1	mRNA	-0.866837108	2.98E-15	3.13E-14
67801	Plip	mRNA	-1.110592568	1.42E-20	1.89E-19
216166	Plk5	mRNA	-1.327678297	6.11E-05	2.67E-04
12795	Plk3	mRNA	-0.958665066	7.19E-09	4.91E-08
20620	Plk2	mRNA	-0.611568591	3.35E-22	4.74E-21
66905	Plin3	mRNA	-0.608540687	2.34E-64	7.66E-63

67220	Plekho1	mRNA	-0.888665525	1.88E-77	7.04E-76
211945	Plekhh1	mRNA	-1.147971279	5.28E-26	8.40E-25
217682	Plekhd1	mRNA	-0.884443906	0.00494578	0.015103348
69217	Plekha4	mRNA	-1.263282389	1.29E-64	4.25E-63
433022	Plcx2	mRNA	-0.883373041	3.51E-08	2.25E-07
231507	Plac8	mRNA	-1.268784608	1.09E-04	4.60E-04
18782	Pla2g2d	mRNA	-1.268984969	2.23E-05	1.04E-04
225845	Pla2g16	mRNA	-0.641068303	3.13E-220	2.80E-218
66350	Pla2g12a	mRNA	-0.762826644	1.61E-122	8.59E-121
85031	Pla1a	mRNA	-0.69147568	4.89E-09	3.38E-08
241035	Pkhd1	mRNA	-1.81166315	3.76E-04	0.001452716
18766	Pkdrej	mRNA	-1.234951013	3.46E-20	4.53E-19
69713	Pin4	mRNA	-0.751712905	3.68E-05	1.67E-04
109212	Pimreg	mRNA	-1.058861539	8.17E-05	3.52E-04
223775	Pim3	mRNA	-0.709321288	3.90E-82	1.52E-80
545812	Pilrb2	mRNA	-2.912640798	8.35E-04	0.003030021
231805	Pilra	mRNA	-1.774930421	1.56E-04	6.44E-04
18707	Pik3cd	mRNA	-0.842785253	6.33E-61	1.97E-59
227696	Phyhd1	mRNA	-1.370320076	1.33E-191	1.05E-189
16922	Phyh	mRNA	-0.882852334	0	0
11859	Phox2a	mRNA	-2.327678297	0.01583774	0.041857902
27280	Phlda3	mRNA	-1.196680804	0	0
21664	Phlda1	mRNA	-0.725254826	8.74E-16	9.41E-15
74016	Phf19	mRNA	-1.353673506	5.13E-10	3.83E-09
219132	Phf11d	mRNA	-0.598888301	3.27E-05	1.49E-04
74189	Phactr3	mRNA	-1.184869365	1.63E-07	9.81E-07
382562	Pfn4	mRNA	-1.61061226	3.27E-07	1.89E-06
74183	Perm1	mRNA	-0.978181015	0	0
57028	Pdpx	mRNA	-0.619252512	4.06E-05	1.83E-04
14726	Pdpn	mRNA	-1.082712184	2.95E-21	4.03E-20
382051	Pdp2	mRNA	-1.662017737	4.01E-130	2.25E-128
54132	Pdlim1	mRNA	-1.340471324	6.01E-223	5.45E-221
27273	Pdk4	mRNA	-0.831399652	0	0
23984	Pde10a	mRNA	-0.666934476	8.39E-47	2.10E-45
236899	Pcyt1b	mRNA	-1.045278567	0.00925132	0.02609037
240334	Pcyox11	mRNA	-0.688009904	4.32E-04	0.001652781
66425	Pcp4l1	mRNA	-1.061603437	1.64E-137	9.59E-136
12941	Pcdha5	mRNA	-1.764804556	0.00718282	0.020919726
18511	Pax9	mRNA	-1.683822107	0.0135796	0.036550725
269224	Pask	mRNA	-0.615803684	0.01131538	0.031127743
170736	Parvb	mRNA	-0.716444794	1.22E-220	1.09E-218
230577	Pars2	mRNA	-0.712421874	1.99E-09	1.43E-08
80285	Parp9	mRNA	-0.640094484	2.49E-18	3.03E-17
75735	Pank1	mRNA	-1.572079432	1.25E-238	1.23E-236
233826	Palb2	mRNA	-0.717947891	0.00634692	0.018763004
241656	Pak7	mRNA	-2.420787702	0.00178992	0.006035175

18479	Pak1	mRNA	-0.636988676	3.05E-47	7.66E-46
18602	Padi4	mRNA	-3.005750202	0.01322586	0.035739502
18599	Padi1	mRNA	-3.134703423	3.45E-09	2.43E-08
66768	Pacrgl	mRNA	-0.633433578	6.41E-08	4.01E-07
69310	Pacrg	mRNA	-1.133262928	6.34E-11	5.08E-10
57385	P2ry4	mRNA	-2.074421013	0.00361213	0.011366858
74191	P2ry13	mRNA	-1.316090323	5.18E-05	2.29E-04
94045	P2rx5	mRNA	-0.795543485	6.71E-58	2.00E-56
66431	Oxld1	mRNA	-0.705800477	4.30E-11	3.50E-10
67041	Oxct1	mRNA	-1.322909316	0	0
246257	Ovca2	mRNA	-0.666977591	8.83E-09	5.98E-08
71198	Otud1	mRNA	-2.122933742	0	0
83762	Otof	mRNA	-2.529312158	1.23E-04	5.17E-04
107587	Osr2	mRNA	-0.699647075	0.00142726	0.004923969
74486	Osbpl10	mRNA	-0.598835906	9.82E-26	1.55E-24
74309	Osbp2	mRNA	-0.749410449	1.07E-04	4.51E-04
18392	Orc1	mRNA	-0.686928018	0.00390966	0.012194036
75475	Oplah	mRNA	-0.607457846	3.96E-101	1.82E-99
257947	Olfr543	mRNA	-2.649606392	4.01E-05	1.81E-04
259023	Olfr1055	mRNA	-1.853989141	1.18E-10	9.21E-10
18263	Odc1	mRNA	-1.172887465	0	0
23962	Oasl2	mRNA	-1.219875008	1.78E-28	3.05E-27
231655	Oasl1	mRNA	-0.833569227	0.00285893	0.009226812
246727	Oas3	mRNA	-2.756503397	1.04E-15	1.11E-14
246728	Oas2	mRNA	-1.548892527	8.31E-32	1.53E-30
23960	Oas1g	mRNA	-4.512611965	1.78E-08	1.17E-07
23961	Oas1b	mRNA	-1.192163327	1.11E-04	4.69E-04
246730	Oas1a	mRNA	-1.782007828	1.31E-12	1.18E-11
319888	Oacyl	mRNA	-1.039433329	6.53E-12	5.64E-11
18231	Nxph1	mRNA	-4.175675204	0.00287446	0.009265063
385658	Nxpe3	mRNA	-0.765092229	1.42E-05	6.82E-05
213484	Nudt18	mRNA	-0.895821392	3.29E-48	8.42E-47
74137	Nuak2	mRNA	-0.669722465	3.24E-06	1.68E-05
77976	Nuak1	mRNA	-0.593391093	6.04E-87	2.42E-85
243967	Ntn5	mRNA	-1.562143551	3.56E-05	1.62E-04
57764	Ntn4	mRNA	-0.6981774	5.13E-22	7.19E-21
66617	Ntmt1	mRNA	-0.858334378	5.54E-18	6.66E-17
27528	Nrep	mRNA	-1.062103471	0	0
18124	Nr4a3	mRNA	-2.31639249	0	0
18227	Nr4a2	mRNA	-1.096679169	1.74E-26	2.78E-25
15370	Nr4a1	mRNA	-0.739537626	0	0
13865	Nr2f1	mRNA	-0.728216227	0.01051482	0.029219126
114249	Npnt	mRNA	-0.898310935	8.65E-63	2.76E-61
260305	Nphp4	mRNA	-0.725642283	8.92E-04	0.003216463
237636	Npc1l1	mRNA	-0.626557902	1.07E-09	7.84E-09
18145	Npc1	mRNA	-0.780659239	0	0

