

Supplementary Information

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Supplementary Table 1. Sample information

No.	Behavior paradigm	Learning Status	Age (week)	Sex	Genetic background	Brain region for sequencing	Raw nuclei number	Filtered nuclei number	Median genes per nucleus	Nuclei number of Purkinje neuron	Median genes per Purkinje nucleus	Nuclei number of Granule neuron	Nuclei number of Interneuron	Nuclei number of Glial cell	Nuclei number of Oligodendrocyte
1	Activity_Replicate1	Baseline	5-7	M	BU/6J	Whole cerebellum	13090	12625	1075	4968	3114	6736	241	320	360
2	Activity_Replicate1	Activity	5-7	M	BU/6J	Whole cerebellum	12166	10972	977	3688	3139	6478	311	210	285
3	Motor learning_Replicate1	Baseline	5-7	M	BU/6J	Whole cerebellum	5409	5006	1247	896	4741	3625	215	107	163
4	Motor learning_Replicate1	Learning	5-7	M	BU/6J	Whole cerebellum	8025	7567	1044	1473	4240	5479	263	155	197
5	Motor learning_Replicate1	Learned	5-7	M	BU/6J	Whole cerebellum	8149	7532	1013	2197	3910	4733	263	155	184
6	Associative learning_Replicate1	Baseline	5-7	M	BU/6J	Anterior Vermis	8333	8233	907	3547	3029	3931	320	200	235
7	Associative learning_Replicate1	Learning	5-7	M	BU/6J	Anterior Vermis	5956	5751	788	1103	3034	3768	467	197	216
8	Associative learning_Replicate1	Learned	5-7	M	BU/6J	Anterior Vermis	6431	6177	716	1407	3008	4246	242	145	137
9	Activity_Replicate2	Baseline	5-7	M	BU/6J	Whole cerebellum	7512	7051	1087	1410	3785	4501	484	208	448
10	Activity_Replicate2	Activity	5-7	M	BU/6J	Whole cerebellum	9147	8853	849	1384	3901	6786	327	49	307
11	Motor learning_Replicate2	Baseline	5-7	M	BU/6J	Whole cerebellum	11106	9654	1615	5205	3148	3777	256	211	205
12	Motor learning_Replicate2	Learning	5-7	M	BU/6J	Whole cerebellum	8708	8105	849	2273	3194	4990	431	209	202
13	Motor learning_Replicate2	Learned	5-7	M	BU/6J	Whole cerebellum	10531	9176	841	4141	2812	4270	284	242	239
14	Associative learning_Replicate2	Baseline	5-7	M	BU/6J	Anterior Vermis	10276	9918	2889	6826	3159	2630	148	80	234
15	Associative learning_Replicate2	Learning	5-7	M	BU/6J	Anterior Vermis	8574	8381	902	1379	3511	5494	1306	55	147
16	Associative learning_Replicate2	Learned	5-7	M	BU/6J	Anterior Vermis	10382	10055	2879	6699	3199	2762	246	79	269
17	Motor learning_Scramble	Baseline	5-7	M	BU/6J	Anterior Vermis	15452	14005	849	1562	4513	10242	1782	156	263
18	Motor learning_Scramble	Learned	5-7	M	BU/6J	Anterior Vermis	15636	13718	962	1051	4888	10231	1748	284	404
19	Motor learning_Fgfr2 KO_Replicate1	Baseline	5-7	M	BU/6J	Anterior Vermis	16560	14455	944	1214	3883	10792	2037	146	266
20	Motor learning_Fgfr2 KO_Replicate1	Learned	5-7	M	BU/6J	Anterior Vermis	15406	13455	910	939	3862	9989	1940	168	419
21	Motor learning_Fgfr2 KO_Replicate2	Baseline	5-7	M	BU/6J	Anterior Vermis	13878	13673	971	1943	2206	9727	1699	134	170
22	Motor learning_Fgfr2 KO_Replicate2	Learned	5-7	M	BU/6J	Anterior Vermis	15544	15331	887	1968	4269	10542	2473	108	240

Figure 1, Extended Data Figure 1-2

Baseline (Whole and Anterior Vermis adult mouse cerebellum)	
Fig1b	Activity_Replicate1 (Baseline, Whole)
	Activity_Replicate2 (Baseline, Whole)
	Motor learning_Replicate1 (Baseline, Whole)
	Motor learning_Replicate2 (Baseline, Whole)
Fig1c sFig1k-n sFig1o	Activity_Replicate1 (Baseline, Whole)
	Activity_Replicate2 (Baseline, Whole)
	Motor learning_Replicate1 (Baseline, Whole)
	Motor learning_Replicate2 (Baseline, Whole)
	Associative learning_Replicate1 (Baseline, Anterior Vermis)
	Associative learning_Replicate2 (Baseline, Anterior Vermis)
sFig1j	Associative learning_Replicate1 (Baseline, Anterior Vermis)
	Associative learning_Replicate2 (Baseline, Anterior Vermis)

