

**Table S1. Complete list of top candidate genes in Pmel-1 screen (FDR<0.05).**

LogFC, Log(2) fold change; FDR, False Discovery rate. FDR and p value calculated by MaGeCK.

Gene	logFC	Positive selection		Negative selection	
		p value	FDR	p value	FDR
<i>Jak1</i>	9.69	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Stat1</i>	8.49	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Ifngr2</i>	4.87	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Ifngr1</i>	4.68	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>B2m</i>	3.72	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>H2-D1</i>	3.53	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Jak2</i>	3.10	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Lztr1</i>	2.91	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Ube2g2</i>	2.87	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Dusp6</i>	2.83	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Tap1</i>	2.55	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Tap2</i>	2.51	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Derl2</i>	2.39	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Nfl</i>	2.23	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Syvn1</i>	2.15	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Mbnl1</i>	2.15	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Cic</i>	1.94	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Tbllx</i>	1.93	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Aup1</i>	1.93	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Ube2j1</i>	1.91	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Ints10</i>	1.91	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Vgll4</i>	1.65	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Spred1</i>	1.64	4.07E-06	1.91E-03	1.00E+00	1.00E+00
<i>Fus</i>	1.64	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Cbx4</i>	1.62	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Pmel</i>	1.53	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Fbrs</i>	1.51	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Nlrc5</i>	1.48	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Sell1</i>	1.48	7.18E-07	4.24E-04	9.99E-01	1.00E+00
<i>Xpnpep1</i>	1.47	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Mbnl2</i>	1.46	2.16E-06	1.11E-03	1.00E+00	1.00E+00
