

down-regulated DEGs						
baseMean	log2FoldChange	lfcSE	stat	pvalue	padj	
Trpm1	26.01413855	-5.480084	1.321283238	-4.147547027	3.36E-05	0.0030906
Sh3bp2	161.5910599	-4.249636	0.483734898	-8.785051176	1.56E-18	3.32E-15
Sp7	140.0131634	-4.090614	0.488456413	-8.374573424	5.54E-17	9.15E-14
Wnt8b	31.06718495	-3.006554	0.868505559	-3.461755373	0.0005367	0.0230425
Sh2b2	108.2812779	-2.914076	0.476648505	-6.113678445	9.74E-10	5.56E-07
Gpr21	107.7501641	-2.747877	0.517401586	-5.310916831	1.09E-07	2.66E-05
Scarf2	78.46713512	-2.590187	0.485232252	-5.338035568	9.40E-08	2.33E-05
Sh3tc1	58.89719437	-2.404253	0.535041507	-4.493583023	7.00E-06	0.0008743
Gpx6	96.29556878	-2.342897	0.585948397	-3.998470498	6.38E-05	0.0050648
Fgf2	285.6072638	-2.323163	0.397644695	-5.842309084	5.15E-09	2.07E-06
Slc7a5	1264.564786	-2.319142	0.222581525	-10.41929059	2.02E-25	7.52E-22
Myo7a	208.2106134	-2.297077	0.414322676	-5.544173409	2.95E-08	8.78E-06
Gjc1	111.6021574	-2.262136	0.485067179	-4.663552049	3.11E-06	0.0004664
Wdfy4	69.43674913	-2.236139	0.498232456	-4.48814387	7.18E-06	0.0008821
Asah2	418.9547835	-2.226425	0.238662725	-9.328752476	1.07E-20	3.18E-17
Wdhd1	161.9355362	-2.091096	0.703379767	-2.972925817	0.0029498	0.0758304
Sinhcaf	90.76759901	-2.072553	0.623441849	-3.324373199	0.0008862	0.0326675
Nxf7	37.89791868	-2.053966	0.69626648	-2.949971617	0.003178	0.0793493
Efcab5	60.44059348	-2.039515	0.659724637	-3.091464776	0.0019917	0.0584762
Primpol	139.4726611	-2.008304	0.556451031	-3.609130356	0.0003072	0.0156843
Aim2	107.9234756	-2.006427	0.61686487	-3.252619474	0.0011435	0.0393225
Rpe65	60.96648154	-1.990683	0.537121425	-3.706206398	0.0002104	0.0120071
Mad2l1	214.8621921	-1.95225	0.337402034	-5.786123526	7.20E-09	2.55E-06
Mecom	66.95342935	-1.940169	0.497246895	-3.901823028	9.55E-05	0.0067219
Lrrc32	115.325776	-1.872741	0.492386848	-3.803393543	0.0001427	0.0087982
Col6a4	152.7759068	-1.828139	0.397708377	-4.596682165	4.29E-06	0.0005851
Slc26a10	269.8554749	-1.823146	0.413354949	-4.410605266	1.03E-05	0.001178
Dennd3	101.8917136	-1.660749	0.568831669	-2.919578914	0.003505	0.0846682
Npas4	422.8349899	-1.559508	0.26372631	-5.913357493	3.35E-09	1.51E-06
Slc4a11	124.8194914	-1.497601	0.432936434	-3.459171633	0.0005418	0.0231976
Per2	1063.54716	-1.449582	0.180045193	-8.051209394	8.20E-16	1.11E-12
Mroh7	140.3082992	-1.445721	0.371029092	-3.89651742	9.76E-05	0.0067745
Crybg3	683.1376367	-1.409763	0.23966677	-5.882179164	4.05E-09	1.67E-06
Papln	120.8585202	-1.398141	0.400505002	-3.490945988	0.0004813	0.0213445
Fam117a	168.5011942	-1.364696	0.340841444	-4.003901808	6.23E-05	0.0049823
Egr4	1365.895291	-1.356837	0.228629294	-5.934657664	2.94E-09	1.41E-06
Nrros	115.2705979	-1.352037	0.386096056	-3.501814181	0.0004621	0.0206781
Dmkn	230.619134	-1.345443	0.366577115	-3.67028746	0.0002423	0.0133307
Stk26	711.1439498	-1.318012	0.22748283	-5.793896966	6.88E-09	2.55E-06
Map3k1	273.675819	-1.317557	0.327435207	-4.023872113	5.72E-05	0.004725
Casp8ap2	404.1693947	-1.303726	0.458722901	-2.842077536	0.0044821	0.0990855
Nexn	1401.224201	-1.297711	0.17121014	-7.579639041	3.47E-14	4.29E-11
Cnot6l	1154.254713	-1.283569	0.323229261	-3.971080341	7.15E-05	0.0054783
Scube3	645.7510004	-1.281806	0.286057602	-4.480938063	7.43E-06	0.0009049
Tacr3	159.8175453	-1.276207	0.390816649	-3.26548898	0.0010928	0.0381975
Nsun6	133.5876816	-1.271035	0.362054159	-3.510621583	0.0004471	0.0203728

Up-regulated DEGs						
baseMean	log2FoldChange	lfcSE	stat	pvalue	padj	
Mylk3	43.20092346	4.3868356	1.18303499	3.708119907	0.000208804	0.0119768
Shox2	19.99307268	4.3483662	1.41906394	3.064249628	0.002182167	0.0617491
Pappa2	20.07707275	4.3269335	1.26009978	3.43380228	0.000595178	0.0247754
Prnp	76981.57491	3.9796046	0.13608067	29.24445142	5.28E-188	7.85E-184
Prom2	27.67704219	3.8029756	1.23460243	3.080324052	0.002067755	0.0597272
Adcyap1	171.4871274	3.4642549	0.74989808	4.619634267	3.84E-06	0.0005388
Npsr1	22.99728544	3.168092	1.06094069	2.986115975	0.002825455	0.0735779
Snca	12477.44334	3.0002843	0.15231995	19.69725081	2.28E-86	1.69E-82