Baseline (Whole and Anterior Vermis Purkinje neuron)	
Fig1d, g sFig2a-d, g	Activity_Replicate1 (Baseline, Whole)
	Activity_Replicate2 (Baseline, Whole)
	Motor learning_Replicate1 (Baseline, Whole)
	Motor learning_Replicate2 (Baseline, Whole)
	Associative learning_Replicate1 (Baseline, Anterior Vermis)
	Associative learning_Replicate2 (Baseline, Anterior Vermis)
Fig1e	Activity_Replicate1 (Baseline, Whole)
	Activity_Replicate2 (Baseline, Whole)
	Motor learning_Replicate1 (Baseline, Whole)
	Motor learning_Replicate2 (Baseline, Whole)
sFig2f	Associative learning_Replicate1 (Baseline, Anterior Vermis)
	Associative learning_Replicate2 (Baseline, Anterior Vermis)

Figure 2, Extended Data Figure 5-7

Three paradigms (Whole and Anterior Vermis <i>P1cb4+</i> subpopulation)	
Fig2a-f sFig5f-m	Activity_Replicate1 (Baseline, Activity)
	Activity_Replicate2 (Baseline, Activity)
	Motor learning_Replicate1 (Baseline, Learning, Learned)
	Motor learning_Replicate2 (Baseline, Learning, Learned)
	Associative learning_Replicate1 (Baseline, Learning, Learned)
	Associative learning_Replicate2 (Baseline, Learning, Learned)

Three paradigms (Whole and Anterior Vermis <i>Aldoc+</i> subpopulation)	
Fig2g-i sFig6a-g	Activity_Replicate1 (Baseline, Activity)
	Activity_Replicate2 (Baseline, Activity)
	Motor learning_Replicate1 (Baseline, Learning, Learned)
	Motor learning_Replicate2 (Baseline, Learning, Learned)
	Associative learning_Replicate1 (Baseline, Learning, Learned)
	Associative learning_Replicate2 (Baseline, Learning, Learned)

Three paradigms (Whole and Anterior Vermis Purkinje neuron)	
Fig2j sFig6h sFig7a-e	Activity_Replicate1 (Baseline, Activity)
	Activity_Replicate2 (Baseline, Activity)
	Motor learning_Replicate1 (Baseline, Learning, Learned)
	Motor learning_Replicate2 (Baseline, Learning, Learned)
	Associative learning_Replicate1 (Baseline, Learning, Learned)
	Associative learning_Replicate2 (Baseline, Learning, Learned)

Figure 4, Extended Data Figure 9-10

Three paradigms (Whole and Anterior Vermis Purkinje neuron)	
Fig4a-b sFig9a-b, e-f	Activity_Replicate1 (Baseline, Activity)
	Activity_Replicate2 (Baseline, Activity)
	Motor learning_Replicate1 (Baseline, Learning, Learned)
	Motor learning_Replicate2 (Baseline, Learning, Learned)
	Associative learning_Replicate1 (Baseline, Learning, Learned)
	Associative learning_Replicate2 (Baseline, Learning, Learned)

Motor learning (Anterior Vermis)	
Fig4j, m sFig10i-k, m	Motor learning_Scramble (Baseline, Learned)
	Motor learning_ <i>Fgfr2</i> _KO_Replicate1 (Baseline, Learned)
	Motor learning_ <i>Fgfr2</i> _KO_Replicate2 (Baseline, Learned)

Motor learning (Anterior Vermis)	
sFig10l	Motor learning_Scramble (Learned)
	Motor learning_ <i>Fgfr2</i> _KO_Replicate1 (Learned)
	Motor learning_ <i>Fgfr2</i> _KO_Replicate2 (Learned)