225872	Npas4	mRNA	-0.681782843	8.54E-07	4.74E-06
50490	Nox4	mRNA	-0.810199393	5.33E-08	3.36E-07
69564	Nmrk2	mRNA	-2.24605431	0	0
18101	Nmbr	mRNA	-1.166214875	4.59E-05	2.05E-04
235779	Nlrp4g	mRNA	-3.093213044	2.51E-04	0.001001716
97895	Nlrp4f	mRNA	-4.590712703	4.29E-04	0.00164246
216799	Nlrp3	mRNA	-1.210125714	0.00346595	0.01095675
434341	Nlrc5	mRNA	-0.609430074	2.80E-13	2.65E-12
14912	Nkx6-2	mRNA	-0.822262142	0.01737513	0.045212742
66536	Nipsnap3b	mRNA	-0.599124943	5.11E-04	0.001928708
70701	Nipal1	mRNA	-1.683822107	0.0135796	0.036550725
18081	Ninj1	mRNA	-0.599983503	4.28E-22	6.03E-21
18054	Ngp	mRNA	-2.508250543	0.00101876	0.003630114
269116	Nfasc	mRNA	-1.49117703	8.06E-39	1.75E-37
74513	Neto2	mRNA	-2.339379885	1.22E-249	1.24E-247
382913	Neil2	mRNA	-1.859899336	5.84E-06	2.94E-05
68197	Ndufc2	mRNA	-0.623902778	6.50E-97	2.86E-95
75597	Ndufaf2	mRNA	-0.586732852	4.68E-04	0.001778089
17988	Ndrg1	mRNA	-0.586052886	3.06E-63	9.83E-62
14299	Ncs1	mRNA	-0.623159326	3.76E-23	5.51E-22
230822	Ncmap	mRNA	-1.924220317	4.24E-36	8.66E-35
320024	Ncehl	mRNA	-1.211463883	2.26E-184	1.73E-182
17968	Ncam2	mRNA	-1.771284949	0.00838767	0.023961004
93674	Nat8f3	mRNA	-0.926371514	0.01862324	0.047965795
66116	Nat8f1	mRNA	-0.834331013	0.00757541	0.021902629
17961	Nat2	mRNA	-0.838640217	1.45E-04	6.01E-04
244551	Nanos3	mRNA	-1.508250543	0.01880985	0.048377709
17937	Nab2	mRNA	-1.407383275	1.89E-72	6.76E-71
237558	Myrf1	mRNA	-1.693806196	8.47E-04	0.003072281
59006	Myoz2	mRNA	-1.847221725	0	0
242702	Myom3	mRNA	-1.489989252	0	0
17919	Myo5b	mRNA	-0.808834687	4.10E-08	2.61E-07
653016	Mymx	mRNA	-1.29525682	0.01724678	0.044910972
213435	Mylk3	mRNA	-1.826780061	1.99E-06	1.06E-05
216459	Myl6b	mRNA	-0.687407782	3.22E-17	3.72E-16
17897	Myl3	mRNA	-2.396940205	0	0
17906	Myl2	mRNA	-1.700077024	0	0
59310	Myl10	mRNA	-2.207384064	3.96E-04	0.001523362
668940	Myh7b	mRNA	-1.668715215	2.62E-56	7.64E-55
140781	Myh7	mRNA	-1.680089662	0	0
17888	Myh6	mRNA	-1.589608278	1.16E-294	1.35E-292
17882	Myh2	mRNA	-1.664236995	0	0
544791	Myh13	mRNA	-6.953416359	9.54E-16	1.02E-14
77579	Myh10	mRNA	-0.639229682	1.43E-78	5.39E-77
17879	Myh1	mRNA	-0.885098172	0	0
17878	Myf6	mRNA	-0.691942178	6.99E-175	5.07E-173

16918	Mycl	mRNA	-1.601601019	6.61E-12	5.70E-11
17869	Myc	mRNA	-0.815104702	3.07E-30	5.47E-29
17858	Mx2	mRNA	-0.92480587	6.00E-05	2.63E-04
17857	Mx1	mRNA	-2.036842873	1.09E-07	6.66E-07
66175	Mustn1	mRNA	-1.463776918	0	0
17841	Mup2	mRNA	-5.527174749	4.95E-32	9.14E-31
100039177	Mup16	mRNA	-4.540558864	5.55E-04	0.002082466
100039028	Mup11	mRNA	-4.356247449	0.00133382	0.004630767
100039008	Mup10	mRNA	-8.794305417	2.17E-44	5.18E-43
17768	Mthfd2	mRNA	-1.307214195	1.05E-31	1.93E-30
212508	Mtg1	mRNA	-0.59178097	5.88E-22	8.22E-21
67900	Mtftp1	mRNA	-0.742990708	5.17E-77	1.93E-75
17751	Mt3	mRNA	-3.566465157	6.99E-82	2.72E-80
17750	Mt2	mRNA	-2.507095213	0	0
17748	Mt1	mRNA	-1.569088264	4.39E-287	5.03E-285
27361	Msrbl	mRNA	-0.823921743	1.29E-207	1.08E-205
56047	Msln	mRNA	-1.135033219	0.00680496	0.019957451
69774	Ms4a6b	mRNA	-0.768250889	0.00130072	0.004524511
12482	Ms4a1	mRNA	-2.465181821	0.00887662	0.02518912
67840	Mrpl57	mRNA	-0.611697728	9.61E-24	1.43E-22
66047	Mrpl54	mRNA	-0.666483793	1.35E-56	3.96E-55
107733	Mrpl41	mRNA	-0.587482817	6.42E-18	7.70E-17
27393	Mrpl39	mRNA	-0.604595349	2.19E-27	3.62E-26
217038	Mrm1	mRNA	-0.868468615	5.05E-19	6.33E-18
211577	Mrgprf	mRNA	-0.728069021	3.17E-12	2.80E-11
17528	Mpz	mRNA	-2.192290938	0	0
77015	Mpped2	mRNA	-0.906740197	2.70E-07	1.58E-06
68047	Mpnd	mRNA	-0.638935094	1.09E-48	2.84E-47
17480	Mpl	mRNA	-3.70618992	5.62E-04	0.002106312
55951	Mpc1	mRNA	-0.599529907	1.73E-201	1.40E-199
59012	Moxd1	mRNA	-0.849024699	0.00498138	0.015186491
226123	Morn4	mRNA	-0.653847048	5.05E-08	3.19E-07
378462	Morn2	mRNA	-0.744335892	3.17E-08	2.04E-07
233549	Mogat2	mRNA	-0.596167133	1.75E-05	8.31E-05
100040462	Mndal	mRNA	-0.59488856	4.34E-12	3.80E-11
17349	Mlfl	mRNA	-0.595045234	2.14E-150	1.35E-148
380718	Mks1	mRNA	-0.87948643	1.95E-11	1.62E-10
59090	Midn	mRNA	-0.925306093	2.48E-224	2.27E-222
338320	Mia2	mRNA	-1.668715215	1.57E-04	6.47E-04
56615	Mgst1	mRNA	-1.12718833	1.08E-105	5.10E-104
17314	Mgmt	mRNA	-0.67680168	8.88E-08	5.48E-07
215929	Mfsd4b1	mRNA	-1.575390779	6.76E-53	1.86E-51
76574	Mfsd2a	mRNA	-1.298531952	3.69E-04	0.001431011
71306	Mfap31	mRNA	-0.597767461	3.68E-14	3.66E-13
668178	Mettl7a3	mRNA	-2.374518551	1.73E-05	8.19E-05
79565	Mettl27	mRNA	-0.624395829	1.23E-04	5.17E-04

433294	Mettl21c	mRNA	-0.961461942	3.79E-231	3.56E-229
17299	Mettl1	mRNA	-0.634080212	1.47E-16	1.65E-15
210029	Metrn1	mRNA	-0.601995836	1.55E-12	1.39E-11
70083	Metrn	mRNA	-0.710960917	2.51E-58	7.53E-57
17259	Mef2b	mRNA	-2.144146522	1.06E-06	5.81E-06
67279	Med31	mRNA	-0.735385864	5.29E-07	3.01E-06
17449	Mdh1	mRNA	-0.651101493	0	0
66815	Mcub	mRNA	-0.824303331	5.55E-04	0.002082312
17225	Mcpt2	mRNA	-0.711180223	3.33E-05	1.51E-04
17196	Mbp	mRNA	-1.713823245	0	0
17189	Mb	mRNA	-1.62484953	0	0
218518	Marveld2	mRNA	-1.559348532	5.04E-22	7.06E-21
17357	Marcks11	mRNA	-0.673174863	0.00225531	0.007449416
225724	Mapk4	mRNA	-0.603651759	0.00475775	0.014570535
26414	Mapk10	mRNA	-1.427213971	2.19E-06	1.16E-05
26410	Map3k8	mRNA	-0.761172277	2.25E-08	1.47E-07
17754	Map1a	mRNA	-0.711229062	3.01E-211	2.60E-209
17153	Mal	mRNA	-1.498899937	6.08E-36	1.23E-34
54634	Magix	mRNA	-0.72536223	2.37E-47	5.98E-46
17136	Mag	mRNA	-1.028118015	1.49E-06	8.05E-06
17135	Mafk	mRNA	-0.649667587	6.36E-54	1.78E-52
17133	Maff	mRNA	-1.404299579	3.78E-57	1.12E-55
16658	Mafb	mRNA	-0.683881663	1.36E-95	5.92E-94
66591	Mad211bp	mRNA	-0.593995287	1.27E-21	1.76E-20
17110	Lyz1	mRNA	-1.281979483	6.03E-30	1.07E-28
23936	Lynx1	mRNA	-1.051081048	0	0
17069	Ly6e	mRNA	-0.585633876	3.44E-87	1.38E-85
100041546	Ly6c2	mRNA	-2.271219919	3.16E-14	3.15E-13
17067	Ly6c1	mRNA	-0.624575969	3.11E-83	1.22E-81
110454	Ly6a	mRNA	-0.956366201	1.84E-120	9.68E-119
17002	Ltf	mRNA	-5.398067625	1.91E-06	1.02E-05
16988	Lst1	mRNA	-1.465181821	0.00890563	0.025245515
211187	Lrtm2	mRNA	-2.030412257	2.71E-14	2.72E-13
192734	Lrrc75b	mRNA	-1.12122742	0.00467356	0.014339946
240899	Lrrc52	mRNA	-1.783854491	3.85E-39	8.44E-38
272381	Lrrc4b	mRNA	-0.853747109	0.00793739	0.022827525
102747	Lrrc49	mRNA	-0.876763762	4.49E-14	4.44E-13
16977	Lrrc23	mRNA	-4.70618992	2.30E-04	9.25E-04
74249	Lrrc2	mRNA	-0.770117416	4.90E-208	4.16E-206
16975	Lrp8	mRNA	-1.388219839	4.76E-06	2.42E-05
74354	Lrguk	mRNA	-1.944349658	0.00108966	0.003852941
64899	Lpin3	mRNA	-0.957623824	3.28E-27	5.39E-26
64898	Lpin2	mRNA	-0.884443906	3.12E-36	6.41E-35
381338	Lonrf2	mRNA	-0.894104847	7.20E-07	4.04E-06
244421	Lonrf1	mRNA	-0.6604092	2.42E-64	7.90E-63
108168771	LOC10816877	mRNA	-1.08636676	9.36E-13	8.56E-12