Neurod1	58.40333333	2.9824479	0.75115442	3.970485696	7.17E-05	0.0054783
Tspan11	92.71838078	2.8946039	0.89588845	3.230986955	0.001233636	0.041938
Hkdc1	131.4911391	2.8627857	0.84081618	3.404770045	0.000662198	0.0269271
Trim7	63.16171903	2.8258949	0.57874815	4.882771381	1.05E-06	0.0001919
Impg2	27.34604466	2.7699987	0.8875794	3.120846132	0.001803322	0.0541215
Fam19a1	227.6961469	2.5653612	0.65816401	3.89775372	9.71E-05	0.0067716
Met	90.81755012	2.486467	0.8581749	2.897389619	0.003762821	0.0892191
Prdm8	153.2796276	2.4748653	0.51937473	4.765085983	1.89E-06	0.0003082
C1qtnf1	64.02895771	2.4714686	0.73051572	3.383183291	0.000716508	0.0281599
Vip	246.6872659	2.4679816	0.41281376	5.978438454	2.25E-09	1.12E-06
Cenpa	40.26770623	2.4288921	0.70736567	3.43371503	0.00059537	0.0247754
Podn	69.4100887	2.3945592	0.81478237	2.938894225	0.003293855	0.0810157
Emx1	167.4255044	2.374673	0.61695488	3.849022226	0.00011859	0.0076933
mt-Co2	8325.562003	2.3614367	0.19727322	11.97038692	5.08E-33	2.52E-29
Rps28	386.6420421	2.3022405	0.26032696	8.843650166	9.26E-19	2.29E-15
Col12a1	189.9482988	2.2935473	0.62654175	3.66064556	0.000251581	0.0136503
Adamts12	94.7942534	2.2610936	0.60624862	3.729647369	0.000191748	0.0110841
Smoc2	84.10586503	2.214574	0.55266453	4.007085395	6.15E-05	0.0049632
Doc2a	298.1551397	2.2046055	0.49930555	4.41534338	1.01E-05	0.0011705
Etnk2	70.7551162	1.9940091	0.65957582	3.023168937	0.002501426	0.0678124
Cck	2016.776002	1.9617042	0.28923175	6.782464978	1.18E-11	1.03E-08
Rtn4r	629.120907	1.9448194	0.45134967	4.308897386	1.64E-05	0.0016581
Bhlhe22	247.3705934	1.9208954	0.43392205	4.426821445	9.56E-06	0.0011187
Neurod2	634.6375267	1.9178412	0.43900054	4.368653377	1.25E-05	0.0013361
P4ha3	129.3513054	1.9166323	0.39577207	4.842767855	1.28E-06	0.0002281
Nwd2	392.759076	1.909466	0.34980316	5.458687043	4.80E-08	1.34E-05
Pgk1-rs7	1249.890437	1.9077539	0.29870347	6.386781927	1.69E-10	1.14E-07
Crh	74.9649257	1.900171	0.58147682	3.267836138	0.001083731	0.0380612
Glt8d2	91.81272225	1.8777454	0.61172679	3.069581829	0.002143587	0.0608893
Wnt9a	170.7431089	1.8731827	0.59653113	3.140125656	0.001688754	0.0516217
Neurod6	565.3212568	1.8621682	0.31584852	5.895763593	3.73E-09	1.58E-06
Scube1	357.1724709	1.857907	0.5014941	3.704743508	0.000211605	0.0120071
Cplx3	320.3250001	1.8357945	0.51703638	3.550609873	0.00038434	0.0182129
Ipcef1	1141.520206	1.8229529	0.36983935	4.929039942	8.26E-07	0.0001554
Trabd2b	55.48203132	1.8086157	0.58763025	3.077812495	0.002085261	0.0599723
Prss12	243.4998377	1.8079994	0.31046661	5.823490791	5.76E-09	2.25E-06
Rtn4rl2	239.8930932	1.8053229	0.45015301	4.01046495	6.06E-05	0.0049195
Itga8	61.23145621	1.798886	0.62149074	2.894469596	0.003797997	0.0894185

Rem2	919.1096817	-1.266386	0.273291621	-4.633826069	3.59E-06	0.0005128	Wnt10a	81.33880471	1.7957269	0.46285881	3.879642933	0.00010461	0.0071617
Soat1	685.2675299	-1.259172	0.308876403	-4.076620989	4.57E-05	0.0039014	Rpl17	433.3812855	1.7774373	0.39459104	4.504504965	6.65E-06	0.0008376
Baiap3	279.4396373	-1.221092	0.359229979	-3.399194284	0.0006758	0.0269679	Kcnj6	134.8446486	1.7749424	0.48640559	3.649099513	0.000263161	0.0139626
Junb	1594.717067	-1.211106	0.295923418	-4.092632288	4.27E-05	0.0037053	Ccn3	465.6765461	1.6964004	0.35311338	4.80412388	1.55E-06	0.0002624
N4bp2	231.6855643	-1.205439	0.404707824	-2.978541409	0.0028962	0.0749591	Cacna1g	814.8240227	1.6933859	0.27881552	6.073499233	1.25E-09	6.89E-07
Gpr101	123.3069286	-1.203779	0.379634929	-3.170885013	0.0015198	0.0479351	Cfap100	75.73018607	1.687082	0.5563693	3.032306161	0.002426929	0.0663986
Cobll1	303.7857625	-1.187098	0.275121976	-4.314806212	1.60E-05	0.0016366	Cnih3	734.6161267	1.6817732	0.39423698	4.265894112	1.99E-05	0.0019589
Klf4	116.1728548	-1.183569	0.400764476	-2.953278622	0.0031442	0.0788303	Medag	263.7274886	1.6795389	0.44003581	3.816823123	0.000135181	0.0085457
Ciart	355.6693068	-1.18319	0.351343004	-3.36762006	0.0007582	0.0289705	Gfra2	702.8954727	1.6664297	0.36823483	4.525453786	6.03E-06	0.0007785