Supplementary Table 2.
Cerebellum cluster marker genes

Gene	p_val	avg_logFC	pct.1	pct.2	p_val_adj	Cluster
Kcnd2	0.00E+00	2.559	0.999	0.254	0.00E+00	Granule neuron
Kcnip4	0.00E+00	2.199	0.997	0.805	0.00E+00	Granule neuron
Raly1	0.00E+00	1.935	0.964	0.107	0.00E+00	Granule neuron
Nrxn1	0.00E+00	1.884	1.000	0.176	0.00E+00	Granule neuron
Grik2	0.00E+00	1.816	0.964	0.078	0.00E+00	Granule neuron
Tenm1	0.00E+00	1.584	0.929	0.054	0.00E+00	Granule neuron
Rims1	0.00E+00	1.458	0.907	0.074	0.00E+00	Granule neuron
Negr1	0.00E+00	1.451	0.927	0.154	0.00E+00	Granule neuron
Rbfox1	0.00E+00	1.419	0.997	0.753	0.00E+00	Granule neuron
Ctnna3	0.00E+00	1.386	0.867	0.106	0.00E+00	Granule neuron
Car10	0.00E+00	1.310	0.878	0.078	0.00E+00	Granule neuron
Olfm3	0.00E+00	1.283	0.818	0.057	0.00E+00	Granule neuron
Rims2	0.00E+00	1.239	0.868	0.203	0.00E+00	Granule neuron
Cadm2	0.00E+00	1.211	0.987	0.538	0.00E+00	Granule neuron
Cadps2	0.00E+00	1.132	0.766	0.033	0.00E+00	Granule neuron
Dpp6	0.00E+00	1.117	0.774	0.143	0.00E+00	Granule neuron
Fgf14	0.00E+00	1.117	1.000	0.967	0.00E+00	Granule neuron
Galnt13	0.00E+00	1.112	0.914	0.451	0.00E+00	Granule neuron
Syt1	0.00E+00	1.094	0.751	0.078	0.00E+00	Granule neuron
Syne1	0.00E+00	1.049	0.835	0.269	0.00E+00	Granule neuron
Unc13c	0.00E+00	1.048	0.785	0.084	0.00E+00	Granule neuron
Mctp1	0.00E+00	1.020	0.742	0.093	0.00E+00	Granule neuron
Kirrel3	0.00E+00	0.988	0.821	0.205	0.00E+00	Granule neuron
Snap25	0.00E+00	0.954	0.760	0.195	0.00E+00	Granule neuron
Chn2	0.00E+00	0.945	0.700	0.034	0.00E+00	Granule neuron
Pde4d	0.00E+00	0.940	0.866	0.455	0.00E+00	Granule neuron
Lrrc4c	0.00E+00	0.916	0.826	0.319	0.00E+00	Granule neuron
Dlgap1	0.00E+00	0.915	0.895	0.448	0.00E+00	Granule neuron
Gm42418	0.00E+00	0.912	0.865	0.305	0.00E+00	Granule neuron
Camk4	0.00E+00	0.893	0.671	0.124	0.00E+00	Granule neuron
Stxbp5l	0.00E+00	0.887	0.707	0.113	0.00E+00	Granule neuron
Trhde	0.00E+00	0.876	0.626	0.028	0.00E+00	Granule neuron
Pclo	0.00E+00	0.842	0.705	0.205	0.00E+00	Granule neuron
Pde4b	0.00E+00	0.812	0.744	0.109	0.00E+00	Granule neuron
Trpm3	0.00E+00	0.791	0.750	0.107	0.00E+00	Granule neuron
Lrrtm3	0.00E+00	0.791	0.619	0.075	0.00E+00	Granule neuron
Itm2b	0.00E+00	0.791	0.809	0.352	0.00E+00	Granule neuron
Cntnap2	0.00E+00	0.731	0.970	0.730	0.00E+00	Granule neuron
Cntn6	0.00E+00	0.725	0.662	0.259	0.00E+00	Granule neuron
Oxr1	0.00E+00	0.715	0.644	0.212	0.00E+00	Granule neuron
Etv1	0.00E+00	0.706	0.548	0.026	0.00E+00	Granule neuron
Gabra6	0.00E+00	0.705	0.580	0.025	0.00E+00	Granule neuron