108167952	LOC10816795 mRNA	-1.796647952	1.52E-04	6.26E-04
108167694	LOC10816769 mRNA	-0.803728355	0.00797567	0.022922833
108167340	LOC10816734 mRNA	-0.598629469	0.01635689	0.042948309
105245043	LOC10524504 mRNA	-1.683822107	0.0135796	0.036550725
101055758	LOC10105575 mRNA	-2.39035266	7.49E-05	3.24E-04
101055676	LOC10105567 mRNA	-0.962082479	6.84E-04	0.002526974
100862043	LOC10086204 mRNA	-1.190886454	0.01243984	0.033883722
100861615	LOC10086161 mRNA	-1.334610722	3.19E-04	0.001248313
100041599	LOC10004159 mRNA	-0.649190864	5.26E-06	2.67E-05
16917	Lmx1b mRNA	-1.083752714	0.00659819	0.019433538
320502	Lmod3 mRNA	-0.757614673	5.67E-137	3.29E-135
93677	Lmod2 mRNA	-1.424533551	0	0
30937	Lmcd1 mRNA	-1.570604243	0	0
235402	Lingo1 mRNA	-1.025115527	2.51E-07	1.47E-06
75660	Lin37 mRNA	-0.6852651	6.80E-19	8.47E-18
18726	Lilra6 mRNA	-1.16895407	4.18E-04	0.001604754
269788	Lhfp14 mRNA	-0.918326633	1.21E-05	5.87E-05
329252	Lgr6 mRNA	-0.748974787	6.20E-05	2.71E-04
243914	Lgi4 mRNA	-0.696608262	1.61E-12	1.45E-11
56839	Lgil mRNA	-1.304408518	1.06E-22	1.53E-21
107753	Lgals2 mRNA	-3.590712703	0.00105449	0.003740217
16847	Lepr mRNA	-0.706461674	2.14E-06	1.13E-05
69757	Leng1 mRNA	-0.724750894	7.13E-12	6.14E-11
624866	Lekr1 mRNA	-0.931749621	1.50E-04	6.19E-04
259301	Leap2 mRNA	-0.606654247	3.01E-04	0.001183222
52815	Ldhd mRNA	-0.849460908	4.80E-106	2.28E-104
16832	Ldhb mRNA	-1.773370469	0	0
16816	Lcat mRNA	-1.187953534	2.69E-04	0.001065838
16815	Lbx2 mRNA	-2.327678297	6.45E-04	0.00238948
67557	Larp6 mRNA	-1.138562031	9.36E-16	1.01E-14
16782	Lamc2 mRNA	-1.377926487	4.88E-27	7.96E-26
16763	Lad1 mRNA	-2.005750202	0.0160385	0.042261475
16691	Krt8 mRNA	-2.570534821	9.98E-12	8.51E-11
16669	Krt19 mRNA	-0.979754994	0.00262789	0.008559216
16668	Krt18 mRNA	-2.564481161	1.03E-32	1.94E-31
76464	Kn11 mRNA	-1.079570436	0.00436786	0.013490421
317653	Klk14 mRNA	-3.327678297	0.00372732	0.01169002
239743	Klhl6 mRNA	-0.661102031	0.00116744	0.004099237
72330	Klhl40 mRNA	-1.251412852	0	0
245683	Klhl34 mRNA	-1.772100722	2.27E-159	1.50E-157
242785	Klhl21 mRNA	-0.686539767	0	0
66720	Klhl10 mRNA	-0.672125269	2.42E-07	1.42E-06
12224	Klf5 mRNA	-0.606685394	6.37E-26	1.01E-24
118445	Klf16 mRNA	-0.84939133	9.97E-15	1.02E-13
16580	Kifc5b mRNA	-0.658737186	0.0194563	0.049912027
16578	Kif9 mRNA	-0.687220684	0.00578893	0.017281612

16574	Kif5c	mRNA	-2.061603437	1.24E-27	2.07E-26
16571	Kif4	mRNA	-0.853747109	0.01537522	0.040780397
269152	Kif26b	mRNA	-0.694076541	3.77E-37	7.90E-36
110033	Kif22	mRNA	-0.852002554	1.32E-04	5.50E-04
16560	Kif1a	mRNA	-1.629059015	2.97E-74	1.08E-72
286942	Kif19a	mRNA	-1.217254308	1.40E-10	1.09E-09
228421	Kif18a	mRNA	-0.887913712	2.93E-04	0.001156631
16551	Kif11	mRNA	-0.993166817	1.29E-05	6.26E-05
13992	Khdrbs3	mRNA	-0.919988414	3.76E-28	6.38E-27
106931	Kctd1	mRNA	-0.723426625	1.32E-10	1.03E-09
240595	Kcnv2	mRNA	-0.841119501	6.67E-04	0.002467223
16529	Kcnk5	mRNA	-1.765669782	1.24E-33	2.38E-32
16525	Kcnk1	mRNA	-0.756390733	8.04E-04	0.00292727
80906	Kcnip2	mRNA	-1.155071514	7.55E-06	3.76E-05
16494	Kcna6	mRNA	-0.752984132	5.18E-08	3.27E-07
16485	Kcna1	mRNA	-0.622421563	8.31E-20	1.08E-18
16477	Junb	mRNA	-0.860829207	1.37E-46	3.41E-45
16476	Jun	mRNA	-0.86670787	0	0
16452	Jak2	mRNA	-0.615854021	4.34E-135	2.51E-133
56357	Ivd	mRNA	-0.680740921	1.36E-238	1.33E-236
634882	Itih5l-ps	mRNA	-0.833863685	2.99E-08	1.93E-07
320910	Itgb8	mRNA	-1.035497546	2.78E-09	1.96E-08
16420	Itgb6	mRNA	-0.677854756	2.37E-154	1.52E-152
16407	Itgae	mRNA	-1.283485658	8.51E-05	3.65E-04
217738	Ism2	mRNA	-1.228142624	0.00395946	0.012334099
320563	Islr2	mRNA	-0.704194951	4.80E-07	2.74E-06
57444	Isg20	mRNA	-0.604009526	0.00532959	0.016110926
100038882	Isg15	mRNA	-0.877523275	0.00205018	0.006824676
16373	Irx3	mRNA	-1.621088197	1.54E-132	8.74E-131
384783	Irs2	mRNA	-1.080105621	0	0
16391	Irf9	mRNA	-0.661596189	1.18E-13	1.14E-12
54123	Irf7	mRNA	-1.735829411	3.93E-56	1.14E-54
27056	Irf5	mRNA	-0.796155055	1.46E-22	2.10E-21
16364	Irf4	mRNA	-1.044669192	4.05E-12	3.55E-11
108960	Irak2	mRNA	-0.642581241	3.36E-31	6.12E-30
16336	Insl3	mRNA	-3.777635781	0.01183677	0.03243597
170835	Inpp5j	mRNA	-2.264484471	1.32E-67	4.52E-66
114663	Impa2	mRNA	-0.713932896	6.96E-10	5.16E-09
100039795	Ildr2	mRNA	-0.73903545	3.14E-13	2.96E-12
16186	Il2rg	mRNA	-0.772653081	1.46E-06	7.91E-06
60504	Il21r	mRNA	-2.327678297	0.01583774	0.041857902
107527	Il1rl2	mRNA	-1.106780123	7.49E-20	9.72E-19
16182	Il18r1	mRNA	-1.771284949	0.00838767	0.023961004
16168	Il15	mRNA	-0.722624379	7.47E-15	7.70E-14
16164	Il13ra1	mRNA	-0.774124501	3.69E-10	2.79E-09
16159	Il12a	mRNA	-0.605964787	9.29E-10	6.82E-09