<i>Swi5</i>	1.46	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Asun</i>	1.46	1.56E-05	6.57E-03	1.00E+00	1.00E+00
<i>Usp24</i>	1.45	1.20E-06	6.51E-04	1.00E+00	1.00E+00

<i>Ifnar1</i>	1.42	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Cdkn1a</i>	1.38	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Ifnar2</i>	1.37	7.18E-07	4.24E-04	1.00E+00	1.00E+00
<i>Rfxank</i>	1.37	2.42E-05	8.93E-03	1.00E+00	1.00E+00
<i>Edem3</i>	1.35	2.39E-07	1.50E-04	9.99E-01	1.00E+00
<i>Nf2</i>	1.33	3.59E-06	1.77E-03	1.00E+00	1.00E+00
<i>Med13</i>	1.29	2.39E-07	1.50E-04	1.00E+00	1.00E+00
<i>Usp22</i>	1.28	0.00010081	3.16E-02	1.00E+00	1.00E+00
<i>Pvr</i>	1.26	1.20E-06	6.51E-04	9.99E-01	1.00E+00
<i>Ipo13</i>	1.24	9.27E-05	2.95E-02	1.00E+00	1.00E+00
<i>Kdm1a</i>	1.20	4.07E-06	1.91E-03	9.99E-01	1.00E+00
<i>Bbx</i>	1.19	1.68E-06	8.89E-04	9.98E-01	1.00E+00
<i>Chrac1</i>	1.15	0.00016834	4.70E-02	1.00E+00	1.00E+00
<i>Eloa</i>	1.14	7.02E-05	2.34E-02	9.99E-01	1.00E+00
<i>2310033P09Rik</i>	1.08	2.08E-05	7.98E-03	9.99E-01	1.00E+00
<i>Cdkn2c</i>	1.08	2.75E-05	9.65E-03	9.99E-01	1.00E+00
<i>Kirrel</i>	1.07	2.75E-05	9.65E-03	9.99E-01	1.00E+00
<i>Lta4h</i>	1.07	3.59E-06	1.77E-03	9.99E-01	1.00E+00
<i>Alkbh8</i>	1.06	2.61E-05	9.47E-03	1.00E+00	1.00E+00
<i>Cdc73</i>	1.03	0.00011135	3.44E-02	9.95E-01	1.00E+00
<i>Cdk12</i>	1.02	1.84E-05	7.47E-03	1.00E+00	1.00E+00
<i>Gosr2</i>	1.02	0.00014583	4.19E-02	9.98E-01	1.00E+00
<i>Rasa2</i>	1.01	6.47E-06	2.97E-03	9.99E-01	1.00E+00
<i>Senp1</i>	0.99	0.00014583	4.19E-02	9.97E-01	1.00E+00
<i>Fgf12</i>	0.98	9.27E-05	2.95E-02	9.94E-01	1.00E+00
<i>Creb3l2</i>	0.98	6.15E-05	2.12E-02	9.97E-01	1.00E+00
<i>Men1</i>	0.96	2.08E-05	7.98E-03	9.99E-01	1.00E+00
<i>Spop</i>	0.96	1.51E-05	6.50E-03	9.99E-01	1.00E+00
<i>Cbll1</i>	0.91	0.00014439	4.19E-02	9.99E-01	1.00E+00
<i>Ankrd24</i>	0.90	1.75E-05	7.23E-03	9.98E-01	1.00E+00
<i>Edem2</i>	0.90	0.00016594	4.70E-02	9.98E-01	1.00E+00
<i>Pcif1</i>	0.87	2.42E-05	8.93E-03	9.98E-01	1.00E+00
<i>4921507P07Rik</i>	0.86	0.00017169	4.73E-02	9.93E-01	1.00E+00
<i>Ddx42</i>	0.85	1.20E-06	6.51E-04	9.79E-01	1.00E+00
<i>Otud5</i>	0.84	1.89E-05	7.52E-03	9.71E-01	1.00E+00
<i>Dppa5a</i>	0.84	1.13E-05	5.06E-03	9.96E-01	1.00E+00
<i>Kif3a</i>	0.77	0.00011949	3.63E-02	9.82E-01	1.00E+00