Ddx5	0.00E+00	0.702	0.666	0.189	0.00E+00	Granule neuron
Rbfox3	0.00E+00	0.699	0.554	0.025	0.00E+00	Granule neuron
Sphkap	0.00E+00	0.693	0.710	0.393	0.00E+00	Granule neuron
Gpr158	0.00E+00	0.692	0.636	0.152	0.00E+00	Granule neuron
Gria4	0.00E+00	0.686	0.821	0.128	0.00E+00	Granule neuron
Tcf4	0.00E+00	0.685	0.672	0.121	0.00E+00	Granule neuron
Scn2a	0.00E+00	0.684	0.597	0.116	0.00E+00	Granule neuron
Ppp3ca	0.00E+00	0.676	0.712	0.393	0.00E+00	Granule neuron
Ndst3	0.00E+00	0.663	0.543	0.032	0.00E+00	Granule neuron
Reln	0.00E+00	0.656	0.532	0.020	0.00E+00	Granule neuron
Kctd8	0.00E+00	0.650	0.541	0.080	0.00E+00	Granule neuron
Ptprd	0.00E+00	0.633	0.707	0.132	0.00E+00	Granule neuron
Gm20388	0.00E+00	0.619	0.741	0.445	0.00E+00	Granule neuron
Dock4	0.00E+00	0.613	0.547	0.063	0.00E+00	Granule neuron
Ank3	0.00E+00	0.612	0.679	0.331	0.00E+00	Granule neuron
Ccser1	0.00E+00	0.608	0.698	0.449	0.00E+00	Granule neuron
Chgb	0.00E+00	0.606	0.530	0.069	0.00E+00	Granule neuron
Caln1	0.00E+00	0.597	0.602	0.291	0.00E+00	Granule neuron
Cacna2d1	0.00E+00	0.578	0.489	0.029	0.00E+00	Granule neuron
Msra	0.00E+00	0.575	0.494	0.049	0.00E+00	Granule neuron
Nfib	0.00E+00	0.575	0.548	0.088	0.00E+00	Granule neuron
Tmem108	0.00E+00	0.566	0.509	0.044	0.00E+00	Granule neuron
Gpm6a	0.00E+00	0.551	0.573	0.184	0.00E+00	Granule neuron
A230057D06Rik	0.00E+00	0.547	0.577	0.237	0.00E+00	Granule neuron
Strbp	0.00E+00	0.545	0.675	0.410	0.00E+00	Granule neuron
Fut8	0.00E+00	0.544	0.564	0.227	0.00E+00	Granule neuron
Specc1	0.00E+00	0.541	0.508	0.064	0.00E+00	Granule neuron
Lin7a	0.00E+00	0.539	0.457	0.039	0.00E+00	Granule neuron
Cacna1e	0.00E+00	0.539	0.463	0.026	0.00E+00	Granule neuron
Tmem163	0.00E+00	0.537	0.450	0.028	0.00E+00	Granule neuron
Zfpm2	0.00E+00	0.537	0.624	0.277	0.00E+00	Granule neuron
Lhfp	0.00E+00	0.527	0.487	0.097	0.00E+00	Granule neuron
Nav2	0.00E+00	0.525	0.500	0.108	0.00E+00	Granule neuron
Mycbp2	0.00E+00	0.523	0.659	0.372	0.00E+00	Granule neuron
Rapgef4	0.00E+00	0.523	0.476	0.051	0.00E+00	Granule neuron
Lsamp	0.00E+00	0.517	0.992	0.657	0.00E+00	Granule neuron
Plcx3	0.00E+00	0.512	0.439	0.082	0.00E+00	Granule neuron
Sh3gl2	0.00E+00	0.509	0.563	0.305	0.00E+00	Granule neuron
Gm2694	0.00E+00	0.508	0.443	0.023	0.00E+00	Granule neuron
Grin2a	0.00E+00	0.507	0.486	0.084	0.00E+00	Granule neuron
Brinp1	0.00E+00	0.505	0.513	0.196	0.00E+00	Granule neuron
Arpp21	0.00E+00	0.505	0.450	0.035	0.00E+00	Granule neuron
Gphn	0.00E+00	0.502	0.733	0.600	0.00E+00	Granule neuron
Cnksr2	0.00E+00	0.500	0.575	0.340	0.00E+00	Granule neuron

Epb41	0.00E+00	0.494	0.533	0.221	0.00E+00	Granule neuron
Gm26848	0.00E+00	0.490	0.569	0.318	0.00E+00	Granule neuron
Ctnna2	0.00E+00	0.489	0.654	0.517	0.00E+00	Granule neuron
Rabgap1l	0.00E+00	0.483	0.461	0.081	0.00E+00	Granule neuron
Ryr2	0.00E+00	0.481	0.507	0.173	0.00E+00	Granule neuron
Pde10a	0.00E+00	0.470	0.573	0.330	0.00E+00	Granule neuron
Erc1	0.00E+00	0.470	0.444	0.083	0.00E+00	Granule neuron
Nrxn3	0.00E+00	0.470	0.999	0.969	0.00E+00	Granule neuron
Cdh8	0.00E+00	0.461	0.438	0.099	0.00E+00	Granule neuron
Nedd4l	0.00E+00	0.454	0.413	0.032	0.00E+00	Granule neuron
Nsg1	0.00E+00	0.452	0.558	0.277	0.00E+00	Granule neuron
Gm28376	0.00E+00	0.451	0.509	0.232	0.00E+00	Granule neuron
Hivep2	0.00E+00	0.451	0.522	0.262	0.00E+00	Granule neuron
Pld5	0.00E+00	0.450	0.426	0.048	0.00E+00	Granule neuron
Kcnj3	0.00E+00	0.445	0.527	0.280	0.00E+00	Granule neuron
Smg1	0.00E+00	0.442	0.463	0.131	0.00E+00	Granule neuron
Nfia	0.00E+00	0.438	0.475	0.112	0.00E+00	Granule neuron
Otud7a	0.00E+00	0.437	0.487	0.240	0.00E+00	Granule neuron
ErbB4	0.00E+00	0.427	0.397	0.088	0.00E+00	Granule neuron
Camk2d	0.00E+00	0.426	0.545	0.251	0.00E+00	Granule neuron
Fnbp1	0.00E+00	0.419	0.464	0.087	0.00E+00	Granule neuron
Atp1a1	0.00E+00	0.414	0.398	0.060	0.00E+00	Granule neuron
Cacna1c	0.00E+00	0.412	0.387	0.052	0.00E+00	Granule neuron
Fgf12	0.00E+00	0.412	0.721	0.659	0.00E+00	Granule neuron
Pcsk2	0.00E+00	0.410	0.373	0.052	0.00E+00	Granule neuron
Mmp24	0.00E+00	0.409	0.468	0.188	0.00E+00	Granule neuron
Foxn3	0.00E+00	0.396	0.470	0.184	0.00E+00	Granule neuron
Ntrk3	0.00E+00	0.394	0.480	0.276	0.00E+00	Granule neuron
Stag1	0.00E+00	0.389	0.499	0.273	0.00E+00	Granule neuron
Celf4	0.00E+00	0.381	0.357	0.032	0.00E+00	Granule neuron
Atp6v0b	0.00E+00	0.381	0.535	0.294	0.00E+00	Granule neuron
Ablim1	0.00E+00	0.377	0.433	0.179	0.00E+00	Granule neuron
Ahi1	0.00E+00	0.376	0.521	0.300	0.00E+00	Granule neuron
Son	0.00E+00	0.369	0.609	0.419	0.00E+00	Granule neuron
Zfp521	0.00E+00	0.360	0.367	0.054	0.00E+00	Granule neuron
Srrm4	0.00E+00	0.352	0.343	0.044	0.00E+00	Granule neuron
CsmD3	0.00E+00	0.352	0.430	0.141	0.00E+00	Granule neuron
Zbtb20	0.00E+00	0.352	0.549	0.277	0.00E+00	Granule neuron
Chd7	0.00E+00	0.349	0.376	0.092	0.00E+00	Granule neuron
PtpRt	0.00E+00	0.349	0.295	0.043	0.00E+00	Granule neuron
Kcnc1	0.00E+00	0.349	0.367	0.075	0.00E+00	Granule neuron
Cnpy1	0.00E+00	0.348	0.361	0.053	0.00E+00	Granule neuron
Fut9	0.00E+00	0.342	0.429	0.198	0.00E+00	Granule neuron
Gm42912	0.00E+00	0.335	0.299	0.007	0.00E+00	Granule neuron