22781	Ikzf4	mRNA	-0.625719153	8.74E-04	0.003158638
60440	Iigp1	mRNA	-0.847646909	1.25E-21	1.73E-20
226438	Igfn1	mRNA	-3.68275252	0	0
319765	Igf2bp2	mRNA	-0.883386121	1.11E-15	1.18E-14
16000	Igf1	mRNA	-0.877830892	6.20E-124	3.35E-122
12589	Ift81	mRNA	-0.761597262	3.82E-08	2.44E-07
81896	Ift122	mRNA	-0.879423719	3.50E-65	1.16E-63
66141	Ifitm3	mRNA	-0.808274129	9.72E-60	2.97E-58
667370	Ifit3b	mRNA	-1.482055045	2.50E-31	4.57E-30
15959	Ifit3	mRNA	-1.401860057	2.80E-23	4.13E-22
15953	Ifi47	mRNA	-1.253677716	1.04E-09	7.65E-09
99899	Ifi44	mRNA	-1.785968994	1.10E-08	7.35E-08
70110	Ifi35	mRNA	-0.856073233	1.34E-26	2.17E-25
65972	Ifi30	mRNA	-0.752404367	1.37E-25	2.14E-24
623121	Ifi213	mRNA	-2.360628719	1.38E-09	1.00E-08
236312	Ifi209	mRNA	-2.506552255	1.31E-08	8.73E-08
102639543	Ifi206	mRNA	-1.70618992	0.0014942	0.005132937
15951	Ifi204	mRNA	-0.609532462	7.06E-08	4.39E-07
15950	Ifi203	mRNA	-0.729861918	9.16E-21	1.23E-19
15939	Ier5	mRNA	-1.014658255	1.00E-69	3.49E-68
15930	Ido1	mRNA	-2.398067625	3.73E-04	0.00144419
269951	Idh2	mRNA	-0.788932651	0	0
50723	Icosl	mRNA	-0.623879567	1.11E-04	4.67E-04
70375	Ica11	mRNA	-0.647767392	3.22E-10	2.44E-09
330723	Htra4	mRNA	-2.384653036	8.67E-55	2.45E-53
15505	Hsph1	mRNA	-0.632369072	1.22E-95	5.32E-94
15528	Hspe1	mRNA	-0.793804568	1.47E-46	3.65E-45
80888	Hspb8	mRNA	-1.161549128	0	0
29818	Hspb7	mRNA	-1.263716862	0	0
243912	Hspb6	mRNA	-1.180053777	0	0
15507	Hspb1	mRNA	-0.966115713	0	0
18415	Hspa4l	mRNA	-0.971997579	6.53E-35	1.29E-33
15512	Hspa2	mRNA	-0.976063025	7.97E-40	1.77E-38
15511	Hspa1b	mRNA	-2.73448495	1.28E-282	1.44E-280
193740	Hspa1a	mRNA	-2.402165951	0	0
15519	Hsp90aa1	mRNA	-0.662926993	7.10E-65	2.34E-63
15493	Hsd3b2	mRNA	-3.912640798	1.61E-04	6.61E-04
66255	Hsbp1l1	mRNA	-1.019296734	1.46E-05	6.99E-05
15466	Hrh2	mRNA	-0.755771949	0.00513943	0.015609284
15460	Hr	mRNA	-1.302633515	0	0
15451	Hpn	mRNA	-0.837195933	1.52E-14	1.54E-13
242642	Hpd1	mRNA	-1.196081414	6.80E-06	3.40E-05
15394	Hoxa1	mRNA	-1.005750202	0.01287859	0.0349084
67432	Hoga1	mRNA	-0.590712703	6.97E-04	0.002568269
15368	Hmox1	mRNA	-0.87580403	1.30E-27	2.16E-26
232210	Hmces	mRNA	-0.807066208	2.79E-09	1.97E-08

15277	Hk2	mRNA	-1.072370274	0	0
15077	Hist2h3c1	mRNA	-7.283363073	5.16E-19	6.45E-18
319192	Hist2h2aa2	mRNA	-0.872215888	1.27E-23	1.88E-22
100041230	Hist1h4m	mRNA	-0.64390263	2.43E-04	9.71E-04
319160	Hist1h4k	mRNA	-1.219894097	0.00772958	0.022295054
319150	Hist1h3b	mRNA	-0.749434744	0.01639692	0.043002817
319188	Hist1h2bp	mRNA	-1.270165839	1.19E-17	1.41E-16
319168	Hist1h2ah	mRNA	-4.025452117	0.00511381	0.01554285
319173	Hist1h2af	mRNA	-1.07613953	5.93E-05	2.60E-04
54426	Hgfaf	mRNA	-3.327678297	0.00372732	0.01169002
234219	Helt	mRNA	-0.963930027	9.67E-04	0.003460621
15166	Hcn2	mRNA	-1.050979456	1.03E-14	1.05E-13
15162	Hck	mRNA	-0.700895621	0.0120277	0.032872242
80885	Hcar2	mRNA	-1.404299579	4.70E-07	2.69E-06
15200	Hbegf	mRNA	-0.920020328	8.30E-89	3.40E-87
101488143	Hbb-bt	mRNA	-0.60116973	5.16E-49	1.35E-47
14841	Haspin	mRNA	-1.305310484	0.00386056	0.012062275
226243	Habp2	mRNA	-0.599757843	7.95E-04	0.00289716
667803	H2-T-ps	mRNA	-0.943799862	0.0025205	0.008236257
15042	H2-T24	mRNA	-0.782681055	1.75E-22	2.51E-21
15040	H2-T23	mRNA	-0.640645482	5.15E-13	4.79E-12
15019	H2-Q8	mRNA	-1.127934785	1.79E-08	1.18E-07
15018	H2-Q7	mRNA	-0.620392351	9.99E-09	6.73E-08
110557	H2-Q6	mRNA	-0.638715473	4.53E-04	0.001725746
15015	H2-Q4	mRNA	-0.747830031	8.51E-29	1.46E-27
14991	H2-M3	mRNA	-0.920861305	9.64E-06	4.72E-05
100042944	H2allh	mRNA	-4.339173936	0.00143963	0.004963682
100042922	H2allh	mRNA	-2.833913587	9.84E-05	4.18E-04
74533	Gzfl	mRNA	-0.587766623	4.56E-56	1.32E-54
107999	Gtpbp6	mRNA	-0.709685332	4.53E-15	4.71E-14
14869	Gstp2	mRNA	-0.589301622	5.76E-92	2.42E-90
68312	Gstm7	mRNA	-0.997137072	1.04E-07	6.39E-07
14857	Gsta1	mRNA	-4.32165451	9.16E-15	9.39E-14
14816	Grm1	mRNA	-1.537385853	1.04E-25	1.64E-24
14813	Grin2c	mRNA	-1.872483671	1.70E-07	1.02E-06
14802	Gria4	mRNA	-1.218401591	3.93E-04	0.001515963
268527	Greb1	mRNA	-1.100907435	1.51E-05	7.23E-05
56149	Grasp	mRNA	-0.622893109	1.15E-11	9.73E-11
546134	Gramd2	mRNA	-1.022428943	8.89E-05	3.81E-04
26913	Gprin1	mRNA	-1.240215456	0.00190861	0.006391541
93746	Gprec5d	mRNA	-1.465181821	0.00890563	0.025245515
232431	Gprec5a	mRNA	-0.863397279	2.06E-09	1.47E-08
237716	Gpr75	mRNA	-0.638213755	0.00601411	0.017874759
171469	Gpr37l1	mRNA	-0.590712703	0.011638	0.031936542
14761	Gpr27	mRNA	-1.454726757	3.69E-05	1.67E-04
76206	Gpr165	mRNA	-1.70618992	1.00E-04	4.26E-04

