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Manuscript Title: Comparative Multidimensional Molecular Analyses of Pediatric Diffuse Intrinsic Pontine Glioma Reveals Distinct Molecular Subtypes

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Gene ID	p-value (Dx)	MeanRatio (DIPG vs. Astrocytoma and Ependymoma and Glioneural Tumor and JPA and Medulloblastoma and Meningioma)	FoldChange (DIPG vs. Astrocytoma and Ependymoma and Glioneural Tumor and JPA and Medulloblastoma and Meningioma)	F(Dx)	SS(Dx)	SS (Error)	F (Error)
DNASE1L3	9.51E-21	0.0107371	-93.1353	420.233	3352.8	27.9245	1
TPR	1.93E-18	0.123307	-8.10983	251.738	3918.02	54.4736	1
PRG4	2.92E-18	-0.0738187	-13.5467	241.866	1874.22	27.1214	1
CFH	6.88E-18	-0.03949	-25.3229	222.556	3692.46	58.069	1
CPA4	7.02E-18	0.0731715	-13.6665	222.128	1615.5	25.455	1
SCARA5	2.30E-17	0.0174505	-57.3049	197.913	1431.8	25.3208	1
PRG4	2.75E-17	-0.00871078	-114.8	194.552	1588.06	28.5692	1
LOC645638	3.01E-17	0.0314382	-31.8084	192.824	1540.75	27.9667	1
OGN	5.29E-17	-0.0284055	-35.2045	182.552	2071.79	39.7218	1
OMD	2.47E-15	-0.0333182	-30.0136	125.306	1561.39	43.6123	1
CFH	6.57E-15	-0.0713125	-14.0228	113.796	1918.27	58.9999	1
KIAA1199	7.11E-15	-0.177884	-5.62163	112.926	1815.44	56.2673	1

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SLC47A1	9.74E-15	0.0649308	-15.401	109.465	2088.43	66.7748	1
OGN	1.28E-14	-0.0361667	-27.6498	106.578	879.053	28.868	1
FABP4	1.64E-13	0.0504111	-19.8369	82.6719	637.376	26.984	1
IGFBP6	2.13E-13	-0.261895	-3.81832	80.5553	682.646	29.6599	1
OLFML2A	4.75E-13	0.179457	-5.57237	74.3198	1662.05	78.2724	1
CFH	5.00E-13	0.0045803	-218.327	73.9402	1059.22	50.1386	1
NOV	7.14E-13	-0.0426764	-23.4321	71.3248	1740.02	85.385	1
EGFL6	7.33E-13	0.0152908	-65.3988	71.1439	955.501	47.0069	1
SFRP2	9.58E-13	0.187883	-5.32245	69.2422	1210.09	61.1667	1
SPTLC3	4.32E-12	0.02627	-38.0663	59.4383	581.623	34.2486	1
INMT	4.42E-12	0.0322503	-31.0075	59.2985	694.229	40.9758	1
DSP	5.09E-12	0.0300459	-33.2825	58.4482	465.278	27.8619	1
PKP2	7.42E-12	0.0656835	-15.2245	56.245	492.14	30.6247	1
GFAP	7.45E-12	-0.0524153	-19.0784	56.2188	4160.21	259.001	1
BMP4	1.03E-11	0.0608471	-16.4346	54.378	1252.2	80.597	1
LEPR	1.77E-11	0.0115113	-86.8712	51.4583	468.391	31.8582	1
SLC7A2	2.05E-11	-0.0520621	-19.2078	50.6732	757.941	52.351	1
LOC646723	4.32E-11	-0.27088	-3.69168	46.9199	561.352	41.8742	1
LEPR	6.35E-11	-0.0129145	-77.4326	45.0742	435.582	33.8229	1
GJB2	6.54E-11	-0.144688	-6.91143	44.9372	565.959	44.0806	1
GJB6	7.05E-11	2.04799	2.04799	44.5854	45.5581	3.57636	1
AOX1	7.11E-11	0.0755029	-13.2445	44.5508	423.48	33.2694	1
KLK6	7.55E-11	0.191059	-5.23399	44.2722	474.776	37.534	1
FOXD2	7.73E-11	0.0894962	-11.1737	44.1621	557.077	44.1503	1
CLEC3B	9.35E-11	-0.101487	-9.85348	43.295	550.355	44.4911	1
EGFL6	9.38E-11	0.140905	-7.09699	43.2788	509.487	41.2027	1
SEC14L5	9.88E-11	-0.0716292	-13.9608	43.0449	323.863	26.3334	1

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IGF2	1.89E-10	0.0594116	-16.8317	40.2136	946.503	82.3791	1
SPTLC3	2.05E-10	0.0939977	-10.6386	39.8745	304.843	26.7577	1
LOX	2.22E-10	0.121211	-8.25011	39.5503	475.417	42.0719	1
CDH1	2.71E-10	0.302346	-3.30746	38.7177	500.196	45.2167	1
HSD17B2	4.33E-10	0.041973	-23.8248	36.8507	285.236	27.0911	1
LTF	5.14E-10	-0.201784	-4.95579	36.1826	487.718	47.1778	1
CYP4X1	5.76E-10	-2.7464	2.7464	35.7461	270.893	26.5238	1
NDUFA4L2	7.46E-10	0.0983485	-10.1679	34.7748	691.272	69.5747	1
AK5	1.10E-09	0.00468706	-213.353	33.3542	708.824	74.3799	1
SOX8	1.49E-09	-0.235424	-4.24765	32.3043	1006.64	109.064	1
FMO1	1.67E-09	0.0410385	-24.3674	31.9028	320.407	35.1513	1
ERMN	3.21E-09	-0.0497368	-20.1058	29.7265	252.912	29.7779	1
NDRG4	3.58E-09	0.0506575	-19.7404	29.3718	602.747	71.8246	1
C1R	6.09E-09	-0.44497	-2.24734	27.7166	270.714	34.1853	1
VCAM1	6.18E-09	0.423878	-2.35917	27.6734	714.904	90.4176	1
THSD4	7.64E-09	0.0546271	-18.3059	27.0332	204.585	26.4877	1
TMEM151A	9.14E-09	-0.0890641	-11.2279	26.5044	261.809	34.5729	1
PTGDR	1.10E-08	0.0348418	-28.7012	25.9658	201.534	27.1654	1
CHI3L2	1.32E-08	0.230219	-4.34368	25.4566	284.431	39.1061	1
SLC22A2	1.39E-08	0.134508	-7.43451	25.2975	216.813	29.9968	1
CCL26	1.48E-08	0.248646	-4.02179	25.1249	160.127	22.3064	1
IGF2	1.52E-08	0.146842	-6.81003	25.0488	440.343	61.5278	1
KIF1A	1.77E-08	0.101075	-9.89367	24.631	888.678	126.279	1
CLEC1A	1.86E-08	-0.0222947	-44.8538	24.5035	300.387	42.9062	1
PRSS35	2.23E-08	0.224241	-4.4595	24.0003	272.548	39.7461	1
KLF4	3.15E-08	0.037525	-26.6489	23.0914	357.093	54.125	1
COL1A2	4.23E-08	-0.168246	-5.94368	22.3373	1380.3	216.278	1

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FOSB	4.42E-08	0.000951801	-1050.64	22.2232	996.24	156.901	1
SMOC2	5.51E-08	0.121293	-8.24447	21.6772	247.366	39.9396	1
C1R	5.77E-08	-0.43131	-2.31852	21.5604	257.695	41.8327	1
PAQR6	6.38E-08	-0.013062	-76.558	21.3159	393.063	64.5397	1
COL1A1	6.42E-08	-0.117127	-8.53776	21.3017	840.539	138.105	1
CNTNAP4	7.07E-08	0.0781455	-12.7966	21.067	241.513	40.124	1
SLPI	9.87E-08	0.292965	-3.41338	20.2782	155.94	26.915	1
CALB2	1.16E-07	0.0102172	-97.874	19.91	361.448	63.5394	1
GALNT9	1.18E-07	0.0822735	-12.1546	19.8663	149.897	26.4086	1
DACT1	1.19E-07	0.0276949	-36.1077	19.8515	207.658	36.6119	1
CAMK2B	1.50E-07	-0.022012	-45.4299	19.3206	367.438	66.5628	1
CPXM2	1.72E-07	-0.156016	-6.40959	19.0115	222.396	40.943	1
CDH19	1.73E-07	0.161353	-6.19759	19.0061	541.888	99.7892	1
FGL2	1.81E-07	0.0268162	-37.2909	18.8963	364.989	67.6038	1
4-Sep	1.91E-07	0.0751701	-13.3032	18.7872	330.902	61.6463	1
LEPR	1.98E-07	0.0192786	-51.871	18.7087	211.965	39.6541	1
LOC646588	2.01E-07	-42.2005	42.2005	18.6732	58.7223	11.0066	1
EGFLAM	2.01E-07	0.0273428	-36.5727	18.6731	216.736	40.624	1
ACADL	2.07E-07	0.346482	-2.88615	18.6076	152.798	28.7406	1
PPAPDC1A	2.68E-07	0.35376	-2.82678	18.0529	286.154	55.4779	1
MXRA5	2.80E-07	-0.305253	-3.27597	17.9602	428.582	83.5202	1
DAB2	2.83E-07	0.178819	-5.59224	17.9364	250.766	48.933	1
UNC13C	2.85E-07	-0.0435445	-22.965	17.9244	131.069	25.5931	1
BEX1	2.95E-07	0.131219	-7.62082	17.848	890.136	174.556	1
ARHGDI3	3.13E-07	-0.0453897	-22.0314	17.7244	103.502	20.4384	1
GRIN1	3.14E-07	0.0505781	-19.7714	17.7216	635.308	125.473	1
DSG2	3.48E-07	0.112654	-8.87673	17.5047	236.257	47.2386	1

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COPZ2	3.57E-07	-0.0910452	-10.9836	17.4526	149.338	29.9486	1
OLFML1	4.04E-07	0.0457798	-21.8437	17.1964	152.781	31.0956	1
ANXA2P1	4.24E-07	-0.224186	-4.46059	17.1024	180.954	37.0321	1
SVEP1	4.48E-07	0.270582	-3.69574	16.9891	230.33	47.4513	1
CACNA1I	4.65E-07	-0.0873518	-11.448	16.9147	103.881	21.4951	1
SLC12A5	5.05E-07	0.181184	-5.51926	16.7475	976.893	204.157	1
PCBP4	5.14E-07	-0.0382874	-26.1183	16.7127	241.543	50.5841	1
ADH1A	5.51E-07	-0.122357	-8.1728	16.5752	128.564	27.1474	1
EGFLAM	6.33E-07	0.207302	-4.82388	16.3003	345.626	74.213	1
DHRS9	6.71E-07	-4.53542	4.53542	16.1873	47.9867	10.3756	1
C2orf40	7.25E-07	0.130196	-7.68072	16.038	562.712	122.801	1
COLEC12	7.32E-07	-0.0374183	-26.7249	16.0187	246.266	53.8076	1
TNFRSF11B	7.41E-07	-0.222331	-4.4978	15.9936	224.668	49.1657	1
KCNJ4	8.01E-07	-5.32407	5.32407	15.846	72.1759	15.9419	1
PTPRR	8.57E-07	-26.3832	26.3832	15.7161	47.2541	10.5236	1
FLJ40504	9.62E-07	-0.329264	-3.03708	15.4968	141.832	32.0333	1
CMTM8	1.01E-06	0.366321	-2.72984	15.4116	350.676	79.6393	1
LEPR	1.22E-06	0.0553656	-18.0618	15.0532	135.865	31.5898	1
C1S	1.23E-06	-0.0543548	-18.3976	15.0453	356.094	82.8383	1
SULT4A1	1.24E-06	-0.0813952	-12.2857	15.0273	102.85	23.9547	1
F13A1	1.39E-06	0.00590281	-169.411	14.8191	165.197	39.0165	1
FOXC1	1.49E-06	-0.0954113	-10.4809	14.696	534.562	127.312	1
GYPC	1.49E-06	0.136748	-7.31271	14.6876	171.813	40.9425	1
DCN	1.50E-06	-0.477381	-2.09476	14.678	212.271	50.6164	1
PCTK3	1.52E-06	-0.0667617	-14.9787	14.6532	142.774	34.1025	1
GNAO1	1.62E-06	0.101019	-9.89911	14.5448	291.558	70.1595	1
GPM6B	1.63E-06	0.0922159	-10.8441	14.5248	1438.87	346.721	1

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FMOD	1.72E-06	0.0695342	-14.3814	14.4355	142.875	34.641	1
FAM123A	1.80E-06	0.065875	-15.1803	14.3505	1337.11	326.113	1
OLIG1	1.86E-06	-0.413006	-2.42127	14.2979	572.984	140.262	1
FMO2	1.99E-06	-0.178855	-5.59113	14.1774	130.878	32.31	1
DACT1	2.08E-06	0.0339949	-29.4162	14.0941	165.379	41.0687	1
CLIC6	2.18E-06	0.483303	-2.06909	14.0155	381.727	95.3264	1
S100A4	2.30E-06	0.110344	-9.06254	13.9229	311.555	78.32	1
EGFLAM	2.55E-06	-0.101711	-9.8318	13.7461	128.214	32.6456	1
RNASE2	2.57E-06	-0.449415	-2.22511	13.7305	132.796	33.8507	1
PLEKHB1	2.73E-06	0.336449	-2.97222	13.6283	509.141	130.757	1
CYR61	2.74E-06	0.0779726	-12.825	13.6221	613.765	157.699	1
KCNJ4	3.15E-06	-0.119368	-8.37747	13.3835	76.9915	20.1345	1
PDE1A	3.70E-06	-2.85087	2.85087	13.1158	108.567	28.9715	1
SYN1	3.88E-06	0.0265781	-37.625	13.0373	773.327	207.608	1
S100A4	3.94E-06	0.028247	-35.402	13.0142	293.174	78.8453	1
KIAA1644	3.94E-06	-0.113779	-8.78895	13.0114	79.2279	21.312	1
GAS7	4.08E-06	-0.0787714	-12.695	12.9547	171.145	46.2386	1
LOC202134	4.26E-06	-0.181208	-5.51852	12.8852	70.935	19.2681	1
PCOLCE	4.49E-06	0.0364581	-27.4288	12.8003	201.638	55.1342	1
ENPP6	4.71E-06	-49.1695	49.1695	12.7207	119.512	32.8826	1
CD163	4.77E-06	-0.315451	-3.17007	12.7001	367.397	101.251	1
NFKBIZ	4.92E-06	-0.021119	-47.3507	12.6496	247.673	68.5284	1
COL5A1	5.02E-06	0.42358	-2.36083	12.6193	355.99	98.7349	1
PLAC9	5.02E-06	-0.188294	-5.31083	12.6169	182.349	50.5845	1
EEF1A2	5.09E-06	-0.0317907	-31.4557	12.596	780.022	216.741	1
CAV2	5.10E-06	0.149456	-6.69093	12.5925	418.277	116.257	1
TUBB4	5.23E-06	0.297367	-3.36285	12.5528	1591.11	443.636	1