Rpl10-ps1	895.8486918	-1.182709	0.386759764	-3.057994639	0.0022282	0.0625759	C1qj3	437.2490212	1.6586406	0.2986891	5.553067106	2.81E-08	8.51E-06
Nr4a3	831.81361	-1.180273	0.374435684	-3.15213793	0.0016208	0.0500594	Pdzrn3	310.8140862	1.6527259	0.41875512	3.946759792	7.92E-05	0.0058788
Rasgrp2	3936.764022	-1.163039	0.19263825	-6.037424806	1.57E-09	8.02E-07	Galnt9	812.5892275	1.6459065	0.38543302	4.27027892	1.95E-05	0.0019335
Tiparp	587.5268487	-1.155575	0.31634595	-3.652884535	0.0002593	0.0139052	Cbln2	254.1057064	1.6359832	0.38195062	4.283232143	1.84E-05	0.0018365
Plekha1	2350.44051	-1.144839	0.283828311	-4.033561385	5.49E-05	0.0045851	Zbtb37	431.0688199	1.63551	0.270791	6.039750082	1.54E-09	8.02E-07
Zbtb20	1797.422866	-1.134103	0.247614139	-4.580122282	4.65E-06	0.000627	Pde5a	145.1080454	1.5805509	0.39754579	3.975770702	7.02E-05	0.0054564
Abhd11os	170.2708343	-1.121169	0.32547333	-3.444735067	0.0005716	0.0239886	Nxph3	364.1006907	1.5607985	0.27842852	5.60574239	2.07E-08	6.55E-06
Fosb	393.3881123	-1.120501	0.312991429	-3.579972953	0.0003436	0.0171308	Bdnf	203.3273386	1.5397973	0.40457714	3.805942375	0.000141265	0.0087443
Dlk1	208.8423726	-1.120421	0.374154082	-2.99454499	0.0027485	0.0725264	Mical2	3688.349722	1.5336116	0.22312888	6.873209986	6.28E-12	5.83E-09
Krt9	512.410962	-1.112487	0.295370022	-3.766419508	0.0001656	0.0099352	Dtl	87.14610102	1.497002	0.46822509	3.197184516	0.001387761	0.045411
Rnf207	233.8106984	-1.104237	0.308999407	-3.57358979	0.0003521	0.0173345	Car4	328.5812015	1.4938781	0.36051784	4.143700924	3.42E-05	0.0031147
Arhgap27	662.1238689	-1.09211	0.30622401	-3.566377524	0.000362	0.0175723	Pter	773.9207436	1.4912462	0.27390905	5.444311778	5.20E-08	1.43E-05
Rnf169	864.5000564	-1.090165	0.188213711	-5.792167038	6.95E-09	2.55E-06	Nptxr	6561.775327	1.4660293	0.27212978	5.387243026	7.15E-08	1.90E-05
Id3	506.8664264	-1.087907	0.320499204	-3.394415135	0.0006878	0.0271736	Mapk11	440.1976115	1.4532336	0.33384717	4.35299049	1.34E-05	0.0014149
Prrg1	201.0972161	-1.077406	0.373025059	-2.888294028	0.0038734	0.0903342	Oxtr	65.98594372	1.4506364	0.50404471	2.877991502	0.004002159	0.0917532
Actn2	1909.082982	-1.075441	0.206168232	-5.216327214	1.83E-07	4.24E-05	Cux2	697.0628782	1.4470256	0.37858339	3.822211056	0.00013226	0.0084329
Crf3	287.7537301	-1.075434	0.282541794	-3.806282809	0.0001411	0.0087443	Tuba8	137.6287231	1.4447639	0.41037285	3.520612849	0.000430551	0.0198027
Fos	365.2555633	-1.072119	0.333097652	-3.218633408	0.001288	0.0431847	Olfm1	8233.113239	1.4375827	0.26686882	5.386851442	7.17E-08	1.90E-05
Rpl2211	560.0749056	-1.066078	0.268073667	-3.976811194	6.98E-05	0.0054564	Lrfn2	216.0363917	1.4335228	0.3485416	4.112917455	3.91E-05	0.0034611
Unc13c	3573.792053	-1.05649	0.187176611	-5.64434829	1.66E-08	5.35E-06	Bmp3	179.0094319	1.432122	0.3802722	3.766044376	0.000165854	0.0099352
Flna	1705.745403	-1.046399	0.20051898	-5.21845343	1.80E-07	4.24E-05	Bag2	100.2204161	1.4311849	0.44367361	3.225760659	0.001256384	0.0424201
Pard3	981.9393925	-1.044298	0.217248042	-4.806936979	1.53E-06	0.0002617	Rspo2	118.4452059	1.4201432	0.41794055	3.397954924	0.000678916	0.0269679
Mrpl48	920.4804927	-1.026479	0.205823029	-4.987191085	6.13E-07	0.0001198	Syt13	2474.149385	1.3679773	0.31790999	4.303033414	1.68E-05	0.0016911
St8sia2	251.4513706	-1.005189	0.308872237	-3.254383466	0.0011364	0.0391698	Ccn2	587.8929461	1.3489091	0.29276919	4.607414747	4.08E-06	0.000564
Nab2	840.0560451	-1.001889	0.218828678	-4.578416424	4.69E-06	0.000627	Tmem178	669.1903567	1.347111	0.40006545	3.367226549	0.000759283	0.0289705
Kcnh4	808.1907875	-0.999947	0.192959113	-5.182168251	2.19E-07	4.94E-05	Relt	282.1854217	1.3471107	0.37302967	3.611269469	0.000304702	0.0156632
Arl4d	799.0975031	-0.996055	0.290803149	-3.425185189	0.0006144	0.0253601	Ccdc3	118.2965967	1.3468864	0.4049417	3.32612419	0.000880627	0.0325438
Gcnt2	1834.997854	-0.994984	0.186359929	-5.339043516	9.34E-08	2.33E-05	Adra1b	162.0535624	1.3454561	0.46600318	2.887225079	0.003886561	0.0904996