269604	Gpr157	mRNA	-0.589794144	1.90E-202	1.55E-200
240239	Gpr151	mRNA	-0.657826899	0.00252552	0.008250805
70713	Gpr137c	mRNA	-0.662923768	1.50E-09	1.08E-08
14719	Got2	mRNA	-0.648798158	0	0
14718	Got1	mRNA	-0.992660132	0	0
14714	Gnrh1	mRNA	-0.848208925	2.49E-04	9.92E-04
26384	Gnpda1	mRNA	-0.598637477	1.97E-23	2.90E-22
14710	Gngt2	mRNA	-0.590712703	0.011638	0.031936542
14695	Gnb3	mRNA	-1.499289675	4.41E-09	3.06E-08
57441	Gmnn	mRNA	-0.957921677	1.73E-04	7.08E-04
673676	Gm9602	mRNA	-0.955190338	5.76E-04	0.002154897
670593	Gm9495	mRNA	-1.129175437	9.83E-15	1.01E-13
100862348	Gm9295	mRNA	-1.697358735	3.66E-04	0.001417684
667977	Gm8909	mRNA	-0.993042097	7.60E-08	4.72E-07
626858	Gm6713	mRNA	-1.814229156	1.32E-05	6.36E-05
625424	Gm6583	mRNA	-0.668715215	0.0108586	0.029987749
545007	Gm5796	mRNA	-4.65995658	2.97E-04	0.001169951
432555	Gm5431	mRNA	-0.654814041	0.00138167	0.004780327
237412	Gm4924	mRNA	-1.234045389	1.26E-10	9.87E-10
108168971	Gm46866	mRNA	-2.005750202	0.0160385	0.042261475
108168953	Gm46858	mRNA	-1.932508734	0.00310175	0.009933117
108168373	Gm46617	mRNA	-1.520323375	0.01037186	0.028857809
108168358	Gm46608	mRNA	-0.675474468	3.12E-04	0.001221617
108168219	Gm46500	mRNA	-0.898834998	0.00234591	0.007721398
108168084	Gm46415	mRNA	-0.82887244	0.01689043	0.044109723
108168067	Gm46403	mRNA	-0.595068118	0.00107244	0.003798779
108168049	Gm46390	mRNA	-0.588627582	0.00791195	0.02276903
108167827	Gm46238	mRNA	-0.71846825	3.46E-05	1.57E-04
108167752	Gm46175	mRNA	-2.742715797	1.22E-07	7.40E-07
108167434	Gm45988	mRNA	-1.853902258	5.21E-14	5.12E-13
107303348	Gm45935	mRNA	-0.605109181	0.01641639	0.043046092
108168395	Gm45871	mRNA	-0.619103931	0.01401759	0.037546753
108168162	Gm43305	mRNA	-0.680286204	2.23E-07	1.32E-06
105247240	Gm42372	mRNA	-2.734759073	0.00235208	0.007736454
105246807	Gm42031	mRNA	-0.885954186	0.00111472	0.003930293
105244831	Gm40367	mRNA	-6.819274892	1.40E-14	1.42E-13
105244826	Gm40363	mRNA	-1.969463997	3.66E-05	1.66E-04
105244063	Gm39743	mRNA	-1.192181222	3.89E-04	0.001500408
105243585	Gm39469	mRNA	-7.629265944	3.83E-23	5.60E-22
105242467	Gm38717	mRNA	-1.29525682	3.71E-05	1.68E-04
105242418	Gm38690	mRNA	-0.691267651	8.23E-11	6.53E-10
100042295	Gm3776	mRNA	-6.015634791	3.48E-09	2.44E-08
108168884	Gm37500	mRNA	-1.677661123	2.69E-04	0.001066639
100042065	Gm3646	mRNA	-2.590712703	0.00494652	0.015100042
100041874	Gm3558	mRNA	-0.960604827	1.90E-10	1.46E-09
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666329	Gm3317	mRNA	-0.814495138	9.41E-04	0.003373135
102635694	Gm32966	mRNA	-0.761219381	5.04E-07	2.87E-06
102635181	Gm32584	mRNA	-0.791625397	0.0166536	0.043589304
100041262	Gm3239	mRNA	-0.773563667	5.12E-05	2.27E-04
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100041012	Gm3095	mRNA	-1.061749026	0.00882949	0.025083616
100040935	Gm3050	mRNA	-4.018318876	0.00524867	0.015887841
102631909	Gm30124	mRNA	-1.359928644	0.00262697	0.008557207
105245668	Gm26650	mRNA	-0.878604922	0.016853	0.04403575
105246320	Gm26637	mRNA	-0.721613778	0.00945434	0.026580263
100039830	Gm2446	mRNA	-0.98708076	4.79E-08	3.03E-07
100039441	Gm2237	mRNA	-0.628346813	6.26E-12	5.41E-11
100862383	Gm21693	mRNA	-3.653164212	1.04E-15	1.12E-14
100861909	Gm21320	mRNA	-6.089096556	1.28E-129	7.14E-128
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100041146	Gm15448	mRNA	-2.987960889	4.53E-04	0.001726988
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101055907	Gm15246	mRNA	-0.700934195	0.00405303	0.012599887
100038909	Gm14548	mRNA	-1.155581945	0.00131147	0.004559198
102639598	Gm14296	mRNA	-0.83086271	6.34E-17	7.23E-16
623781	Gm14137	mRNA	-5.083847625	2.16E-05	1.01E-04
620695	Gm13889	mRNA	-1.0485864	6.00E-32	1.11E-30
620913	Gm12185	mRNA	-0.75952422	1.21E-04	5.09E-04
545637	Gm11758	mRNA	-4.307337849	0.00165631	0.005627858
623272	Gm11757	mRNA	-4.801724897	1.33E-04	5.55E-04
100043456	Gm10681	mRNA	-0.66736108	1.75E-09	1.26E-08
100038847	Gm10406	mRNA	-0.815336469	0.01000263	0.027929588
216456	Gls2	mRNA	-1.135033219	0.00680496	0.019957451
14659	Glrp1	mRNA	-3.465181821	0.0019812	0.006613633
384009	Glipr2	mRNA	-1.031812499	5.71E-17	6.52E-16
14632	Gli1	mRNA	-0.939322841	6.22E-08	3.89E-07
235379	Gldn	mRNA	-1.886168587	1.99E-17	2.32E-16
14619	Gjb2	mRNA	-1.268784608	0.0143786	0.038414442
14618	Gjb1	mRNA	-1.26354796	2.21E-04	8.91E-04
78833	Gins3	mRNA	-0.787109916	0.01246287	0.033935323
14588	Gfra4	mRNA	-0.670147171	0.00729659	0.021204259
233537	Gdpd4	mRNA	-3.005750202	0.01322586	0.035739502
14566	Gdf9	mRNA	-0.656445451	4.84E-05	2.15E-04
14563	Gdf5	mRNA	-1.268784608	0.00271969	0.008825046
14559	Gdf1	mRNA	-11.96878857	4.56E-158	2.99E-156
14630	Gclm	mRNA	-0.707930884	4.73E-38	1.01E-36
14629	Gclc	mRNA	-0.61862047	1.45E-27	2.42E-26
103988	Gck	mRNA	-0.980290217	2.14E-74	7.79E-73
14528	Gch1	mRNA	-0.758092267	3.20E-11	2.63E-10
26912	Gcat	mRNA	-0.983656431	3.78E-25	5.84E-24

236573	Gbp9	mRNA	-0.669271583	7.56E-23	1.10E-21
229900	Gbp7	mRNA	-1.25558151	1.01E-40	2.29E-39
100702	Gbp6	mRNA	-1.216368668	2.66E-48	6.84E-47
229898	Gbp5	mRNA	-0.871300003	7.06E-08	4.40E-07
17472	Gbp4	mRNA	-0.928635631	2.23E-31	4.09E-30
55932	Gbp3	mRNA	-1.077118399	1.12E-24	1.71E-23
14469	Gbp2	mRNA	-0.593915135	2.37E-08	1.54E-07
634650	Gbp11	mRNA	-3.711728104	5.45E-04	0.002047402
626578	Gbp10	mRNA	-1.181471988	3.47E-30	6.18E-29
74185	Gbe1	mRNA	-0.848047064	5.53E-209	4.73E-207
67092	Gatm	mRNA	-0.753856354	1.29E-16	1.45E-15
237436	Gas2l3	mRNA	-0.713127553	1.24E-10	9.68E-10
68147	Gar1	mRNA	-1.02367211	3.71E-14	3.69E-13
14430	Galt	mRNA	-0.659631892	2.53E-40	5.69E-39
108150	Galnt7	mRNA	-1.125037775	1.53E-84	6.05E-83
241391	Galnt5	mRNA	-0.590712703	0.011638	0.031936542
53897	Gal3st1	mRNA	-1.101965518	4.36E-04	0.00166843
73748	Gad1l	mRNA	-0.699310497	2.61E-43	6.15E-42
23882	Gadd45g	mRNA	-0.626800003	2.28E-35	4.57E-34
13197	Gadd45a	mRNA	-0.977671339	7.33E-57	2.15E-55
57436	Gabarapl1	mRNA	-1.000139242	1.42E-168	9.85E-167
14365	Fzd3	mRNA	-0.600493724	4.93E-06	2.50E-05
93897	Fzd10	mRNA	-0.912640798	2.87E-04	0.001135983
57780	Fxyd7	mRNA	-0.872483671	0.0037605	0.01178008
59095	Fxyd6	mRNA	-0.711302844	5.37E-59	1.62E-57
18301	Fxyd5	mRNA	-1.06300752	7.98E-23	1.16E-21
17178	Fxyd3	mRNA	-1.893275473	4.70E-05	2.10E-04
69064	Fuom	mRNA	-0.745611113	4.90E-22	6.87E-21
319636	Fsd1l	mRNA	-0.766304464	1.83E-49	4.81E-48
20378	Frzb	mRNA	-0.606464369	1.52E-17	1.79E-16
20321	Frrs1	mRNA	-0.705870737	8.34E-12	7.14E-11
242506	Frmd3	mRNA	-1.058861539	8.17E-05	3.52E-04
329934	Foxo6	mRNA	-1.162824285	2.85E-24	4.29E-23
15227	Foxf1	mRNA	-1.229104741	0.0039372	0.012271337
17301	Foxd2	mRNA	-1.125049131	3.12E-04	0.001222769
15229	Foxd1	mRNA	-2.064643891	3.98E-04	0.001531767
14283	Fosl1	mRNA	-7.382179513	4.09E-20	5.34E-19
14282	Fosb	mRNA	-1.782774048	2.76E-65	9.17E-64
14281	Fos	mRNA	-1.39694096	3.07E-173	2.20E-171
320116	Fndc9	mRNA	-1.215203568	0.00330419	0.010497434
384061	Fndc5	mRNA	-1.339008783	0	0
54418	Fmn2	mRNA	-1.251506617	1.91E-10	1.47E-09
68794	Flnc	mRNA	-1.231112404	0	0
216805	Flcn	mRNA	-0.722162809	1.79E-204	1.48E-202
14201	Fhl3	mRNA	-0.835209439	0	0
14200	Fhl2	mRNA	-0.824303331	2.22E-09	1.58E-08