<i>Sec22a</i>	0.72	0.00014583	4.19E-02	9.92E-01	1.00E+00
<i>Furin</i>	0.71	0.00017648	4.80E-02	9.92E-01	1.00E+00

<i>Ankrd6</i>	0.49	7.40E-05	2.43E-02	7.32E-01	9.14E-01
<i>Lsm12</i>	0.29	6.44E-05	2.18E-02	4.65E-01	7.50E-01
<i>Marcks11</i>	0.20	1.46E-05	6.43E-03	9.86E-02	4.84E-01
<i>Atg3</i>	-0.85	0.020985	4.20E-01	4.64E-04	4.63E-02
<i>Dbp</i>	-1.05	0.0016874	2.49E-01	2.59E-04	4.17E-02
<i>Nln</i>	-1.05	0.36437	1.00E+00	4.69E-04	4.63E-02
<i>Xylb</i>	-1.09	0.48935	1.00E+00	4.83E-04	4.63E-02
<i>Pstpip2</i>	-1.22	0.78233	1.00E+00	4.83E-04	4.63E-02
<i>Olfr1463</i>	-1.33	0.83086	1.00E+00	5.01E-04	4.63E-02
<i>Pus7l</i>	-1.37	0.79036	1.00E+00	2.74E-04	4.17E-02
<i>Bpnt1</i>	-1.45	0.24093	1.00E+00	3.10E-04	4.18E-02
<i>Tll5</i>	-1.47	0.89188	1.00E+00	5.46E-04	4.63E-02
<i>Olfr523</i>	-1.47	0.5871	1.00E+00	2.89E-04	4.17E-02
<i>Cyb5r2</i>	-1.57	0.84605	1.00E+00	5.53E-04	4.63E-02
<i>Crygc</i>	-1.58	0.85002	1.00E+00	2.81E-04	4.17E-02
<i>Phf12</i>	-1.70	0.87576	1.00E+00	5.60E-04	4.63E-02
<i>AI314180</i>	-1.79	0.84838	1.00E+00	5.53E-04	4.63E-02
<i>Pik3ca</i>	-1.80	0.73094	1.00E+00	5.31E-04	4.63E-02
<i>Sec23b</i>	-1.80	0.77773	1.00E+00	4.83E-04	4.63E-02
<i>Hagh</i>	-1.83	0.42794	1.00E+00	4.71E-04	4.63E-02
<i>Olfr237-ps1</i>	-1.83	0.9129	1.00E+00	5.60E-04	4.63E-02
<i>Tas2r104</i>	-1.84	0.80913	1.00E+00	2.55E-04	4.17E-02
<i>Erap1</i>	-1.85	0.39007	1.00E+00	7.16E-05	2.00E-02
<i>Sept3</i>	-1.86	0.22664	1.00E+00	4.83E-04	4.63E-02
<i>Zfand6</i>	-1.89	0.97729	1.00E+00	5.55E-04	4.63E-02
<i>C3ar1</i>	-1.90	0.37623	1.00E+00	5.30E-04	4.63E-02
<i>Mylip</i>	-1.92	0.88336	1.00E+00	1.75E-04	3.68E-02
<i>Gosr1</i>	-1.92	0.99198	1.00E+00	1.85E-04	3.68E-02
<i>Pcp4</i>	-1.93	0.91935	1.00E+00	5.24E-04	4.63E-02
<i>Cachd1</i>	-1.95	0.81897	1.00E+00	1.80E-05	9.79E-03
<i>Rfxap</i>	-1.96	0.93257	1.00E+00	2.55E-04	4.17E-02
<i>Slc12a2</i>	-1.96	0.96301	1.00E+00	5.53E-04	4.63E-02
<i>Ube2a</i>	-1.97	0.8566	1.00E+00	4.66E-04	4.63E-02
<i>Tgif2lx1</i>	-1.98	0.95558	1.00E+00	5.06E-04	4.63E-02
<i>Strn4</i>	-1.98	0.9735	1.00E+00	5.46E-04	4.63E-02
<i>Nudt11</i>	-1.99	0.96227	1.00E+00	5.13E-04	4.63E-02
<i>Tial1</i>	-2.01	0.9539	1.00E+00	3.17E-04	4.18E-02
<i>Tmem41b</i>	-2.02	0.96579	1.00E+00	3.96E-04	4.63E-02

<i>Lrrn3</i>	-2.03	0.98067	1.00E+00	5.06E-04	4.63E-02
<i>Tubb2b</i>	-2.04	0.86216	1.00E+00	4.69E-04	4.63E-02