Rgs2	2425.465417	-0.994854	0.225782214	-4.406253114	1.05E-05	0.0011927	Nxph4	97.98116502	1.3343353	0.44086381	3.026638299	0.002472897	0.0672845
Slc5a7	699.5674931	-0.986523	0.250208192	-3.942807297	8.05E-05	0.0058788	Nptx1	3719.171582	1.3247036	0.28985029	4.570302924	4.87E-06	0.000646
Fosl2	913.2521027	-0.983949	0.340964288	-2.885782075	0.0039044	0.0906269	Zbtb16	190.4999555	1.3212517	0.37730548	3.501808968	0.000462111	0.0206781
Dcun1d3	388.7603797	-0.977677	0.281060402	-3.478528783	0.0005042	0.0220295	Fst	164.6026568	1.317999	0.35190207	3.745357257	0.000180137	0.0105182
Tchp	223.0761832	-0.967201	0.292943932	-3.301658318	0.0009612	0.0345735	Ptpn3	472.9036516	1.317881	0.39068274	3.373276747	0.000742793	0.0287368
Adgre5	221.4854319	-0.966823	0.323026373	-2.993014545	0.0027624	0.0727619	Kcnc4	637.0696663	1.3150926	0.36855192	3.568269713	0.000359346	0.0175554
Ido1	358.8411948	-0.965279	0.28549168	-3.381110622	0.0007219	0.0282456	Sema6c	272.8717171	1.3137425	0.44450249	2.955534691	0.003121276	0.0784772
Svil	323.3658459	-0.960553	0.255757137	-3.7557232	0.0001728	0.01023	Ak5	1563.544926	1.3100018	0.27058531	4.841363461	1.29E-06	0.0002281
Rnpc3	522.1988468	-0.943865	0.295422432	-3.19496812	0.0013985	0.045646	Fam81a	2053.614345	1.3065094	0.27093797	4.822171678	1.42E-06	0.0002482
Sgk1	3364.293141	-0.929249	0.283347304	-3.279542222	0.0010398	0.0367777	Fkbp1b	238.2494771	1.2943929	0.39519982	3.275287092	0.001055546	0.0371592
Ice2	182.5675311	-0.925227	0.315973677	-2.928177797	0.0034096	0.0831729	Rprm	400.2048742	1.2940137	0.43103625	3.002099488	0.002681245	0.0716413

Sh2b3	542.2713616	-0.920826	0.210248795	-4.37969843	1.19E-05	0.0012887	Pafah2	127.6936797	1.2939353	0.37938416	3.41062013	0.000648153	0.0264532
Rarb	1645.37905	-0.918824	0.241803559	-3.799877634	0.0001448	0.0088871	Stx1a	2020.370326	1.2837879	0.33673441	3.812464246	0.000137588	0.0086429
Nof8	622.5805245	-0.911064	0.300512736	-3.0316989	0.0024318	0.06641	Unc5d	417.005264	1.2811316	0.39920364	3.209218126	0.001330965	0.0440374
Chat	431.5039934	-0.910044	0.232408434	-3.915707796	9.01E-05	0.0065005	Lsm11	283.0932071	1.2762244	0.38135714	3.34653325	0.000818289	0.0309326
Fam241a	195.7349711	-0.905906	0.319289188	-2.837259483	0.0045503	0.0996582	St8sia5	582.093361	1.2737776	0.33068461	3.851941073	0.000117185	0.0076933
Pign	402.8372281	-0.89749	0.238665626	-3.760450431	0.0001696	0.0100788	Sowahb	216.5973395	1.2707674	0.41745164	3.044106837	0.002333722	0.0648033
Lmo2	907.6837207	-0.897076	0.20215557	-4.437552674	9.10E-06	0.0010728	Fah	468.8811649	1.2676314	0.24975055	5.075590111	3.86E-07	8.08E-05
Clk1	2920.040509	-0.891518	0.267612454	-3.331378835	0.0008642	0.0320152	Satb1	1298.153295	1.2455023	0.34273436	3.634016551	0.000279043	0.0145455
Rpn2	2683.000537	-0.882881	0.178420122	-4.948326628	7.49E-07	0.0001426	Nectin3	340.6036164	1.2420155	0.38100388	3.259850116	0.001114711	0.0387825
lsyna1	950.9164658	-0.879924	0.22142595	-3.973897891	7.07E-05	0.0054709	Zfp7	145.1354501	1.2386621	0.37543665	3.29925741	0.00096941	0.0346174
Lrrc10b	5345.966673	-0.877165	0.245519379	-3.572691565	0.0003533	0.0173345	Gabbr2	4050.683614	1.236849	0.27297838	4.530941174	5.87E-06	0.000772
Rxrg	2285.040853	-0.877029	0.286518602	-3.060983488	0.0022061	0.062072	Syt17	276.124775	1.23661	0.33380731	3.704562286	0.000211756	0.0120071
Amy1	359.4375884	-0.868366	0.302979093	-2.866093243	0.0041557	0.0939568	Mpped1	2401.977908	1.2311569	0.22547588	5.460259852	4.75E-08	1.34E-05
Zfp276	504.1487419	-0.855686	0.25335531	-3.377413326	0.0007317	0.0284562	Trp53i11	874.7906614	1.231117	0.19373272	6.35471918	2.09E-10	1.35E-07
Zc3h12c	421.2890329	-0.854281	0.258033282	-3.310741259	0.0009305	0.033798	Chrna4	601.7151303	1.2309176	0.26104427	4.715359531	2.41E-06	0.0003731
Cacna1h	2017.745116	-0.852767	0.159625694	-5.34229437	9.18E-08	2.33E-05	Fezf2	248.000773	1.2284661	0.39881206	3.080313222	0.00206783	0.0597272
Slc10a4	332.4514897	-0.845867	0.274579563	-3.08059144	0.0020659	0.0597272	Shank1	4013.176659	1.2248921	0.23505011	5.21119558	1.88E-07	4.29E-05