14199	Fhl1	mRNA	-0.992602111	0	0
14191	Fgr	mRNA	-0.742715797	0.00313888	0.01003654
14190	Fgl2	mRNA	-2.043408854	0	0
234199	Fgl1	mRNA	-3.813105124	0.01058011	0.029352761
14181	Fgfbp1	mRNA	-0.781937106	2.80E-12	2.48E-11
14174	Fgf3	mRNA	-3.175675204	0.00701937	0.020503382
80903	Fgf16	mRNA	-1.88021932	0.0017862	0.006027907
235180	Fez1	mRNA	-1.390015353	6.15E-27	1.00E-25
68165	Fdx11	mRNA	-0.640113636	2.57E-25	3.98E-24
80891	Fcrls	mRNA	-1.084407146	5.17E-12	4.49E-11
14129	Fcgr1	mRNA	-1.8277519	8.02E-11	6.38E-10
67141	Fbxo5	mRNA	-1.045239574	0.00608276	0.018058447
230903	Fbxo44	mRNA	-0.78826427	3.02E-15	3.17E-14
67731	Fbxo32	mRNA	-0.982093975	0	0
68099	Fam92a	mRNA	-0.588110908	1.44E-05	6.94E-05
69640	Fam83g	mRNA	-1.118565774	4.81E-19	6.03E-18
56279	Fam69b	mRNA	-1.989985621	1.14E-25	1.79E-24
69134	Fam25c	mRNA	-3.813105124	0.01058011	0.029352761
68223	Fam24a	mRNA	-1.259506795	0.00567646	0.01698605
69894	Fam241b	mRNA	-0.712018999	0.00290348	0.009340453
235634	Fam240a	mRNA	-4.175675204	0.00287446	0.009265063
66337	Fam229b	mRNA	-0.638967872	0.01442571	0.038529639
74855	Fam228a	mRNA	-0.800431294	0.00162347	0.005525982
68948	Fam216a	mRNA	-0.950359547	3.96E-09	2.76E-08
100504156	Fam181a	mRNA	-1.908453001	4.43E-10	3.33E-09
381337	Fam178b	mRNA	-2.20368958	7.14E-11	5.70E-10
320557	Fam169a	mRNA	-1.263293344	7.14E-06	3.56E-05
217705	Fam161b	mRNA	-1.20696583	4.82E-12	4.20E-11
58909	Fam13a	mRNA	-0.903040355	9.02E-109	4.36E-107
277743	Fam131c	mRNA	-1.19839528	9.34E-04	0.003353181
100037278	Fam129c	mRNA	-0.615374757	3.06E-04	0.001200185
328035	Fads6	mRNA	-1.084684086	1.34E-45	3.28E-44
101831	Faap24	mRNA	-0.849631	2.07E-05	9.72E-05
338521	Fa2h	mRNA	-2.161869404	5.75E-38	1.23E-36
14067	F5	mRNA	-0.926396386	0.00565018	0.016917872
14063	F2rl1	mRNA	-0.900780643	9.92E-05	4.21E-04
277978	Exoc3l	mRNA	-1.069412709	4.40E-12	3.84E-11
14017	Evi2a	mRNA	-0.71205962	4.27E-14	4.23E-13
101488212	Evi2	mRNA	-3.444861837	1.92E-45	4.68E-44
59056	Evc	mRNA	-0.845459138	5.23E-63	1.67E-61
26381	Esrrg	mRNA	-0.850639414	0	0
26380	Esrrb	mRNA	-1.62873231	4.80E-90	1.98E-88
78943	Ern1	mRNA	-0.683635121	1.58E-61	4.94E-60
13867	Erbb3	mRNA	-1.434935534	1.88E-44	4.52E-43
13850	Ephx2	mRNA	-0.697197273	2.91E-48	7.46E-47
13807	Eno2	mRNA	-0.7937398	4.71E-08	2.99E-07

246707	Emilin2	mRNA	-0.878031761	3.94E-41	8.97E-40
13723	Emb	mRNA	-0.774795767	1.70E-08	1.12E-07
74559	Elov17	mRNA	-1.901914391	3.94E-08	2.52E-07
207393	Elfn2	mRNA	-1.683822107	0.0135796	0.036550725
13710	Elf3	mRNA	-0.676442577	0.00913817	0.025813925
218268	Eif4e1b	mRNA	-2.944349658	3.19E-05	1.46E-04
98878	Ehd4	mRNA	-0.816789544	8.99E-157	5.85E-155
13655	Egr3	mRNA	-1.398067625	6.71E-11	5.37E-10
13653	Egr1	mRNA	-0.759151435	2.53E-48	6.50E-47
13636	Efna1	mRNA	-0.604046394	1.37E-18	1.69E-17
27984	Efhd2	mRNA	-0.737883801	8.46E-33	1.60E-31
66793	Efcab1	mRNA	-2.813105124	0.00151571	0.005196065
13614	Edn1	mRNA	-0.607990694	2.03E-05	9.53E-05
245527	Eda2r	mRNA	-1.322604005	0	0
13601	Ecm1	mRNA	-0.939254007	3.49E-118	1.80E-116
230857	Ece1	mRNA	-0.658225655	8.12E-280	8.89E-278
329659	E130311K13R	mRNA	-0.703922044	3.22E-06	1.67E-05
240672	Dusp5	mRNA	-1.09689809	6.84E-08	4.26E-07
75219	Dusp18	mRNA	-1.962035384	0	0
252864	Dusp15	mRNA	-1.465181821	1.29E-19	1.66E-18
71916	Dus4l	mRNA	-0.604259235	1.72E-06	9.24E-06
435391	Dupd1	mRNA	-1.224346056	6.46E-93	2.74E-91
209200	Dtx3l	mRNA	-0.629529952	8.68E-36	1.76E-34
109620	Dsp	mRNA	-1.683822107	0.0135796	0.036550725
13497	Drp2	mRNA	-1.266580643	7.76E-158	5.07E-156
13488	Drd1	mRNA	-1.047570378	0.01121751	0.030881946
26757	Dpysl4	mRNA	-1.728216227	3.06E-04	0.001200836
69740	Dph5	mRNA	-0.635376339	2.85E-09	2.01E-08
226162	Dpcd	mRNA	-0.59389395	2.13E-08	1.39E-07
76829	Dok5	mRNA	-1.388147943	7.95E-18	9.46E-17
60425	Doc2g	mRNA	-0.749911298	0.00817955	0.023432216
81489	Dnajb1	mRNA	-1.056802868	6.79E-51	1.83E-49
58233	Dnaja4	mRNA	-0.926044046	3.75E-218	3.31E-216
13417	Dnah8	mRNA	-0.593367157	1.48E-05	7.08E-05
73712	Dmkn	mRNA	-1.683822107	0.0135796	0.036550725
66349	Dmac2	mRNA	-0.625692696	9.03E-59	2.72E-57
80861	Dhx58	mRNA	-0.683822107	0.00350206	0.011055235
70451	Dhrs13	mRNA	-1.102611742	8.81E-05	3.77E-04
192970	Dhrs11	mRNA	-0.747369656	1.23E-48	3.19E-47
213393	Depp1	mRNA	-1.264775163	1.17E-145	7.13E-144
234311	Ddx60	mRNA	-0.606480019	8.58E-06	4.24E-05
320209	Ddx11	mRNA	-0.754211435	2.57E-05	1.19E-04
13199	Ddn	mRNA	-3.178554117	5.96E-23	8.67E-22
74747	Ddit4	mRNA	-1.520038229	0	0
13123	Cyp7b1	mRNA	-0.826780061	0.01050094	0.029184762
13113	Cyp3a13	mRNA	-2.508250543	0.00101876	0.003630114

545817	Cyp2w1	mRNA	-1.912640798	0.00907944	0.025668018
13107	Cyp2f2	mRNA	-2.305933144	2.77E-29	4.81E-28
13106	Cyp2e1	mRNA	-1.186747073	2.97E-147	1.84E-145
76884	Cyfp2	mRNA	-1.312222826	5.15E-71	1.82E-69
12145	Cxcr5	mRNA	-0.813105124	0.01528851	0.040572666
55985	Cxcl13	mRNA	-1.434593501	0.00116444	0.004090435
15945	Cxcl10	mRNA	-1.083752714	8.78E-04	0.0031699
14825	Cxcl1	mRNA	-1.912640798	0.00907944	0.025668018
13051	Cx3cr1	mRNA	-0.704369485	0.00233955	0.007705287
13048	Cux2	mRNA	-1.520665206	3.52E-88	1.43E-86
77996	Cutal	mRNA	-1.590712703	0.00370547	0.011630297
65969	Cubn	mRNA	-0.766562538	0.01011204	0.028216061
13024	Ctla2a	mRNA	-0.62494575	1.04E-08	6.98E-08
107869	Cth	mRNA	-0.725642283	8.92E-04	0.003216463
73720	Cst6	mRNA	-0.711951745	3.24E-25	5.02E-24
13009	Csrp3	mRNA	-0.970634615	2.04E-126	1.12E-124
215418	Csrnp1	mRNA	-1.321555083	3.83E-63	1.23E-61
12960	Crybb1	mRNA	-0.612407774	0.00176078	0.005950076
12959	Cryba4	mRNA	-2.465181821	0.00887662	0.02518912
12955	Cryab	mRNA	-0.894339617	0	0
12933	Crmp1	mRNA	-1.420787702	0.00205173	0.006826696
57914	Crlf2	mRNA	-0.72744904	9.04E-12	7.72E-11
114570	Crip3	mRNA	-1.439923131	9.36E-14	9.08E-13
76737	Creld2	mRNA	-0.810770036	1.03E-13	9.93E-13
102278	Cpne7	mRNA	-1.163291479	0.01199209	0.032785723
93721	Cpn1	mRNA	-3.529312158	6.64E-06	3.32E-05
12877	Cpeb1	mRNA	-1.303542604	0	0
12869	Cox8b	mRNA	-0.600808418	3.92E-289	4.51E-287
12866	Cox7a2	mRNA	-0.621938232	3.53E-83	1.38E-81
12865	Cox7a1	mRNA	-0.956856542	1.39E-209	1.20E-207
110323	Cox6b1	mRNA	-0.59537408	1.16E-233	1.11E-231
12862	Cox6a2	mRNA	-0.606297734	3.26E-250	3.34E-248
84682	Cox4i2	mRNA	-0.644868473	0.00582113	0.017360765
216961	Coro6	mRNA	-0.624380416	8.01E-305	9.77E-303
107684	Coro2a	mRNA	-0.622120327	0.00116296	0.004086499
67426	Coq8a	mRNA	-0.746252159	0	0
12850	Coq7	mRNA	-0.648100185	2.18E-33	4.16E-32
67876	Coq10b	mRNA	-0.613279535	6.62E-22	9.24E-21
210582	Coq10a	mRNA	-0.951135392	0	0
66200	Commd6	mRNA	-0.607731287	6.18E-09	4.24E-08
12840	Col9a2	mRNA	-1.683822107	0.0135796	0.036550725
665033	Col6a5	mRNA	-0.786791882	0.01227154	0.033481905
71355	Col24a1	mRNA	-0.951102806	3.49E-29	6.04E-28
12821	Col17a1	mRNA	-0.627802022	1.06E-04	4.47E-04
68185	Coa4	mRNA	-0.70903267	9.44E-07	5.22E-06
12803	Cntf	mRNA	-1.531847156	1.54E-16	1.73E-15