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GMDS	5.74E-06	0.289423	-3.45514	12.4035	510.971	144.185	1
HEPACAM	6.13E-06	0.0762888	-13.1081	12.3005	1051.43	299.176	1
PDE1A	6.26E-06	-7.00047	7.00047	12.2669	138.992	39.6573	1
FRZB	6.76E-06	0.0800371	-12.4942	12.1465	652.111	187.905	1
PDGFRL	7.15E-06	-2.21318	2.21318	12.0582	76.8074	22.294	1
LY6H	7.42E-06	-0.0383684	-26.0631	11.9998	287.45	83.841	1
OSMR	8.16E-06	-0.380657	-2.62704	11.8535	120.452	35.566	1
COL11A1	8.17E-06	0.401263	-2.49213	11.8524	203.873	60.2036	1
KIAA1239	8.33E-06	-25.1861	25.1861	11.8224	34.0788	10.089	1
MPPED1	9.37E-06	-0.368834	-2.71125	11.6424	58.3848	17.5519	1
LYZ	1.00E-05	-0.0704014	-14.2043	11.5408	275.218	83.4656	1
VCAM1	1.04E-05	0.0649881	-15.3874	11.4901	101.648	30.9631	1
AK5	1.06E-05	-31.5337	31.5337	11.4537	463.069	141.504	1
ANKRD18A	1.07E-05	-8.97136	8.97136	11.4448	49.1161	15.0205	1
GLT8D2	1.07E-05	-0.302417	-3.3067	11.4382	138.506	42.3817	1
KLF4	1.09E-05	-0.0174218	-57.3992	11.4115	97.6358	29.9456	1
EDNRA	1.10E-05	0.305043	-3.27823	11.4013	265.341	81.4552	1
CIDEA	1.10E-05	-0.366064	-2.73177	11.3934	36.1792	11.1141	1
COL6A3	1.16E-05	-0.134639	-7.42724	11.3147	375.007	116.002	1
APLN	1.20E-05	0.0855813	-11.6848	11.2738	542.876	168.539	1
LHX6	1.22E-05	-20.0601	20.0601	11.244	44.5037	13.853	1
TCEAL2	1.24E-05	0.0928182	-10.7737	11.2247	424.866	132.479	1
TNNC1	1.34E-05	-0.0303211	-32.9804	11.1059	84.8738	26.7478	1
MCTP1	1.36E-05	-25.2512	25.2512	11.0848	41.8721	13.221	1
NPTX1	1.37E-05	-0.0383026	-26.1079	11.0776	808.484	255.442	1
C1QTNF1	1.50E-05	-0.0103758	-96.3782	10.9392	439.34	140.567	1
EPB41L1	1.57E-05	-0.0456455	-21.908	10.8793	74.4284	23.9446	1

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LOC202134	1.78E-05	-16.7554	16.7554	10.6993	61.48	20.1115	1
CAPN3	1.84E-05	-0.045709	-21.8775	10.6447	105.555	34.7066	1
LOC100129076	1.88E-05	0.153555	-6.51233	10.614	180.259	59.4408	1
LY6H	2.03E-05	0.0624633	-16.0094	10.5077	245.156	81.6587	1
ABCA2	2.07E-05	-0.0248195	-40.2909	10.4785	246.486	82.3308	1
A2BP1	2.16E-05	-219.873	219.873	10.4206	37.5379	12.6079	1
MAMDC2	2.17E-05	-0.119879	-8.34176	10.4171	149.95	50.3813	1
NCDN	2.23E-05	0.0173904	-57.5031	10.3796	88.709	29.9126	1
PRSS23	2.26E-05	-0.188538	-5.30397	10.3599	212.357	71.743	1
ASS1	2.28E-05	-0.0980171	-10.2023	10.3424	151.831	51.3814	1
LDB3	2.45E-05	-20.537	20.537	10.2471	27.7292	9.47121	1
MPZL2	2.56E-05	-0.0405674	-24.6503	10.1864	168.558	57.9157	1
PPIC	2.56E-05	-0.0679178	-14.7237	10.1845	284.726	97.8485	1
S100A13	2.58E-05	-0.233188	-4.28839	10.1755	62.5154	21.503	1
CA3	2.67E-05	0.321693	-3.10855	10.1277	87.4586	30.2246	1
UGT8	2.69E-05	-0.108517	-9.21513	10.1141	337.681	116.855	1
PLA2G2A	2.70E-05	-0.0709856	-14.0874	10.1085	3624.51	1254.96	1
AQP4	2.96E-05	0.0722939	-13.8324	9.9863	640.291	224.409	1
PRKCZ	2.97E-05	0.0197786	-50.5598	9.98001	144.515	50.6816	1
CPEB3	3.04E-05	-0.0322493	-31.0085	9.94983	117.18	41.2198	1
CTGF	3.11E-05	-0.251239	-3.98027	9.91782	268.959	94.9157	1
HSP90AA1	3.24E-05	-0.0917454	-10.8997	9.86021	97.0253	34.4403	1
LOC440359	3.25E-05	0.379707	-2.63361	9.85785	259.261	92.0497	1
FXD5	3.38E-05	0.367864	-2.71839	9.80657	195.58	69.8031	1
ZNF365	3.39E-05	-0.0592295	-16.8835	9.80274	312.228	111.479	1
GPR34	3.47E-05	-0.456223	-2.19191	9.7694	137.997	49.4389	1
FSTL1	3.59E-05	0.046535	-21.4892	9.72555	439.348	158.111	1

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COL8A2	3.60E-05	-0.059821	-16.7165	9.72117	81.4383	29.321	1
CD163	3.61E-05	-0.243023	-4.11483	9.71542	353.275	127.268	1
ELAVL3	3.69E-05	0.110249	-9.07038	9.68533	179.92	65.0178	1
TGFBI	3.91E-05	0.230062	-4.34665	9.61028	517.556	188.491	1
CTSK	4.04E-05	0.292125	-3.42319	9.56712	275.804	100.899	1
MAP4	4.28E-05	0.252445	-3.96126	9.48919	138.546	51.1015	1
ARHGDIG	4.34E-05	-40.189	40.189	9.4721	67.1133	24.7988	1
GPR124	4.46E-05	-0.0668909	-14.9497	9.43504	103.426	38.3667	1
COBL	4.49E-05	0.302021	-3.31103	9.42806	454.239	168.628	1
C7	4.61E-05	-0.245464	-4.07392	9.39286	76.5107	28.5097	1
MPPED1	4.64E-05	-41.5294	41.5294	9.38327	34.8015	12.9811	1
LOC340274	4.65E-05	-0.351203	-2.84735	9.38092	57.3138	21.3837	1
SLCO1A2	4.69E-05	-4.16267	4.16267	9.36865	45.6412	17.0509	1
ABCC3	5.17E-05	-0.440013	-2.27266	9.24401	238.691	90.374	1
HHIP	5.17E-05	-16.9895	16.9895	9.24325	37.6056	14.2395	1
TAGLN3	5.51E-05	0.364464	-2.74375	9.16121	684.036	261.333	1
MT3	5.66E-05	0.173602	-5.7603	9.12684	2237.69	858.12	1
CHN2	5.68E-05	0.0435599	-22.9569	9.12136	165.512	63.5095	1
C3	5.77E-05	-0.0657765	-15.203	9.10157	119.098	45.799	1
FAIM2	6.04E-05	0.349343	-2.86251	9.0425	478.567	185.235	1
ECM2	6.10E-05	0.0111968	-89.3113	9.0302	97.8463	37.924	1
SYN2	6.15E-05	0.304639	-3.28257	9.01973	187.715	72.8407	1
LOC653879	6.28E-05	-0.441049	-2.26732	8.99386	143.503	55.845	1
TMEM151A	6.31E-05	-10.9503	10.9503	8.98824	103.862	40.4436	1
CDKN2D	6.47E-05	0.0266125	-37.5764	8.95525	63.2601	24.7241	1
SNAI2	6.57E-05	0.319686	-3.12806	8.93585	170.077	66.6159	1
4-Sep	6.64E-05	8.64721	8.64721	8.92171	113.322	44.4563	1

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CRIP1	6.71E-05	-0.0350844	-28.5027	8.9102	942.519	370.229	1
PPP2R2B	6.80E-05	0.0115364	-86.6824	8.89216	360.833	142.026	1
SCN2A	7.22E-05	-0.0310748	-32.1804	8.81728	350.442	139.107	1
SYT15	7.27E-05	-5.59994	5.59994	8.80857	44.8467	17.8194	1
STMN2	7.27E-05	0.208759	-4.79021	8.8083	2202.28	875.081	1
COL6A2	7.36E-05	0.331353	-3.01793	8.79218	111.694	44.4633	1
DAB2	7.52E-05	0.215067	-4.64971	8.76638	164.134	65.5311	1
SULF1	7.80E-05	-0.0741582	-13.4847	8.71943	373.768	150.031	1
GPIHBP1	7.90E-05	-0.059042	-16.9371	8.70424	100.844	40.5497	1
CAPN3	8.13E-05	-0.0300084	-33.324	8.66922	183.651	74.1447	1
KCNMA1	8.23E-05	-3.44057	3.44057	8.6535	147.564	59.6839	1
ABCA9	8.33E-05	-7.67746	7.67746	8.63895	34.0513	13.7956	1
SLC4A5	8.44E-05	-110.902	110.902	8.6217	31.9677	12.9774	1
DBNDD2	8.70E-05	-0.0365218	-27.3809	8.58445	163.797	66.7823	1
CYP4X1	8.74E-05	13.5621	13.5621	8.57903	46.6709	19.0404	1
ERMN	9.01E-05	24.2623	24.2623	8.54189	130.055	53.2896	1
TRIM22	9.33E-05	-0.457743	-2.18463	8.49904	151.966	62.5812	1
PPP4R4	9.48E-05	-26.7545	26.7545	8.47864	31.96	13.1931	1
NAPSB	9.57E-05	-2.12877	2.12877	8.46747	126.756	52.3942	1
NCDN	9.83E-05	-769.364	769.364	8.43439	86.0991	35.7283	1
ZNF365	0.0001019	-25.9043	25.9043	8.39114	186.749	77.8942	1
PLP1	0.0001039	0.292649	-3.41706	8.3666	2331.1	975.17	1
RARRES2	0.0001071	-0.191536	-5.22095	8.33047	286.337	120.303	1
MAPK8IP2	0.0001101	-0.0492614	-20.2999	8.29684	43.4669	18.3364	1
KDELR3	0.0001131	-0.160076	-6.24704	8.26402	78.7632	33.358	1
KDELR3	0.0001163	-0.104331	-9.58491	8.23125	90.9491	38.6724	1
PRKCZ	0.0001163	0.0133079	-75.1434	8.23076	193.183	82.1482	1

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GALNTL2	0.0001172	-0.271086	-3.68887	8.22119	112.414	47.8581	1
SERPINI1	0.0001182	0.298404	-3.35116	8.21134	219.667	93.6308	1
LOC100133511	0.0001199	-0.20253	-4.93754	8.19418	127.889	54.6255	1
ECM2	0.0001319	-0.00259733	-385.011	8.08025	252.004	109.157	1
MATK	0.0001335	-0.252491	-3.96053	8.06557	94.1257	40.8452	1
SLCO3A1	0.000135	0.0804778	-12.4258	8.05244	59.7752	25.9813	1
SLCO1A2	0.0001373	-10.3217	10.3217	8.03264	32.5376	14.1774	1
CTGF	0.0001449	-0.239504	-4.17529	7.96888	142.001	62.368	1
SYT7	0.000145	-0.0746777	-13.3909	7.96817	274.519	120.582	1
OSR1	0.000148	4.94306	4.94306	7.94444	178.358	78.5776	1
NBL1	0.000151	3.98658	3.98658	7.92071	112.627	49.7677	1
SCN3B	0.0001539	0.24339	-4.10863	7.89847	92.1232	40.822	1
SCN1B	0.0001659	0.0544914	-18.3515	7.81016	35.3392	15.8367	1
SLCO3A1	0.0001687	0.227663	-4.39245	7.79131	50.4658	22.6702	1
ZNF436	0.000174	-15.6611	15.6611	7.75511	43.6512	19.7004	1
PMP2	0.0001804	-0.286902	-3.48551	7.71313	803.597	364.65	1
GUCY1A3	0.000181	-0.226982	-4.40564	7.70964	168.585	76.5338	1
RGS20	0.0001819	-4.80798	4.80798	7.70351	48.1307	21.8676	1
4-Sep	0.0001826	0.241627	-4.1386	7.69917	192.394	87.4612	1
BRUNOL4	0.0001845	-98.827	98.827	7.68768	23.2899	10.6033	1
EPB41L1	0.0001849	-81.5736	81.5736	7.68516	51.2456	23.3384	1
MIR155HG	0.0001853	-0.0118577	-84.3336	7.68236	71.9916	32.7986	1
KRT18P13	0.000187	-0.24282	-4.11828	7.67168	62.722	28.6153	1
PTPRR	0.000188	-0.0548314	-18.2377	7.66585	37.0071	16.8964	1
LPAR1	0.00019	0.169719	-5.89208	7.65354	288.724	132.035	1
ASS1	0.0001932	-0.0838944	-11.9198	7.63438	112.523	51.5863	1
TPD52L1	0.0001966	54.7848	54.7848	7.61454	54.1338	24.8824	1

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TTYH1	0.0001972	-0.346835	-2.88322	7.61105	501.046	230.41	1
CRYM	0.0001984	-3.49778	3.49778	7.60396	27.9341	12.8577	1
LHX6	0.000201	-0.0648227	-15.4267	7.58927	40.8938	18.8593	1
KIAA1239	0.0002022	-0.151163	-6.61537	7.58231	31.6692	14.6185	1
RARRES3	0.0002025	-2126.37	2126.37	7.58057	152.45	70.3872	1
ISLR	0.0002069	-0.183843	-5.43944	7.55624	108.308	50.1677	1
LOC642956	0.0002111	-28.0545	28.0545	7.53314	90.2542	41.9334	1
NBL1	0.0002224	8.55766	8.55766	7.47407	142.538	66.7486	1
SOX10	0.0002249	-0.32659	-3.06194	7.46096	242.159	113.599	1
LOC387856	0.0002251	-0.306024	-3.26771	7.45995	57.8807	27.156	1
C8orf34	0.0002348	-0.14582	-6.85777	7.41255	80.8648	38.1821	1
ANXA2	0.000236	-0.127365	-7.85148	7.40671	160.768	75.97	1
MSRB3	0.000242	0.0812471	-12.3081	7.3786	99.9701	47.4203	1
ARHGEF10L	0.0002426	-0.231701	-4.31592	7.37562	42.4383	20.1385	1
CAMK2B	0.0002455	98.9725	98.9725	7.36226	98.3089	46.7358	1
ATF3	0.0002489	6.78266	6.78266	7.347	97.8506	46.6145	1
MTUS1	0.0002604	-0.183046	-5.46312	7.29612	130.845	62.7675	1
ATP2B2	0.0002605	-0.0354416	-28.2154	7.29573	72.6742	34.8642	1
CAV2	0.0002607	0.25797	-3.87642	7.29496	597.926	286.875	1
PENK	0.0002712	-3.17895	3.17895	7.25078	56.5217	27.2834	1
VSNL1	0.0002758	0.300959	-3.32271	7.23235	770.547	372.896	1
AIF1L	0.0002779	0.227541	-4.39481	7.22382	301.195	145.931	1
AGR2	0.0002855	0.472347	-2.11709	7.19398	48.1727	23.4369	1
SYNM	0.0002868	0.090725	-11.0223	7.189	160.509	78.1444	1
DMRT2	0.0003022	-0.310409	-3.22155	7.13114	77.3162	37.9472	1
LOC283755	0.0003126	-77.1501	77.1501	7.0939	32.4543	16.0123	1
ARPP-21	0.0003191	0.0543164	-18.4106	7.07132	158.554	78.4772	1

