

**Supplementary Table 1. Transcripts differentially expressed in APBC treated group compared to the vehicle control group.**

Gene Symbol	Control Expression	APBC treated_ Expression	log2 (APBC treated/Control)	Pvalue	Qvalue
Eif4g1	4.0100	0.0000	-25.1570	1.20E-10	1.54E-07
Cntfr	8.5033	0.0233	-24.7053	2.56E-10	2.70E-07
Sec31a	3.2667	0.0000	-24.4763	3.74E-10	3.73E-07
Mdm4	1.5800	0.0000	-24.1807	6.06E-10	5.63E-07
Pcnx3	1.2500	0.0000	-23.8994	9.56E-10	7.68E-07
Sdcbp	3.1133	0.0000	-23.6482	1.43E-09	1.10E-06
Dnajc18	1.4467	0.0000	-23.5790	1.60E-09	1.19E-06
Cnot1	0.9367	0.0000	-23.5512	3.70E-11	6.86E-08
Tfe3	2.3867	0.0000	-23.5204	1.75E-09	1.26E-06
Snn	2.5533	0.0000	-23.4593	1.31E-10	1.64E-07
Gpr161	0.9767	0.0000	-23.4518	1.95E-09	1.36E-06
Cipc	1.5900	0.0000	-23.4221	2.05E-09	1.41E-06
Vps8	1.2433	0.0000	-23.3666	2.23E-09	1.46E-06
Zfp384	1.9133	0.0000	-23.3666	2.23E-09	1.46E-06
Spen	0.4800	0.0000	-23.2932	2.51E-09	1.59E-06
Setd2	0.6400	0.0000	-23.2458	2.70E-09	1.69E-06
Zzef1	0.4533	0.0000	-23.1820	2.99E-09	1.85E-06
Fbxo30	1.2200	0.0000	-23.1360	3.20E-09	1.94E-06
Tnik	0.4900	0.0000	-23.1168	3.31E-09	1.98E-06
Zkscan1	0.6533	0.0000	-23.0925	3.43E-09	2.02E-06
Phc3	0.4333	0.0000	-23.0829	3.48E-09	2.02E-06
Cbfa2t2	0.8300	0.0000	-23.0738	3.53E-09	2.02E-06
Zc3h14	1.9033	0.0000	-23.0575	3.63E-09	2.03E-06
Rabl6	1.4900	0.0000	-23.0200	3.84E-09	2.09E-06
Ift74	2.4067	0.0000	-23.0175	3.86E-09	2.09E-06
Ncoa2	0.5967	0.0000	-23.0175	3.86E-09	2.09E-06
Prkcsb	2.5167	0.0000	-23.0147	3.88E-09	2.09E-06
Gpbp111	1.7767	0.0000	-22.9885	4.03E-09	2.15E-06
Lrch3	0.5667	0.0000	-22.9841	4.06E-09	2.15E-06
Rnf170	1.1700	0.0000	-22.9409	4.35E-09	2.19E-06
Ivns1abp	1.2133	0.0000	-22.9269	4.44E-09	2.20E-06
Gigyf2	0.7400	0.0000	-22.9184	4.50E-09	2.20E-06
Arhgap12	0.9067	0.0000	-22.9173	4.51E-09	2.20E-06
Mapre2	1.1600	0.0000	-22.9142	4.53E-09	2.20E-06
Bod11	0.4733	0.0000	-22.9073	4.58E-09	2.20E-06
Scaf4	0.9433	0.0000	-22.8750	4.81E-09	2.27E-06
Pla2g6	1.2200	0.0000	-22.8690	4.86E-09	2.27E-06
Usp54	0.5800	0.0000	-22.7988	5.41E-09	2.45E-06
Nsmce1	4.4400	0.0000	-22.7556	5.79E-09	2.57E-06
Usp11	1.1000	0.0000	-22.7556	5.79E-09	2.57E-06
Ptprs	0.5667	0.0000	-22.7250	6.07E-09	2.68E-06
Picalm	0.9833	0.0000	-22.7053	6.25E-09	2.72E-06
Ythdf3	0.7467	0.0000	-22.7046	6.26E-09	2.72E-06
Morf4l2	2.1400	0.0000	-22.6861	6.44E-09	2.77E-06
Kcnab2	1.0100	0.0000	-22.6817	6.48E-09	2.77E-06
Golgb1	0.3400	0.0000	-22.6421	6.89E-09	2.91E-06
Mtdh	0.8600	0.0000	-22.6288	7.03E-09	2.92E-06
Ccp110	0.7567	0.0000	-22.6261	7.06E-09	2.92E-06
Usp19	0.7933	0.0000	-22.6103	7.23E-09	2.95E-06
Far1	0.8300	0.0000	-22.6058	7.28E-09	2.95E-06
Pik3r1	0.6133	0.0000	-22.6058	7.28E-09	2.95E-06
Sf1	0.9567	0.0000	-22.5909	7.45E-09	2.99E-06
Edc4	0.7367	0.0000	-22.5857	7.51E-09	2.99E-06

Med1	0.5100	0.0000	-22.5823	7.55E-09	2.99E-06
Maff	2.4400	0.0000	-22.5691	7.69E-09	3.02E-06
Cntrl	0.4267	0.0000	-22.5494	7.94E-09	3.10E-06
Srsf5	1.9800	0.0000	-22.5415	8.04E-09	3.10E-06
Stk24	0.9200	0.0000	-22.5375	8.07E-09	3.10E-06
Birc6	0.2000	0.0000	-22.5257	8.23E-09	3.14E-06
Mpdz	0.4200	0.0000	-22.5178	8.33E-09	3.16E-06
Meis2	0.7133	0.0000	-22.5139	8.38E-09	3.16E-06
Gon4l	0.4333	0.0000	-22.4903	8.69E-09	3.20E-06
Lhfp12	0.7533	0.0000	-22.4571	9.14E-09	3.30E-06
Rangap1	1.3933	0.0000	-22.4527	9.20E-09	3.30E-06
Fam135a	0.7733	0.0000	-22.4497	9.24E-09	3.30E-06
Srrm1	0.8533	0.0000	-22.4417	9.36E-09	3.30E-06
Itga8	0.5133	0.0000	-22.4358	9.44E-09	3.30E-06
Itrp1	0.3000	0.0000	-22.4273	9.56E-09	3.31E-06
Fam13b	0.8000	0.0000	-22.4188	9.69E-09	3.31E-06
Immt	1.0933	0.0000	-22.4188	9.69E-09	3.31E-06
Tmem184b	0.9467	0.0000	-22.4167	9.72E-09	3.31E-06
Pld1	0.6267	0.0000	-22.4083	9.84E-09	3.31E-06
Zcchc2	0.5467	0.0000	-22.4083	9.84E-09	3.31E-06
Atp9a	1.9633	0.0000	-22.3999	9.89E-09	3.31E-06
Gng2	1.9733	0.0000	-22.3811	1.02E-08	3.38E-06
Iffo1	0.9967	0.0000	-22.3784	1.03E-08	3.38E-06
Myo5a	0.3367	0.0000	-22.3779	1.03E-08	3.38E-06
Begain	1.1400	0.0000	-22.3699	1.04E-08	3.40E-06
Cic	0.3667	0.0000	-22.3662	1.05E-08	3.40E-06
Vamp7	1.1933	0.0067	-22.3599	1.06E-08	3.42E-06
Myo7a	0.3667	0.0000	-22.3447	1.08E-08	3.45E-06
Mgat4a	0.3800	0.0000	-22.3347	1.10E-08	3.45E-06
Dst	0.1267	0.0000	-22.3341	1.10E-08	3.45E-06
Patj	0.3933	0.0000	-22.3341	1.10E-08	3.45E-06
Aptx	0.4967	0.0000	-22.3016	1.16E-08	3.55E-06
Ccdc93	0.3700	0.0000	-22.2953	1.17E-08	3.55E-06
Zfp655	0.6600	0.0000	-22.2953	1.17E-08	3.55E-06
Arrdc2	1.2233	0.0000	-22.2794	1.20E-08	3.59E-06
Ubn1	0.4500	0.0000	-22.2773	1.20E-08	3.59E-06
Nav1	0.1933	0.0000	-22.2300	1.29E-08	3.78E-06
Gm46911	2.6567	0.0000	-22.2153	1.31E-08	3.78E-06
Col4a5	0.4200	0.0000	-22.1713	1.41E-08	3.95E-06
Urgcp	0.6433	0.0000	-22.1694	1.41E-08	3.95E-06
Bivm	0.8033	0.0000	-22.1556	1.44E-08	4.00E-06
Smtn	0.7633	0.0000	-22.1500	1.45E-08	4.01E-06
Bdp1	0.1933	0.0000	-22.1433	1.47E-08	4.01E-06
Igf1r	0.2367	0.0000	-22.1362	1.49E-08	4.01E-06
Klhl10	0.4333	0.0000	-22.1362	1.49E-08	4.01E-06
Zswim8	0.4200	0.0000	-22.1169	1.53E-08	4.07E-06
Dazap1	1.5433	0.0000	-22.1147	1.53E-08	4.07E-06
Cstf2	0.5967	0.0000	-22.1074	1.55E-08	4.07E-06
Cdk10	1.5100	0.0000	-22.0908	1.59E-08	4.09E-06
Klhl8	0.7667	0.0000	-22.0801	1.62E-08	4.09E-06
Trafd1	0.9867	0.0000	-22.0750	1.63E-08	4.09E-06
Gpank1	1.8433	0.0000	-22.0749	1.63E-08	4.09E-06
Arid4b	0.4133	0.0000	-22.0693	1.64E-08	4.09E-06
Mtbp	1.1833	0.0000	-22.0693	1.64E-08	4.09E-06
Tbc1d16	0.3433	0.0000	-22.0693	1.64E-08	4.09E-06
Exoc7	0.7400	0.0000	-22.0685	1.64E-08	4.09E-06
Nt5c2	0.4167	0.0000	-22.0638	1.66E-08	4.09E-06
Nfia	0.2533	0.0000	-22.0474	1.70E-08	4.17E-06
Apc	0.2733	0.0000	-22.0364	1.73E-08	4.20E-06
Mfn2	0.6033	0.0000	-22.0353	1.72E-08	4.20E-06
Entr1	1.0067	0.0000	-22.0187	1.77E-08	4.27E-06
Relch	0.4233	0.0000	-22.0140	1.78E-08	4.27E-06
Setdb1	0.4700	0.0000	-22.0072	1.80E-08	4.27E-06