<i>Gne</i>	-2.06	0.95715	1.00E+00	5.45E-04	4.63E-02
<i>Rsl1</i>	-2.06	0.94016	1.00E+00	4.06E-04	4.63E-02
<i>Zfp942</i>	-2.07	0.97317	1.00E+00	4.12E-04	4.63E-02
<i>Kmt2c</i>	-2.08	0.59541	1.00E+00	4.83E-04	4.63E-02
<i>Stat3</i>	-2.08	0.99048	1.00E+00	4.06E-04	4.63E-02
<i>Rgp1</i>	-2.09	0.76343	1.00E+00	4.12E-04	4.63E-02
<i>Ppp4r2</i>	-2.11	0.95069	1.00E+00	2.80E-04	4.17E-02
<i>Prdx1</i>	-2.12	0.99041	1.00E+00	5.24E-04	4.63E-02
<i>Pip5k1c</i>	-2.12	0.99136	1.00E+00	2.55E-04	4.17E-02
<i>Tmem165</i>	-2.13	0.48032	1.00E+00	4.57E-04	4.63E-02
<i>Carm1</i>	-2.13	0.96937	1.00E+00	4.93E-04	4.63E-02
<i>Vps16</i>	-2.14	0.9762	1.00E+00	3.96E-04	4.63E-02
<i>Rsph1</i>	-2.15	0.97941	1.00E+00	2.89E-04	4.17E-02
<i>Cd44</i>	-2.15	0.98583	1.00E+00	2.63E-04	4.17E-02
<i>Arf6</i>	-2.16	0.95126	1.00E+00	2.59E-04	4.17E-02
<i>Irgm2</i>	-2.16	0.98195	1.00E+00	2.83E-04	4.17E-02
<i>Lamtor1</i>	-2.18	0.95816	1.00E+00	3.97E-04	4.63E-02
<i>Cd36</i>	-2.18	0.99451	1.00E+00	5.13E-04	4.63E-02
<i>Zfp827</i>	-2.19	0.98737	1.00E+00	4.69E-04	4.63E-02
<i>Olfir512</i>	-2.19	0.9518	1.00E+00	2.61E-05	1.02E-02
<i>Nans</i>	-2.20	0.97933	1.00E+00	5.53E-04	4.63E-02
<i>Rnf38</i>	-2.20	0.97671	1.00E+00	2.63E-04	4.17E-02
<i>Eif2ak3</i>	-2.20	0.99073	1.00E+00	5.13E-04	4.63E-02
<i>Ikbkg</i>	-2.21	0.9944	1.00E+00	2.08E-05	9.79E-03
<i>Spn</i>	-2.22	0.98152	1.00E+00	5.55E-04	4.63E-02
<i>Ak2</i>	-2.22	0.96937	1.00E+00	4.71E-04	4.63E-02
<i>Icosl</i>	-2.24	0.99186	1.00E+00	5.30E-04	4.63E-02
<i>Krtap1-5</i>	-2.24	0.98152	1.00E+00	1.56E-05	9.75E-03
<i>Lemd2</i>	-2.25	0.9933	1.00E+00	5.45E-04	4.63E-02
<i>Gtf2i</i>	-2.25	0.94313	1.00E+00	2.62E-04	4.17E-02
<i>Xrcc2</i>	-2.26	0.97576	1.00E+00	3.05E-04	4.18E-02
<i>Bptf</i>	-2.26	0.97193	1.00E+00	1.84E-04	3.68E-02
<i>Impg1</i>	-2.27	0.99352	1.00E+00	2.89E-04	4.17E-02
<i>Birc2</i>	-2.28	0.98877	1.00E+00	1.13E-04	2.86E-02
<i>Batf2</i>	-2.30	0.98999	1.00E+00	2.58E-04	4.17E-02
<i>Larp4</i>	-2.30	0.97355	1.00E+00	2.55E-04	4.17E-02
<i>Cwf1911</i>	-2.30	0.91546	1.00E+00	4.83E-04	4.63E-02

<i>Tgtp1</i>	-2.30	0.90076	1.00E+00	7.30E-05	2.00E-02
<i>Pak2</i>	-2.30	0.9912	1.00E+00	5.46E-04	4.63E-02
<i>Ube2k</i>	-2.32	0.99548	1.00E+00	3.17E-04	4.18E-02
<i>Faxc</i>	-2.33	0.99186	1.00E+00	2.59E-04	4.17E-02
<i>Asxl2</i>	-2.33	0.9296	1.00E+00	1.82E-04	3.68E-02
<i>Matr3</i>	-2.33	0.97193	1.00E+00	5.01E-04	4.63E-02