Cmss1	0.00E+00	0.334	0.438	0.203	0.00E+00	Granule neuron
Selenom	0.00E+00	0.333	0.409	0.162	0.00E+00	Granule neuron
Ndr3	0.00E+00	0.327	0.361	0.099	0.00E+00	Granule neuron
Slc4a4	0.00E+00	0.326	0.431	0.059	0.00E+00	Granule neuron
Megf11	0.00E+00	0.325	0.312	0.030	0.00E+00	Granule neuron
Pkib	0.00E+00	0.325	0.315	0.036	0.00E+00	Granule neuron
H3f3b	0.00E+00	0.325	0.378	0.117	0.00E+00	Granule neuron
Tll1	0.00E+00	0.325	0.285	0.014	0.00E+00	Granule neuron
Il16	0.00E+00	0.324	0.296	0.018	0.00E+00	Granule neuron
Gabrd	0.00E+00	0.324	0.313	0.025	0.00E+00	Granule neuron
Cdh7	0.00E+00	0.324	0.300	0.024	0.00E+00	Granule neuron
Zic1	0.00E+00	0.320	0.312	0.029	0.00E+00	Granule neuron
Tmem178	0.00E+00	0.319	0.318	0.033	0.00E+00	Granule neuron
Fat2	0.00E+00	0.315	0.293	0.009	0.00E+00	Granule neuron
Slit3	0.00E+00	0.313	0.274	0.010	0.00E+00	Granule neuron
Chl1	0.00E+00	0.312	0.311	0.041	0.00E+00	Granule neuron
Prkce	0.00E+00	0.312	0.319	0.046	0.00E+00	Granule neuron
Bsg	0.00E+00	0.307	0.395	0.161	0.00E+00	Granule neuron
Usp3	0.00E+00	0.302	0.358	0.133	0.00E+00	Granule neuron
Kcnk10	0.00E+00	0.300	0.277	0.014	0.00E+00	Granule neuron
Fstl5	0.00E+00	0.298	0.272	0.038	0.00E+00	Granule neuron
Prune2	0.00E+00	0.294	0.286	0.028	0.00E+00	Granule neuron
Gm36975	0.00E+00	0.292	0.283	0.043	0.00E+00	Granule neuron
Rtn3	0.00E+00	0.288	0.317	0.062	0.00E+00	Granule neuron
Inpp4b	0.00E+00	0.285	0.407	0.080	0.00E+00	Granule neuron
Sv2b	0.00E+00	0.285	0.265	0.010	0.00E+00	Granule neuron
Dlg1	0.00E+00	0.285	0.313	0.059	0.00E+00	Granule neuron
Atp2b3	0.00E+00	0.284	0.274	0.021	0.00E+00	Granule neuron
Adamts18	0.00E+00	0.283	0.260	0.017	0.00E+00	Granule neuron
Patj	0.00E+00	0.283	0.318	0.106	0.00E+00	Granule neuron
Kcnj6	0.00E+00	0.277	0.255	0.014	0.00E+00	Granule neuron
Vsnl1	0.00E+00	0.274	0.258	0.019	0.00E+00	Granule neuron
Prkcb	0.00E+00	0.272	0.329	0.084	0.00E+00	Granule neuron
Cnr1	0.00E+00	0.270	0.277	0.041	0.00E+00	Granule neuron
Slc16a11	0.00E+00	0.267	0.261	0.028	0.00E+00	Granule neuron
Ablim3	0.00E+00	0.263	0.304	0.085	0.00E+00	Granule neuron
Maml2	0.00E+00	0.262	0.278	0.049	0.00E+00	Granule neuron
Nrxn2	0.00E+00	0.261	0.298	0.078	0.00E+00	Granule neuron
Btg1	0.00E+00	0.258	0.251	0.019	0.00E+00	Granule neuron
Stmn2	1.80E-302	0.330	0.405	0.193	3.93E-298	Granule neuron
Syn2	3.47E-299	0.287	0.382	0.162	7.59E-295	Granule neuron
Chd9	1.06E-285	0.371	0.524	0.353	2.31E-281	Granule neuron
Wscd2	6.70E-284	0.257	0.311	0.115	1.46E-279	Granule neuron
Il1rap1	2.07E-274	0.298	0.949	0.841	4.53E-270	Granule neuron