Gtpbp2	0.7800	0.0000	-21.9914	1.85E-08	4.31E-06
Morc2a	0.3800	0.0000	-21.9840	1.87E-08	4.31E-06
Rps6ka3	0.2867	0.0000	-21.9840	1.87E-08	4.31E-06
Por	0.8567	0.0000	-21.9722	1.90E-08	4.37E-06
Nup205	0.3267	0.0000	-21.9603	1.93E-08	4.43E-06
Ncald	0.6567	0.0000	-21.9567	1.94E-08	4.43E-06
Spag9	0.2767	0.0000	-21.9483	1.97E-08	4.47E-06
Clec16a	0.3300	0.0000	-21.9361	2.00E-08	4.50E-06
Dcdc2a	1.0200	0.0000	-21.9361	2.00E-08	4.50E-06
Rbpms	0.2433	0.0000	-21.9238	2.04E-08	4.54E-06
Rb1cc1	0.3100	0.0000	-21.9229	2.04E-08	4.54E-06
Ptpn3	0.3367	0.0000	-21.9208	2.05E-08	4.54E-06
Itgal	0.4200	0.0000	-21.9118	2.08E-08	4.57E-06
Pcbp2	1.4000	0.0000	-21.9086	2.09E-08	4.57E-06
Smad4	0.3067	0.0000	-21.9006	2.11E-08	4.57E-06
Msantd3	0.3567	0.0000	-21.8999	2.12E-08	4.57E-06
Tbc1d1	0.3733	0.0000	-21.8971	2.12E-08	4.57E-06
Zfp646	0.8300	0.0000	-21.8917	2.12E-08	4.57E-06
Ccdc85c	0.4433	0.0000	-21.8894	2.15E-08	4.57E-06
Atp11c	0.3267	0.0000	-21.8868	2.16E-08	4.57E-06
Zmym3	0.3733	0.0000	-21.8868	2.16E-08	4.57E-06
Btrc	0.3133	0.0000	-21.8738	2.20E-08	4.57E-06
Zfr	0.4300	0.0000	-21.8738	2.20E-08	4.57E-06
Kat2b	0.4567	0.0000	-21.8716	2.21E-08	4.57E-06
Stx2	0.7500	0.0000	-21.8716	2.21E-08	4.57E-06
D430042O09Rik	0.3333	0.0000	-21.8596	2.25E-08	4.61E-06
Pdpk1	0.3033	0.0000	-21.8596	2.25E-08	4.61E-06
Ess2	0.7500	0.0000	-21.8552	2.26E-08	4.61E-06
Tpx2	0.4833	0.0000	-21.8552	2.26E-08	4.61E-06
Yeats2	0.3433	0.0000	-21.8469	2.29E-08	4.65E-06
Osbp13	0.3700	0.0000	-21.8366	2.31E-08	4.67E-06
Rusc2	0.3567	0.0000	-21.8213	2.38E-08	4.76E-06
Arhgef9	0.3567	0.0000	-21.8212	2.38E-08	4.76E-06
Bcl9	0.3233	0.0000	-21.7945	2.47E-08	4.86E-06
Lmbr1	0.4033	0.0000	-21.7945	2.47E-08	4.86E-06
Sec23b	0.7100	0.0000	-21.7945	2.47E-08	4.86E-06
Nsd1	0.1533	0.0000	-21.7938	2.48E-08	4.86E-06
Dock7	0.2600	0.0000	-21.7927	2.48E-08	4.86E-06
Entpd5	0.3967	0.0000	-21.7808	2.53E-08	4.93E-06
Chfr	0.6100	0.0000	-21.7695	2.57E-08	4.97E-06
Extl3	0.3067	0.0000	-21.7658	2.58E-08	4.97E-06
Myo9a	0.1500	0.0000	-21.7658	2.58E-08	4.97E-06
Tmem201	0.4867	0.0000	-21.7397	2.68E-08	5.12E-06
Hspg2	0.1300	0.0000	-21.7262	2.74E-08	5.16E-06
Invs	0.3333	0.0000	-21.7262	2.74E-08	5.16E-06
Ephb6	0.5067	0.0033	-21.7205	2.76E-08	5.18E-06
Skil	0.2867	0.0000	-21.7096	2.81E-08	5.23E-06
Gatad2b	0.2500	0.0000	-21.6973	2.86E-08	5.23E-06
Zc3h13	0.2767	0.0000	-21.6959	2.86E-08	5.23E-06
S100pbp	0.4167	0.0000	-21.6953	2.87E-08	5.23E-06
Pgf	0.8767	0.0000	-21.6831	2.92E-08	5.23E-06
Aldh7a1	0.6400	0.0000	-21.6820	2.92E-08	5.23E-06
Ulk1	0.3233	0.0000	-21.6813	2.93E-08	5.23E-06
Plpbp	0.9133	0.0000	-21.6702	2.98E-08	5.27E-06
Usp53	0.2933	0.0000	-21.6702	2.98E-08	5.27E-06
Akap9	0.1300	0.0000	-21.6569	3.03E-08	5.30E-06
Cep41	0.5167	0.0000	-21.6556	3.04E-08	5.30E-06
Cr11	1.0267	0.0000	-21.6487	3.07E-08	5.30E-06
Myo18a	0.2200	0.0000	-21.6487	3.07E-08	5.30E-06
4933427D14Rik	0.4133	0.0000	-21.6438	3.09E-08	5.32E-06
Ap4b1	0.6600	0.0000	-21.6354	3.13E-08	5.33E-06
Map3k4	0.2067	0.0000	-21.6219	3.20E-08	5.34E-06
Phf3	0.2867	0.0000	-21.6219	3.20E-08	5.34E-06