12799	Cnp	mRNA	-0.674731371	1.08E-31	1.99E-30
83674	Cnnm1	mRNA	-1.620460046	2.64E-05	1.22E-04
245684	Cnksr2	mRNA	-1.132383641	1.87E-12	1.68E-11
194231	Cnksr1	mRNA	-0.894983706	0	0
12790	Cnga3	mRNA	-1.135033219	0.00680496	0.019957451
70031	Cmtm8	mRNA	-0.848510461	3.91E-06	2.01E-05
102545	Cmtm7	mRNA	-0.780876791	6.54E-18	7.83E-17
67272	Cmtm5	mRNA	-1.713824897	5.89E-08	3.69E-07
17228	Cma1	mRNA	-0.631005409	2.01E-05	9.46E-05
74438	Clvs1	mRNA	-1.428028031	6.75E-04	0.002493783
12759	Clu	mRNA	-1.09447022	0	0
224796	Clic5	mRNA	-0.589495465	0	0
69454	Clic3	mRNA	-1.964091051	1.14E-05	5.56E-05
73324	Clhc1	mRNA	-2.163594174	6.21E-04	0.002306228
56620	Clec4n	mRNA	-0.709336326	2.16E-06	1.15E-05
70809	Clec2g	mRNA	-0.769585631	0.01340835	0.0361384
12738	Cldn2	mRNA	-2.12122742	0.00937274	0.026387925
242653	Cldn19	mRNA	-1.349158025	4.72E-26	7.51E-25
217887	Clba1	mRNA	-1.048818924	4.03E-04	0.001549926
76722	Ckmt2	mRNA	-1.133969382	0	0
12683	Cidea	mRNA	-1.440687259	2.54E-06	1.34E-05
214901	Chtf18	mRNA	-0.700895621	0.0120277	0.032872242
11449	Chrng	mRNA	-4.807943419	9.40E-66	3.15E-64
11447	Chrnd	mRNA	-2.776486533	5.90E-122	3.14E-120
11435	Chrna1	mRNA	-0.817575471	5.42E-68	1.86E-66
66371	Chmp4c	mRNA	-0.598705494	3.68E-04	0.001424035
12661	Chl1	mRNA	-0.822525881	1.22E-08	8.15E-08
81600	Chia1	mRNA	-2.005750202	0.0160385	0.042261475
50883	Chek2	mRNA	-0.599676518	0.0018939	0.006345957
218865	Chdh	mRNA	-0.755138194	2.26E-08	1.47E-07
214685	Chadl	mRNA	-0.63213263	4.57E-04	0.001739116
68567	Cgref1	mRNA	-0.657113929	1.00E-06	5.54E-06
18636	Cfp	mRNA	-0.644774437	2.23E-10	1.71E-09
11537	Cfd	mRNA	-2.90618758	0	0
243538	Cfap100	mRNA	-0.892539592	1.50E-07	9.09E-07
71903	Ces2f	mRNA	-0.822905525	0.00320121	0.010221196
234671	Ces2c	mRNA	-2.430533381	9.16E-19	1.14E-17
234564	Ces1f	mRNA	-2.060197986	2.02E-07	1.20E-06
545975	Cers3	mRNA	-3.005750202	0.01322586	0.035739502
381644	Cep135	mRNA	-0.604584878	4.73E-08	3.00E-07
69928	Cenps	mRNA	-1.912640798	2.24E-04	9.03E-04
70454	Cenpl	mRNA	-0.617679751	0.01426359	0.038138761
12615	Cenpa	mRNA	-1.041425034	5.03E-10	3.76E-09
66338	Cdrt4	mRNA	-2.005750202	0.0160385	0.042261475
12578	Cdkn2a	mRNA	-3.465181821	0.0019812	0.006613633
71091	Cdkl1	mRNA	-1.217254308	0.00133629	0.004638803

12571	Cdk6	mRNA	-0.595654508	8.15E-14	7.93E-13
78334	Cdk19	mRNA	-0.616404477	4.55E-161	3.03E-159
104010	Cdh22	mRNA	-1.159701568	2.59E-13	2.45E-12
12556	Cdh16	mRNA	-2.440763268	5.79E-13	5.36E-12
12550	Cdh1	mRNA	-2.135033219	1.12E-17	1.32E-16
12521	Cd82	mRNA	-1.244668521	2.35E-71	8.30E-70
11801	Cd51	mRNA	-3.005750202	0.01322586	0.035739502
333883	Cd59b	mRNA	-0.759548078	3.24E-13	3.05E-12
13136	Cd55	mRNA	-0.604005016	1.05E-119	5.50E-118
21939	Cd40	mRNA	-0.975376553	0.00559677	0.016785678
246746	Cd300lf	mRNA	-3.255701131	1.21E-06	6.62E-06
12487	Cd28	mRNA	-1.044430671	4.14E-09	2.89E-08
70192	Cd209g	mRNA	-1.221241361	0.00145612	0.005012781
69142	Cd209f	mRNA	-1.109576068	3.07E-07	1.78E-06
12481	Cd2	mRNA	-1.384261826	0.00644164	0.019011073
68891	Cd177	mRNA	-2.327678297	0.0031281	0.010007587
12772	Ccr2	mRNA	-0.666107982	3.32E-05	1.51E-04
20307	Ccl8	mRNA	-0.737816997	0.0016138	0.005495632
56838	Ccl28	mRNA	-0.806716796	7.68E-06	3.82E-05
20296	Ccl2	mRNA	-0.704369485	0.00233955	0.007705287
73332	Ccdc30	mRNA	-1.43966969	0.00155067	0.00530495
67082	ccdc198	mRNA	-0.832058286	8.88E-26	1.40E-24
75973	Ccdc162	mRNA	-0.729963889	1.42E-10	1.11E-09
67119	Ccdc159	mRNA	-1.21220108	1.89E-04	7.68E-04
227933	Ccdc148	mRNA	-2.093213044	0.0032178	0.010262846
67736	Ccdc130	mRNA	-0.594288157	9.47E-11	7.48E-10
76872	Ccdc116	mRNA	-1.121271792	8.55E-04	0.00309651
109857	Cbr3	mRNA	-0.846271988	0.00165307	0.005618146
12409	Cbr2	mRNA	-1.799633553	0	0
12391	Cav3	mRNA	-0.603439548	1.80E-64	5.91E-63
329954	Catsper4	mRNA	-0.946043956	2.67E-06	1.40E-05
212670	Catsper2	mRNA	-0.617452551	2.70E-11	2.23E-10
241112	Catip	mRNA	-2.813105124	1.03E-04	4.35E-04
12363	Casp4	mRNA	-0.933600417	5.79E-04	0.002166517
12364	Casp12	mRNA	-1.382526774	1.98E-53	5.50E-52
320662	Casp1	mRNA	-0.970984784	0.00993889	0.0277777016
12319	Car8	mRNA	-0.61343278	5.12E-05	2.27E-04
215303	Camk1g	mRNA	-1.327678297	0.00458947	0.014107307
75600	Calml4	mRNA	-0.712457975	4.83E-05	2.15E-04
260299	Cadm4	mRNA	-1.329172544	5.06E-30	8.99E-29
94332	Cadm3	mRNA	-0.684839642	7.95E-35	1.57E-33
319734	Cacna2d4	mRNA	-2.430085446	3.80E-64	1.24E-62
12287	Cacna1b	mRNA	-1.165563888	0.00137107	0.004746472
73660	Cabp4	mRNA	-1.005750202	0.00337779	0.010708394
73287	Cabcoco1	mRNA	-2.327678297	0.01583774	0.041857902
97130	C77080	mRNA	-0.823734216	3.90E-17	4.48E-16

12268	C4b	mRNA	-0.760705328	1.16E-159	7.69E-158
625018	C4a	mRNA	-0.60265284	3.28E-06	1.70E-05
75697	C2cd4b	mRNA	-2.854632469	0.00204307	0.006802573
12263	C2	mRNA	-0.852825553	1.71E-10	1.32E-09
319772	C130050O18R	mRNA	-0.666766943	7.37E-05	3.19E-04
12223	Btc	mRNA	-0.590712703	0.01854539	0.047803488
72014	Btbd17	mRNA	-0.931749621	0.01649372	0.043239098
69550	Bst2	mRNA	-0.797292329	1.52E-12	1.37E-11
12162	Bmp7	mRNA	-1.602685345	5.68E-11	4.57E-10
11799	Birc5	mRNA	-1.357437441	1.72E-04	7.05E-04
12122	Bid	mRNA	-1.456411611	1.16E-12	1.06E-11
382427	Best3	mRNA	-0.670253091	4.81E-69	1.66E-67
67621	Bend5	mRNA	-0.935360874	0.01358384	0.036509632
380785	Begain	mRNA	-1.005750202	0.00109882	0.003881097
71911	Bdh1	mRNA	-2.807488996	0	0
170752	Bco2	mRNA	-2.398067625	3.73E-04	0.00144419
12029	Bcl6b	mRNA	-0.799299325	1.60E-29	2.79E-28
12048	Bcl2l1	mRNA	-0.610315107	1.86E-138	1.09E-136
12043	Bcl2	mRNA	-0.982293978	1.52E-111	7.54E-110
76960	Bcas1	mRNA	-1.262658505	3.41E-09	2.40E-08
232406	BC035044	mRNA	-0.959354053	0.00278305	0.009009977
666584	BC024063	mRNA	-0.997746068	2.94E-04	0.001160435
242248	Bank1	mRNA	-1.093213044	0.00966165	0.027105315
207495	Baiap2l2	mRNA	-0.71470142	7.53E-07	4.21E-06
66898	Baiap2l1	mRNA	-0.713913071	4.45E-04	0.00169668
232987	B9d2	mRNA	-0.989337112	1.25E-17	1.47E-16
53625	B3gnt2	mRNA	-0.613130169	3.62E-16	3.98E-15
93961	B3galt5	mRNA	-1.683822107	0.0135796	0.036550725
54218	B3galt4	mRNA	-0.811102771	3.50E-06	1.81E-05
381914	B230311B06R	mRNA	-1.183288388	4.04E-06	2.07E-05
54375	Azin1	mRNA	-1.189899761	0	0
11983	Atpif1	mRNA	-0.652782122	1.96E-18	2.39E-17
11979	Atp7b	mRNA	-2.465181821	0.00887662	0.02518912
11958	Atp5k	mRNA	-0.747396422	2.26E-27	3.73E-26
11938	Atp2a2	mRNA	-1.703418679	0	0
11931	Atp1b1	mRNA	-1.43748887	0	0
107503	Atf5	mRNA	-0.721978449	3.18E-105	1.50E-103
11910	Atf3	mRNA	-1.171131279	5.31E-93	2.26E-91
11484	Aspa	mRNA	-0.940161861	3.62E-13	3.41E-12
17173	Ascl2	mRNA	-1.308312972	0.00185571	0.006234188
76294	Asb5	mRNA	-0.59473798	1.11E-269	1.19E-267
545260	Arsi	mRNA	-1.715807923	4.00E-53	1.11E-51
74100	Arpp21	mRNA	-1.250220724	7.09E-81	2.74E-79
76813	Armc6	mRNA	-0.586718248	6.57E-15	6.78E-14
80981	Arl4d	mRNA	-0.929029758	5.31E-19	6.64E-18
213649	Arhgef19	mRNA	-0.972583338	0.00820077	0.023482566