Per1	2306.436439	-0.835847	0.163923062	-5.09902061	3.41E-07	7.25E-05	Ccdc120	197.4279328	1.2225014	0.39553927	3.09072064	0.001996714	0.0585073
Fam184b	462.7800331	-0.834232	0.274455678	-3.039588166	0.002369	0.0655353	Cckbr	397.85726	1.222062	0.34315098	3.561295334	0.00036903	0.0177997
Dnajc1	514.9679179	-0.829778	0.248035257	-3.345405104	0.0008216	0.0309798	Tmem132d	564.6574152	1.2155505	0.34344159	3.539322496	0.000401155	0.0187717
Grb10	976.1692671	-0.827122	0.277014806	-2.98583893	0.002828	0.0735779	Olfm2	1171.83903	1.2115545	0.35477775	3.414967485	0.000637896	0.0261784
Drd1	4597.265595	-0.825979	0.185641929	-4.44931097	8.61E-06	0.0010238	Rpl23a	910.5950333	1.2105546	0.23990811	5.045909654	4.51E-07	9.31E-05
Tpm1	5889.561583	-0.825437	0.226978466	-3.636629853	0.0002762	0.0145431	Adgra1	632.8687975	1.208132	0.26770891	4.512856714	6.40E-06	0.0008121
Dbp	3533.927983	-0.825097	0.187023959	-4.411717722	1.03E-05	0.001178	Vsnl1	5499.953508	1.1995912	0.3250326	3.690679692	0.000223656	0.0124911
Flnb	941.1924193	-0.822611	0.245453927	-3.351387721	0.0008041	0.0304729	Ncald	5754.768234	1.1899023	0.31774839	3.744794142	0.000180542	0.0105182
Slc17a8	319.4345436	-0.821447	0.289344587	-2.838991024	0.0045256	0.0996582	Sphkap	1484.24865	1.1894522	0.32210152	3.692786858	0.00022181	0.0124347
Bhlhe41	1197.230487	-0.8211	0.188466652	-4.356737226	1.32E-05	0.0014009	Kcnj16	374.3816864	1.1867751	0.3005978	3.948049812	7.88E-05	0.0058788
Clk4	1469.267559	-0.813301	0.27630439	-2.943495173	0.0032453	0.0800732	Pcsk5	119.8914639	1.1863675	0.38562757	3.076459357	0.002094749	0.0600183
Scn3a	1340.769115	-0.804909	0.231861893	-3.471502554	0.0005176	0.0224163	Crb2	137.9216577	1.1859859	0.39071519	3.035423122	0.002401985	0.0658374
Slc25a25	1581.507141	-0.804142	0.183130536	-4.391087042	1.13E-05	0.0012504	Gng4	672.5231188	1.1787025	0.33307147	3.538887538	0.000401817	0.0187717
Serpinb1a	310.676419	-0.801399	0.273521476	-2.929930236	0.0033904	0.0828413	Golga7b	1516.263807	1.1731667	0.25469107	4.606234072	4.10E-06	0.000564
Cxadr	609.3598815	-0.801121	0.219408737	-3.651271216	0.0002609	0.0139052	Boc	174.9406367	1.1677701	0.40112806	2.911215062	0.003600261	0.0866864
Anapc7	679.5084974	-0.800299	0.211115443	-3.790812271	0.0001502	0.0091799	Slitrk1	1027.946439	1.1583162	0.34222667	3.384646236	0.0007127	0.0280846
mt-Atp8	91030.01301	-0.79458	0.134083976	-5.92598978	3.10E-09	1.44E-06	Nr2f1	728.677164	1.1490076	0.37351853	3.076173045	0.002096761	0.0600183
Cd4	1381.961948	-0.7921	0.209464585	-3.781547759	0.0001559	0.0094506	Zdhhc22	550.8510457	1.1475903	0.29599779	3.877023014	0.000105742	0.0071731
Hlcs	396.5823861	-0.787719	0.236434132	-3.331664277	0.0008633	0.0320152	Coro2a	405.9647289	1.1438964	0.327445	3.493400249	0.000476911	0.0212682
Egr1	7081.129901	-0.785498	0.190863517	-4.115497357	3.86E-05	0.0034611	Sstr2	355.2684811	1.1376805	0.31845249	3.572528141	0.000353551	0.0173345
Ddit4l	598.6972096	-0.785337	0.254306602	-3.088149051	0.0020141	0.0588998	Rps29	909.2995026	1.1302194	0.21627584	5.225823825	1.73E-07	4.15E-05
Ccdc187	583.2519508	-0.784783	0.232939739	-3.369039098	0.0007543	0.028956	Nfix	2630.961808	1.1296548	0.26964192	4.189462804	2.80E-05	0.0026126
Kcna4	1260.996273	-0.783914	0.186502357	-4.203236865	2.63E-05	0.0025058	Pde1a	1893.995877	1.1235785	0.24246515	4.633979507	3.59E-06	0.0005128
Stxbp2	860.906844	-0.780004	0.231453234	-3.37002988	0.0007516	0.0289269	Stac2	1411.82806	1.1215463	0.35123329	3.193166396	0.001407218	0.0457454
Plekha6	2237.088492	-0.777997	0.203411269	-3.824751018	0.0001309	0.0083824	Grik4	322.7630934	1.1136173	0.34408252	3.236483259	0.001210123	0.041423
Arpp21	25339.35434	-0.773719	0.225939956	-3.424443671	0.0006161	0.0253601	Sel1l3	741.378788	1.1124569	0.35050339	3.173883463	0.001504141	0.0476352
Gprin3	1058.636802	-0.771686	0.21434255	-3.600246592	0.0003179	0.01601	Disp3	390.2301936	1.103195	0.28226351	3.908387044	9.29E-05	0.0066045
Reln	2134.026012	-0.771517	0.260406439	-2.962743005	0.0030491	0.0775644	B3galt2	634.507636	1.0992941	0.29767161	3.692975822	0.000221645	0.0124347