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HOXB6	0.0003192	-4.0415	4.0415	7.07097	28.6076	14.1603	1
SUSD1	0.0003219	0.486903	-2.0538	7.06175	167.43	82.983	1
ENDOD1	0.0003273	4.96669	4.96669	7.04334	103.82	51.5904	1
CAV1	0.0003301	0.174608	-5.72712	7.0341	272.039	135.36	1
HOXD3	0.0003345	-2.45312	2.45312	7.01962	56.8869	28.364	1
PCDH17	0.0003429	-0.296784	-3.36945	6.99274	276.865	138.576	1
KALRN	0.0003439	-0.302244	-3.30859	6.98956	26.484	13.2618	1
MSRB3	0.0003476	0.000122508	-8162.74	6.97788	73.252	36.7421	1
BCAN	0.0003515	-3.66722	3.66722	6.96575	504.635	253.558	1
LOC100128675	0.0003553	-0.279536	-3.57736	6.95393	27.0446	13.6119	1
C5orf23	0.0003747	0.290866	-3.43801	6.89639	62.6982	31.8201	1
DMD	0.0003758	-0.202848	-4.92979	6.89323	77.6452	39.424	1
BNC2	0.0003783	-0.149032	-6.70996	6.886	146.773	74.6012	1
ASPHD1	0.0003793	0.136855	-7.30701	6.88306	55.6675	28.3067	1
COL1A2	0.0003975	0.0761863	-13.1257	6.83275	640.487	328.083	1
SCRG1	0.0004038	-0.0328861	-30.408	6.81569	536.943	275.732	1
SLCO3A1	0.0004222	-715.297	715.297	6.76802	44.0876	22.7994	1
CLDN10	0.0004305	-10.6292	10.6292	6.74722	58.2647	30.2238	1
FAM20C	0.000435	-0.0841384	-11.8852	6.7361	120.935	62.8364	1
SH3GL2	0.0004443	0.334254	-2.99174	6.71368	401.998	209.571	1
PCBP4	0.0004484	-93.1443	93.1443	6.70387	127.677	66.6583	1
MYRIP	0.0004538	-16.0088	16.0088	6.69112	26.4186	13.8191	1
SYT15	0.0004538	-0.0881756	-11.341	6.69105	52.5087	27.4666	1
LOC100133583	0.0004543	0.112839	-8.86217	6.68998	137.542	71.9581	1
ARRDC2	0.0004701	-0.120857	-8.27427	6.65355	60.0389	31.5825	1
EMX2	0.0004766	2.71272	2.71272	6.63912	48.4122	25.5219	1
HCLS1	0.0004847	-0.215349	-4.64361	6.62136	173.349	91.6308	1

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CPEB3	0.0004906	-4.56023	4.56023	6.60857	64.243	34.0241	1
RTKN	0.0004967	-0.161225	-6.20253	6.59548	185.196	98.2772	1
GSN	0.000502	-2.56836	2.56836	6.58425	141.825	75.3901	1
SCN9A	0.0005024	0.421028	-2.37514	6.58348	112.135	59.615	1
TCTEX1D1	0.000506	-0.0468336	-21.3522	6.57587	149.751	79.7048	1
NQO1	0.0005346	-34.7058	34.7058	6.51818	78.392	42.0933	1
BAALC	0.000546	0.0863456	-11.5814	6.49617	188.358	101.483	1
REPS2	0.0005543	50.1705	50.1705	6.48041	39.5485	21.3597	1
PALM2	0.0005635	0.0659198	-15.17	6.4632	87.4553	47.3594	1
ANKRD18A	0.0005664	-0.0227911	-43.8768	6.45796	42.8782	23.2386	1
LTBR	0.0005669	-0.29668	-3.37064	6.45698	101.847	55.2061	1
KCNT2	0.000575	0.498909	-2.00437	6.44227	117.123	63.6316	1
ECM1	0.000577	0.103675	-9.64556	6.43864	208.853	113.531	1
C1S	0.000585	-0.289683	-3.45205	6.42436	56.0471	30.5346	1
COL6A3	0.0005855	0.0114704	-87.1807	6.4234	223.955	122.029	1
VSIG4	0.0006046	-0.174541	-5.72931	6.39014	91.8748	50.3216	1
SGSM1	0.0006136	-0.102579	-9.7486	6.37481	83.7086	45.9591	1
SLC35F3	0.0006143	-0.27003	-3.70329	6.37358	46.3038	25.4274	1
VCAM1	0.0006209	0.275808	-3.6257	6.36263	49.6101	27.2899	1
COCH	0.0006428	0.444329	-2.25059	6.32689	135.961	75.2129	1
TMEM173	0.0006514	-0.493035	-2.02825	6.31315	75.6707	41.9517	1
GREM1	0.00066	0.100751	-9.9255	6.2996	26.8416	14.9129	1
WFDC1	0.0006614	0.488199	-2.04834	6.29744	144.444	80.279	1
PLAU	0.0006704	-0.423925	-2.35891	6.28353	135.652	75.5597	1
ANK3	0.0006731	-0.0582005	-17.182	6.27951	41.9049	23.3565	1
PGM5	0.00068	-0.396211	-2.52391	6.26899	86.3932	48.2336	1
SNX10	0.0006829	5.41435	5.41435	6.26461	101.157	56.5159	1

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SLC26A6	0.0006886	0.0062495	-160.013	6.25623	81.0257	45.3292	1
COL6A2	0.0007021	0.124231	-8.04954	6.23631	70.8344	39.7543	1
MEST	0.0007284	-0.428123	-2.33578	6.19881	52.7573	29.7881	1
SCN1B	0.000734	4.84408	4.84408	6.19096	22.6952	12.8305	1
CAPN3	0.0007377	-5.76602	5.76602	6.18582	74.1294	41.9432	1
PHACTR3	0.0007494	0.121594	-8.22411	6.16987	441.003	250.169	1
DMD	0.000753	0.152817	-6.54375	6.16496	96.689	54.8927	1
C9orf116	0.0007576	-3.23337	3.23337	6.15884	79.4408	45.1453	1
ATP10B	0.0007578	4.05081	4.05081	6.15853	155.758	88.5197	1
MAPT	0.0007645	-0.0222124	-45.0199	6.14957	350.901	199.713	1
C9orf116	0.0007714	-16.0156	16.0156	6.14052	56.5911	32.256	1
ADORA1	0.0007739	0.131937	-7.5794	6.1373	149.606	85.3177	1
APCDD1L	0.0008069	2.27536	2.27536	6.095	46.2776	26.5745	1
B3GAT1	0.000809	-0.0437634	-22.8501	6.09245	185.846	106.765	1
GAD1	0.0008231	0.431999	-2.31482	6.07495	194.475	112.044	1
ANXA2	0.0008239	-0.371531	-2.69156	6.074	304.193	175.284	1
TRIM5	0.0008298	-0.151917	-6.58256	6.06681	101.126	58.3405	1
DLC1	0.0008342	-0.259771	-3.84954	6.06143	83.8059	48.3913	1
GRIK2	0.0008438	0.295738	-3.38138	6.04997	99.2734	57.4312	1
GBP2	0.000887	0.491568	-2.03431	5.99988	175.501	102.377	1
CAPS	0.0008883	0.23397	-4.27405	5.99842	350.492	204.508	1
PPP1R1B	0.0008924	-0.0928464	-10.7705	5.99386	242.07	141.352	1
OPCML	0.0008978	-0.331541	-3.01622	5.98782	311.061	181.821	1
SNCB	0.0009052	0.346309	-2.8876	5.97957	57.406	33.6012	1
ECM1	0.0009186	-0.0101607	-98.4186	5.96493	62.5798	36.7195	1
PPIC	0.0009219	0.0662269	-15.0996	5.96134	173.718	101.992	1
IFIT3	0.0009241	-0.485647	-2.05911	5.95901	134.801	79.1749	1

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COL8A2	0.0009246	0.145094	-6.8921	5.95839	53.9695	31.702	1
PTGDR	0.0009257	0.334493	-2.9896	5.95726	39.6418	23.2903	1
RAB11FIP1	0.0009284	0.114769	-8.71313	5.95437	59.7525	35.1227	1
ZNF385B	0.0009416	-7.38125	7.38125	5.94028	35.4299	20.8752	1
ARHGAP23	0.0009432	-21.9928	21.9928	5.93862	60.8649	35.8715	1
STMN4	0.0009497	0.151281	-6.61024	5.93169	640.674	378.031	1
ZNF385B	0.0009609	-0.229577	-4.35584	5.92013	47.5646	28.1203	1
ACOT7	0.0009711	-0.122402	-8.1698	5.90963	76.394	45.2446	1
RARRES1	0.000976	0.141603	-7.06199	5.90463	83.3473	49.4045	1
CD74	0.0009966	-0.294714	-3.39312	5.88394	135.521	80.6133	1
GABRB1	0.0009996	0.209179	-4.78061	5.88093	179.919	107.077	1
FAM74A3	0.0010021	-0.0873104	-11.4534	5.87845	212.494	126.518	1
THY1	0.0010419	0.291464	-3.43095	5.83999	344.72	206.596	1
HPCAL1	0.00105	0.0257287	-38.8671	5.83233	38.9678	23.3847	1
CPLX2	0.0010577	-0.075079	-13.3193	5.82514	29.8294	17.9228	1
MAP4	0.0010611	-29.7149	29.7149	5.82192	146.194	87.8882	1
VGF	0.0010692	-2.0561	2.0561	5.81442	490.534	295.278	1
CPZ	0.0010703	-0.432183	-2.31383	5.8134	46.7185	28.1272	1
SVIL	0.0010812	0.175499	-5.69803	5.80345	126.93	76.5501	1
NR3C2	0.0010819	8.20234	8.20234	5.80285	37.7596	22.7748	1
MFAP5	0.0010892	-0.00624147	-160.219	5.79627	78.1898	47.2138	1
VAMP1	0.0010892	0.0653632	-15.2991	5.79623	83.7905	50.5961	1
BEST3	0.0010929	0.463153	-2.15911	5.79286	125.343	75.7313	1
IFIT1	0.0011143	-36.6229	36.6229	5.7739	52.0131	31.5291	1
CYFIP2	0.0011392	-0.0776873	-12.8721	5.75221	138.407	84.2156	1
DIO2	0.001167	-17.0441	17.0441	5.72865	43.3009	26.4553	1
FAM134B	0.0011705	2.04154	2.04154	5.72569	59.9757	36.6619	1

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IL18BP	0.0011709	-0.0298235	-33.5306	5.72536	121.664	74.3748	1
OPRL1	0.0012069	-0.13842	-7.2244	5.69583	48.0859	29.548	1
PPP2R2C	0.0012162	-0.0184251	-54.2739	5.68838	611.952	376.527	1
L1CAM	0.0012295	-0.0585964	-17.0659	5.67777	27.5304	16.9708	1
VSTM2B	0.0012369	-0.0977819	-10.2268	5.67198	108.186	66.7582	1
C10orf85	0.0012971	0.253445	-3.94563	5.62587	75.7833	47.1468	1
ANXA2	0.0013116	-0.0333336	-29.9997	5.61509	55.8486	34.8116	1
CAPS	0.0013587	0.415493	-2.40678	5.58107	202.9	127.242	1
TNFAIP3	0.001374	0.413596	-2.41782	5.57024	72.2289	45.3843	1
SGK3	0.0013787	9.00653	9.00653	5.56695	41.9242	26.3582	1
SORBS1	0.0013901	-0.208206	-4.80293	5.55901	75.3374	47.433	1
WDR7	0.001405	15.1819	15.1819	5.54881	26.1926	16.5214	1
DSE	0.0014087	-0.185714	-5.38464	5.54628	125.608	79.2654	1
FABP5	0.0014133	0.219426	-4.55735	5.54313	208.176	131.445	1
SEZ6L2	0.0014253	-0.0355662	-28.1166	5.53504	170.481	107.801	1
CCL2	0.0014404	-3.64783	3.64783	5.52491	130.773	82.8437	1
NEUROD2	0.0014485	0.011388	-87.8115	5.51954	26.6904	16.9246	1
AGTPBP1	0.0014559	-0.120567	-8.29413	5.51462	67.8608	43.0697	1
ANK2	0.0014712	1897.74	1897.74	5.50465	43.2068	27.472	1
RRAGB	0.0014779	-5.33945	5.33945	5.50029	91.8897	58.4722	1
MYBPC1	0.0015067	3.3324	3.3324	5.48183	30.9699	19.7735	1
CTSL2	0.0015214	-0.314404	-3.18062	5.47256	51.8979	33.1915	1
ANKRD37	0.001542	-0.062305	-16.0501	5.45973	136.766	87.6748	1
ABCA9	0.0015695	0.462039	-2.16432	5.44291	29.0608	18.6872	1
FGF1	0.0015715	3.8604	3.8604	5.44168	29.0279	18.6702	1
TRIM47	0.001582	2.29875	2.29875	5.43536	54.0328	34.7934	1
FAM134B	0.0015911	5.16281	5.16281	5.42986	79.5613	51.2839	1

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KNDC1	0.0015963	0.143425	-6.97228	5.42678	34.073	21.9754	1
MS4A6A	0.0016166	-0.0599887	-16.6698	5.41479	173.991	112.464	1
MS4A6A	0.0016347	-0.032833	-30.4571	5.40419	196.001	126.939	1
FBLN5	0.0016685	0.122542	-8.16048	5.38483	60.993	39.6439	1
HLA-DRB5	0.0016817	-4.11631	4.11631	5.37735	160.517	104.477	1
C1RL	0.0017035	-0.168022	-5.95159	5.36516	81.3962	53.0994	1
KLF2	0.0017072	0.130675	-7.6526	5.36313	147.699	96.389	1
C9orf117	0.0017149	0.201735	-4.957	5.35886	100.699	65.7687	1
C11orf41	0.00172	-20.1806	20.1806	5.35607	137.054	89.5598	1
NHEDC2	0.0017208	0.0293294	-34.0954	5.35564	74.3327	48.5777	1
OLFM1	0.0017336	0.00243202	-411.181	5.34864	973.65	637.129	1
EPHA5	0.0017771	0.0380537	-26.2787	5.32529	46.6511	30.661	1
PAPPA	0.0017907	-0.046565	-21.4753	5.31808	49.3322	32.4671	1
PALM	0.0018054	0.0359464	-27.8192	5.31041	42.3447	27.9087	1
FBLN5	0.0018192	0.166587	-6.00289	5.30323	86.4197	57.0348	1
AJAP1	0.0018241	-0.239434	-4.17651	5.30073	54.9418	36.2773	1
MLKL	0.0018552	0.355484	-2.81307	5.28486	34.6985	22.9798	1
MXRA7	0.0018562	-0.0749903	-13.3351	5.28436	182.287	120.734	1
DSC3	0.00186	0.154124	-6.4883	5.28245	38.6484	25.6073	1
SELENBP1	0.0018751	-4.85145	4.85145	5.27483	44.9283	29.8112	1
NSF	0.001888	31.853	31.853	5.26841	27.9324	18.5565	1
HOXB2	0.0019012	5.9611	5.9611	5.26192	60.5872	40.3	1
PDPK1	0.0019016	-12.5493	12.5493	5.26172	26.2939	17.4902	1
TPPP3	0.0019406	-28.1843	28.1843	5.24271	26.6613	17.7989	1
INADL	0.0019485	-0.0976492	-10.2407	5.23894	48.5886	32.4608	1
CPEB1	0.0019662	0.0200871	-49.7831	5.23046	50.275	33.6419	1
LPHN1	0.0019754	0.0208022	-48.0718	5.22614	61.3932	41.1157	1