11838	Arc	mRNA	-1.474813583	1.01E-19	1.30E-18
381823	Apold1	mRNA	-1.108843695	5.55E-17	6.34E-16
223672	Apol9a	mRNA	-2.670801817	4.21E-09	2.93E-08
239552	Apol8	mRNA	-2.228142624	0.0054336	0.016376703
328563	Apol11b	mRNA	-2.359387157	1.83E-07	1.09E-06
328561	Apol10b	mRNA	-0.644010929	8.64E-05	3.71E-04
11815	Apod	mRNA	-0.695200329	1.02E-63	3.30E-62
11803	Aplp1	mRNA	-0.618727079	0.00541974	0.01634767
30878	Apln	mRNA	-0.71999572	6.23E-06	3.13E-05
11785	Apbb1	mRNA	-0.598457936	2.90E-20	3.81E-19
237940	Aoc2	mRNA	-0.716549635	1.69E-08	1.12E-07
56642	Ankrd2	mRNA	-1.961011888	0	0
382543	Ankfn1	mRNA	-1.672012805	1.18E-13	1.14E-12
109676	Ank2	mRNA	-0.626789374	0	0
11717	Ampd3	mRNA	-1.03858314	8.85E-149	5.53E-147
245847	Amdhd2	mRNA	-0.600582947	9.00E-12	7.69E-11
100041585	Amd2	mRNA	-1.18865702	0	0
11702	Amd1	mRNA	-0.910756905	0	0
56009	Alyref2	mRNA	-0.72456845	0.00532295	0.016095062
11647	Alpl	mRNA	-0.910425243	2.96E-48	7.59E-47
11690	Alox5ap	mRNA	-0.736429534	1.00E-11	8.56E-11
11686	Alox12b	mRNA	-2.70618992	0.00274348	0.008894261
11676	Aldoc	mRNA	-1.475235486	7.71E-04	0.002815938
72535	Aldh1b1	mRNA	-0.754942099	0.00387219	0.012093406
19378	Aldh1a2	mRNA	-1.972583338	1.47E-50	3.92E-49
56454	Aldh18a1	mRNA	-0.838985542	5.29E-27	8.62E-26
11656	Alas2	mRNA	-0.586211311	3.45E-18	4.18E-17
11641	Akap2	mRNA	-0.814268094	2.05E-234	1.97E-232
78801	Ak7	mRNA	-0.965108218	0.01779498	0.046156227
231872	Aimp2	mRNA	-0.600004151	1.15E-179	8.50E-178
66253	Aigl	mRNA	-0.792459988	1.21E-25	1.90E-24
108897	Aif1l	mRNA	-2.369884857	1.88E-172	1.33E-170
11629	Aif1	mRNA	-2.093213044	0.0032178	0.010262846
100041194	Ahnak2	mRNA	-0.862130674	6.45E-158	4.22E-156
244071	Agbl1	mRNA	-1.195474844	4.71E-225	4.35E-223
11593	Aga	mRNA	-0.592029632	8.43E-10	6.21E-09
11556	Adrb3	mRNA	-1.324637843	1.82E-15	1.93E-14
11548	Adralb	mRNA	-0.826780061	0.01050094	0.029184762
11541	Adora2b	mRNA	-0.863731197	2.74E-08	1.77E-07
381628	Adgrf3	mRNA	-1.042276078	1.35E-04	5.60E-04
52389	Adgral	mRNA	-1.657826899	0.00420446	0.013029457
11514	Adcy8	mRNA	-2.268784608	2.33E-04	9.34E-04
271639	Adcy10	mRNA	-0.820194549	0.01266738	0.034419482
56417	Adar	mRNA	-0.592439448	1.56E-20	2.08E-19
66548	Adamts15	mRNA	-0.797102606	8.03E-117	4.10E-115
237360	Adamts14	mRNA	-0.656773068	1.30E-08	8.66E-08

56622	Adam21	mRNA	-0.902837109	0.00255407	0.008337523
11472	Actn2	mRNA	-1.272128621	0	0
11464	Actc1	mRNA	-0.950388231	0	0
60525	Acss2	mRNA	-0.943552325	1.15E-155	7.41E-154
20216	Acsm3	mRNA	-2.540719404	2.35E-06	1.24E-05
93732	Acox2	mRNA	-4.590712703	4.29E-04	0.00164246
217700	Acot6	mRNA	-0.613351937	5.77E-05	2.54E-04
329910	Acot11	mRNA	-1.588165792	8.72E-53	2.40E-51
26897	Acot1	mRNA	-0.682040964	7.04E-08	4.39E-07
70008	Ace2	mRNA	-1.100907435	0.00221491	0.007327217
226251	Ablim1	mRNA	-0.589095518	9.80E-225	9.03E-223
241850	Abhd16b	mRNA	-2.410910249	2.62E-06	1.38E-05
18671	Abcb1a	mRNA	-0.604417651	1.34E-24	2.04E-23
78894	Aacs	mRNA	-0.738191465	1.61E-20	2.14E-19
232345	A2m	mRNA	-3.175675204	6.97E-08	4.34E-07
245240	9930111J21Ri	mRNA	-0.657436119	5.94E-04	0.00221453
211378	6720489N17R	mRNA	-0.61938956	0.00304101	0.00974829
320095	6430550D23R	mRNA	-0.92774769	0.00100663	0.003592863
234797	6430548M08R	mRNA	-0.692209116	6.63E-109	3.23E-107
102635879	4933407O12R	mRNA	-1.853747109	0.00513439	0.01559643
240755	4933406M09R	mRNA	-2.420787702	0.00178992	0.006035175
75341	4930564C03R	mRNA	-1.195574761	4.62E-05	2.06E-04
207819	4930539E08Ri	mRNA	-2.017481139	2.97E-05	1.36E-04
214639	4930486L24Ri	mRNA	-0.916482864	0.00854016	0.024352247
70941	4921539E11Ri	mRNA	-3.005750202	0.01322586	0.035739502
67430	4921536K21R	mRNA	-2.477055921	9.90E-27	1.60E-25
73176	3110040M04R	mRNA	-2.369075768	5.84E-13	5.40E-12
554327	2610042L04Ri	mRNA	-1.207815105	3.26E-06	1.69E-05
72061	2010111I01Ri	mRNA	-0.914193548	0	0
100040049	1810010D01R	mRNA	-1.303430751	8.90E-05	3.81E-04
66276	1810009A15R	mRNA	-0.754211435	2.74E-10	2.09E-09
73634	1700125H20R	mRNA	-1.18223549	0.00754802	0.021832132
76658	1700123K08R	mRNA	-1.465181821	2.16E-04	8.72E-04
76640	1700113H08R	mRNA	-0.815319545	9.25E-06	4.55E-05
74307	1700092M07R	mRNA	-2.327678297	0.01583774	0.041857902
27660	1700088E04Ri	mRNA	-0.813217313	0.00545624	0.016430456
73449	1700066B19R	mRNA	-1.262089956	0.00110329	0.003895684
67317	1700022I11Ri	mRNA	-0.722431525	8.86E-04	0.003197016
102638268	1700014D04R	mRNA	-1.29525682	0.01724678	0.044910972
71837	1700003E16Ri	mRNA	-1.215203568	0.00330419	0.010497434
73598	1700001O22R	mRNA	-1.847784826	2.50E-79	9.50E-78
69282	1700001J03Ri	mRNA	-1.541803103	0.00181803	0.00611857
69770	1600002K03R	mRNA	-2.578355497	1.50E-09	1.08E-08
105246811	105246811	mRNA	-1.941711051	0	0
18951	5-Sep	mRNA	-0.598402924	3.32E-09	2.34E-08
24050	3-Sep	mRNA	-1.469150723	4.76E-14	4.69E-13