Scn4b	26940.9743	-0.771366	0.164286295	-4.69525563	2.66E-06	0.0004036	Kcnj3	1348.866529	1.0903215	0.38106389	2.861256481	0.004219655	0.0948369
Dgkb	8413.271375	-0.766088	0.211159041	-3.628014701	0.0002856	0.014784	Fxyd7	524.1458476	1.0854456	0.2866902	3.786127335	0.000153013	0.0093163
Ano2	537.4359896	-0.765463	0.216404816	-3.537180665	0.0004044	0.0187753	Fhd2	2798.353822	1.0818534	0.26381618	4.100784635	4.12E-05	0.0036031

Cdc42ep3	626.9635923	-0.764151	0.257616186	-2.966239683	0.0030147	0.0769514	Hs3st2	680.3856766	1.0801797	0.29556627	3.654610968	0.000257572	0.0138641
Cd46	607.557035	-0.763612	0.234004877	-3.263233075	0.0011015	0.0384125	Slc18b1	368.9948548	1.079639	0.31730548	3.402522375	0.000667669	0.0269679
Tnrc6b	1370.736977	-0.757375	0.256964353	-2.947393731	0.0032046	0.0797458	Sez6l	1808.944502	1.076292	0.33439797	3.218596054	0.001288198	0.0431847
Traip	673.2487594	-0.751165	0.217427422	-3.454783192	0.0005507	0.0235107	Serpini1	2971.700407	1.0710134	0.30411138	3.521780063	0.00042866	0.0197769
Tctn1	652.6172749	-0.749416	0.240046573	-3.12196108	0.0017965	0.0540526	Fam19a2	406.8139867	1.068541	0.34752319	3.074732964	0.002106911	0.0601928
Pigq	1846.729333	-0.748945	0.168070012	-4.456147065	8.34E-06	0.0009997	Slc6a7	639.2446564	1.0659044	0.2981838	3.574655607	0.000350689	0.0173345
Aktip	2565.030762	-0.747269	0.231082803	-3.23376946	0.0012217	0.0416268	Chrm3	573.9069233	1.0537006	0.2812642	3.746302032	0.000179461	0.0105182
Suz12	882.8076821	-0.746458	0.210004314	-3.554488922	0.0003787	0.0180326	Cd34	833.7185128	1.0516972	0.33396047	3.149166791	0.001637367	0.0503618
Rgs9	8347.341181	-0.744625	0.206246635	-3.610361317	0.0003058	0.0156639	Rai14	200.4367545	1.0469058	0.36659063	2.855789898	0.004292991	0.0963394
Acvr1c	1330.978476	-0.740669	0.192295685	-3.851721417	0.0001173	0.0076933	Tanc1	597.7948524	1.0457913	0.34661379	3.0171166	0.0025515	0.0690439
Pfas	462.3071311	-0.739189	0.260525606	-2.837297611	0.0045497	0.0996582	Ndst3	208.1501437	1.0317532	0.33283123	3.099929023	0.00193567	0.0573429
Id4	4319.355288	-0.739053	0.151881047	-4.86599913	1.14E-06	0.0002063	Ak4	524.1205479	1.0309487	0.22261384	4.631107731	3.64E-06	0.0005146
Celsr3	1417.353288	-0.737092	0.188984382	-3.900278394	9.61E-05	0.006733	Ank1	1001.304858	1.0287663	0.28930608	3.555978723	0.000376575	0.0180326
Atp6v0a2	1856.261897	-0.735663	0.222926913	-3.300017398	0.0009668	0.0346174	Rnase1	149.1951559	1.0283024	0.35572015	2.89076246	0.003843085	0.0899347
Agfg2	1119.131502	-0.732588	0.189077447	-3.874538176	0.0001068	0.0072137	Gprin1	1189.89355	1.0257347	0.23416476	4.380397433	1.18E-05	0.0012887
Frmf4b	893.0658954	-0.727074	0.221901171	-3.276565238	0.0010508	0.0370793	Arhgef25	1769.695747	1.0150554	0.2333748	4.349464639	1.36E-05	0.0014178
Rrp1b	400.6993132	-0.726424	0.246035422	-2.952517974	0.0031519	0.0788303	Unc13b	511.5853964	1.0136361	0.21373708	4.742443553	2.11E-06	0.0003388
Adgrf5	840.339897	-0.722161	0.206762871	-3.492700176	0.0004782	0.0212682	Lingo1	3725.618694	1.0134609	0.28353742	3.574346231	0.000351104	0.0173345
Fras1	728.453312	-0.720297	0.224343797	-3.210682043	0.0013242	0.0439115	Wnt4	241.657262	1.0116059	0.32403647	3.121888901	0.001796947	0.0540526
Zeb1	2113.898047	-0.719731	0.171355849	-4.200211989	2.67E-05	0.0025233	Fxyd6	860.000222	1.0067659	0.21645145	4.651231931	3.30E-06	0.0004902
Ndufa3	835.8412508	-0.719476	0.186413567	-3.859571208	0.0001136	0.0076011	Hrh1	174.3276249	1.0036826	0.3457685	2.902758796	0.003698914	0.0883458
Pbx3	1073.562951	-0.718516	0.242496821	-2.962989822	0.0030467	0.0775644	Kcnj9	1696.95976	1.0004493	0.30170629	3.315970911	0.000913253	0.0334017
Cc2d1b	606.1896195	-0.716544	0.210744575	-3.400059676	0.0006737	0.0269679	Ptprk	684.0693408	1.0001591	0.28035382	3.567488781	0.000360419	0.0175554
Fbxl16	37262.46892	-0.714676	0.145664235	-4.906324806	9.28E-07	0.0001723	Skida1	181.6241128	0.9971895	0.33107201	3.012001758	0.002595311	0.0698477
Tbc1d8	2020.7631	-0.714116	0.230886377	-3.092931247	0.0019819	0.0583691	Gpd2	1959.533522	0.9949373	0.31330711	3.175597694	0.001495282	0.0475299