<i>Rab7</i>	-2.34	0.98577	1.00E+00	5.45E-04	4.63E-02
<i>Arl14epl</i>	-2.34	0.99093	1.00E+00	3.03E-04	4.18E-02
<i>Tm2d1</i>	-2.34	0.99258	1.00E+00	2.81E-04	4.17E-02
<i>Uba6</i>	-2.35	0.9925	1.00E+00	5.46E-04	4.63E-02
<i>Fam234b</i>	-2.35	0.72319	1.00E+00	7.06E-05	2.00E-02
<i>Rsf1</i>	-2.35	0.99657	1.00E+00	4.83E-04	4.63E-02
<i>Hes7</i>	-2.36	0.89628	1.00E+00	2.55E-04	4.17E-02
<i>Hsd17b4</i>	-2.36	0.98272	1.00E+00	1.13E-04	2.86E-02
<i>Gpx4</i>	-2.36	0.99594	1.00E+00	5.24E-04	4.63E-02
<i>Txndc15</i>	-2.37	0.92739	1.00E+00	4.83E-04	4.63E-02
<i>Cdk2</i>	-2.37	0.99215	1.00E+00	2.83E-04	4.17E-02
<i>Pigu</i>	-2.37	0.99418	1.00E+00	2.83E-04	4.17E-02
<i>Rfx6</i>	-2.37	0.99498	1.00E+00	5.46E-04	4.63E-02
<i>Padi4</i>	-2.38	0.99068	1.00E+00	3.10E-04	4.18E-02
<i>Ube2r2</i>	-2.38	0.98387	1.00E+00	5.46E-04	4.63E-02
<i>Fhod3</i>	-2.39	0.98998	1.00E+00	1.68E-04	3.68E-02
<i>Ice1</i>	-2.39	0.99477	1.00E+00	4.83E-04	4.63E-02
<i>Xrcc4</i>	-2.39	0.90778	1.00E+00	2.69E-04	4.17E-02
<i>Foxb1</i>	-2.39	0.99902	1.00E+00	5.55E-04	4.63E-02
<i>Stub1</i>	-2.39	0.98149	1.00E+00	2.58E-04	4.17E-02
<i>Ccdc137</i>	-2.39	0.98149	1.00E+00	4.66E-04	4.63E-02
<i>Snapin</i>	-2.40	0.97303	1.00E+00	7.11E-05	2.00E-02
<i>Trip13</i>	-2.40	0.99343	1.00E+00	5.56E-04	4.63E-02
<i>Nckap1</i>	-2.42	0.9851	1.00E+00	1.85E-04	3.68E-02
<i>Gml</i>	-2.42	0.98162	1.00E+00	1.85E-04	3.68E-02
<i>Ube2j2</i>	-2.42	0.99665	1.00E+00	3.18E-04	4.18E-02
<i>Nsdhl</i>	-2.42	0.99658	1.00E+00	5.53E-04	4.63E-02
<i>Arid4a</i>	-2.43	0.80658	1.00E+00	1.84E-05	9.79E-03
<i>Galnt15</i>	-2.43	0.99902	1.00E+00	5.13E-04	4.63E-02
<i>Rab13</i>	-2.44	0.99042	1.00E+00	4.83E-04	4.63E-02
<i>Gigyf2</i>	-2.44	0.99705	1.00E+00	2.81E-04	4.17E-02
<i>Eroll</i>	-2.44	0.99887	1.00E+00	5.06E-04	4.63E-02
<i>Olfir912</i>	-2.45	0.99066	1.00E+00	5.13E-04	4.63E-02

<i>Zc3h18</i>	-2.45	0.99723	1.00E+00	4.68E-04	4.63E-02
<i>Nfix</i>	-2.45	0.9959	1.00E+00	2.08E-05	9.79E-03
<i>Neurl3</i>	-2.45	0.99577	1.00E+00	5.01E-04	4.63E-02
<i>Hspa13</i>	-2.46	0.99844	1.00E+00	5.13E-04	4.63E-02
<i>Xrcc5</i>	-2.46	0.9979	1.00E+00	1.75E-04	3.68E-02
<i>Prl2c3</i>	-2.47	0.99614	1.00E+00	1.75E-04	3.68E-02
<i>Keap1</i>	-2.47	0.98993	1.00E+00	1.13E-04	2.86E-02
<i>Pax3</i>	-2.47	0.99466	1.00E+00	2.92E-04	4.18E-02
<i>Ankrd11</i>	-2.47	0.98473	1.00E+00	2.80E-04	4.17E-02