Dip2b	0.1833	0.0000	-21.6069	3.27E-08	5.38E-06
Synrg	0.2167	0.0000	-21.6069	3.27E-08	5.38E-06
Ergic1	0.6533	0.0000	-21.6015	3.29E-08	5.38E-06
Nfkbie	0.7400	0.0000	-21.6015	3.29E-08	5.38E-06
Gripap1	0.5733	0.0000	-21.5733	3.43E-08	5.50E-06
Stag2	0.3133	0.0000	-21.5733	3.43E-08	5.50E-06
Pld2	0.4633	0.0000	-21.5728	3.44E-08	5.50E-06
R3hdm2	0.4200	0.0000	-21.5728	3.44E-08	5.50E-06
Cog4	0.5733	0.0000	-21.5586	3.51E-08	5.57E-06
Pacsin2	0.5267	0.0000	-21.5461	3.57E-08	5.62E-06
Mbd1	0.2933	0.0000	-21.5420	3.59E-08	5.64E-06
Herc3	0.3400	0.0000	-21.5323	3.65E-08	5.68E-06
Lcor	0.1000	0.0000	-21.5270	3.67E-08	5.68E-06
Pip5k1c	0.2667	0.0000	-21.5270	3.67E-08	5.68E-06
Tmem87a	0.5200	0.0000	-21.5270	3.67E-08	5.68E-06
Chdh	0.2833	0.0000	-21.5153	3.74E-08	5.69E-06
Usf3	0.1233	0.0000	-21.5153	3.74E-08	5.69E-06
Zfp131	0.5300	0.0000	-21.5153	3.74E-08	5.69E-06
Gas7	0.2400	0.0000	-21.5153	3.74E-08	5.69E-06
Cpeb4	0.1967	0.0000	-21.5090	3.77E-08	5.71E-06
Dzip3	0.3300	0.0000	-21.5009	3.82E-08	5.73E-06
Plag1	0.2400	0.0000	-21.5009	3.82E-08	5.73E-06
Casp8ap2	0.2333	0.0000	-21.4987	3.83E-08	5.73E-06
Tent4b	0.3533	0.0000	-21.4987	3.83E-08	5.73E-06
Adcy6	0.2467	0.0000	-21.4928	3.86E-08	5.73E-06
Mlst8	0.4467	0.0000	-21.4928	3.86E-08	5.73E-06
Slc4a3	0.3633	0.0000	-21.4928	3.86E-08	5.73E-06
Dop1a	0.2033	0.0000	-21.4844	3.91E-08	5.73E-06
Champ1	0.3933	0.0000	-21.4821	3.93E-08	5.73E-06
Pan3	0.3767	0.0000	-21.4821	3.93E-08	5.73E-06
Zfp236	0.1467	0.0000	-21.4769	3.96E-08	5.73E-06
Ill1ra1	0.9100	0.0000	-21.4698	4.00E-08	5.73E-06
Ckap5	0.2333	0.0000	-21.4657	4.02E-08	5.73E-06
Fbxo38	0.3633	0.0000	-21.4657	4.02E-08	5.73E-06
Klhl13	0.5633	0.0000	-21.4657	4.02E-08	5.73E-06
Srpk2	0.3833	0.0000	-21.4597	4.06E-08	5.73E-06
Taf2	0.2867	0.0000	-21.4597	4.06E-08	5.73E-06
Kif1b	0.1933	0.0000	-21.4485	4.10E-08	5.76E-06
Bahcc1	0.1400	0.0000	-21.4460	4.14E-08	5.77E-06
Phldb1	0.2633	0.0000	-21.4460	4.14E-08	5.77E-06
Fez1	1.3300	0.0000	-21.3798	4.55E-08	6.18E-06
Wiz	0.3833	0.0000	-21.3737	4.56E-08	6.19E-06
Ankrd13b	0.4867	0.0000	-21.3703	4.61E-08	6.22E-06
Kmt2e	0.2067	0.0000	-21.3703	4.61E-08	6.22E-06
Lemd3	0.3633	0.0000	-21.2250	5.68E-08	7.33E-06
Pfkfb3	0.3400	0.0000	-21.2250	5.68E-08	7.33E-06
Slc37a3	0.4000	0.0000	-21.2250	5.68E-08	7.33E-06
Phf12	0.6400	0.0000	-20.9102	8.88E-08	1.03E-05
Rnf38	0.3233	0.0000	-20.9102	8.88E-08	1.03E-05
Incenp	7.9033	0.0000	-11.3431	1.40E-08	3.95E-06
Nckap5l	4.1633	0.0000	-11.0303	1.23E-04	8.68E-03
Mast3	3.4867	0.0000	-10.9476	4.01E-18	7.19E-14
Gm14308	3.7533	0.0000	-10.8375	1.09E-17	1.47E-13
Arhgap1	5.1833	0.0000	-10.6819	2.18E-04	1.46E-02
Nedd4l	1.9067	0.0000	-10.6579	2.20E-04	1.47E-02
Zfp568	1.9733	0.0000	-10.5388	2.88E-04	1.87E-02
Tcf25	5.4200	0.0000	-10.4549	3.54E-04	2.24E-02
Zfp827	1.5567	0.0033	-10.3212	3.44E-14	1.85E-10
Kat2a	3.3967	0.0000	-10.1526	7.48E-04	4.38E-02
Tcf12	2.2167	0.0000	-10.1236	5.92E-04	3.57E-02
Slc25a44	2.8767	0.0000	-10.0866	1.04E-14	7.55E-11
Pdlim5	1.8433	0.0000	-9.9687	2.18E-08	4.57E-06
Neurl4	1.7833	0.0000	-9.9549	6.92E-11	1.06E-07

Tcf4	1.2900	0.0000	-9.9480	9.93E-13	3.82E-09
Dennd2a	1.9000	0.0000	-9.8744	9.20E-12	2.15E-08
Mink1	1.6033	0.0000	-9.7543	7.02E-10	6.20E-07
Pde2a	1.9633	0.0000	-9.7481	8.80E-11	1.19E-07
Las1l	3.1467	0.0000	-9.7449	1.16E-08	3.55E-06
Bcl9l	1.2667	0.0000	-9.7159	2.55E-11	5.08E-08
Rbfox2	1.0033	0.0000	-9.5294	1.04E-09	8.08E-07
Ikzf2	0.7333	0.0000	-9.4831	1.38E-13	6.74E-10
Cbl1l	1.7167	0.0033	-9.4815	1.29E-12	4.49E-09
Huwe1	0.4500	0.0000	-9.4809	4.26E-09	2.19E-06
Exd2	2.0933	0.0000	-9.4318	1.33E-08	3.82E-06
Polr3c	2.8133	0.0000	-9.4125	2.05E-10	2.25E-07
Zdhhc23	1.1333	0.0000	-9.3894	6.46E-10	5.82E-07
Ii17rd	0.6933	0.0000	-9.2417	3.52E-09	2.02E-06
Utrn	0.4067	0.0000	-9.0788	1.25E-08	3.72E-06
Arfgap3	1.8767	0.0000	-9.0604	1.74E-09	1.26E-06
Zfp764	1.9800	0.0000	-9.0454	8.46E-09	3.16E-06
Zfp710	1.0133	0.0000	-9.0012	8.50E-10	7.04E-07
Glr1b	1.6033	0.0000	-8.9994	2.17E-09	1.46E-06
Rnf14	1.6100	0.0000	-8.9969	3.35E-04	2.14E-02
Agpat4	2.6133	0.0000	-8.9549	8.82E-11	1.19E-07
Rbms3	0.6067	0.0000	-8.9529	2.84E-07	2.70E-05
Jph2	1.1267	0.0000	-8.9305	5.78E-05	4.29E-03
Tsc2	0.8167	0.0000	-8.9169	1.44E-05	1.16E-03
Pik3cd	0.8967	0.0000	-8.8788	2.32E-07	2.25E-05
Mtmr1	0.8767	0.0000	-8.7310	3.25E-10	3.36E-07
Proser2	1.0467	0.0000	-8.7208	6.76E-06	5.60E-04
Trrap	0.3000	0.0000	-8.7193	5.94E-06	4.97E-04
Lrif1	2.0533	0.0000	-8.6552	2.23E-09	1.46E-06
Fam120b	0.8300	0.0000	-8.6313	6.56E-07	6.04E-05
Kars	1.6533	0.0000	-8.5965	3.87E-05	2.92E-03
Pi4kb	0.9467	0.0000	-8.5844	3.32E-07	3.14E-05
Map4k2	0.7667	0.0000	-8.5333	1.93E-04	1.32E-02
Dmpk	1.2800	0.0000	-8.5008	6.36E-07	5.87E-05
Csad	1.3867	0.0000	-8.4659	2.44E-08	4.86E-06
Nr4a2	0.5033	0.0000	-8.4500	4.29E-09	2.19E-06
Plekha7	0.6633	0.0000	-8.4250	4.48E-06	3.82E-04
Nrcam	0.2800	0.0000	-8.3676	7.36E-06	6.07E-04
Acy3	2.4300	0.0000	-8.3573	3.76E-06	3.23E-04
Ttk	1.0333	0.0000	-8.3231	2.18E-07	2.12E-05
Tecpr2	0.3667	0.0000	-8.2891	6.93E-09	2.91E-06
Dhcr7	1.2233	0.0000	-8.2716	1.65E-06	1.46E-04
Npep1l	1.3533	0.0000	-8.2363	7.25E-08	8.88E-06
Mib2	0.7167	0.0000	-8.2221	7.87E-04	4.56E-02
Fry	0.2633	0.0000	-8.2153	5.03E-07	4.70E-05
Mea1	3.4767	0.0000	-8.2065	5.64E-07	5.21E-05
Arhgef10l	0.6033	0.0000	-8.2014	4.87E-08	6.51E-06
Chst15	0.5867	0.0000	-8.1935	9.91E-08	1.12E-05
Smarcal1	0.4967	0.0000	-8.1898	5.29E-06	4.45E-04
Tmeff1	1.0967	0.0000	-8.1829	4.02E-08	5.73E-06
Lrrc32	0.7033	0.0000	-8.1813	1.14E-06	1.03E-04
Gpatch8	0.3733	0.0000	-8.1584	2.04E-07	1.99E-05
Pcdh17	0.2800	0.0000	-8.1317	5.71E-06	4.80E-04
Cit	0.3100	0.0000	-8.1304	6.85E-07	6.26E-05
Hnrnp1	1.6433	0.0000	-8.1085	4.26E-08	5.88E-06
Zfp14	0.7233	0.0000	-8.0763	3.00E-06	2.58E-04
Gdap2	0.7933	0.0000	-7.9697	1.09E-07	1.19E-05
Tnip1	0.8367	0.0000	-7.9436	4.17E-07	3.91E-05
Washc1	1.1700	0.0000	-7.9349	5.10E-06	4.31E-04
Clpb	0.8567	0.0033	-7.9347	1.55E-07	1.56E-05
Zbtb21	0.3867	0.0000	-7.9281	1.80E-06	1.59E-04
Nacad	0.4633	0.0000	-7.9193	2.01E-06	1.76E-04
Fmn1	0.1833	0.0000	-7.8853	1.32E-07	1.37E-05