Pcca	6.92E-274	0.341	0.434	0.240	1.51E-269	Granule neuron
Adcy1	8.89E-269	0.264	0.334	0.139	1.94E-264	Granule neuron
Rif1	7.78E-266	0.279	0.346	0.152	1.70E-261	Granule neuron
Rtn1	1.24E-265	0.373	0.590	0.477	2.72E-261	Granule neuron
Gm15563	5.13E-260	0.268	0.325	0.135	1.12E-255	Granule neuron
Setbp1	1.97E-259	0.272	0.358	0.163	4.31E-255	Granule neuron
Gabrb2	1.19E-257	0.374	0.531	0.385	2.60E-253	Granule neuron
Immp1l	1.04E-255	0.268	0.355	0.161	2.27E-251	Granule neuron
Rbm39	2.26E-254	0.340	0.572	0.433	4.93E-250	Granule neuron
Ube3a	3.68E-249	0.258	0.908	0.838	8.04E-245	Granule neuron
Gls	1.56E-247	0.281	0.377	0.187	3.41E-243	Granule neuron
Dip2b	5.47E-244	0.258	0.358	0.164	1.19E-239	Granule neuron
Adam22	1.55E-243	0.324	0.447	0.267	3.38E-239	Granule neuron
Prpf4b	1.86E-243	0.358	0.548	0.404	4.07E-239	Granule neuron
Map2	7.79E-243	0.301	0.435	0.244	1.70E-238	Granule neuron
Aig1	1.69E-238	0.278	0.383	0.195	3.69E-234	Granule neuron
Gabrb3	9.28E-230	0.267	0.405	0.214	2.03E-225	Granule neuron
Unc5c	1.56E-229	0.303	0.619	0.507	3.42E-225	Granule neuron
Jmjd1c	2.25E-215	0.344	0.501	0.365	4.93E-211	Granule neuron
Zcchc11	7.94E-215	0.297	0.417	0.247	1.74E-210	Granule neuron
Dst	3.27E-208	0.310	0.479	0.325	7.15E-204	Granule neuron
Ttc3	1.72E-206	0.316	0.495	0.349	3.77E-202	Granule neuron
Zfp385b	1.28E-201	0.312	0.603	0.498	2.80E-197	Granule neuron
Bicd1	6.38E-200	0.289	0.420	0.257	1.39E-195	Granule neuron
Pan3	1.33E-198	0.283	0.393	0.227	2.91E-194	Granule neuron
Akt3	4.49E-185	0.281	0.427	0.270	9.81E-181	Granule neuron
Tnrc6c	5.10E-177	0.270	0.429	0.278	1.11E-172	Granule neuron
Ctnnd2	7.17E-170	0.260	0.630	0.576	1.57E-165	Granule neuron
Ncam1	2.39E-164	0.275	0.495	0.366	5.22E-160	Granule neuron
Ppfia2	6.20E-155	0.314	0.568	0.526	1.36E-150	Granule neuron
Snrnp70	8.58E-143	0.257	0.443	0.318	1.88E-138	Granule neuron
Cntn1	2.74E-135	0.267	0.462	0.350	5.98E-131	Granule neuron
Unc80	2.45E-127	0.284	0.520	0.461	5.35E-123	Granule neuron
Macf1	1.67E-121	0.264	0.629	0.663	3.65E-117	Granule neuron
AC149090.1	1.32E-106	0.256	0.464	0.383	2.89E-102	Granule neuron
C230004F18Rik	3.40E-91	0.255	0.465	0.408	7.43E-87	Granule neuron
Prkg1	0.00E+00	2.180	1.000	0.825	0.00E+00	Purkinje neuron
Frmpd4	0.00E+00	1.754	0.999	0.712	0.00E+00	Purkinje neuron
Itpr1	0.00E+00	1.744	1.000	0.799	0.00E+00	Purkinje neuron
Grid2	0.00E+00	1.587	1.000	0.990	0.00E+00	Purkinje neuron
Cntnap5b	0.00E+00	1.561	0.984	0.163	0.00E+00	Purkinje neuron
Etl4	0.00E+00	1.487	0.837	0.111	0.00E+00	Purkinje neuron
Anks1b	0.00E+00	1.452	1.000	0.977	0.00E+00	Purkinje neuron
Kcnma1	0.00E+00	1.431	0.995	0.489	0.00E+00	Purkinje neuron