<i>Atg16l1</i>	-2.48	0.99847	1.00E+00	5.60E-04	4.63E-02
<i>Oprk1</i>	-2.48	0.99358	1.00E+00	5.24E-04	4.63E-02
<i>Sox11</i>	-2.48	0.98494	1.00E+00	2.80E-04	4.17E-02
<i>Ttc33</i>	-2.48	0.99723	1.00E+00	2.83E-04	4.17E-02
<i>Tbc1d10b</i>	-2.48	0.98395	1.00E+00	2.55E-04	4.17E-02
<i>Arhgap11a</i>	-2.49	0.99723	1.00E+00	4.90E-04	4.63E-02
<i>Ar</i>	-2.49	0.99435	1.00E+00	2.67E-04	4.17E-02
<i>Arhgap21</i>	-2.50	0.99764	1.00E+00	2.83E-04	4.17E-02
<i>Rfwd2</i>	-2.51	0.99466	1.00E+00	4.83E-04	4.63E-02
<i>Crlf3</i>	-2.52	0.99906	1.00E+00	4.11E-04	4.63E-02
<i>Elmo2</i>	-2.52	0.99593	1.00E+00	3.12E-04	4.18E-02
<i>Tgif2</i>	-2.53	0.99901	1.00E+00	5.60E-04	4.63E-02
<i>Sod2</i>	-2.53	0.99643	1.00E+00	4.69E-04	4.63E-02
<i>Fam170b</i>	-2.54	0.9833	1.00E+00	1.13E-04	2.86E-02
<i>Xrcc1</i>	-2.54	0.99811	1.00E+00	3.12E-04	4.18E-02
<i>Meioc</i>	-2.54	0.99689	1.00E+00	3.17E-04	4.18E-02
<i>March5</i>	-2.55	0.99799	1.00E+00	7.90E-06	7.00E-03
<i>Pitx2</i>	-2.56	0.99902	1.00E+00	3.12E-04	4.18E-02
<i>Rab25</i>	-2.56	0.99719	1.00E+00	5.13E-04	4.63E-02
<i>Ccdc155</i>	-2.56	0.99257	1.00E+00	7.16E-05	2.00E-02
<i>Zfp473</i>	-2.56	0.99762	1.00E+00	4.12E-04	4.63E-02
<i>Tbk1</i>	-2.58	0.99959	1.00E+00	4.57E-04	4.63E-02
<i>Zfp148</i>	-2.58	0.99863	1.00E+00	5.60E-04	4.63E-02
<i>Rgmb</i>	-2.58	0.99711	1.00E+00	4.79E-04	4.63E-02
<i>Tm2d3</i>	-2.59	0.98635	1.00E+00	7.16E-05	2.00E-02
<i>Tsc2</i>	-2.59	0.99145	1.00E+00	4.56E-04	4.63E-02
<i>2700049A03Rik</i>	-2.59	0.99917	1.00E+00	4.00E-04	4.63E-02
<i>Cdk5</i>	-2.60	0.99621	1.00E+00	4.90E-04	4.63E-02
<i>Cmip</i>	-2.60	0.99622	1.00E+00	4.12E-04	4.63E-02
<i>Ccdc187</i>	-2.60	0.99705	1.00E+00	2.80E-04	4.17E-02

<i>Cnot8</i>	-2.60	0.99918	1.00E+00	3.10E-04	4.18E-02
<i>Dspp</i>	-2.60	0.99548	1.00E+00	3.12E-04	4.18E-02
<i>Ywhaz</i>	-2.60	0.99438	1.00E+00	7.26E-05	2.00E-02
<i>Cfhr2</i>	-2.61	0.9925	1.00E+00	7.16E-05	2.00E-02
<i>Zfp281</i>	-2.61	0.99865	1.00E+00	6.97E-05	2.00E-02
<i>Becn1</i>	-2.61	0.99906	1.00E+00	2.69E-04	4.17E-02
<i>Slc2a1</i>	-2.61	0.99946	1.00E+00	7.21E-05	2.00E-02
<i>Ilk</i>	-2.62	0.9989	1.00E+00	4.83E-04	4.63E-02
<i>Gpr31b</i>	-2.62	0.99422	1.00E+00	2.56E-05	1.02E-02
<i>Sprr2e</i>	-2.62	0.99665	1.00E+00	5.24E-04	4.63E-02
<i>Boll</i>	-2.63	0.99136	1.00E+00	2.56E-05	1.02E-02
<i>Tacc3</i>	-2.63	0.99846	1.00E+00	2.55E-04	4.17E-02