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TDP1	0.0019795	0.0930105	-10.7515	5.22419	50.0861	33.5557	1
VTN	0.0020245	-0.272661	-3.66756	5.20324	36.9485	24.8537	1
TBX15	0.0020329	-0.0440852	-22.6833	5.19941	45.9729	30.9468	1
FABP5L2	0.0020666	2.50905	2.50905	5.18408	346.594	234.001	1
CACNB2	0.0020853	-12.8026	12.8026	5.17573	25.4676	17.2221	1
PGM5	0.0020877	-0.425419	-2.35062	5.17466	73.0977	49.4413	1
AKAP11	0.0020887	-3.70495	3.70495	5.17422	59.0331	39.9318	1
LOC440585	0.0020922	0.185724	-5.38432	5.17267	400.476	270.976	1
C11orf41	0.0020935	-0.0304021	-32.8925	5.17209	182.914	123.779	1
INADL	0.0021389	0.407456	-2.45425	5.15217	39.7907	27.0308	1
LOC392871	0.0021454	-0.291604	-3.42931	5.14936	35.493	24.1244	1
TWIST1	0.0021739	-0.128407	-7.78773	5.13717	84.5464	57.6022	1
LDB3	0.0021816	-0.0700654	-14.2724	5.13388	22.7904	15.5372	1
MYT1L	0.0022169	0.243966	-4.09893	5.11903	113.651	77.7056	1
FABP5	0.0022435	-49.8556	49.8556	5.10803	137.489	94.2066	1
SLC13A4	0.0022492	-0.0172208	-58.0692	5.1057	38.3835	26.3122	1
C11orf70	0.0022698	0.119954	-8.3365	5.09729	70.4766	48.392	1
SLCO1A2	0.0023132	0.022598	-44.2517	5.07981	23.3778	16.1073	1
SPOCK1	0.0023412	0.338538	-2.95388	5.06874	549.859	379.681	1
TNFRSF1A	0.0023664	0.364939	-2.74018	5.05891	94.6775	65.5025	1
CD163	0.0024081	-0.109789	-9.1084	5.04288	109.307	75.8644	1
GPNMB	0.0024624	0.156824	-6.37656	5.02244	586.66	408.827	1
CALN1	0.0024804	-0.220715	-4.53072	5.01579	91.4862	63.8388	1
GRM3	0.0024933	0.37039	-2.69986	5.01104	397.521	277.652	1
PDE4B	0.0024986	-0.187158	-5.34308	5.0091	163.557	114.282	1
MGLL	0.0025019	0.160281	-6.23903	5.00788	71.6684	50.089	1
TNFAIP8	0.0025059	0.00816885	-122.416	5.00644	46.4351	32.4627	1

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HOXB6	0.0025152	-0.107716	-9.28369	5.00303	25.9765	18.1725	1
GPNMB	0.0025476	0.19226	-5.2013	4.99135	357.742	250.853	1
KIAA1324L	0.0025918	4.5983	4.5983	4.97567	99.6167	70.0727	1
AAK1	0.002604	-0.0694024	-14.4087	4.97139	24.3999	17.1782	1
FAM183A	0.0026346	0.16886	-5.92207	4.96075	125.243	88.3637	1
S100A11	0.0026554	-0.462521	-2.16206	4.9536	80.8114	57.0978	1
HLA-DPA1	0.0027029	0.14479	-6.90655	4.93746	279.347	198.019	1
ARPC1B	0.0027205	-0.336999	-2.96737	4.93158	49.0064	34.7804	1
SLC25A43	0.0027277	0.308367	-3.24288	4.92919	67.6705	48.0498	1
NR2F2	0.0027802	0.230778	-4.33317	4.9119	111.212	79.2445	1
INADL	0.0027826	0.343601	-2.91035	4.91112	137.027	97.6548	1
PRKCDBP	0.0027917	14.175	14.175	4.90814	67.3248	48.0093	1
RTN4	0.0028014	7.47061	7.47061	4.905	28.1773	20.1061	1
RNASE6	0.0028041	-0.0439106	-22.7735	4.90415	66.1726	47.2261	1
C11orf70	0.0028203	0.0120123	-83.2479	4.89894	79.4393	56.7547	1
TPM1	0.0028241	0.154083	-6.49001	4.89771	122.889	87.8187	1
IFIT3	0.0028415	-3.70864	3.70864	4.89215	77.7633	55.6343	1
ANGPTL4	0.0028434	-0.139895	-7.14821	4.89154	81.6302	58.4082	1
HOXA2	0.0028989	-3.24165	3.24165	4.87408	177.747	127.637	1
MYT1L	0.0029452	3.02145	3.02145	4.8598	71.1292	51.2269	1
LOC100129958	0.0029724	-0.18572	-5.38445	4.8515	23.1845	16.7259	1
ARHGAP23	0.0029847	-0.110712	-9.03242	4.84777	142.31	102.745	1
GARNL4	0.003009	0.0184461	-54.212	4.84049	106.656	77.1197	1
C1orf194	0.0030117	-0.163033	-6.13372	4.83968	263.436	190.514	1
RARRES1	0.0030588	0.145407	-6.87723	4.82573	50.3406	36.511	1
FCGBP	0.0030642	0.372644	-2.68353	4.82414	179.113	129.949	1
AHNAK	0.0030713	0.0150978	-66.2348	4.82204	102.202	74.1815	1

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RAC2	0.0030771	-0.211347	-4.73156	4.82035	58.3372	42.358	1
SYT7	0.0030968	-31.2209	31.2209	4.81462	136.24	99.0399	1
OSBPL1A	0.0031031	0.0684256	-14.6144	4.81279	96.9282	70.489	1
OLFML3	0.0031246	-0.39107	-2.55708	4.80661	124.262	90.4834	1
MUTYH	0.0032293	-0.313429	-3.19051	4.77708	66.1208	48.4444	1
P2RX7	0.0032303	0.1276	-7.83697	4.7768	151.291	110.852	1
SH2D5	0.0032892	-0.0641693	-15.5838	4.76065	21.5851	15.8692	1
ERBB3	0.0033097	-0.114938	-8.70038	4.75509	123.491	90.8963	1
PLCB1	0.0033165	-16.1955	16.1955	4.75327	41.603	30.6338	1
CYB5R2	0.0033409	0.0266418	-37.5349	4.74671	58.2299	42.936	1
AKAP12	0.0033506	0.0961372	-10.4018	4.74414	112.595	83.0672	1
NEBL	0.0033656	-2.39999	2.39999	4.74016	52.8832	39.0475	1
CADM4	0.0033659	-0.268705	-3.72156	4.74007	142.137	104.952	1
BTG2	0.0033815	0.134588	-7.43008	4.73597	110.677	81.7933	1
VWA5A	0.0034854	0.333911	-2.99481	4.70902	64.1275	47.6631	1
FBLN1	0.0035036	-0.153832	-6.5006	4.70439	70.5801	52.5106	1
SCG5	0.0035093	0.197424	-5.06525	4.70294	708.335	527.154	1
CHN2	0.00352	-133.977	133.977	4.70023	72.7152	54.1469	1
HLA-DQA1	0.0035446	0.150516	-6.64382	4.69406	256.737	191.429	1
TIAM2	0.0035534	-0.143743	-6.95687	4.69185	76.7109	57.2243	1
BMP6	0.0036664	-0.140994	-7.09253	4.66412	65.1718	48.9055	1
NWD1	0.0036851	6.10976	6.10976	4.65961	90.1867	67.7424	1
ALDH1L2	0.003706	0.405842	-2.46401	4.65462	43.2823	32.5457	1
SLC12A5	0.0037934	4.89085	4.89085	4.63402	555.179	419.317	1
SH3TC2	0.0037956	0.0256665	-38.9613	4.6335	20.2753	15.3153	1
TJP2	0.0038109	15.2814	15.2814	4.62997	25.9073	19.5845	1
GFRA1	0.0038177	0.405089	-2.46859	4.62839	43.0723	32.5713	1

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SMAD6	0.0038437	0.38556	-2.59363	4.6224	63.2332	47.879	1
MAG	0.0038657	0.452693	-2.209	4.61738	1649.98	1250.69	1
LOC642956	0.0038748	-0.148167	-6.74914	4.6153	124.581	94.476	1
C5orf4	0.0038831	34.195	34.195	4.61341	36.0866	27.3774	1
BRUNOL4	0.0039238	-0.0817798	-12.228	4.60423	21.3484	16.2284	1
FAM69A	0.0039391	0.0184621	-54.1651	4.60081	93.4014	71.0537	1
RPESP	0.0039684	-2.0286	2.0286	4.5943	236.553	180.209	1
ANPEP	0.0039804	0.430554	-2.32259	4.59163	29.3367	22.3621	1
FGF1	0.0039881	0.221911	-4.50632	4.58994	59.1964	45.1394	1
BAIAP2	0.003993	-0.0584388	-17.1119	4.58886	22.4068	17.0901	1
VIP	0.0040139	2.09758	2.09758	4.58427	15.0379	11.4811	1
C14orf139	0.0041135	-0.0915166	-10.927	4.56276	37.4183	28.7028	1
IL13RA1	0.004135	-0.104889	-9.53393	4.55819	126.72	97.3018	1
HSPA12A	0.0041899	-0.0771929	-12.9546	4.54664	201.536	155.142	1
HOXA2	0.0042056	-2.64018	2.64018	4.54337	140.667	108.363	1
SNAI2	0.0042408	0.302448	-3.30635	4.53608	45.499	35.1066	1
ASPHD1	0.0042452	3.76188	3.76188	4.53518	31.3021	24.1572	1
ARMC3	0.0042528	0.294871	-3.39131	4.53361	142.96	110.367	1
STXBP1	0.0042997	0.24998	-4.00032	4.52403	75.2872	58.2457	1
TCEAL6	0.0043113	3.61916	3.61916	4.52167	51.235	39.6585	1
GRIA2	0.0043993	0.136829	-7.30839	4.50405	575.721	447.381	1
PPP2R2C	0.0044028	0.104989	-9.52478	4.50334	262.853	204.289	1
CHN1	0.004436	-30.432	30.432	4.49681	239.994	186.795	1
LEPR	0.004465	-0.0857288	-11.6647	4.49113	32.132	25.0409	1
A2BP1	0.004485	-0.0813568	-12.2915	4.48725	33.0489	25.7778	1
SPOCD1	0.0045114	2.93968	2.93968	4.48214	127.149	99.2879	1
RECK	0.0045332	-0.237422	-4.21191	4.47793	76.6751	59.93	1

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LOC730415	0.0045369	-0.0938831	-10.6515	4.47724	212.897	166.429	1
MAN1C1	0.0045374	-0.46055	-2.17132	4.47713	142.435	111.348	1
IFIT3	0.004567	-15.3633	15.3633	4.47148	47.0375	36.818	1
MAGEE1	0.0046383	0.440666	-2.26929	4.45803	85.7357	67.3111	1
CAMKK2	0.0046579	0.403879	-2.47599	4.45436	29.1399	22.8966	1
PHLDB2	0.0046641	-0.117473	-8.51257	4.45322	35.1783	27.6483	1
PTGER4	0.0047225	0.186372	-5.36561	4.44243	65.281	51.4321	1
GDPD5	0.0047574	-0.368663	-2.71251	4.43605	47.758	37.6806	1
FGF14	0.0047669	2.17703	2.17703	4.43432	60.1759	47.4967	1
CENTA1	0.004795	0.470222	-2.12665	4.42924	414.288	327.372	1
SLCO1A2	0.004801	-0.111918	-8.93509	4.42815	43.2046	34.1488	1
PRKCB	0.0048241	0.369406	-2.70705	4.42401	168.507	133.312	1
ALOX5AP	0.0048604	-0.0139347	-71.7635	4.41752	197.708	156.644	1
PLTP	0.004879	-0.44559	-2.24422	4.4142	41.0833	32.5747	1
LPPR4	0.0049549	4.54335	4.54335	4.40089	78.3296	62.2951	1
TMEM20	0.0049555	-0.0367043	-27.2448	4.40077	41.4839	32.9927	1
CYBB	0.0049978	-0.304396	-3.28519	4.39344	60.0013	47.7996	1
ANKS1B	0.0050359	0.0316174	-31.6281	4.38689	455.867	363.705	1
C7orf57	0.0050453	0.35938	-2.78257	4.38528	52.7023	42.063	1
DNM3	0.0050575	0.0830897	-12.0352	4.3832	264.057	210.851	1
RRAS	0.0050877	-0.392101	-2.55036	4.37807	50.5872	40.4414	1
RND2	0.0051324	0.487077	-2.05306	4.37055	92.643	74.1898	1
FLJ22662	0.0052016	-0.0776749	-12.8742	4.35903	68.6015	55.0823	1
SYTL2	0.005236	0.171233	-5.83999	4.35336	109.654	88.1589	1
CRTAP	0.0052385	-0.134584	-7.43032	4.35296	99.0677	79.6555	1
C12orf28	0.0052387	-2.71523	2.71523	4.35291	67.483	54.2604	1
LOC728650	0.0052419	-3.05027	3.05027	4.3524	32.6123	26.2253	1

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DLG2	0.005268	0.42166	-2.37158	4.34812	146.13	117.627	1
BTBD11	0.0053132	0.0254183	-39.3418	4.34079	71.3717	57.5473	1
LOC730278	0.0053257	-0.337586	-2.96221	4.33878	88.6347	71.4997	1
ARHGEF7	0.0053289	-0.181151	-5.52024	4.33826	100.342	80.9534	1
C14orf173	0.0053536	-0.0947301	-10.5563	4.33429	150.723	121.711	1
VASN	0.0053824	3.05288	3.05288	4.32968	70.4156	56.9221	1
HIPK2	0.0053936	0.146769	-6.81342	4.32791	115.18	93.1465	1
CHSY3	0.0054119	4.01034	4.01034	4.325	40.3518	32.6546	1
SLC7A5	0.0054135	-2.09277	2.09277	4.32476	87.9702	71.1938	1
IGSF9B	0.0054315	2.49464	2.49464	4.3219	135.602	109.815	1
STMN2	0.0054719	0.445499	-2.24468	4.31556	1303.42	1057.1	1
WDR16	0.0055856	-0.165682	-6.03565	4.29797	58.2362	47.4239	1
BEND4	0.0056239	-0.294618	-3.39422	4.29212	24.0007	19.5713	1
MOXD1	0.0057132	3.14951	3.14951	4.27869	109.655	89.699	1
RTN4	0.0057154	-0.0760924	-13.1419	4.27836	29.4387	24.0829	1
PALM	0.0057166	0.265649	-3.76437	4.27817	86.094	70.4341	1
GPR37	0.0057201	0.436973	-2.28847	4.27765	208.484	170.583	1
PLP1	0.0057327	0.430976	-2.32031	4.27578	3998.85	3273.32	1
PRKACB	0.0057388	-0.423579	-2.36083	4.27487	85.5647	70.0552	1
DDX43	0.0057393	0.0671626	-14.8892	4.2748	30.332	24.8343	1
SORCS1	0.0057443	-0.18907	-5.28904	4.27405	108.796	89.0922	1
ADORA3	0.0057517	2.09689	2.09689	4.27295	70.7579	57.9583	1
EFCAB1	0.0057619	0.019207	-52.0643	4.27144	240.34	196.934	1
SYNC1	0.0057808	-0.338863	-2.95104	4.26865	55.8988	45.8331	1
WIP1	0.005857	-0.0826285	-12.1024	4.25749	80.8548	66.4692	1
CUGBP2	0.005905	-2.56193	2.56193	4.25055	53.2136	43.8173	1
ACHE	0.0059237	-0.193851	-5.15861	4.24786	40.9817	33.7667	1