Grm7	0.00E+00	1.421	0.994	0.228	0.00E+00	Purkinje neuron
Car8	0.00E+00	1.338	0.988	0.334	0.00E+00	Purkinje neuron
Cdh18	0.00E+00	1.320	1.000	0.918	0.00E+00	Purkinje neuron
Dmd	0.00E+00	1.315	0.998	0.695	0.00E+00	Purkinje neuron
Kcnip1	0.00E+00	1.306	0.929	0.087	0.00E+00	Purkinje neuron
Shisa6	0.00E+00	1.279	0.985	0.115	0.00E+00	Purkinje neuron
Ptpm	0.00E+00	1.263	0.975	0.087	0.00E+00	Purkinje neuron
Arhgef33	0.00E+00	1.262	0.983	0.070	0.00E+00	Purkinje neuron
Garnl3	0.00E+00	1.254	0.875	0.222	0.00E+00	Purkinje neuron
Nell1	0.00E+00	1.235	0.953	0.059	0.00E+00	Purkinje neuron
Dab1	0.00E+00	1.198	0.997	0.593	0.00E+00	Purkinje neuron
Frmd4a	0.00E+00	1.189	0.991	0.313	0.00E+00	Purkinje neuron
Large1	0.00E+00	1.156	0.979	0.337	0.00E+00	Purkinje neuron
Tll5	0.00E+00	1.145	0.963	0.134	0.00E+00	Purkinje neuron
Grik1	0.00E+00	1.139	0.956	0.080	0.00E+00	Purkinje neuron
Grip1	0.00E+00	1.121	0.921	0.055	0.00E+00	Purkinje neuron
Mdga2	0.00E+00	1.097	0.969	0.287	0.00E+00	Purkinje neuron
Dpp10	0.00E+00	1.093	0.996	0.716	0.00E+00	Purkinje neuron
Sgcz	0.00E+00	1.091	0.833	0.091	0.00E+00	Purkinje neuron
Auts2	0.00E+00	1.083	1.000	0.975	0.00E+00	Purkinje neuron
Shank2	0.00E+00	1.073	0.950	0.080	0.00E+00	Purkinje neuron
Gria3	0.00E+00	1.047	0.976	0.152	0.00E+00	Purkinje neuron
Cttnbp2	0.00E+00	1.029	0.928	0.106	0.00E+00	Purkinje neuron
9530059O14Rik	0.00E+00	1.024	0.901	0.052	0.00E+00	Purkinje neuron
Unc5d	0.00E+00	1.022	0.689	0.054	0.00E+00	Purkinje neuron
Ptchd4	0.00E+00	1.011	0.973	0.300	0.00E+00	Purkinje neuron
Syndig1	0.00E+00	1.005	0.902	0.157	0.00E+00	Purkinje neuron
Lfn5	0.00E+00	0.993	0.873	0.081	0.00E+00	Purkinje neuron
Cntn3	0.00E+00	0.970	0.800	0.083	0.00E+00	Purkinje neuron
Dlg2	0.00E+00	0.960	1.000	0.942	0.00E+00	Purkinje neuron
Paxbp1	0.00E+00	0.956	0.953	0.567	0.00E+00	Purkinje neuron
Cntnap5c	0.00E+00	0.952	0.864	0.039	0.00E+00	Purkinje neuron
Gm14033	0.00E+00	0.951	0.727	0.053	0.00E+00	Purkinje neuron
Dner	0.00E+00	0.942	0.947	0.152	0.00E+00	Purkinje neuron
Kalrn	0.00E+00	0.940	0.894	0.046	0.00E+00	Purkinje neuron
Tenm2	0.00E+00	0.928	0.756	0.311	0.00E+00	Purkinje neuron
Ebf1	0.00E+00	0.926	0.986	0.470	0.00E+00	Purkinje neuron
Cacnb2	0.00E+00	0.925	0.913	0.111	0.00E+00	Purkinje neuron
Dgkh	0.00E+00	0.917	0.647	0.083	0.00E+00	Purkinje neuron
Gm35188	0.00E+00	0.911	0.943	0.450	0.00E+00	Purkinje neuron
Adgrb3	0.00E+00	0.909	1.000	0.982	0.00E+00	Purkinje neuron
Pcp2	0.00E+00	0.904	0.939	0.194	0.00E+00	Purkinje neuron
Thsd7a	0.00E+00	0.885	0.858	0.090	0.00E+00	Purkinje neuron
Elmo1	0.00E+00	0.882	0.916	0.138	0.00E+00	Purkinje neuron