<i>Paox</i>	-2.66	0.99923	1.00E+00	5.00E-04	4.63E-02
<i>Gabrb3</i>	-2.66	0.99887	1.00E+00	2.59E-04	4.17E-02
<i>Trex1</i>	-2.67	0.99964	1.00E+00	5.24E-04	4.63E-02
<i>Dnaja2</i>	-2.67	0.99907	1.00E+00	5.53E-04	4.63E-02
<i>Vps4b</i>	-2.68	0.9981	1.00E+00	5.46E-04	4.63E-02
<i>Nprl3</i>	-2.68	0.99974	1.00E+00	4.90E-04	4.63E-02
<i>Mtch1</i>	-2.68	0.99534	1.00E+00	7.16E-05	2.00E-02
<i>Iqsec1</i>	-2.68	0.89653	1.00E+00	7.42E-06	7.00E-03
<i>Lrp10</i>	-2.68	0.99784	1.00E+00	7.21E-05	2.00E-02
<i>Raf1</i>	-2.69	0.99392	1.00E+00	1.74E-04	3.68E-02
<i>Dtx3l</i>	-2.69	0.999	1.00E+00	1.13E-04	2.86E-02
<i>Ccs</i>	-2.70	0.99858	1.00E+00	1.68E-04	3.68E-02
<i>Epc1</i>	-2.70	0.99881	1.00E+00	2.74E-04	4.17E-02
<i>Strada</i>	-2.70	0.9977	1.00E+00	1.68E-04	3.68E-02
<i>Nrbf2</i>	-2.70	0.99964	1.00E+00	4.83E-04	4.63E-02
<i>Ten1</i>	-2.72	0.99964	1.00E+00	7.11E-05	2.00E-02
<i>Irf1</i>	-2.72	0.999	1.00E+00	7.21E-05	2.00E-02
<i>Vmn2r72</i>	-2.72	0.99853	1.00E+00	1.74E-04	3.68E-02
<i>Tk2</i>	-2.73	0.99964	1.00E+00	4.63E-04	4.63E-02
<i>Ddi2</i>	-2.73	0.99216	1.00E+00	1.46E-05	9.44E-03
<i>Arid1a</i>	-2.74	0.99903	1.00E+00	7.21E-05	2.00E-02
<i>Zfp273</i>	-2.75	0.99863	1.00E+00	1.75E-04	3.68E-02
<i>Actr3</i>	-2.75	0.99505	1.00E+00	1.75E-05	9.79E-03
<i>Eif2ak4</i>	-2.75	0.99846	1.00E+00	2.56E-05	1.02E-02
<i>Pde7a</i>	-2.76	0.99715	1.00E+00	1.62E-04	3.68E-02
<i>Dpf2</i>	-2.76	0.99881	1.00E+00	1.85E-04	3.68E-02
<i>Rraga</i>	-2.76	0.99382	1.00E+00	1.13E-04	2.86E-02

<i>Rnf31</i>	-2.77	0.99534	1.00E+00	1.74E-04	3.68E-02
<i>Smgc</i>	-2.78	0.99719	1.00E+00	2.56E-05	1.02E-02
<i>Prkcq</i>	-2.79	0.99731	1.00E+00	1.68E-04	3.68E-02
<i>Epg5</i>	-2.79	0.99622	1.00E+00	7.06E-05	2.00E-02
<i>Gss</i>	-2.79	0.99969	1.00E+00	2.74E-04	4.17E-02
<i>Cnot11</i>	-2.80	0.99704	1.00E+00	1.68E-04	3.68E-02
<i>Hipk2</i>	-2.80	0.99722	1.00E+00	2.51E-05	1.02E-02
<i>C330027C09Rik</i>	-2.80	0.99439	1.00E+00	1.80E-05	9.79E-03
<i>Man2a1</i>	-2.80	0.99812	1.00E+00	2.04E-05	9.79E-03
<i>Chmp5</i>	-2.82	0.99418	1.00E+00	7.90E-06	7.00E-03
<i>Pcgf6</i>	-2.86	0.99811	1.00E+00	9.34E-06	7.00E-03
<i>Nampt</i>	-2.87	0.99887	1.00E+00	2.54E-04	4.17E-02
<i>Eri1</i>	-2.88	0.99964	1.00E+00	2.67E-04	4.17E-02
<i>Pbrm1</i>	-2.89	0.99881	1.00E+00	8.38E-06	7.00E-03
<i>Atg5</i>	-2.89	0.99974	1.00E+00	4.12E-04	4.63E-02