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SLC4A5	0.0059598	-0.496774	-2.01299	4.24269	75.5893	62.3573	1
LOC493869	0.0060359	-0.265085	-3.77238	4.23192	95.0049	78.5737	1
MGST1	0.0061188	0.389817	-2.56531	4.22033	74.5444	61.821	1
S100A10	0.0061238	0.0555526	-18.0009	4.21964	164.077	136.094	1
PYCR1	0.0061784	-4.46874	4.46874	4.21212	33.5258	27.8578	1
ZDHHC11	0.0062789	-0.0375701	-26.6169	4.19845	106.368	88.673	1
ZMYND12	0.0062819	-0.343394	-2.91211	4.19803	35.4099	29.5221	1
LAMA2	0.0063144	-0.0119247	-83.8596	4.19367	80.5698	67.2428	1
FBXO2	0.0063146	-0.327449	-3.05391	4.19364	59.9134	50.0035	1
MS4A7	0.0063605	-0.113898	-8.77976	4.18751	116.101	97.0392	1
KIF5C	0.0063961	-0.0699052	-14.3051	4.1828	1532.65	1282.46	1
RFFL	0.006509	-3.406	3.406	4.16802	37.8809	31.8096	1
ACOT7	0.0066413	0.00673738	-148.426	4.15104	119.55	100.8	1
AKAP12	0.0066641	-0.404733	-2.47076	4.14815	39.4639	33.2976	1
RBMS1	0.0067657	0.452886	-2.20806	4.13542	86.5166	73.2231	1
VWA1	0.0067805	0.413014	-2.42123	4.13358	44.3138	37.5215	1
S100A16	0.0067897	-0.329565	-3.0343	4.13244	100.851	85.4164	1
S100A13	0.0067937	-3.83634	3.83634	4.13194	36.6408	31.0369	1
ERBB2	0.0068096	-0.184973	-5.40619	4.12998	65.4743	55.487	1
KCNS3	0.0068413	0.177607	-5.63042	4.12607	22.8072	19.3465	1
RGS11	0.006876	-0.218431	-4.5781	4.12182	65.3037	55.452	1
HLA-DOA	0.0069292	0.143873	-6.95056	4.11534	79.4141	67.5398	1
MBNL2	0.0069536	-13.402	13.402	4.1124	45.1499	38.4264	1
DPP10	0.0069679	5.67664	5.67664	4.11067	34.1792	29.1016	1
PCDHGA5	0.0069744	-0.0637905	-15.6763	4.10988	50.1099	42.6739	1
SLC6A15	0.0070628	0.0308528	-32.412	4.09933	52.2981	44.6521	1
CHST3	0.007063	12.254	12.254	4.09929	78.7531	67.2399	1

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TCEAL7	0.0071181	-6.55217	6.55217	4.09278	50.6898	43.3482	1
OLAH	0.0071937	0.139988	-7.14346	4.08394	33.4641	28.6793	1
C1QA	0.007199	0.112212	-8.91172	4.08331	56.8775	48.7524	1
PTPRT	0.0072208	-0.0811087	-12.3291	4.08079	48.2857	41.4135	1
VIP	0.0073278	0.341551	-2.92782	4.06848	23.9788	20.6283	1
TMEFF2	0.0073447	0.350273	-2.85492	4.06655	289.825	249.447	1
SLC6A10P	0.0073561	0.16107	-6.20848	4.06526	44.2152	38.0673	1
LOC645321	0.0074111	-2.51235	2.51235	4.05903	127.088	109.585	1
ANKRD24	0.0075838	0.187829	-5.324	4.0398	24.6889	21.3899	1
HLA-DRB1	0.0076028	-2.65246	2.65246	4.03772	84.5253	73.2687	1
COL12A1	0.0076908	-0.0400296	-24.9815	4.02813	39.5925	34.4015	1
NIPAL4	0.0077313	0.0279779	-35.7425	4.02376	17.8124	15.4938	1
3-Sep	0.0077629	0.264304	-3.78352	4.02036	223.7	194.746	1
CEP120	0.0077931	-0.211322	-4.73211	4.01714	51.1657	44.579	1
ADCYAP1	0.0078331	3.16626	3.16626	4.01288	78.2105	68.2145	1
TGFBR3	0.007933	0.166222	-6.01604	4.00235	91.7582	80.2414	1
KCNAB1	0.0079397	0.0167554	-59.6822	4.00164	76.8993	67.2593	1
FGF13	0.008032	-0.209708	-4.76853	3.99204	22.6062	19.8199	1
LOC100133678	0.0081259	0.0797233	-12.5434	3.9824	443.533	389.806	1
UGT3A2	0.0081783	0.341924	-2.92463	3.97707	32.8303	28.8921	1
BAG3	0.0082328	-0.101088	-9.89235	3.97157	221.761	195.43	1
COL8A1	0.0082495	-2.74087	2.74087	3.96989	46.7992	41.2599	1
TEKT1	0.0082498	0.286975	-3.48462	3.96986	64.3282	56.7145	1
LOC653888	0.0082832	-0.261587	-3.82282	3.96652	46.2188	40.7828	1
EXT1	0.0083105	0.429275	-2.32951	3.96379	84.6734	74.7661	1
TNFRSF21	0.0083456	-13.2533	13.2533	3.9603	182.749	161.508	1
MYBPC1	0.0083924	8.98006	8.98006	3.95567	99.8559	88.353	1

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PYCARD	0.0084657	-0.278963	-3.5847	3.94848	64.4072	57.0915	1
RGS18	0.0084758	-0.28838	-3.46765	3.94751	41.2038	36.5327	1
EPHB1	0.0084761	3.19104	3.19104	3.94748	101.102	89.6412	1
CX3CR1	0.0085447	-2.39302	2.39302	3.94081	190.159	168.888	1
NCAM2	0.0086364	0.327278	-3.05551	3.932	135.617	120.717	1
SPAG6	0.0086812	-0.460167	-2.17313	3.92774	224.092	199.688	1
UGT8	0.0087345	-4.34592	4.34592	3.92269	50.5752	45.1255	1
CTXN1	0.0087496	0.289851	-3.45004	3.92126	108.404	96.7586	1
MFSD4	0.0089519	-0.176423	-5.66819	3.90243	23.4749	21.0541	1
S100A13	0.0090009	0.347293	-2.87942	3.89795	30.6985	27.5644	1
SRPK2	0.0090351	-3.61114	3.61114	3.89483	43.7515	39.3163	1
FCGR2A	0.0090477	0.276558	-3.61588	3.89368	95.7252	86.0467	1
SEZ6L2	0.0090655	0.0947355	-10.5557	3.89207	40.1772	36.13	1
LOC153328	0.0090837	-0.214345	-4.66538	3.89041	16.794	15.1087	1
PKNOX2	0.0091152	626.367	626.367	3.88757	61.9211	55.7479	1
S100A13	0.0091847	-4.04183	4.04183	3.88133	103.964	93.7495	1
GAB2	0.0091939	-0.079043	-12.6513	3.88051	58.3756	52.6515	1
GSN	0.0092025	-0.290753	-3.43934	3.87974	31.1044	28.06	1
TPD52L1	0.0093037	0.293758	-3.40417	3.87077	24.3734	22.0387	1
CTHRC1	0.0094144	0.413636	-2.41758	3.86107	195.412	177.138	1
PCLO	0.0094232	0.313549	-3.18929	3.8603	42.2165	38.2763	1
AFAP1L2	0.0094434	4.26315	4.26315	3.85855	156.363	141.833	1
CHN1	0.0095179	-0.0267519	-37.3805	3.85211	279.406	253.866	1
LBH	0.0095197	12.3947	12.3947	3.85195	30.2508	27.4868	1
RPS6KA2	0.0095215	-0.239291	-4.17902	3.8518	75.7224	68.8064	1
TF	0.0095315	0.348971	-2.86556	3.85094	797.391	724.723	1
FCER1G	0.0095786	0.119947	-8.33703	3.84691	100.472	91.4114	1

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MAOB	0.009622	0.254393	-3.93093	3.84321	59.8075	54.4666	1
HLA-DMA	0.0096498	0.0975471	-10.2515	3.84085	128.779	117.351	1
MUTYH	0.0097778	-18.2096	18.2096	3.83008	36.8601	33.6835	1
NR2E3	0.0098116	0.216897	-4.61048	3.82725	32.2803	29.5201	1
EPB41L4B	0.0098841	-0.129216	-7.73896	3.82124	40.2628	36.878	1
ACCN1	0.0099005	0.0205693	-48.6162	3.81989	41.1505	37.7044	1
PHLDB2	0.0099066	-0.0797152	-12.5447	3.81938	30.3868	27.8459	1
STAB1	0.00997	0.22096	-4.5257	3.81418	51.3101	47.0836	1
FSTL3	0.0099853	0.450211	-2.22118	3.81293	44.568	40.9102	1
VAMP5	0.009986	-2.00996	2.00996	3.81287	88.614	81.3428	1
C1orf192	0.0100731	0.327994	-3.04883	3.80579	42.3653	38.9614	1
CYBA	0.0100742	-0.424343	-2.35658	3.8057	84.1067	77.3507	1
MS4A7	0.0100951	0.00221049	-452.389	3.80401	128.251	118.001	1
GARNL4	0.0101607	-18.4357	18.4357	3.79873	49.05	45.1928	1
RSHL3	0.0102556	0.146063	-6.84637	3.79115	121.583	112.245	1
S100A13	0.0102574	3.2924	3.2924	3.79102	61.0176	56.3336	1
KIAA1026	0.010275	-0.380635	-2.62719	3.78962	35.2227	32.5308	1
SLC26A8	0.0103046	-0.283321	-3.52957	3.78728	20.7345	19.1617	1
OXTR	0.0103792	0.373843	-2.67492	3.78141	104.746	96.9511	1
GBP4	0.0104343	-0.285195	-3.50637	3.77711	85.5674	79.2898	1
NKD2	0.0104368	-21.4791	21.4791	3.77691	30.3227	28.0996	1
DNER	0.0104766	-0.47975	-2.08442	3.77382	251.077	232.859	1
AFTPH	0.0105982	-0.416256	-2.40237	3.76444	60.2325	56.0013	1
HBG2	0.0105984	-0.144814	-6.90541	3.76442	492.357	457.773	1
INF2	0.0107236	-0.0861473	-11.608	3.75489	42.0601	39.205	1
TPM1	0.0107663	0.309071	-3.2355	3.75167	110.182	102.791	1
NSF	0.0108089	4.206	4.206	3.74846	57.413	53.6075	1

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LOC728276	0.0108428	0.140397	-7.12267	3.74593	39.193	36.6199	1
SLIT1	0.0108847	-2.13185	2.13185	3.7428	21.5888	20.1883	1
PIGP	0.0108983	-2.57059	2.57059	3.74179	63.1529	59.072	1
IDS	0.0109553	0.0363188	-27.5339	3.73756	48.2606	45.1932	1
REPS2	0.0109595	0.0289245	-34.5727	3.73725	46.6397	43.6789	1
GPR114	0.0111322	-0.4475	-2.23463	3.7246	32.1834	30.2427	1
CA10	0.0112527	-0.353332	-2.8302	3.71589	234.897	221.25	1
ALAD	0.011257	-0.143533	-6.96706	3.71559	60.6824	57.1615	1
BCAS1	0.0112841	0.350865	-2.8501	3.71364	2688.11	2533.47	1
TOX2	0.0113723	-5.94889	5.94889	3.70735	33.8562	31.9626	1
MAP3K8	0.0113896	-0.256427	-3.89975	3.70612	47.5278	44.8845	1
ABR	0.0114333	-0.268705	-3.72155	3.70303	116.301	109.924	1
CLDN10	0.0115123	2.33857	2.33857	3.69747	32.8615	31.1064	1
MFAP4	0.0115374	0.0242261	-41.2778	3.69572	104.218	98.6992	1
ANO6	0.0115755	-0.0128336	-77.9206	3.69305	91.6238	86.8342	1
ADORA3	0.0116649	-0.341622	-2.92721	3.68686	165.915	157.506	1
ADAP2	0.0116811	-0.0638776	-15.655	3.68573	73.842	70.121	1
ALCAM	0.0116966	0.334995	-2.98512	3.68466	211.153	200.571	1
C1orf106	0.0117395	2.38694	2.38694	3.68171	74.1801	70.5188	1
FAM181B	0.0118026	-2.22902	2.22902	3.6774	135.882	129.327	1
FCER1A	0.0120207	0.157972	-6.33022	3.66266	38.0915	36.3998	1
LOC390705	0.0120236	-28.4912	28.4912	3.66247	31.0425	29.6654	1
CACNB2	0.0121016	2.84301	2.84301	3.65727	30.0444	28.7524	1
SLITRK1	0.0121532	0.0232166	-43.0726	3.65385	70.4639	67.497	1
SYNGR1	0.012225	-3.18071	3.18071	3.64912	58.5796	56.1858	1
PCP4	0.012348	0.0515481	-19.3994	3.64108	116.068	111.571	1
MS4A6A	0.0124227	-0.0294729	-33.9295	3.63624	131.305	126.385	1