Eri3	1.2867	0.0000	-7.8606	1.77E-07	1.76E-05
Ikbkb	0.5767	0.0000	-7.8387	7.71E-04	4.50E-02
Zfp966	0.6100	0.0000	-7.8351	8.84E-07	8.04E-05
Arap1	0.3400	0.0000	-7.8343	5.24E-07	4.86E-05
Dzip11	0.4033	0.0000	-7.8276	8.67E-05	6.26E-03
Deaf1	0.9233	0.0000	-7.8138	1.86E-06	1.63E-04
Zfp579	0.9967	0.0000	-7.7904	4.06E-05	3.05E-03
Dab2ip	0.3033	0.0000	-7.7231	8.04E-05	5.83E-03
Timm9	2.0400	0.0000	-7.6743	5.20E-06	4.38E-04
Ift80	0.4167	0.0000	-7.6022	4.97E-05	3.70E-03
Qrich1	0.5000	0.0000	-7.5976	2.09E-06	1.82E-04
Otud5	0.4367	0.0000	-7.5928	1.65E-04	1.14E-02
Klhl25	0.6500	0.0000	-7.5238	6.56E-06	5.47E-04
Smox	1.9633	0.0133	-7.5119	3.61E-05	2.75E-03
Coq8a	0.6367	0.0000	-7.4938	1.92E-05	1.52E-03
Slc38a9	0.1867	0.0000	-7.4526	1.70E-05	1.35E-03
Rgs19	0.8800	0.0000	-7.4326	1.75E-05	1.39E-03
Cwf1911	0.3967	0.0000	-7.4263	1.25E-04	8.83E-03
Scmh1	0.1900	0.0000	-7.4154	8.37E-05	6.06E-03
Mknk1	0.6033	0.0000	-7.4025	6.57E-06	5.47E-04
Man1a	0.3233	0.0000	-7.4010	3.67E-05	2.78E-03
Ndufs8	1.5533	0.0000	-7.3750	1.06E-04	7.57E-03
Cchr1	0.5467	0.0000	-7.3509	3.45E-05	2.63E-03
Plekhj1	2.5100	0.0167	-7.3384	4.03E-06	3.44E-04
Zmynd8	0.2833	0.0000	-7.3161	1.26E-04	8.84E-03
Ubap2l	0.3700	0.0000	-7.3055	2.08E-04	1.41E-02
Gulo	0.6533	0.0000	-7.2773	1.72E-04	1.18E-02
Myo9b	0.3767	0.0033	-7.2171	9.15E-05	6.58E-03
Cpsf7	4.9400	0.0367	-7.2136	9.74E-08	1.11E-05
3830406C13Rik	0.5600	0.0000	-7.1929	2.09E-05	1.64E-03
Accs	0.3400	0.0000	-7.1815	2.95E-05	2.28E-03
Rims2	0.2333	0.0000	-7.1745	6.95E-04	4.11E-02
Pik3cb	0.2767	0.0000	-7.1690	7.91E-05	5.76E-03
Rpp14	0.5300	0.0000	-7.1635	1.71E-04	1.18E-02
Rbm43	0.6300	0.0033	-7.1576	1.43E-04	1.00E-02
Rcor3	0.7967	0.0000	-7.1314	3.63E-05	2.76E-03
Slc9a8	0.2933	0.0000	-7.0908	4.85E-05	3.62E-03
Rps6kc1	0.3633	0.0000	-7.0739	1.10E-04	7.84E-03
Adgrg3	0.4900	0.0000	-6.9557	1.13E-04	8.04E-03
Zfp7	0.3867	0.0033	-6.9494	1.11E-04	7.89E-03
Dock9	0.1467	0.0000	-6.9450	1.44E-04	1.00E-02
Dop1b	0.1533	0.0000	-6.8905	3.67E-04	2.31E-02
Cdk20	0.5267	0.0000	-6.8407	3.09E-04	2.00E-02
Tnks1bp1	0.5833	0.0100	-6.7760	8.70E-04	4.98E-02
Nop2	0.3833	0.0000	-6.7482	2.30E-04	1.52E-02
Nxpe4	0.3233	0.0000	-6.7421	4.69E-04	2.88E-02
Mrpl55	0.9500	0.0000	-6.5818	5.43E-04	3.31E-02
Impdh1	0.6067	0.0100	-6.3975	2.49E-05	1.93E-03
Ncor2	0.4767	0.0067	-6.3928	2.82E-07	2.70E-05
Grik4	0.2667	0.0067	-5.6911	7.77E-04	4.52E-02
Tns1	0.1567	0.0033	-5.4949	3.26E-04	2.10E-02
Mid1	0.8300	0.0267	-5.4659	5.95E-04	3.58E-02
Poll	0.6200	0.0300	-4.9393	2.29E-04	1.52E-02
Rdm1	3.7833	0.4333	-3.2597	2.59E-07	2.49E-05
Grina	7.6400	0.9567	-3.0811	1.66E-08	4.09E-06
Uimc1	1.5100	0.2333	-2.8203	1.19E-07	1.26E-05
Akr1b7	1.3467	0.2233	-2.7952	1.60E-04	1.11E-02
Gm40525	10.2100	1.6533	-2.6915	7.72E-05	5.63E-03
Eef2k	1.5100	0.2600	-2.6104	6.46E-04	3.84E-02
Pde1c	2.0700	0.3833	-2.4972	4.33E-04	2.69E-02
Sh2b3	2.2033	0.5000	-2.1940	3.73E-10	3.73E-07
Atp2c1	1.3033	0.3467	-1.9962	4.90E-06	4.15E-04
Mtf2	1.8600	0.5033	-1.9327	7.92E-05	5.76E-03

Trip12	0.7900	0.2200	-1.9096	1.30E-08	3.78E-06
Cuedc2	13.0100	3.7667	-1.8537	4.02E-11	7.22E-08
Llg1l	1.0033	0.3200	-1.7178	5.16E-04	3.15E-02
Trp53inp2	4.2833	1.3833	-1.7004	6.28E-08	7.97E-06
Nit1	3.7800	1.2567	-1.6753	8.56E-04	4.91E-02
Wnk4	1.1600	0.3867	-1.6667	1.35E-04	9.41E-03
Ganab	0.9233	0.3133	-1.6629	2.41E-04	1.59E-02
Srrm2	1.4800	0.5033	-1.6230	3.29E-04	2.11E-02
Ddah1	2.8367	0.9733	-1.6114	1.07E-06	9.64E-05
Ndrp2	8.6533	3.0133	-1.5894	2.49E-11	5.08E-08
Gm41885	12.7400	4.5033	-1.5616	4.69E-06	3.99E-04
Bmf	2.4533	0.8900	-1.5158	7.40E-04	4.34E-02
Mcfid2	4.8300	1.8200	-1.4702	5.23E-07	4.86E-05
Asap1	4.7733	1.8367	-1.4439	3.96E-05	2.98E-03
Senp5	1.2600	0.4900	-1.4389	3.95E-05	2.98E-03
Fjx1	8.7667	3.4367	-1.4039	2.62E-06	2.26E-04
Cyth1	8.2067	3.2600	-1.3973	1.69E-10	1.93E-07
Gpr37	15.4000	6.1767	-1.3758	6.26E-06	5.22E-04
Pgap2	4.4033	1.8367	-1.3433	2.13E-04	1.44E-02
Cdk5rap3	4.3700	1.8267	-1.3252	1.90E-05	1.50E-03
Micall2	7.2267	3.1700	-1.2574	2.80E-04	1.83E-02
Plcd1	3.3800	1.4933	-1.2408	2.40E-04	1.59E-02
Amigo1	3.1767	1.4033	-1.2382	7.56E-05	5.53E-03
Ccnj1	3.3700	1.5033	-1.2326	3.47E-04	2.20E-02
Smad2	2.3867	1.0733	-1.2096	5.37E-04	3.28E-02
Zfand2b	6.9267	3.2333	-1.1748	6.03E-04	3.62E-02
Smad3	4.8267	2.2833	-1.1527	4.38E-04	2.71E-02
Tfcp2	7.3800	3.5533	-1.1140	2.59E-06	2.24E-04
Tead3	8.7767	4.2667	-1.1037	7.35E-04	4.32E-02
Tmod1	7.7667	3.7867	-1.1007	7.84E-04	4.56E-02
Camk2n1	6.3700	3.1033	-1.0998	1.81E-06	1.59E-04
Dlg4	9.6600	4.7500	-1.0826	1.26E-08	3.72E-06
Ddah2	19.4700	9.6367	-1.0808	3.30E-04	2.12E-02
Lrp4	3.3033	1.6333	-1.0747	2.68E-04	1.76E-02
Gsn	34.9833	17.3400	-1.0746	2.36E-04	1.56E-02
Iqsec1	6.4133	3.2067	-1.0691	8.75E-04	5.00E-02
Crat	12.3733	6.2700	-1.0498	2.05E-07	1.99E-05
Dbn1	10.2067	5.1600	-1.0455	6.71E-07	6.14E-05
Gm46894	82.3033	41.7300	-1.0388	2.84E-04	1.85E-02
Gpd1	42.5433	22.0133	-1.0125	7.71E-04	4.50E-02
Cttnbp2nl	13.2967	6.9000	-0.9977	1.84E-04	1.26E-02
Thra	10.4900	5.5333	-0.9852	4.20E-05	3.15E-03
Eci2	20.3633	10.9567	-0.9548	3.67E-05	2.78E-03
Zdhhc12	9.2400	5.0267	-0.9454	8.41E-04	4.83E-02
Lgi4	22.7700	12.3400	-0.9389	4.21E-05	3.15E-03
Dag1	50.7333	27.6933	-0.9353	1.51E-04	1.05E-02
Nipsnap2	39.3100	21.6067	-0.9285	2.69E-04	1.76E-02
Akt1s1	6.1033	3.3533	-0.9285	3.95E-04	2.47E-02
Tbx2	73.7700	42.7367	-0.8549	9.83E-06	7.99E-04
AU040320	6.1333	3.5633	-0.8509	3.86E-04	2.42E-02
Trim62	19.8233	11.6600	-0.8249	4.66E-04	2.87E-02
Rassf3	21.8867	12.9333	-0.8209	3.31E-06	2.84E-04
Fth1	2765.1267	1639.5233	-0.8147	1.01E-04	7.26E-03
Itpkb	8.4067	5.0533	-0.8005	1.20E-05	9.66E-04
Drosha	14.8033	9.0000	-0.7889	6.39E-04	3.80E-02
Cryab	113.0367	68.5133	-0.7838	6.17E-04	3.69E-02
Trf	225.6833	136.9833	-0.7764	4.32E-04	2.68E-02
Dynl1b	43.7400	26.6867	-0.7764	5.82E-04	3.51E-02
Ttyh3	35.4000	21.6467	-0.7737	4.84E-07	4.53E-05
Bcas3	14.2500	8.8667	-0.7486	2.22E-06	1.94E-04
Src	36.5133	22.7467	-0.7454	2.14E-04	1.44E-02
Zbtb8b	11.2433	7.0400	-0.7444	1.93E-05	1.52E-03
Camkk2	12.7233	7.9600	-0.7382	1.83E-04	1.25E-02