<i>Ube2h</i>	-2.90	0.99771	1.00E+00	9.34E-06	7.00E-03
<i>Gabpb1</i>	-2.91	0.99907	1.00E+00	7.06E-05	2.00E-02
<i>Gpi1</i>	-2.91	0.9971	1.00E+00	1.41E-05	9.42E-03
<i>Usp19</i>	-2.92	0.99969	1.00E+00	1.81E-04	3.68E-02
<i>Brd7</i>	-2.94	0.99974	1.00E+00	1.68E-04	3.68E-02
<i>Jmjd6</i>	-2.95	0.99505	1.00E+00	1.41E-05	9.42E-03
<i>Tgif1</i>	-2.97	0.99906	1.00E+00	7.11E-05	2.00E-02
<i>Fis1</i>	-2.98	0.99995	1.00E+00	1.85E-04	3.68E-02
<i>Cflar</i>	-2.98	0.99875	1.00E+00	7.21E-05	2.00E-02
<i>Ptpn11</i>	-2.99	0.99917	1.00E+00	7.42E-06	7.00E-03
<i>Maea</i>	-3.00	0.99946	1.00E+00	6.97E-05	2.00E-02
<i>Hdac5</i>	-3.00	0.99969	1.00E+00	2.04E-05	9.79E-03
<i>Mprip</i>	-3.01	0.99923	1.00E+00	9.82E-06	7.00E-03
<i>Itgav</i>	-3.02	0.99936	1.00E+00	7.21E-05	2.00E-02
<i>Crkl</i>	-3.06	0.99974	1.00E+00	2.56E-05	1.02E-02
<i>Arid2</i>	-3.06	0.99902	1.00E+00	1.89E-05	9.79E-03
<i>Memol</i>	-3.07	0.99995	1.00E+00	7.26E-05	2.00E-02
<i>Serpib9</i>	-3.08	0.99831	1.00E+00	2.04E-05	9.79E-03
<i>Krit1</i>	-3.08	0.99902	1.00E+00	9.82E-06	7.00E-03
<i>Srrd</i>	-3.13	0.99964	1.00E+00	9.34E-06	7.00E-03
<i>Sox4</i>	-3.17	0.99996	1.00E+00	1.75E-05	9.79E-03
<i>Wdr26</i>	-3.17	0.99969	1.00E+00	2.61E-05	1.02E-02
<i>Tiparp</i>	-3.18	0.99969	1.00E+00	9.34E-06	7.00E-03
<i>Nadk</i>	-3.18	0.99764	1.00E+00	1.20E-06	3.54E-03



<i>Tk1</i>	-3.18	0.99974	1.00E+00	7.90E-06	7.00E-03
<i>Tcof1</i>	-3.20	0.99865	1.00E+00	7.90E-06	7.00E-03
<i>Npr12</i>	-3.20	0.99969	1.00E+00	9.34E-06	7.00E-03
<i>Ptpn2</i>	-3.22	0.99902	1.00E+00	8.38E-06	7.00E-03
<i>Gale</i>	-3.22	0.99996	1.00E+00	7.35E-05	2.00E-02
<i>Spns1</i>	-3.24	0.99995	1.00E+00	2.56E-05	1.02E-02
<i>Usp18</i>	-3.28	0.99964	1.00E+00	1.68E-06	4.33E-03
<i>Psme2</i>	-3.29	0.99974	1.00E+00	7.42E-06	7.00E-03
<i>Tcea1</i>	-3.31	0.99925	1.00E+00	1.20E-06	3.54E-03
<i>Fitm2</i>	-3.33	0.99917	1.00E+00	7.42E-06	7.00E-03
<i>Ypel5</i>	-3.36	0.9993	1.00E+00	7.90E-06	7.00E-03
<i>Creb1</i>	-3.40	0.99964	1.00E+00	7.42E-06	7.00E-03
<i>Rela</i>	-3.45	0.99924	1.00E+00	2.39E-07	1.24E-03
<i>Fadd</i>	-3.45	0.99995	1.00E+00	7.42E-06	7.00E-03
<i>Psme1</i>	-3.53	0.99996	1.00E+00	7.42E-06	7.00E-03
<i>Ikkkb</i>	-3.57	1	1.00E+00	1.20E-06	3.54E-03
<i>Cd274</i>	-3.70	0.99995	1.00E+00	2.39E-07	1.24E-03
<i>Otulin</i>	-3.73	0.99995	1.00E+00	2.39E-07	1.24E-03
<i>Psmb8</i>	-3.93	1	1.00E+00	2.39E-07	1.24E-03