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GPRASP2	0.0125085	-46.3642	46.3642	3.63072	34.3575	33.1204	1
FAM74A4	0.0125812	0.0939894	-10.6395	3.62607	39.0821	37.7233	1
GPM6B	0.0125965	0.10211	-9.79339	3.6251	214.011	206.626	1
CABP7	0.0126931	4.87181	4.87181	3.61898	66.701	64.508	1
MGP	0.0128063	-2.45374	2.45374	3.61187	246.897	239.249	1
CTBP2	0.0128123	-5.36466	5.36466	3.6115	21.1481	20.4952	1
SLC6A20	0.0128324	0.128912	-7.75722	3.61025	28.1236	27.2648	1
CUBN	0.0128504	0.282765	-3.53651	3.60913	41.1654	39.9207	1
ALAD	0.0130411	6.66176	6.66176	3.59735	23.9476	23.2996	1
FN1	0.0130841	0.340694	-2.93518	3.59472	32.4202	31.566	1
RALGDS	0.0130887	0.240573	-4.15674	3.59443	74.0563	72.1106	1
MGLL	0.0131679	4.73273	4.73273	3.58961	53.8906	52.5453	1
HLA-DRB6	0.013206	0.0880075	-11.3627	3.58731	84.4107	82.3563	1
FLNB	0.0132365	-0.0532864	-18.7665	3.58547	107.007	104.456	1
GNG12	0.0132886	0.0624283	-16.0184	3.58233	135.827	132.706	1
CHL1	0.0133656	0.204029	-4.90125	3.57772	193.655	189.448	1
PLEK	0.013383	-0.455565	-2.19508	3.57668	42.8016	41.884	1
ABCB9	0.0134506	-0.170945	-5.84982	3.57266	71.3666	69.9151	1
LMO3	0.0135121	0.0740051	-13.5126	3.56902	255.961	251.011	1
FAM5C	0.0136805	2.10003	2.10003	3.55916	118.828	116.853	1
C10orf79	0.0137232	-0.146943	-6.80538	3.55668	38.1007	37.4935	1
CORO1A	0.0137822	193.887	193.887	3.55326	34.6311	34.112	1
EMP3	0.0137968	0.169007	-5.91691	3.55242	119.996	118.225	1
RAB33A	0.0139031	-0.214504	-4.66191	3.54631	86.2377	85.1116	1
PLCB1	0.014011	-0.0718187	-13.9239	3.54016	64.4862	63.7546	1
SLCO3A1	0.0140753	-0.0975926	-10.2467	3.53653	15.845	15.6814	1
LOC100132060	0.014091	-0.021268	-47.0189	3.53564	71.1863	70.4687	1

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CPEB2	0.0141037	3.81179	3.81179	3.53492	22.9672	22.7403	1
MT1H	0.0141748	-0.178858	-5.59102	3.53093	28.6527	28.4017	1
QPRT	0.0141754	0.413546	-2.41811	3.5309	52.1539	51.6975	1
SNCB	0.0142387	0.200374	-4.99067	3.52736	82.8159	82.1736	1
AGAP3	0.0142985	0.258181	-3.87325	3.52404	45.1014	44.7937	1
DIXDC1	0.0143053	3.43933	3.43933	3.52366	23.7608	23.6013	1
NAP1L2	0.0143656	-0.134236	-7.44955	3.52032	26.9752	26.8195	1
LOC402116	0.0143799	-0.0980106	-10.203	3.51953	15.1593	15.0752	1
HMGCLL1	0.0144236	2.10304	2.10304	3.51712	18.1996	18.111	1
LOC650239	0.0144595	-0.188339	-5.30957	3.51515	27.8284	27.7084	1
INS-IGF2	0.0144976	-0.0395326	-25.2956	3.51307	35.1423	35.0116	1
TRIM6	0.014503	-0.00122336	-817.421	3.51277	36.4539	36.3214	1
C12orf34	0.0145862	0.000344061	-2906.46	3.50823	39.8753	39.7817	1
BAMBI	0.0146104	3.17223	3.17223	3.50692	146.156	145.868	1
FRMPD2	0.0146683	-2.84856	2.84856	3.50379	24.0332	24.0072	1
NRIP3	0.0147139	0.164197	-6.09024	3.50133	68.6187	68.5927	1
DAZ4	0.0149345	-0.171807	-5.82047	3.48955	22.3052	22.372	1
RBMS1	0.0150377	0.46942	-2.13029	3.4841	89.4207	89.8287	1
CNTNAP4	0.0151083	3.97322	3.97322	3.4804	60.1312	60.4699	1
DKK2	0.015121	-0.0773674	-12.9253	3.47973	25.7618	25.9118	1
LMTK3	0.0151774	0.0632187	-15.8181	3.47679	119.595	120.393	1
TNFSF13B	0.0152985	0.470649	-2.12473	3.47052	90.479	91.2477	1
FPR1	0.0153726	-0.305169	-3.27687	3.4667	55.4545	55.9872	1
KCTD12	0.0155719	-2.43303	2.43303	3.45653	104.488	105.802	1
STXBP6	0.0156605	0.353178	-2.83143	3.45206	77.5318	78.6084	1
TNC	0.0157034	-4.07476	4.07476	3.44991	111.584	113.204	1
WSCD1	0.0157708	-3.38312	3.38312	3.44653	122.22	124.116	1

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RNY4	0.0157765	0.427354	-2.33998	3.44625	42.5974	43.2619	1
FLJ90757	0.0157858	2.62934	2.62934	3.44578	20.4387	20.7603	1
MAP1B	0.0159501	6.25455	6.25455	3.43763	178.3	181.535	1
KLC1	0.0159844	0.429093	-2.3305	3.43594	170.344	173.52	1
MYBPC1	0.016145	0.396324	-2.52319	3.42807	39.0973	39.9176	1
LOC339535	0.0161711	-0.100418	-9.95836	3.4268	27.6678	28.2588	1
TNK2	0.016405	-0.22723	-4.40083	3.41551	84.4956	86.5856	1
CLMN	0.0164569	0.0305164	-32.7692	3.41303	16.2188	16.6321	1
PRKCB	0.0165199	2.38153	2.38153	3.41003	63.5663	65.2434	1
GALNT10	0.0165591	-0.176548	-5.66418	3.40817	75.9484	77.9948	1
FAM115A	0.0166444	-0.474865	-2.10586	3.40414	25.7874	26.5136	1
C20orf100	0.0166449	-6.09334	6.09334	3.40411	83.5879	85.9424	1
MRAS	0.0166844	2.60058	2.60058	3.40225	35.4356	36.4536	1
SLC2A12	0.0169819	7.35844	7.35844	3.38839	28.5556	29.4962	1
GPR17	0.01715	2.1034	2.1034	3.38068	122.762	127.095	1
SERINC2	0.0171946	5.26759	5.26759	3.37864	19.4618	20.1608	1
PDGFA	0.0172348	-7.32265	7.32265	3.37682	32.0434	33.2124	1
TYROBP	0.0172642	-0.0228184	-43.8243	3.37548	101.899	105.658	1
ATP1B1	0.0173266	0.363708	-2.74946	3.37266	398.23	413.266	1
COBLL1	0.0174824	0.183343	-5.45425	3.36566	159.135	165.487	1
FAM108B1	0.0175474	-13.1223	13.1223	3.36276	30.9142	32.1759	1
FEZ1	0.0177183	0.380495	-2.62815	3.35518	132.607	138.331	1
A2BP1	0.0177803	2.70455	2.70455	3.35245	13.4051	13.9951	1
LOC649366	0.0177933	3.18008	3.18008	3.35188	261.443	272.996	1
GPR83	0.0179203	7.00373	7.00373	3.34633	24.7066	25.8412	1
TPPP3	0.0180802	0.339359	-2.94673	3.3394	40.1543	42.0855	1
NTNG1	0.018131	4.15554	4.15554	3.33721	86.7438	90.9752	1

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PRKCB1	0.0182023	0.37766	-2.64788	3.33415	219.508	230.427	1
LOC645969	0.0182155	0.00140804	-710.206	3.33358	55.4149	58.1813	1
RNU1F1	0.0183369	-3.09815	3.09815	3.3284	56.7885	59.7163	1
SPAG6	0.0183475	-0.181676	-5.5043	3.32795	97.609	102.655	1
SLITRK3	0.0184472	-2.76491	2.76491	3.32373	114.726	120.81	1
IL1RAP	0.0185448	-0.136468	-7.3277	3.31963	98.2948	103.636	1
NRXN2	0.0186399	-0.0565205	-17.6927	3.31564	73.4625	77.5472	1
EBI2	0.0186906	0.41664	-2.40015	3.31353	62.7247	66.2546	1
EBF1	0.018727	-0.229038	-4.3661	3.31202	83.1172	87.8348	1
HSPB1	0.0187618	-0.442034	-2.26227	3.31057	106.788	112.898	1
SORBS1	0.0187773	-3.80682	3.80682	3.30993	21.1473	22.3616	1
CD302	0.0188031	-0.0971658	-10.2917	3.30886	115.371	122.035	1
PTGIS	0.0189734	0.386643	-2.58637	3.30185	32.3475	34.2888	1
PGCP	0.018986	-0.345824	-2.89165	3.30133	51.1821	54.2622	1
ZNF326	0.0191665	5.91448	5.91448	3.29398	30.683	32.6021	1
PPP2R2C	0.0192536	-33.7827	33.7827	3.29046	176.738	187.993	1
TFAP2C	0.0192805	-44.2248	44.2248	3.28937	17.286	18.3929	1
FLJ10916	0.0193143	-5.39903	5.39903	3.28801	54.9454	58.4878	1
CXCL12	0.0193165	-0.342283	-2.92156	3.28792	42.3507	45.0823	1
FOLR2	0.0193497	0.0296293	-33.7504	3.28659	35.1377	37.4193	1
SYNGR1	0.019362	0.0130652	-76.5391	3.2861	55.7113	59.3377	1
C10orf116	0.019454	-0.185975	-5.37707	3.28242	159.976	170.58	1
HEY2	0.0195618	0.436357	-2.2917	3.27813	67.5015	72.07	1
SLC2A10	0.0196228	0.0827072	-12.0908	3.27572	70.0687	74.8661	1
TTYH2	0.0196875	0.0294505	-33.9553	3.27317	53.9838	57.7249	1
FCGR2B	0.019689	0.393388	-2.54202	3.27311	35.8935	38.3817	1
CD14	0.0196917	-0.369322	-2.70767	3.273	139.534	149.211	1

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CRHBP	0.0197265	-0.209234	-4.77933	3.27163	19.5264	20.8894	1
C11orf88	0.0197638	0.403067	-2.48098	3.27017	87.9014	94.0792	1
ASTN2	0.0198378	-8.9997	8.9997	3.26727	75.8083	81.2081	1
PDE4DIP	0.0199641	-0.395162	-2.53061	3.26235	23.7908	25.5238	1
NNAT	0.0199884	-0.436437	-2.29128	3.26141	109.636	117.656	1
TBXAS1	0.0200192	-0.0191237	-52.2911	3.26022	58.5104	62.8136	1
ITPR2	0.020049	0.129019	-7.75079	3.25907	53.945	57.933	1
PPP4R4	0.0200599	0.24178	-4.136	3.25865	24.1011	25.8861	1
NEBL	0.020062	-3.92897	3.92897	3.25857	24.5213	26.3381	1
FN1	0.0201083	0.164988	-6.06104	3.25678	32.7021	35.1443	1
PODXL	0.020124	0.0516407	-19.3646	3.25618	67.0077	72.0252	1
RRN3P2	0.0201783	-17.0481	17.0481	3.25409	26.988	29.0275	1
CSMD2	0.0204266	-3.81293	3.81293	3.24463	102.036	110.067	1
KLK7	0.0204407	-0.125112	-7.99282	3.2441	15.2448	16.4474	1
SCN3B	0.020468	2.08946	2.08946	3.24306	19.766	21.332	1
PTPDC1	0.0204932	-0.109902	-9.09899	3.24212	15.7132	16.9631	1
PSAT1	0.0205542	0.01621	-61.6903	3.23982	79.9582	86.3795	1
LOC728855	0.0206051	4.77452	4.77452	3.23791	84.2435	91.0626	1
PLCL1	0.0207052	0.381422	-2.62177	3.23416	20.0952	21.747	1
PPP1R1B	0.0207737	-14.234	14.234	3.23161	104.74	113.439	1
ACSL5	0.0208998	-2.23427	2.23427	3.22694	27.5957	29.9308	1
CP	0.0209276	0.0994319	-10.0571	3.22591	32.5562	35.3223	1
MRGPRF	0.0209681	0.162163	-6.16665	3.22442	25.7148	27.9126	1
HBG1	0.0209929	-0.0680928	-14.6858	3.22351	442.231	480.162	1
FOXD1	0.0209937	0.0254096	-39.3552	3.22348	167.319	181.672	1
FAM89A	0.02107	2.35723	2.35723	3.22068	194.496	211.364	1
LCP1	0.0211584	-0.0887111	-11.2725	3.21745	79.1465	86.0971	1

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EBI3	0.021249	-0.385538	-2.59378	3.21415	31.4741	34.2732	1
PPAP2C	0.0214119	0.226647	-4.41215	3.20826	13.4839	14.7101	1
HTR4	0.0215695	-0.355753	-2.81094	3.20261	17.7637	19.4132	1
ARHGAP28	0.0215833	0.406742	-2.45856	3.20212	34.7459	37.9781	1
OTUD7A	0.0215952	0.0261149	-38.2923	3.2017	15.2873	16.7116	1
LOC643011	0.0219218	-7.08219	7.08219	3.19014	26.4604	29.0305	1
S100A10	0.0219271	0.195805	-5.10711	3.18996	122.209	134.086	1
ACTN1	0.0220393	-4.59363	4.59363	3.18603	72.7426	79.911	1
C10orf61	0.0220433	-0.335759	-2.97832	3.18589	62.2377	68.3739	1
SPA17	0.0221005	0.368488	-2.71379	3.1839	70.0593	77.0148	1
MATN2	0.0221824	0.332249	-3.00979	3.18105	127.672	140.473	1
EVI2A	0.0222139	0.390682	-2.55963	3.17996	12.3877	13.6345	1
SNAP91	0.0222293	0.276584	-3.61554	3.17943	400.46	440.837	1
CCDC129	0.0223235	0.220973	-4.52544	3.17618	26.6502	29.3673	1
SCGB2A1	0.0224058	0.148529	-6.7327	3.17335	39.231	43.2692	1
NBPF10	0.0224375	-4.35254	4.35254	3.17227	60.1565	66.3714	1
MARVELD2	0.0224429	-2.11469	2.11469	3.17208	19.353	21.3536	1
LOC286411	0.0225135	-0.488905	-2.04539	3.16967	23.3998	25.8385	1
GAPT	0.0225234	-0.0937637	-10.6651	3.16933	38.105	42.0806	1
HEPH	0.0226963	6.27889	6.27889	3.16346	22.8323	25.2613	1
HLA-DRB4	0.0227095	-0.457829	-2.18422	3.16302	170.182	188.313	1
TTC8	0.0227825	-0.231016	-4.32871	3.16055	44.3063	49.0648	1
RUNX2	0.022796	-0.2256	-4.43262	3.1601	16.8747	18.6897	1
CLEC5A	0.0228024	0.0198623	-50.3467	3.15988	26.6967	29.5702	1
FGF12	0.0228835	0.102034	-9.80068	3.15716	80.538	89.2838	1
MVP	0.0229289	-3.68961	3.68961	3.15564	35.3553	39.2135	1
TMEM64	0.0229567	-0.499985	-2.00006	3.15471	41.5718	46.122	1