Ephb4	15.1700	9.5333	-0.7336	5.05E-08	6.68E-06
Orai1	22.7667	14.4367	-0.7220	2.71E-04	1.77E-02
Rbm3	74.1933	46.9300	-0.7175	6.41E-05	4.73E-03
Pkia	3.5867	2.2867	-0.7149	1.23E-04	8.71E-03
Tmem176b	62.5633	40.0733	-0.7106	2.48E-05	1.93E-03
St5	16.1633	10.3667	-0.7060	3.63E-04	2.29E-02
Zfp362	37.2900	24.4367	-0.6759	7.22E-04	4.25E-02
Nfatc2	9.5333	6.2200	-0.6751	2.79E-05	2.16E-03
Dlgap4	13.0000	8.5367	-0.6726	7.52E-05	5.51E-03
Asic1	5.7100	3.7467	-0.6704	2.59E-05	2.01E-03
Cdc42ep1	35.0333	23.3767	-0.6404	7.26E-05	5.33E-03
Man1c1	7.2667	4.8833	-0.6353	5.79E-04	3.50E-02
Tbc1d14	5.6967	3.8467	-0.6270	6.93E-04	4.10E-02
Olfr1033	52.7800	35.8433	-0.6216	1.10E-05	8.95E-04
Mex3a	35.5800	24.1633	-0.6188	2.57E-04	1.69E-02
Mprip	13.2700	9.0567	-0.6175	2.88E-04	1.87E-02
Oaz2	51.3433	35.0167	-0.6144	2.42E-12	6.87E-09
Ehd4	29.8000	20.3033	-0.6135	6.76E-06	5.60E-04
Atp5g3	77.4933	53.0633	-0.6100	2.88E-04	1.87E-02
Inka1	54.6233	37.5633	-0.6010	2.25E-10	2.42E-07
Hpcal1	30.4367	20.9433	-0.6008	3.79E-05	2.87E-03
Ppt2	13.6500	9.4167	-0.5945	1.21E-04	8.56E-03
S1pr2	54.2533	37.4900	-0.5894	6.95E-05	5.10E-03
Emilin1	48.3933	33.6400	-0.5840	6.79E-05	5.00E-03
Arhgef12	9.1133	6.4300	-0.5705	1.48E-05	1.19E-03
Bcl2l1	27.6700	19.6533	-0.5531	7.71E-05	5.63E-03
Acsf2	34.9533	24.8367	-0.5515	2.16E-04	1.45E-02
Man2b1	40.2767	28.8900	-0.5411	2.08E-05	1.63E-03
Ttyh2	17.0633	12.3033	-0.5327	1.63E-05	1.30E-03
H13	55.3267	40.0800	-0.5273	7.59E-04	4.44E-02
Pdk1	17.5600	12.7100	-0.5230	7.77E-04	4.52E-02
Serinc3	99.1067	72.9233	-0.5016	3.83E-04	2.40E-02
Gnas	519.9967	386.0267	-0.4910	6.89E-05	5.07E-03
Pskh1	14.7500	10.9633	-0.4910	7.92E-04	4.59E-02
Marcks11	230.0033	170.9200	-0.4896	2.08E-05	1.63E-03
Clip2	19.0200	14.1367	-0.4859	3.42E-04	2.18E-02
Ext2	40.7600	30.4733	-0.4853	2.96E-05	2.28E-03
Hexim1	30.2267	22.6400	-0.4794	2.27E-06	1.97E-04
Pxn	23.3233	17.4933	-0.4792	2.12E-04	1.43E-02
Ppp2r5c	16.8267	12.7633	-0.4629	3.75E-04	2.36E-02
Gna12	27.1967	20.7700	-0.4546	6.46E-04	3.84E-02
Penx	4.1067	3.1300	-0.4520	2.28E-04	1.52E-02
Gnai2	310.7233	251.5600	-0.3659	3.11E-05	2.39E-03
Dync1i2	34.2867	27.8233	-0.3621	9.32E-06	7.59E-04
Ctdsp2	36.5500	30.2833	-0.3342	1.40E-04	9.79E-03
Mcm3	73.3200	88.0333	0.2011	5.51E-04	3.35E-02
Hnrnpa1	340.0133	407.7733	0.2021	4.55E-04	2.81E-02
Mcm2	70.2367	89.6233	0.2902	3.99E-04	2.49E-02
Ddx21	51.3767	66.0200	0.2972	6.45E-04	3.84E-02
Gtpbp4	19.0767	24.7200	0.3126	8.36E-04	4.81E-02
Nap1l1	171.0000	222.0767	0.3142	1.35E-05	1.08E-03
Rpl26	813.3733	1065.3233	0.3299	4.04E-04	2.52E-02
Ddx39	49.6633	65.9433	0.3467	1.09E-04	7.77E-03
Wdr75	30.1967	41.1633	0.3843	2.24E-04	1.49E-02
Ewsr1	75.2867	103.0500	0.3931	1.42E-08	3.95E-06
Srsf2	45.6167	62.5267	0.3951	8.10E-04	4.68E-02
Rbm28	20.6300	28.4700	0.4044	8.30E-04	4.78E-02
Azi2	11.7500	16.3067	0.4135	1.34E-04	9.38E-03
Luc7l2	15.3300	21.8067	0.4480	1.27E-07	1.34E-05
Prc1	16.7067	24.2367	0.4778	2.16E-04	1.45E-02
Gls	17.9600	26.5367	0.5058	3.53E-04	2.23E-02
Hsp90b1	396.6000	593.3667	0.5202	2.04E-04	1.38E-02
Khdc4	5.3500	8.0733	0.5326	6.61E-04	3.91E-02