Ccdc88c	1994.987543	-0.712951	0.250942904	-2.841088022	0.004496	0.0992458	Fam155a	1196.608128	0.9946974	0.27293306	3.644473848	0.000267939	0.0141655
Lbh	825.8340003	-0.70949	0.199557692	-3.55531231	0.0003775	0.0180326	Mast4	931.3585834	0.9941816	0.27023194	3.678993636	0.000234156	0.0129799
Rap1gap	10192.59407	-0.708897	0.191799491	-3.696032002	0.000219	0.0123703	Cib2	257.0371475	0.9887057	0.32806887	3.013713984	0.00258071	0.0697073
Mtcl1	3040.10166	-0.70542	0.148842893	-4.739359939	2.14E-06	0.0003388	Mef2c	5765.01711	0.9886622	0.30880019	3.201624214	0.001366551	0.044962
Ccnd2	1746.351354	-0.700793	0.176899601	-3.961530712	7.45E-05	0.0055876	Mast1	810.2858051	0.9882573	0.33395739	2.959231658	0.003084072	0.0780528
Sv2c	2950.839111	-0.696705	0.170462794	-4.087135659	4.37E-05	0.0037503	Srrm4	462.3585236	0.9880926	0.28444601	3.473743902	0.000513251	0.0222949
Tspyl2	2161.044672	-0.694494	0.154685756	-4.489706113	7.13E-06	0.0008821	Sertm1	238.0086959	0.9778038	0.34326945	2.848502157	0.004392556	0.0979817
Pcp4	12455.10006	-0.692506	0.173741946	-3.985831053	6.72E-05	0.0053137	Foxp4	577.4633222	0.9771978	0.21608811	4.522219034	6.12E-06	0.0007837
Akap9	3773.260012	-0.692065	0.239827431	-2.885680261	0.0039057	0.0906269	Cpne6	1072.786119	0.9743215	0.24204932	4.025301594	5.69E-05	0.0047226
Tmem267	462.2202233	-0.691387	0.230566537	-2.998643333	0.0027118	0.0720169	Epop	807.2940103	0.9729197	0.22172207	4.388014825	1.14E-05	0.0012588
Necab2	3170.949018	-0.691359	0.181512078	-3.80888533	0.0001396	0.0087135	Synj2	1127.127803	0.9723521	0.30534273	3.184461151	0.001450238	0.0469384
Ppp1r16b	6722.853167	-0.691282	0.207232024	-3.335788342	0.0008506	0.0318292	Rps13	398.4812934	0.9720334	0.30613246	3.17520525	0.001497306	0.0475299
Ablim2	5459.994512	-0.690511	0.220886374	-3.126093283	0.0017715	0.0535982	Agps	890.5877593	0.9707817	0.29115421	3.334252664	0.000855289	0.0318451
Ankrd12	1589.134285	-0.690049	0.225702799	-3.057336847	0.0022331	0.0625951	Basp1	5851.599979	0.9565293	0.19310362	4.953450656	7.29E-07	0.0001407
Ppp1r1b	33651.51189	-0.688475	0.182450945	-3.773480034	0.000161	0.009722	Smyd2	516.8952901	0.9525979	0.309531	3.077552331	0.002087082	0.0599723
Rragd	4459.498419	-0.688427	0.211395518	-3.256580517	0.0011276	0.0390014	Stmn1	5140.651899	0.9464862	0.23264844	4.068311218	4.74E-05	0.00402
Dach1	1252.115715	-0.683216	0.170649499	-4.003623358	6.24E-05	0.0049823	Ube2q11	2297.8142	0.9378887	0.22616684	4.146888534	3.37E-05	0.0030906
Shb	692.872406	-0.681433	0.239578499	-2.844301258	0.0044509	0.0986903	Myrip	924.9489127	0.9335641	0.23026163	4.054362298	5.03E-05	0.0042434
Thsd7a	1777.022511	-0.680793	0.162428687	-4.191337562	2.77E-05	0.0026075	Igf2	846.5032687	0.9324378	0.28635181	3.256266415	0.001128878	0.0390014
Srrt	2688.126991	-0.674331	0.200046136	-3.370876717	0.0007493	0.028913	Tmem42	189.9903821	0.9314167	0.31461327	2.960513128	0.00307127	0.0778614
mt-Nd4l	45790.07166	-0.674152	0.14284243	-4.719548133	2.36E-06	0.0003696	Ntn3	186.2587473	0.9309854	0.32607633	2.855114853	0.004302127	0.0963431
Slc9a5	1222.62655	-0.670319	0.236294039	-2.836801766	0.0045568	0.0996582	Sprn	2133.896412	0.9292585	0.28889183	3.216631144	0.001297052	0.0432465
Selenoi	1572.114882	-0.657087	0.188703776	-3.482108158	0.0004975	0.0218012	Ly6e	2058.609341	0.9290666	0.21379438	4.34560834	1.39E-05	0.0014329

Cpne4	907.0555494	0.7498758	0.22488786	3.334443328	0.000854703	0.0318451
Faim2	6617.065188	0.7416389	0.17195159	4.313067881	1.61E-05	0.0016383
Ephb6	1928.115809	0.7396353	0.21225749	3.484613182	0.000492849	0.0217263
Akap2	989.7410576	0.7391633	0.23262656	3.177467489	0.001485673	0.0474095
Ppfia3	3325.75262	0.7368452	0.18677675	3.945058316	7.98E-05	0.0058788
Ddx3y	1617.808649	0.7367423	0.18019408	4.088604688	4.34E-05	0.0037483
Gcn11l	1326.016012	0.7340035	0.17348952	4.230823252	2.33E-05	0.0022461
Gng3	2022.539557	0.7338699	0.20689081	3.547136259	0.000389443	0.0183669
Ankrd13d	554.0025687	0.7289265	0.21440111	3.399826244	0.000674287	0.0269679
Rims4	1551.201945	0.7248694	0.1883106	3.849329018	0.000118442	0.0076933