Gene ID	p-value (Dx)	MeanRatio (DIPG vs. Astrocytoma and Ependymoma and Glioneural Tumor and JPA and Medulloblastoma and Meningioma)	FoldChange (DIPG vs. Astrocytoma and Ependymoma and Glioneural Tumor and JPA and Medulloblastoma and Meningioma)	F(Dx)	SS(Dx)	SS (Error)	F (Error)
SYK	0.0230987	-0.368537	-2.71343	3.14998	50.7709	56.4124	1
CD33	0.0231299	-0.324008	-3.08634	3.14895	32.5647	36.1951	1
CREB3L2	0.0231606	-0.145874	-6.85524	3.14793	111.456	123.922	1
MNDA	0.0232397	-0.398124	-2.51178	3.14532	29.9317	33.307	1
LOC100134424	0.0232548	52.2772	52.2772	3.14482	30.4781	33.9203	1
HHIP	0.0232988	0.156289	-6.3984	3.14337	33.338	37.1204	1
CYLD	0.0233115	-4.93424	4.93424	3.14295	22.6186	25.1881	1
TSPAN4	0.0233548	0.160273	-6.23934	3.14153	125.264	139.557	1
MORN5	0.0235541	-0.402938	-2.48177	3.13502	31.0703	34.6875	1
DDX12	0.023653	-11.7042	11.7042	3.13182	42.7881	47.8183	1
GABRB3	0.0239683	0.0171697	-58.2422	3.12169	118.32	132.659	1
COX4I2	0.0239721	-0.0883007	-11.3249	3.12156	47.9335	53.7446	1
SPR	0.0240044	0.00908562	-110.064	3.12054	36.0146	40.394	1
CDKL2	0.0240258	0.285513	-3.50246	3.11985	22.2267	24.935	1
CFD	0.0240267	0.10803	-9.25672	3.11982	53.8956	60.4632	1
ITGB2	0.0240605	-0.141246	-7.07986	3.11875	111.232	124.83	1
AKAP11	0.0240764	-5.31899	5.31899	3.11825	37.8252	42.4559	1
ZIC3	0.0240966	-0.44435	-2.25048	3.1176	24.9545	28.0154	1
TMOD2	0.0243949	-0.05774	-17.319	3.10821	79.0844	89.0531	1
MSR1	0.0245326	0.000597294	-1674.22	3.10391	34.9881	39.453	1
CAPSL	0.0246001	0.358616	-2.7885	3.10181	222.506	251.069	1
MGP	0.0246485	-2.03225	2.03225	3.10031	300.668	339.43	1
PIGK	0.0248321	-6.83838	6.83838	3.09465	50.2393	56.8199	1
ALDH4A1	0.0248744	-6.08538	6.08538	3.09335	35.5373	40.209	1
HSPB8	0.0249998	-0.364094	-2.74654	3.08951	59.6516	67.5772	1
NTRK2	0.025	-2.32769	2.32769	3.08951	138.385	156.772	1
HLA-DRA	0.0251446	-0.194763	-5.13444	3.08511	225.337	255.64	1

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TLR5	0.0252698	-0.262538	-3.80897	3.08133	34.0045	38.6248	1
PAQR5	0.0253931	-0.102898	-9.71833	3.07762	22.8196	25.9514	1
LAMA4	0.025506	0.360935	-2.77059	3.07424	90.2063	102.699	1
CACNA1C	0.0255152	0.40099	-2.49383	3.07397	20.8273	23.7139	1
SYNJ1	0.0255171	-0.0833185	-12.0021	3.07391	45.4322	51.7298	1
SEMA4B	0.0257722	-0.186525	-5.36121	3.06634	36.8572	42.0698	1
FCGRT	0.0257755	0.0860494	-11.6212	3.06624	79.9735	91.2867	1
HAP1	0.0258239	0.39342	-2.54182	3.06481	65.0727	74.3126	1
KIAA0247	0.0259593	-0.317689	-3.14773	3.06084	57.2081	65.4162	1
STOM	0.0260247	-477.447	477.447	3.05892	66.3079	75.869	1
FRMPD2	0.0261086	-0.225268	-4.43916	3.05648	15.8734	18.1768	1
C6orf165	0.0261519	0.126461	-7.9076	3.05522	32.7606	37.53	1
KIAA0773	0.0261832	-0.0665745	-15.0208	3.05431	42.7864	49.0298	1
ALDH1A2	0.0261982	0.336869	-2.96851	3.05387	40.225	46.1013	1
GPR19	0.0264829	3.2492	3.2492	3.04566	43.0714	49.4966	1
ANK1	0.0265453	-0.0840943	-11.8914	3.04387	17.3283	19.925	1
NKX6-2	0.0265716	0.484394	-2.06444	3.04312	242.012	278.346	1
C7orf16	0.0266489	2.40601	2.40601	3.04092	85.5701	98.4884	1
NLGN4Y	0.0269102	3.99553	3.99553	3.03351	60.8369	70.1922	1
AKR1C4	0.0269138	0.175861	-5.68631	3.03341	55.7106	64.2798	1
LOC731954	0.0269563	0.0827196	-12.089	3.03221	34.823	40.1952	1
TSPAN4	0.0269677	0.151313	-6.6088	3.03189	79.1935	91.4204	1
RRAGB	0.0271678	0.0955265	-10.4683	3.02629	60.9989	70.5472	1
LOC255167	0.0271898	5.56339	5.56339	3.02567	42.3787	49.0223	1
CRYM	0.0272119	-0.0822265	-12.1615	3.02506	18.9409	21.9147	1
HLF	0.0272836	2.31185	2.31185	3.02306	23.1162	26.7631	1
GPR68	0.0273065	2.3243	2.3243	3.02243	68.3592	79.1606	1

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TRIM23	0.0273382	-12.262	12.262	3.02155	40.1005	46.4503	1
RAP1GAP	0.0273504	0.237592	-4.2089	3.02121	172.722	200.095	1
OR4N2	0.0273791	2.1695	2.1695	3.02042	169.701	196.646	1
HNMT	0.0275225	-0.149863	-6.67276	3.01646	119.567	138.734	1
TNR	0.0275829	2.60971	2.60971	3.0148	28.3904	32.9595	1
GAS7	0.0277157	10.3098	10.3098	3.01116	58.5206	68.021	1
LOC653114	0.0277328	0.357515	-2.79708	3.01069	22.6952	26.3836	1
GREM1	0.0278793	11.1057	11.1057	3.00671	19.2598	22.4196	1
C1orf87	0.0279526	0.395241	-2.5301	3.00472	23.2444	27.0759	1
BRI3BP	0.0280692	-0.197565	-5.06161	3.00157	23.79	27.7405	1
LOC653764	0.0281174	4.34567	4.34567	3.00027	33.3087	38.8566	1
RELN	0.028126	0.207425	-4.82101	3.00004	63.6338	74.2384	1
CD83	0.0281423	15.8189	15.8189	2.9996	40.8364	47.6488	1
SPAG8	0.0281899	-0.0740761	-13.4996	2.99832	28.4275	33.184	1
MYL12A	0.0282932	-0.262581	-3.80834	2.99556	55.3059	64.6192	1
TIMP2	0.0283863	-0.439553	-2.27504	2.99307	26.5337	31.0276	1
CTSH	0.0284488	-0.0410129	-24.3826	2.99141	60.4151	70.6866	1
PTRF	0.0284541	-0.0341441	-29.2876	2.99127	68.9192	80.6404	1
CD37	0.0284721	-0.352906	-2.83361	2.99079	26.9956	31.5919	1
MAP2	0.0284899	-2.59568	2.59568	2.99032	41.978	49.1329	1
NRP1	0.0285294	-0.479271	-2.0865	2.98927	91.0309	106.584	1
MAP4	0.0286901	-0.161188	-6.20394	2.98503	40.6795	47.6974	1
LOC653127	0.0288263	-0.290474	-3.44265	2.98145	21.1685	24.8502	1
MAN2A1	0.0288579	-0.0425199	-23.5184	2.98063	58.3669	68.5373	1
BCAS4	0.0291391	-0.437588	-2.28525	2.97331	23.225	27.3391	1
NDRG4	0.0291705	-0.0688826	-14.5174	2.97249	28.627	33.7072	1
SLC30A3	0.0292665	0.225474	-4.43509	2.97001	74.8932	88.2575	1

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TMEM189-UBE2V	0.0292691	-12.7012	12.7012	2.96995	27.8014	32.7632	1
MYBPC1	0.0292843	0.113833	-8.78482	2.96956	96.7011	113.975	1
MYLK4	0.0294756	-0.312452	-3.20049	2.96464	34.6789	40.9412	1
C4orf49	0.0294888	0.439625	-2.27467	2.96431	52.2753	61.7222	1
KLRB1	0.0294926	0.130609	-7.65642	2.96421	24.8199	29.3061	1
CDCP1	0.0297891	5.44574	5.44574	2.95667	25.2715	29.9155	1
SLC6A9	0.0303112	0.0238781	-41.8794	2.94359	32.488	38.6291	1
RNASE4	0.0303832	0.346379	-2.88701	2.9418	50.003	59.4909	1
PLEC1	0.0303894	0.110704	-9.0331	2.94165	33.7452	40.1503	1
PTPRE	0.030391	-11.8308	11.8308	2.94161	139.732	166.257	1
TRIM9	0.0305693	-0.0361037	-27.698	2.9372	58.7873	70.0515	1
ST8SIA3	0.0308803	0.135761	-7.36589	2.92959	76.1483	90.9748	1
CBS	0.0310088	-4.46295	4.46295	2.92647	67.9146	81.2244	1
PTPRE	0.0310359	-6.40892	6.40892	2.92582	95.5439	114.294	1
PRUNE2	0.0310931	0.35898	-2.78567	2.92443	26.8227	32.1017	1
ROPN1L	0.0310969	-2.75923	2.75923	2.92434	69.3958	83.0565	1
RAB3C	0.0311226	10.4559	10.4559	2.92372	45.4395	54.3959	1
CYP26B1	0.0311429	0.402938	-2.48177	2.92323	116.483	139.466	1
SLC6A1	0.0311459	0.415732	-2.4054	2.92316	131.783	157.788	1
CACNB2	0.0313427	0.0870981	-11.4813	2.91843	21.8112	26.1576	1
TMEM132B	0.0314084	-0.29648	-3.37291	2.91685	149.35	179.209	1
PTP4A3	0.0314151	0.247634	-4.03821	2.91669	58.652	70.3817	1
ELMO1	0.031427	0.183584	-5.4471	2.91641	193.367	232.061	1
CD86	0.03149	0.11066	-9.03673	2.9149	54.5251	65.4696	1
FAM181A	0.0314993	2.79179	2.79179	2.91469	39.1591	47.0228	1
HOXC4	0.0316288	-2.75011	2.75011	2.9116	70.0416	84.1961	1
LOC100130633	0.0316332	0.0241015	-41.4911	2.9115	43.0226	51.7187	1

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TKTL1	0.0316712	-4.0018	4.0018	2.9106	55.5925	66.8501	1
3-Sep	0.031776	0.0940161	-10.6365	2.90812	184.123	221.597	1
KLHL4	0.0318153	2.41603	2.41603	2.90719	29.7219	35.7825	1
LOC389816	0.0319098	-6.21409	6.21409	2.90497	33.0427	39.8109	1
LAMB1	0.0319644	0.0157369	-63.5449	2.90369	75.8447	91.4205	1
ID1	0.0319877	0.345732	-2.89241	2.90314	34.1835	41.2113	1
CPNE8	0.0319879	2.73294	2.73294	2.90313	45.5396	54.9023	1
DNAJB1	0.0325591	-0.0677769	-14.7543	2.88987	488.523	591.664	1
NR4A2	0.0325907	2.7594	2.7594	2.88914	66.1443	80.1294	1
ITGB2	0.0326541	-0.161726	-6.18331	2.88769	114.357	138.605	1
CASP4	0.0326585	0.153229	-6.52618	2.88758	42.7858	51.86	1
MR1	0.0327029	0.135184	-7.39732	2.88656	28.5222	34.5835	1
SRPX	0.0327739	-2.55648	2.55648	2.88494	213.223	258.682	1
FOLR1	0.0328477	-0.300707	-3.32549	2.88326	22.8229	27.7048	1
LOC646588	0.032962	-0.090826	-11.0101	2.88066	106.209	129.045	1
C9orf171	0.0330153	0.181094	-5.52198	2.87945	27.0814	32.9177	1
ABCC3	0.0330461	-10.6747	10.6747	2.87875	48.8784	59.4267	1
IER3	0.0331136	0.00771148	-129.677	2.87722	79.9475	97.2522	1
GALNT9	0.033257	97.7018	97.7018	2.87399	83.9338	102.216	1
AIF1	0.0332798	-0.489201	-2.04415	2.87348	110.251	134.29	1
CD83	0.0334189	0.47603	-2.10071	2.87036	33.3186	40.6274	1
CTSC	0.0334255	0.348555	-2.86899	2.87021	52.5175	64.0411	1
SORBS2	0.0334355	-10.5709	10.5709	2.86998	35.3859	43.1538	1
ZIC2	0.0334417	1620.3	1620.3	2.86985	177.254	216.175	1
ALDH1A3	0.0335459	-20.1628	20.1628	2.86752	249.32	304.312	1
NHS	0.0337182	-9.89945	9.89945	2.86369	25.5064	31.1739	1
PAK7	0.0337682	-0.0550029	-18.1809	2.86258	41.6902	50.9735	1

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DMD	0.0339728	-0.0706557	-14.1531	2.85807	21.791	26.6853	1
PQLC3	0.0340837	-0.315432	-3.17025	2.85563	56.4615	69.2019	1
GABBR1	0.0341607	-0.178747	-5.59449	2.85395	70.9244	86.9797	1
CD86	0.0341822	-0.157707	-6.34089	2.85348	46.2893	56.7772	1
GRIA3	0.0342525	-0.012047	-83.0081	2.85194	57.094	70.0676	1
LRRC58	0.0345194	-5.55658	5.55658	2.84615	26.9469	33.1375	1
HIST1H2BD	0.0345601	-4.67611	4.67611	2.84527	106.159	130.587	1
ARHGAP24	0.0346102	-7.42452	7.42452	2.84419	19.888	24.4738	1
LOC113230	0.0346266	-0.193454	-5.1692	2.84383	25.7058	31.6369	1
BMP4	0.0346657	0.214783	-4.65587	2.84299	23.0893	28.4251	1
C1orf162	0.034818	0.18624	-5.36941	2.83972	108.357	133.551	1
DIRAS3	0.0348519	-2.00037	2.00037	2.839	37.4724	46.1971	1
PLOD2	0.0350525	-0.471613	-2.12038	2.83472	89.1791	110.109	1
PSD3	0.0350704	-10.9126	10.9126	2.83434	35.5014	43.8391	1
LOC653123	0.0351334	0.259661	-3.85118	2.833	70.0259	86.5128	1
ARHGAP15	0.0351459	0.302983	-3.30051	2.83273	55.0579	68.0271	1
SLC22A4	0.0351478	0.238451	-4.19373	2.83269	35.7825	44.2119	1
MGAT3	0.0353194	0.478996	-2.0877	2.82906	69.1411	85.5386	1
SORBS1	0.0353451	4.27274	4.27274	2.82852	33.4841	41.4332	1
CYP2U1	0.0353744	0.188875	-5.2945	2.8279	73.9665	91.5459	1
ATCAY	0.0353763	7.48056	7.48056	2.82786	73.7795	91.3157	1
ARHGEF10L	0.0355624	-5.53571	5.53571	2.82395	31.257	38.7398	1
FAM125B	0.0356454	0.0712362	-14.0378	2.82222	50.308	62.3899	1
FCGR2A	0.0357798	0.173635	-5.75922	2.81941	39.6981	49.281	1
PALMD	0.0358705	-0.0461968	-21.6465	2.81753	38.3972	47.6979	1
DUSP1	0.0359906	-0.0418412	-23.8999	2.81504	161.413	200.689	1
LOC100008589	0.0362084	-0.367643	-2.72003	2.81055	321.293	400.109	1