Syne1	14.6367	22.0933	0.5353	8.40E-04	4.82E-02
Cdk11b	16.5800	25.1600	0.5386	8.10E-06	6.62E-04
Hsp90aa1	510.3933	824.4733	0.6330	2.90E-12	7.80E-09
Dot1l	3.4100	5.5233	0.6365	1.07E-05	8.67E-04
Nudcd1	5.5367	9.0267	0.6454	3.26E-07	3.09E-05
Fam45a	4.6700	7.7200	0.6664	6.36E-04	3.79E-02
Ppa1	41.1000	69.1033	0.6850	2.64E-04	1.73E-02
Slc5a3	1.6867	2.8567	0.6973	4.58E-04	2.82E-02
Terf1	7.4600	12.7600	0.7139	1.75E-04	1.20E-02
Wars	21.5367	39.1600	0.8100	1.84E-04	1.26E-02
Slc39a7	14.7600	27.5000	0.8426	2.10E-04	1.42E-02
Camk2g	3.5533	6.7367	0.8544	3.51E-04	2.23E-02
Xrcc6	8.2200	15.6567	0.8713	3.63E-04	2.29E-02
Bub1	5.3167	10.4800	0.9221	2.90E-08	5.23E-06
Ldha	2.5267	5.4500	1.0460	2.72E-04	1.77E-02
Atp11a	1.1133	2.4800	1.0937	2.99E-06	2.58E-04
Rptor	1.4300	3.2500	1.1270	4.57E-06	3.89E-04
Rce1	3.8000	8.7733	1.1427	1.55E-04	1.08E-02
Nop58	5.6033	13.1433	1.1754	5.40E-04	3.29E-02
Fos	11.1267	26.3933	1.1809	4.15E-04	2.59E-02
Ints3	1.5333	3.6967	1.2127	1.56E-06	1.38E-04
Smc6	0.8333	2.0567	1.2649	3.46E-04	2.20E-02
Tubgcp4	4.3467	10.9300	1.2773	2.18E-08	4.57E-06
Depdc1a	1.3167	3.3700	1.2997	1.90E-04	1.30E-02
Nckipsd	0.8933	2.3433	1.3364	3.38E-04	2.15E-02
Nexn	1.5400	4.1033	1.3563	3.56E-04	2.25E-02
Lig1	0.7800	2.1033	1.3788	1.19E-04	8.41E-03
Nsd3	0.6667	1.8267	1.3945	4.36E-04	2.70E-02
Nod1	0.7033	2.1433	1.5281	5.60E-04	3.40E-02
Gemin5	1.7867	5.5700	1.5735	4.18E-05	3.14E-03
Rad51ap1	1.4033	4.6767	1.6747	9.91E-05	7.12E-03
Clk4	2.5133	8.3700	1.6790	1.69E-05	1.35E-03
Zup1	1.1933	4.1800	1.7534	6.43E-08	8.14E-06
Morc3	1.3233	4.7033	1.7683	2.35E-04	1.56E-02
Plekhg1	0.4267	1.5400	1.7729	1.17E-04	8.26E-03
Flnb	0.5367	1.9767	1.8227	8.97E-05	6.47E-03
Egr2	0.4567	1.8133	1.9343	1.17E-06	1.06E-04
Pkd1	0.1200	0.4933	1.9664	2.29E-04	1.52E-02
Tut7	1.1267	4.9900	2.1006	9.31E-10	7.59E-07
Tbl1xr1	0.2767	1.5467	2.4424	1.13E-04	8.02E-03
Dnm2	0.1867	1.1367	2.5716	3.75E-05	2.84E-03
Ktn1	0.1300	0.8933	2.7938	1.27E-04	8.91E-03
Unc13d	0.0200	0.6567	5.0799	6.20E-04	3.71E-02
Cyld	0.0333	1.1367	5.1811	1.07E-04	7.64E-03
Rsrc2	0.0767	2.4900	5.2137	3.44E-05	2.63E-03
Prrc2c	0.1533	6.2000	5.2779	3.74E-26	2.01E-21
Nr2c2ap	0.0667	2.2867	5.3371	1.19E-06	1.07E-04
Zmynd15	0.0200	0.6500	5.7568	4.53E-04	2.80E-02
Tmem87b	0.0600	3.3400	5.7800	2.87E-04	1.87E-02
Wdr26	0.0400	2.4367	6.0154	1.08E-04	7.74E-03
Mapkapk3	0.0000	0.3633	6.3986	7.54E-04	4.41E-02
Plekhg5	0.0333	2.6433	6.4065	1.24E-05	1.00E-03
Zranb2	0.0000	0.3233	6.4584	7.29E-04	4.29E-02
Bicd1	0.0100	0.9500	6.4879	3.95E-07	3.71E-05
Acp5	0.0000	0.7167	6.5057	7.38E-04	4.33E-02
Sigmar1	0.0000	0.6733	6.5063	4.70E-04	2.88E-02
Brd9	0.0100	0.9267	6.5299	2.15E-05	1.68E-03
Gnb5	0.0000	0.4633	6.5620	4.22E-04	2.63E-02
Mettl6	0.0000	1.1700	6.5917	8.08E-04	4.67E-02
Ppp4r3a	0.0233	2.3533	6.5920	1.52E-05	1.22E-03
Mon2	0.0000	0.1800	6.6576	8.08E-04	4.67E-02
Magi1	0.0000	0.1533	6.6614	4.20E-04	2.62E-02
Crocc	0.0000	0.1600	6.6746	3.29E-04	2.11E-02

Lrrc49	0.0000	0.3567	6.7348	4.22E-04	2.63E-02
Adamts10	0.0000	0.2933	6.7405	5.65E-04	3.43E-02
Trak1	0.0067	0.4467	6.7597	4.81E-04	2.95E-02
Galk2	0.0000	0.6167	6.7695	1.65E-04	1.14E-02
Rhpn1	0.0000	0.5533	6.7956	2.05E-04	1.39E-02
Tex9	0.0000	0.6433	6.8056	3.11E-04	2.01E-02
Ptpre	0.0000	0.2400	6.8494	2.18E-04	1.46E-02
Dyrk1a	0.0067	0.7833	6.8521	1.80E-08	4.27E-06
D2hgdh	0.0000	0.2733	6.9410	3.67E-04	2.31E-02
Dlx1	0.0000	0.3667	6.9554	6.06E-05	4.48E-03
Glrx	0.0000	1.0533	6.9740	4.18E-05	3.14E-03
Sirt3	0.0000	1.1467	6.9914	2.03E-04	1.38E-02
Rarres2	0.0000	1.9100	7.0173	6.16E-04	3.69E-02
Zfp473	0.0000	0.3733	7.0321	3.28E-04	2.11E-02
Recql4	0.0000	0.3433	7.0422	5.85E-05	4.34E-03
Hgs	0.0000	0.4933	7.0723	6.67E-05	4.92E-03
Plekha5	0.0000	0.3067	7.0939	3.11E-04	2.00E-02
Fars2	0.0000	1.3800	7.0948	1.66E-04	1.15E-02
Rasa13	0.0000	0.4233	7.1069	6.56E-04	3.89E-02
Art3	0.0000	1.0433	7.1240	3.37E-04	2.15E-02
Nhs11	0.0000	0.2067	7.1321	1.95E-04	1.33E-02
Pdss1	0.0000	0.9033	7.1517	8.37E-05	6.06E-03
Htra3	0.0000	0.5667	7.1544	8.27E-04	4.77E-02
Ahdc1	0.0000	0.2267	7.1849	1.12E-05	9.03E-04
Ablim1	0.0000	0.2467	7.2044	8.03E-05	5.83E-03
Rnmt	0.0000	0.7500	7.2139	2.53E-05	1.96E-03
Zfp558	0.0000	0.4233	7.2320	1.87E-05	1.48E-03
Prpf3	0.0000	0.4700	7.2545	3.11E-05	2.39E-03
Zfyve21	0.0000	1.3033	7.2666	7.37E-06	6.07E-04
Stil	0.0000	0.3133	7.2821	7.95E-06	6.51E-04
Rcsd1	0.0067	1.2833	7.2846	5.02E-07	4.69E-05
Dennd2c	0.0000	0.4667	7.2961	6.28E-04	3.75E-02
Fanc1	0.0000	1.1233	7.3330	2.15E-05	1.68E-03
Sh2d2a	0.0000	0.4033	7.4476	1.89E-05	1.50E-03
Mdfi	0.0000	2.0667	7.4609	2.48E-05	1.93E-03
Afmid	0.0000	0.8733	7.5000	7.36E-06	6.07E-04
Hsf4	0.0000	1.2100	7.5006	8.52E-05	6.16E-03
Sox5	0.0000	0.2500	7.5100	6.02E-04	3.61E-02
Bnc2	0.0000	0.1500	7.5425	6.63E-06	5.50E-04
Relb	0.0167	1.9600	7.5682	5.73E-04	3.47E-02
Cep63	0.0000	0.4833	7.5730	5.43E-05	4.04E-03
Baz2b	0.0000	0.2700	7.6650	5.15E-04	3.15E-02
Irf7	0.0000	1.2800	7.6755	5.13E-06	4.33E-04
Kirrel	0.0000	0.3067	7.7795	2.44E-07	2.36E-05
Pecam1	0.0000	0.7067	7.7925	7.46E-06	6.13E-04
Plekho2	0.0000	0.7400	7.7992	1.52E-06	1.35E-04
Ip6k2	0.0000	1.3400	7.8057	1.44E-06	1.28E-04
Nipa2	0.0000	0.9133	7.8072	2.60E-04	1.71E-02
Mbnl3	0.0000	0.2933	7.8517	3.15E-05	2.41E-03
Cramp11	0.0000	0.3367	7.9270	1.34E-05	1.08E-03
Hmga1	0.0000	1.5867	7.9409	5.10E-07	4.75E-05
Wdr25	0.0000	0.9867	7.9506	1.32E-06	1.18E-04
Usp9x	0.0000	0.2967	7.9727	1.39E-07	1.43E-05
Zbtb37	0.0000	0.7067	8.0242	4.96E-08	6.59E-06
Med25	0.0000	0.7200	8.0267	1.77E-07	1.76E-05
Hccs	0.0000	1.2467	8.0594	1.69E-07	1.70E-05
Zfp967	0.0000	0.8233	8.0824	9.85E-07	8.95E-05
C2cd3	0.0000	0.4100	8.1073	6.82E-06	5.64E-04
Tuft1	0.0000	1.1967	8.1339	7.16E-08	8.81E-06
Gfod2	0.0000	0.6900	8.1381	8.35E-06	6.81E-04
Pla2g4c	0.0000	0.9100	8.1442	5.37E-07	4.97E-05
Rtkn	0.0000	1.6200	8.1446	1.61E-07	1.62E-05
Ciita	0.0000	0.5800	8.1821	1.77E-06	1.56E-04