Pfkl	2719.027613	0.7226004	0.1524646	4.73946344	2.14E-06	0.0003388
Rph3a	8002.362404	0.7206549	0.14966863	4.815003048	1.47E-06	0.0002543
Arhgap44	2204.520427	0.7163333	0.18044204	3.96988014	7.19E-05	0.0054783
Depdc5	910.7194789	0.7153484	0.22311859	3.206135368	0.001345307	0.0444131
Ttc9b	1429.920292	0.7084669	0.18119301	3.91001212	9.23E-05	0.006595
Acs14	1250.393158	0.7047485	0.23689218	2.974975961	0.002930115	0.075704
Ccl27a	1152.99017	0.7042477	0.17745398	3.968621465	7.23E-05	0.0054793
Kcnmb4	838.4855774	0.7038586	0.22134158	3.179965478	0.001472926	0.0473632
Snap91	4803.149232	0.7031996	0.19240333	3.654820159	0.000257362	0.0138641
Rpl21	2233.183197	0.6945749	0.15540899	4.469335238	7.85E-06	0.0009477
Rpl24	971.9099754	0.6925002	0.22608778	3.062970577	0.002191516	0.0618407
Sv2b	5011.166858	0.6906585	0.17682754	3.905830944	9.39E-05	0.0066429
Apba2	2282.605224	0.6882647	0.1621924	4.243507626	2.20E-05	0.0021367
Tubb2a	6718.493403	0.6852323	0.17802355	3.849110461	0.000118548	0.0076933
Kdm5d	959.1311764	0.6846102	0.19823839	3.45346957	0.000553425	0.0235578
Dgkz	6036.181075	0.6842034	0.1756695	3.894833168	9.83E-05	0.00679
Rap1gap2	2966.935294	0.6839325	0.21908156	3.121816638	0.001797388	0.0540526
Camk1	831.3937552	0.6797998	0.23383764	2.907144498	0.003647447	0.0875387
Nell2	6860.150743	0.6789371	0.18595532	3.651076817	0.000261143	0.0139052
Fam174b	451.3167276	0.6787389	0.22854919	2.96977172	0.002980211	0.0763345
Garnl3	1448.540191	0.6772764	0.19274493	3.513848142	0.000441665	0.0201889
Itpk1	1163.09067	0.6757199	0.23669442	2.854819803	0.004306125	0.0963431
Podxl2	1701.054648	0.6703299	0.16713596	4.010686603	6.05E-05	0.0049195
Btbd3	1728.821824	0.6698782	0.21842681	3.066831523	0.002163408	0.0613351
Enc1	9110.539753	0.6655024	0.16124553	4.127260812	3.67E-05	0.0033255
Syp	15181.49607	0.6635847	0.22961058	2.890044055	0.003851878	0.0899741
Syn1	9528.203162	0.6633893	0.17203768	3.856069971	0.000115225	0.0076761
Bcr	7731.294284	-0.658839	0.1935325	-3.40427858	0.000663391	0.0269271
Dkk3	3795.501853	0.6526468	0.14420326	4.525881259	6.01E-06	0.0007785
Prkar1b	9664.441188	0.6471993	0.20744841	3.119808338	0.001809687	0.0542031
Adcy2	2084.633062	0.6467528	0.21556468	3.00027249	0.002697382	0.0719431
Rpl27a	947.2615204	0.6451617	0.18107875	3.562879002	0.000366681	0.0177502
Plch2	1060.900534	0.6446654	0.17871253	3.607275682	0.000309429	0.0157427
Ywhah	11632.05755	0.6419759	0.19473301	3.296697821	0.000978287	0.034769
Ucp2	699.2587817	0.6405998	0.1940052	3.301972194	0.000960076	0.0345735
Nlk	1661.095398	0.6390924	0.16205303	3.943723783	8.02E-05	0.0058788
Gnas	11894.97242	0.6380307	0.20049535	3.182271616	0.001461247	0.0471919
Tspan5	2312.77734	0.6351233	0.15443579	4.112539557	3.91E-05	0.0034611

Slc36a1	1150.370525	0.6322061	0.21700908	2.913270319	0.003576648	0.0862576
Csmd2	802.3050718	0.6276194	0.21361336	2.938109504	0.003302204	0.0810868
Mturn	2000.467348	0.6238733	0.18817373	3.315411414	0.000915083	0.0334017
Rab26	612.8435605	0.6153494	0.21033868	2.925517107	0.003438843	0.0837499
Magi1	1521.683955	0.6132036	0.20390754	3.007262782	0.002636118	0.0706898
Htr2a	672.4175037	0.6101961	0.20733585	2.943032296	0.003250145	0.0800732
Snap25	39699.12314	0.6016743	0.17270862	3.483753893	0.000494434	0.0217317
Rab3b	1142.536572	0.5988353	0.18975314	3.155864804	0.00160023	0.0499433
Gabra5	752.045997	0.5982113	0.19951524	2.998323663	0.002714692	0.0720169
Map4k3	1038.425712	0.5975491	0.18294342	3.266305707	0.001089606	0.0381773
Rap2a	1490.345576	0.595476	0.16996542	3.503512607	0.000459165	0.0206781
Stmn3	5629.624863	0.5949313	0.15166347	3.922706656	8.76E-05	0.0063453
Cdh22	710.2025617	0.5946648	0.2065874	2.878514648	0.003995527	0.0917427
Slc45a4	904.7313899	0.5936389	0.20851757	2.846949015	0.004414043	0.0980195
Tubb4b	4476.270029	0.5926025	0.15480734	3.828000114	0.000129189	0.0083083
Srcin1	5255.485505	0.5905576	0.16421197	3.596313011	0.000322759	0.016199
Tango2	1065.843907	0.5872566	0.20096474	2.922187467	0.003475823	0.0841193
Nrgn	24914.26307	0.5870354	0.16037197	3.66046136	0.000251762	0.0136503