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C4B	0.0362716	0.131181	-7.62306	2.80925	23.5865	29.3861	1
PAPLN	0.0363799	-4.08154	4.08154	2.80703	42.2379	52.6651	1
OAF	0.0364417	30.9137	30.9137	2.80577	57.1393	71.2773	1
GFRA1	0.0365344	-0.0616073	-16.2318	2.80388	24.4487	30.5185	1
C10orf32	0.0365747	-0.418251	-2.39091	2.80306	60.8757	76.0116	1
SH3PXD2A	0.036584	2.8005	2.8005	2.80287	64.1228	80.0714	1
PLAC8	0.0366216	0.0666734	-14.9985	2.80211	35.1097	43.8541	1
FUCA1	0.0366877	0.01302	-76.8048	2.80077	62.7001	78.3536	1
CNIH2	0.0367029	0.0360112	-27.7692	2.80046	42.3602	52.9415	1
GBP1	0.0367068	-0.193613	-5.16494	2.80038	107.74	134.656	1
HEATR5A	0.0367778	-0.436458	-2.29117	2.79894	42.8039	53.5251	1
IL6ST	0.0367869	-7.57303	7.57303	2.79876	30.7339	38.4344	1
CCDC85A	0.0369263	-0.0259936	-38.4709	2.79595	46.1932	57.8252	1
KLC2	0.0369524	-0.233146	-4.28917	2.79542	16.014	20.0502	1
FBXW7	0.0370825	-0.109825	-9.10537	2.79281	69.0329	86.5133	1
4-Sep	0.0372844	3.9282	3.9282	2.78878	166.877	209.436	1
GRN	0.0374425	-0.0798826	-12.5184	2.78563	45.3676	57.0019	1
TPM2	0.0374805	-0.132061	-7.57223	2.78488	128.468	161.456	1
ANKRD20A3	0.0380683	-5.58225	5.58225	2.77333	18.7815	23.7026	1
DNAJB2	0.0382321	0.0238492	-41.9301	2.77015	102.016	128.895	1
EDN3	0.0383152	-0.274037	-3.64914	2.76854	27.2197	34.4113	1
ZFP36	0.0384228	0.154431	-6.47537	2.76646	163.356	206.671	1
ABCC8	0.0385671	0.185587	-5.38832	2.76368	46.8062	59.2767	1
SLC45A4	0.0385761	-0.0432809	-23.1049	2.76351	27.1422	34.3758	1
ARHGAP24	0.0385779	-2.07615	2.07615	2.76347	35.9856	45.5766	1
PLCE1	0.0386234	0.335257	-2.98279	2.7626	51.3323	65.0341	1
DNAJC12	0.0387603	-0.44878	-2.22826	2.75998	80.7307	102.377	1

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C3AR1	0.038847	-0.228142	-4.38323	2.75832	30.5433	38.756	1
SNAP23	0.0389365	-0.308807	-3.23827	2.75661	45.5439	57.8259	1
DARC	0.0389584	-0.0277347	-36.056	2.7562	80.0594	101.665	1
LOC646817	0.0390053	-0.292005	-3.42459	2.75531	32.5124	41.2997	1
IRX2	0.0390157	8.35882	8.35882	2.75511	242.141	307.608	1
GADD45A	0.0390684	5.25363	5.25363	2.75411	122.605	155.81	1
DRAM1	0.0392029	0.287769	-3.47501	2.75157	42.4162	53.9536	1
NME5	0.0392585	-3.30852	3.30852	2.75052	46.2062	58.7968	1
SGK3	0.039276	-0.0637255	-15.6923	2.75019	51.538	65.5894	1
TSPAN18	0.0394758	14.0899	14.0899	2.74643	38.0509	48.4913	1
ATP5I	0.0395214	-0.250755	-3.98795	2.74558	56.4043	71.903	1
KCNJ16	0.0395832	0.212736	-4.70067	2.74442	112.473	143.438	1
PLD5	0.0397291	0.123194	-8.11725	2.7417	38.376	48.9902	1
DOCK10	0.0399324	-0.201095	-4.97278	2.73792	155.294	198.519	1
RNF175	0.0399504	-0.182775	-5.47122	2.73759	46.0235	58.8409	1
PPP2R2C	0.0400625	4.17539	4.17539	2.73551	72.2283	92.4137	1
MLC1	0.0401557	-2.74668	2.74668	2.7338	24.6294	31.5323	1
KCNAB1	0.0401645	-112.608	112.608	2.73363	37.6756	48.2379	1
C5AR1	0.0402554	0.318544	-3.13929	2.73196	29.0814	37.2571	1
CADPS2	0.0402776	2.22828	2.22828	2.73155	12.8268	16.4352	1
TOB1	0.0403432	-73.0284	73.0284	2.73035	43.4918	55.7515	1
APOL3	0.0403762	-0.1177	-8.49615	2.72975	36.2926	46.5333	1
C10orf47	0.0404831	0.403808	-2.47642	2.72779	22.598	28.9952	1
LAYN	0.0405122	12.743	12.743	2.72726	34.6645	44.4863	1
CPEB2	0.0405616	0.262268	-3.81289	2.72636	64.8208	83.2145	1
EIF1AY	0.0405729	-234.755	234.755	2.72616	61.903	79.4747	1
RNF135	0.0407577	-0.411477	-2.43027	2.7228	35.3676	45.4631	1

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CD97	0.0407667	-2.63455	2.63455	2.72263	53.8174	69.1834	1
KIAA0367	0.0407721	0.411907	-2.42773	2.72254	152.335	195.837	1
ATP6V1G2	0.0408522	3.07613	3.07613	2.72109	49.9052	64.1906	1
CLIC3	0.0410767	0.401277	-2.49204	2.71704	22.6442	29.1695	1
ENG	0.0411074	0.0468844	-21.329	2.71649	33.2926	42.8951	1
MYLK	0.0412344	-0.0859786	-11.6308	2.71421	43.0497	55.5129	1
SH3KBP1	0.0413051	-0.495881	-2.01661	2.71295	88.0544	113.6	1
RNF41	0.0416252	-0.0858596	-11.6469	2.70725	30.6474	39.6218	1
LOC401074	0.0416811	0.396456	-2.52235	2.70626	22.6382	29.278	1
HS3ST1	0.0417219	2.50496	2.50496	2.70554	49.7113	64.3086	1
CNOT2	0.0418341	0.260782	-3.83461	2.70356	93.7964	121.428	1
TPD52	0.0418412	0.110649	-9.03763	2.70343	54.005	69.9176	1
KCNMA1	0.0420122	0.253434	-3.9458	2.70042	32.755	42.4535	1
SERPINE2	0.0420294	10.4051	10.4051	2.70012	83.9575	108.829	1
FERMT3	0.0420885	-3.64296	3.64296	2.69908	24.6625	31.9807	1
SHANK2	0.042229	-0.0588826	-16.9829	2.69663	29.1127	37.7859	1
PCGF5	0.042239	-6.4806	6.4806	2.69645	25.3466	32.8999	1
IGSF9	0.0423856	-5.0228	5.0228	2.6939	33.1296	43.043	1
FOXN4	0.0424292	-2.78953	2.78953	2.69314	44.8103	58.2354	1
CLDN10	0.0424796	-0.18102	-5.52424	2.69227	57.8907	75.2591	1
HLA-B	0.0427405	0.0822888	-12.1523	2.68775	118.289	154.037	1
SPTBN4	0.0428868	-0.0646898	-15.4584	2.68524	22.3342	29.1108	1
ALPL	0.0429206	-8.20278	8.20278	2.68466	99.275	129.425	1
TP53TG3	0.0429337	-0.2638	-3.79075	2.68443	39.5556	51.5731	1
NTNG1	0.0430249	-0.259711	-3.85044	2.68287	76.5587	99.8764	1
LY86	0.0431019	-0.296298	-3.37498	2.68155	60.1742	78.5402	1
LOC100132979	0.0431258	-0.490173	-2.04009	2.68115	55.8637	72.9252	1

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D4S234E	0.0432154	-0.0999659	-10.0034	2.67962	142.42	186.023	1
SYN1	0.0433641	8.77569	8.77569	2.67709	264.528	345.842	1
TMEM100	0.0434462	0.313399	-3.19082	2.6757	106.475	139.277	1
RPRM	0.0435126	-0.487272	-2.05224	2.67457	95.2179	124.604	1
OTX2	0.0435307	3.10954	3.10954	2.67427	16.1223	21.1003	1
AATK	0.0435624	0.21331	-4.68802	2.67373	14.2352	18.6344	1
KYNU	0.0435805	0.47865	-2.08921	2.67343	38.9784	51.0298	1
TMEM99	0.0435982	0.473852	-2.11037	2.67313	40.4508	52.9634	1
AIF1	0.0436266	0.0786434	-12.7156	2.67265	93.3791	122.286	1
RTN2	0.0436346	0.0343686	-29.0963	2.67251	18.3421	24.0213	1
UBE2L3	0.0437161	-0.261412	-3.82538	2.67114	36.5033	47.8304	1
CNTN2	0.043766	0.435703	-2.29514	2.6703	385.388	505.133	1
SULT1A4	0.0437945	-0.363238	-2.75302	2.66982	51.4701	67.4746	1
SLA	0.0438482	0.160547	-6.22871	2.66892	48.0631	63.0295	1
MEIS3P1	0.0439224	-0.342285	-2.92155	2.66768	51.5159	67.589	1
NSF	0.0439971	-4.61477	4.61477	2.66643	58.7131	77.0679	1
SLC16A14	0.0440448	0.178698	-5.59605	2.66563	37.1996	48.8435	1
GSTM1	0.0440928	0.208266	-4.80156	2.66483	103.597	136.065	1
CTXN3	0.04413	0.0311152	-32.1386	2.66421	11.8175	15.5248	1
EMP1	0.0442555	-0.0123252	-81.1348	2.66212	136.865	179.941	1
DTNA	0.0443111	-0.0924163	-10.8206	2.6612	157.643	207.332	1
CDT1	0.044352	24.0663	24.0663	2.66052	30.5073	40.1334	1
BEND7	0.0444227	-4.9155	4.9155	2.65935	29.0102	38.1807	1
NT5DC3	0.0444524	-8.22707	8.22707	2.65886	47.1708	62.0935	1
RASSF6	0.044505	-0.0742337	-13.471	2.65799	20.2555	26.6722	1
APOE	0.0445818	5.96412	5.96412	2.65672	73.1626	96.3854	1
TRIM36	0.0446942	-0.200795	-4.98019	2.65487	18.9382	24.9668	1

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DST	0.0450696	-2.96517	2.96517	2.64873	32.2372	42.5978	1
SH2B3	0.0450851	-0.386621	-2.58651	2.64847	61.7155	81.558	1
FAM114A1	0.0452491	0.131511	-7.6039	2.64581	26.9005	35.5853	1
FZD2	0.0452547	2.58843	2.58843	2.64572	56.8919	75.2618	1
CHRM3	0.0453355	0.103876	-9.62689	2.64441	50.5245	66.8716	1
SLC7A7	0.0453871	0.225426	-4.43604	2.64357	59.3157	78.5319	1
CMTM3	0.0454298	0.0648651	-15.4166	2.64288	37.4616	49.6109	1
TMED10	0.0454468	-0.33311	-3.00201	2.64261	105.147	139.262	1
MYLK	0.0455195	-8.97532	8.97532	2.64143	28.0498	37.167	1
RND3	0.0457034	-0.138585	-7.21581	2.63848	183.992	244.07	1
RNF14	0.0457311	17.3894	17.3894	2.63803	88.1166	116.908	1
SLC24A4	0.0457685	0.134626	-7.428	2.63743	11.5717	15.3562	1
LOC283755	0.045772	-0.199379	-5.01558	2.63738	54.3873	72.1761	1
PDE5A	0.0458857	3.83145	3.83145	2.63556	153.486	203.829	1
LOC100128892	0.0462643	0.16863	-5.93013	2.62953	40.6855	54.154	1
SPSB1	0.0463068	6.04704	6.04704	2.62885	38.5931	51.382	1
OR2A9P	0.0464583	0.18443	-5.42211	2.62646	23.7518	31.6514	1
LRR9	0.0468669	0.470383	-2.12593	2.62004	23.1003	30.8587	1
DTNBP1	0.0468907	-2.02419	2.02419	2.61967	25.2378	33.7189	1
LRRN2	0.0469206	-0.115563	-8.65328	2.6192	57.6437	77.0284	1
SLC5A10	0.04707	-0.484214	-2.0652	2.61687	19.5641	26.1664	1
RHBDF2	0.0471222	0.0278909	-35.854	2.61606	47.0722	62.9774	1
POU3F1	0.0471401	-2.75263	2.75263	2.61578	29.3637	39.2896	1
NPR3	0.0472639	0.186869	-5.35135	2.61386	21.2206	28.4146	1
GAPT	0.0473039	-0.221564	-4.51338	2.61324	24.2218	32.4411	1
NSF	0.0475382	0.155769	-6.41975	2.60962	72.1492	96.7657	1
UBE2C	0.0476455	76.355	76.355	2.60797	194.884	261.541	1

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LRRC6	0.0477393	-0.31027	-3.223	2.60653	28.5251	38.3029	1
RIT2	0.0477508	6.30693	6.30693	2.60636	79.9074	107.305	1
SLC22A2	0.0477871	0.37021	-2.70117	2.6058	25.3722	34.0789	1
EBF4	0.0478717	2.58002	2.58002	2.60451	28.5228	38.3296	1
RBMS1	0.0483171	0.109075	-9.16802	2.59773	32.6538	43.9954	1
SCARA3	0.0484675	2.0177	2.0177	2.59546	24.5932	33.1641	1
LOC646278	0.0486148	-0.215994	-4.62975	2.59324	31.0978	41.9715	1
COL4A5	0.0486502	0.220489	-4.53538	2.59271	83.339	112.503	1
ZMAT3	0.0486838	-0.37199	-2.68825	2.5922	143.247	193.413	1
BTN3A2	0.0486934	-0.0700103	-14.2836	2.59206	59.2931	80.0622	1
SPAG8	0.0487101	0.405659	-2.46512	2.59181	26.797	36.1869	1
PAQR6	0.0487964	0.444672	-2.24885	2.59051	136.994	185.09	1
ACRV1	0.0488848	-3.68019	3.68019	2.58919	43.2305	58.4379	1
C1orf88	0.0490864	0.164446	-6.08104	2.58618	31.381	42.4693	1
FHL2	0.0492884	-3.20962	3.20962	2.58318	63.9537	86.652	1
GHR	0.0494206	-0.0759203	-13.1717	2.58122	28.9548	39.2611	1
SH3KBP1	0.0495061	-0.163917	-6.10064	2.57996	81.4963	110.559	1
ANKRD20A1	0.0495485	2.42387	2.42387	2.57934	137.321	186.336	1
MT1E	0.0496354	0.0513758	-19.4644	2.57806	86.0068	116.764	1
FAM38A	0.0498548	2.38278	2.38278	2.57484	58.3091	79.2601	1
LOC100129443	0.0498551	0.337369	-2.96412	2.57483	26.9004	36.5661	1
FCRLA	0.0498791	0.33949	-2.9456	2.57448	25.235	34.3069	1