Rxylt1	0.0000	0.9400	8.1896	3.15E-06	2.71E-04
Fanci	0.0000	0.6867	8.2035	2.18E-07	2.12E-05
Nagk	0.0000	2.7233	8.2093	2.23E-05	1.74E-03
Erg	0.0000	1.0667	8.3159	5.74E-06	4.80E-04
Tfpi	0.0000	2.3600	8.3447	3.52E-07	3.32E-05
Ptprg	0.0000	0.5667	8.3734	2.26E-06	1.97E-04
Zfp37	0.0000	1.0267	8.3796	1.92E-09	1.36E-06
Pla1a	0.0000	2.0600	8.4142	1.87E-07	1.85E-05
Trim59	0.0000	1.2667	8.4343	1.61E-08	4.09E-06
Lima1	0.0000	0.8800	8.4485	4.34E-09	2.19E-06
Bbs4	0.0000	1.6533	8.4792	8.90E-08	1.03E-05
Ilf3	0.0000	1.1467	8.4799	5.07E-10	4.87E-07
Cln7	0.0000	0.9800	8.4923	5.39E-10	5.09E-07
Cdc14a	0.0000	0.9133	8.5294	4.96E-09	2.28E-06
Kdm4b	0.0000	0.7600	8.5811	3.18E-05	2.44E-03
Gigyf1	0.0000	0.6567	8.6133	1.26E-06	1.13E-04
Agfg1	0.0067	1.9900	8.6463	9.54E-11	1.25E-07
Kmt2c	0.0000	0.2567	8.6533	2.75E-07	2.64E-05
Kdm2b	0.0000	0.8767	8.6797	8.63E-11	1.19E-07
Homer1	0.0000	0.9300	8.6964	7.96E-11	1.16E-07
Bcl2l13	0.0000	0.7000	8.7923	1.52E-07	1.53E-05
Esr1	0.0000	0.7967	8.8503	9.98E-10	7.90E-07
Srr	0.0000	1.3533	8.8560	3.65E-07	3.44E-05
Gtf2i	0.0000	1.0200	8.8672	2.08E-06	1.82E-04
Tex2	0.0000	1.1067	8.9542	8.06E-10	6.78E-07
Zc3hav1	0.0000	0.8700	8.9831	1.01E-07	1.13E-05
Sp100	0.0000	2.4767	9.2122	1.56E-12	4.94E-09
Mtif2	0.0000	2.3900	9.2819	7.82E-13	3.24E-09
St6gal1	0.0000	1.7033	9.2948	8.04E-10	6.78E-07
Ccnl1	0.0000	1.8200	9.3159	1.68E-12	5.02E-09
Whrn	0.0000	1.6533	9.3221	1.33E-12	4.49E-09
Cables2	0.0000	2.4567	9.3627	4.40E-10	4.30E-07
Slc11a2	0.0000	1.7233	9.4093	1.71E-11	3.68E-08
Ncapg2	0.0000	1.1300	9.4354	1.20E-11	2.68E-08
Tcf20	0.0000	1.0267	9.4405	7.29E-11	1.09E-07
Mtx3	0.0000	1.1733	9.4439	6.70E-07	6.14E-05
Fubp1	0.0000	1.2633	9.4744	1.74E-10	1.95E-07
Morc4	0.0000	1.9900	9.5329	1.79E-08	4.27E-06
Bclaf1	0.0067	5.2900	9.5469	1.52E-04	1.06E-02
Gbbp1	0.0000	2.3433	9.6340	1.41E-10	1.72E-07
Fkrp	0.0067	6.0933	9.6348	5.13E-05	3.82E-03
Cd2ap	0.0000	1.8667	9.6898	7.13E-12	1.74E-08
Limch1	0.0000	1.5767	9.7641	1.64E-10	1.92E-07
Akap8	0.0000	2.6900	9.7943	6.14E-11	9.72E-08
Ak4	0.0000	2.1833	9.9594	2.28E-13	1.02E-09
Plekhm3	0.0000	1.2933	10.0257	7.10E-04	4.19E-02
Rtn4rl2	0.0000	5.8733	10.0469	7.18E-04	4.23E-02
Ldlr	0.0000	2.7900	10.2108	1.12E-14	7.55E-11
Prpf40a	0.0000	1.8867	10.2923	4.94E-04	3.02E-02
Usp45	0.0000	2.7767	10.6268	2.29E-04	1.52E-02
Son	0.0000	1.5533	10.7420	2.44E-09	1.57E-06
Trim26	0.0000	6.2800	10.8542	4.87E-16	5.25E-12
Ifi203	0.0000	5.1333	11.1887	4.68E-19	1.26E-14
Mtfr1	0.0000	9.7000	11.3362	1.09E-07	1.19E-05
Asb8	0.0000	0.8333	18.9039	1.33E-06	1.18E-04
Gramd3	0.0000	0.7233	18.9039	1.33E-06	1.18E-04
Hdac4	0.0000	0.2100	18.9101	1.32E-06	1.18E-04
Smg9	0.0000	0.8300	18.9101	1.32E-06	1.18E-04
Ube3a	0.0000	0.4400	19.4374	6.60E-07	6.07E-05
Slf2	0.0000	0.2300	19.4481	6.54E-07	6.03E-05
Mitf	0.0000	0.4367	19.8902	3.62E-07	3.41E-05
Mid2	0.0000	0.3300	20.0086	3.08E-07	2.92E-05
Fgfr1	0.0000	0.7633	20.0667	2.83E-07	2.70E-05

Dclk2	0.0000	0.5033	20.1712	2.47E-07	2.38E-05
Obsl1	0.0000	0.3267	20.1712	2.47E-07	2.38E-05
Stk39	0.0000	0.8300	20.3338	1.97E-07	1.92E-05
Tanc2	0.0000	0.2067	20.3435	1.94E-07	1.91E-05
Nfe2l1	0.0000	0.6700	20.3473	1.93E-07	1.90E-05
Nucb1	0.0000	0.9033	20.3501	1.93E-07	1.90E-05
Acvr2b	0.0000	0.2267	20.3516	1.92E-07	1.89E-05
Sfmbt1	0.0000	0.3067	20.3548	1.91E-07	1.89E-05
Zbtb46	0.0000	0.4467	20.3575	1.91E-07	1.89E-05
Mtmr12	0.0033	0.5633	20.3871	1.83E-07	1.82E-05
Pxdn	0.0000	0.3700	20.4166	1.76E-07	1.75E-05
Ndr3	0.0000	0.6500	20.5365	1.50E-07	1.51E-05
Slc27a1	0.0000	0.4767	20.5589	1.45E-07	1.47E-05
Fam126b	0.0000	0.1833	20.5645	1.44E-07	1.47E-05
Slc40a1	0.0000	0.4867	20.5710	1.43E-07	1.46E-05
Hip1r	0.0000	0.3767	20.5965	1.38E-07	1.42E-05
Vps39	0.0000	0.3767	20.5965	1.38E-07	1.42E-05
Appl1	0.0000	0.2367	20.6058	1.36E-07	1.40E-05
Aebp2	0.0000	0.3267	20.6252	1.32E-07	1.37E-05
Rnf111	0.0000	0.4033	20.6252	1.32E-07	1.37E-05
Wdr73	0.0033	0.6867	20.6252	1.32E-07	1.37E-05
Zbtb4	0.0000	0.2867	20.6361	1.30E-07	1.36E-05
Rbms1	0.0000	0.3667	20.6508	1.28E-07	1.34E-05
Zfp518a	0.0000	0.2500	20.6617	1.26E-07	1.32E-05
Fam214a	0.0033	0.4033	20.6698	1.24E-07	1.31E-05
Adgr1	0.0000	0.2467	20.6840	1.22E-07	1.29E-05
Atxn1	0.0000	0.2233	20.7041	1.18E-07	1.26E-05
Larp4b	0.0000	0.2767	20.7041	1.18E-07	1.26E-05
Pigb	0.0000	0.7567	20.7060	1.18E-07	1.26E-05
Apb2	0.0000	0.2700	20.7180	1.16E-07	1.25E-05
Mapk8ip3	0.0000	0.3233	20.7201	1.16E-07	1.24E-05
Cytip	0.0000	0.7367	20.7340	1.14E-07	1.22E-05
Fgf1	0.0000	0.4600	20.7340	1.14E-07	1.22E-05
Mtmr14	0.0000	0.8033	20.7469	1.11E-07	1.21E-05
Lrp8	0.0000	0.2367	20.7478	1.11E-07	1.21E-05
Nsmf	0.0000	0.6367	20.7478	1.11E-07	1.21E-05
Hook3	0.0000	0.1400	20.7531	1.10E-07	1.20E-05
Milt1	0.0000	1.0500	20.7568	1.10E-07	1.20E-05
Abcc5	0.0000	0.1700	20.7611	1.09E-07	1.20E-05
Cplane1	0.0000	0.1967	20.7664	1.08E-07	1.19E-05
Shkbp1	0.0000	0.7967	20.7906	1.05E-07	1.16E-05
Epb41	0.0000	0.3233	20.7990	1.04E-07	1.15E-05
Pcx	0.0000	0.4567	20.7992	1.04E-07	1.15E-05
Pik3cg	0.0000	0.2867	20.8027	1.03E-07	1.15E-05
Armc7	0.0000	0.8967	20.8140	1.01E-07	1.13E-05
Mbnl1	0.0000	0.4700	20.8144	1.01E-07	1.13E-05
Resf1	0.0000	0.2933	20.8144	1.01E-07	1.13E-05
Mier1	0.0000	0.3900	20.8287	9.93E-08	1.12E-05
Mindy2	0.0000	0.2267	20.8287	9.93E-08	1.12E-05
Zfp46	0.0000	0.3967	20.8313	9.89E-08	1.12E-05
Rasgrp4	0.0000	0.4167	20.8394	9.78E-08	1.11E-05
Srsf11	0.0000	0.6133	20.8520	9.60E-08	1.10E-05
Jag2	0.0000	0.4800	20.8703	9.33E-08	1.07E-05
Wdr7	0.0000	0.3200	20.8703	9.33E-08	1.07E-05
Osbpl9	0.0000	0.7967	20.8904	9.09E-08	1.05E-05
Bcas1	0.0000	0.7433	20.9006	8.96E-08	1.03E-05
Pted3	0.0033	0.7600	20.9023	8.94E-08	1.03E-05
Rad18	0.0000	0.8000	20.9182	8.74E-08	1.02E-05
Smarca2	0.0000	1.0400	20.9186	8.73E-08	1.02E-05
Ankrd12	0.0000	0.1833	20.9215	8.70E-08	1.02E-05
Ndst1	0.0000	0.2600	20.9218	8.69E-08	1.02E-05
Wdhd1	0.0000	0.5133	20.9252	8.65E-08	1.02E-05
Gm1966	0.0000	0.2367	20.9300	8.59E-08	1.02E-05

Elmod3	0.0000	0.9333	20.9444	8.42E-08	9.98E-06
Rbm27	0.0000	0.3300	20.9444	8.42E-08	9.98E-06
Mical3	0.0000	0.4433	20.9613	8.15E-08	9.74E-06
Akt3	0.0000	0.3467	20.9660	8.14E-08	9.74E-06
Zc3h18	0.0000	0.4800	20.9716	8.10E-08	9.73E-06
Ttc37	0.0000	0.3400	20.9883	7.91E-08	9.52E-06
Klc1	0.0000	0.9600	20.9895	7.89E-08	9.52E-06
Enpp4	0.0000	0.4967	21.0111	7.65E-08	9.26E-06
Zfp644	0.0000	0.3833	21.0258	7.49E-08	9.08E-06
Fmnl3	0.0000	0.4933	21.0263	7.49E-08	9.08E-06
Fbxo34	0.0000	0.8133	21.0518	7.21E-08	8.84E-06
Pnizr	0.0000	0.5367	21.0690	7.04E-08	8.68E-06
Spred3	0.0000	1.6267	21.0727	6.93E-08	8.59E-06
Zfp868	0.0000	0.9133	21.0792	6.94E-08	8.59E-06
Ptpdc1	0.0000	0.5300	21.0824	6.91E-08	8.59E-06
Foxp1	0.0000	0.3333	21.0850	6.88E-08	8.57E-06
Wdr76	0.0000	0.5333	21.0927	6.81E-08	8.50E-06
Fgd4	0.0000	0.2967	21.1087	6.65E-08	8.35E-06
Sec16b	0.0000	0.5433	21.1233	6.51E-08	8.19E-06
Inpp5b	0.0000	0.6000	21.1254	6.49E-08	8.19E-06
Odr4	0.0000	0.7600	21.1296	6.46E-08	8.16E-06
217615	0.0000	0.9100	21.1908	5.91E-08	7.52E-06
Esp11	0.0000	0.3733	21.1916	5.90E-08	7.52E-06
Cpt1c	0.0000	0.8700	21.1957	5.87E-08	7.50E-06
Mkrm1	0.0000	1.3200	21.2010	5.82E-08	7.46E-06
Rhobtb1	0.0000	0.6533	21.2187	5.67E-08	7.33E-06
Arhgef40	0.0000	0.5000	21.2189	5.68E-08	7.33E-06
Ciz1	0.0000	0.9600	21.2189	5.68E-08	7.33E-06
Ctbp2	0.0000	0.9867	21.2189	5.68E-08	7.33E-06
Pacs2	0.0000	0.4667	21.2779	5.21E-08	6.86E-06
Rab3d	0.0000	0.7067	21.3225	4.88E-08	6.51E-06
Usp37	0.0000	0.3833	21.3519	4.68E-08	6.30E-06
2410002F23Rik	0.0000	1.4833	21.3829	4.48E-08	6.10E-06
Actn1	0.0000	0.7233	21.3952	4.40E-08	6.01E-06
Eif2ak4	0.0033	0.5833	21.3952	4.40E-08	6.01E-06
Misp	0.0000	1.1867	21.4032	4.35E-08	5.97E-06
Wdr81	0.0000	0.4333	21.4056	4.33E-08	5.96E-06
Mark2	0.0000	0.7400	21.4276	4.19E-08	5.80E-06
Slc9a6	0.0000	0.6367	21.4276	4.19E-08	5.80E-06
Wdsub1	0.0000	1.4867	21.4335	4.16E-08	5.78E-06
Arrb1	0.0000	0.6933	21.4488	4.05E-08	5.73E-06
Rab3ip	0.0000	1.0400	21.4824	3.87E-08	5.73E-06
Ranbp3	0.0000	1.3000	21.5139	3.70E-08	5.69E-06
Ube2d1	0.0133	2.4333	21.5139	3.70E-08	5.69E-06
Fam49a	0.0000	0.6700	21.5472	3.52E-08	5.58E-06
Prdm10	0.0000	0.4433	21.5596	3.46E-08	5.53E-06
Frk	0.0000	0.6733	21.5689	3.41E-08	5.50E-06
Scaper	0.0000	0.6300	21.5918	3.30E-08	5.38E-06
Rere	0.0000	0.4533	21.5971	3.27E-08	5.38E-06
Smg1	0.0000	0.2167	21.6020	3.25E-08	5.38E-06
U2surp	0.0000	0.4800	21.6241	3.15E-08	5.33E-06
Tia1	0.0000	0.8933	21.6259	3.14E-08	5.33E-06
Map4k5	0.0000	0.7400	21.6314	3.11E-08	5.33E-06
Bahd1	0.0000	0.7867	21.6425	3.06E-08	5.30E-06
Csnk1e	0.0000	1.2567	21.6533	3.01E-08	5.30E-06
Plec	0.0000	0.2267	21.6607	2.98E-08	5.27E-06
Nbeal1	0.0000	0.2200	21.6777	2.91E-08	5.23E-06
Zfp518b	0.0000	0.5333	21.7050	2.79E-08	5.22E-06
Mtmr2	0.0000	0.9233	21.7455	2.63E-08	5.04E-06
Ggta1	0.0000	1.0967	21.7701	2.54E-08	4.93E-06
Fnbp1	0.0000	0.7233	21.8780	2.16E-08	4.57E-06
Foxn3	0.0033	0.5400	21.9358	1.99E-08	4.49E-06
Clcn3	0.0000	0.7567	21.9808	1.86E-08	4.31E-06

Gak	0.0000	1.0933	22.0583	1.65E-08	4.09E-06
Tmem106b	0.0000	0.7567	22.0666	1.63E-08	4.09E-06
Fam234b	0.0000	1.1600	22.1030	1.55E-08	4.07E-06
1600012H06Rik	0.0000	2.0433	22.1870	1.36E-08	3.89E-06
Tln2	0.0000	0.4233	22.2012	1.34E-08	3.82E-06
Chd3	0.0000	0.7867	22.3377	1.09E-08	3.45E-06
Rnf10	0.0000	2.2367	22.4342	9.40E-09	3.30E-06
1700019D03Rik	0.0000	2.9667	23.1443	3.15E-09	1.93E-06
Rap1gds1	0.0100	4.3367	23.6019	3.53E-11	6.79E-08

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