Gpc6	0.00E+00	0.861	0.809	0.101	0.00E+00	Purkinje neuron
Frmd5	0.00E+00	0.859	0.957	0.295	0.00E+00	Purkinje neuron
Sox5	0.00E+00	0.849	0.882	0.094	0.00E+00	Purkinje neuron
Gpr63	0.00E+00	0.844	0.843	0.053	0.00E+00	Purkinje neuron
Khdrbs2	0.00E+00	0.844	0.857	0.087	0.00E+00	Purkinje neuron
Cdh12	0.00E+00	0.844	0.714	0.073	0.00E+00	Purkinje neuron
Mtss1	0.00E+00	0.842	0.862	0.095	0.00E+00	Purkinje neuron
Epha6	0.00E+00	0.841	0.808	0.053	0.00E+00	Purkinje neuron
Arhgap26	0.00E+00	0.836	0.947	0.275	0.00E+00	Purkinje neuron
Zfand4	0.00E+00	0.831	0.804	0.056	0.00E+00	Purkinje neuron
Kcnab1	0.00E+00	0.828	0.877	0.200	0.00E+00	Purkinje neuron
Foxp2	0.00E+00	0.827	0.824	0.062	0.00E+00	Purkinje neuron
Lrrtm4	0.00E+00	0.821	0.694	0.087	0.00E+00	Purkinje neuron
Dach1	0.00E+00	0.821	0.800	0.071	0.00E+00	Purkinje neuron
Kcnh7	0.00E+00	0.812	0.716	0.045	0.00E+00	Purkinje neuron
Trpc3	0.00E+00	0.802	0.822	0.061	0.00E+00	Purkinje neuron
Egfem1	0.00E+00	0.800	0.512	0.022	0.00E+00	Purkinje neuron
A330015K06Rik	0.00E+00	0.796	0.708	0.121	0.00E+00	Purkinje neuron
Mast4	0.00E+00	0.786	0.842	0.092	0.00E+00	Purkinje neuron
Col18a1	0.00E+00	0.786	0.771	0.046	0.00E+00	Purkinje neuron
Lingo2	0.00E+00	0.784	0.691	0.071	0.00E+00	Purkinje neuron
Sema3a	0.00E+00	0.780	0.595	0.058	0.00E+00	Purkinje neuron
9630028H03Rik	0.00E+00	0.772	0.471	0.115	0.00E+00	Purkinje neuron
Inpp5a	0.00E+00	0.765	0.848	0.106	0.00E+00	Purkinje neuron
Rbms1	0.00E+00	0.759	0.789	0.075	0.00E+00	Purkinje neuron
Rasa2	0.00E+00	0.758	0.848	0.166	0.00E+00	Purkinje neuron
Gm44040	0.00E+00	0.754	0.675	0.018	0.00E+00	Purkinje neuron
Atrnl1	0.00E+00	0.750	0.801	0.055	0.00E+00	Purkinje neuron
Stac	0.00E+00	0.740	0.713	0.025	0.00E+00	Purkinje neuron
Epha5	0.00E+00	0.736	0.540	0.103	0.00E+00	Purkinje neuron
Snhg11	0.00E+00	0.736	1.000	0.943	0.00E+00	Purkinje neuron
Gm26713	0.00E+00	0.736	0.590	0.019	0.00E+00	Purkinje neuron
Strn3	0.00E+00	0.729	0.950	0.405	0.00E+00	Purkinje neuron
Tenm3	0.00E+00	0.728	0.454	0.030	0.00E+00	Purkinje neuron
Gm42439	0.00E+00	0.726	0.817	0.236	0.00E+00	Purkinje neuron
Slc35f1	0.00E+00	0.712	0.727	0.045	0.00E+00	Purkinje neuron
Arhgap32	0.00E+00	0.711	0.764	0.053	0.00E+00	Purkinje neuron
Grm1	0.00E+00	0.706	0.995	0.772	0.00E+00	Purkinje neuron
Aff1	0.00E+00	0.705	0.668	0.041	0.00E+00	Purkinje neuron
Pde5a	0.00E+00	0.705	0.714	0.031	0.00E+00	Purkinje neuron
Washc2	0.00E+00	0.700	0.806	0.092	0.00E+00	Purkinje neuron
Dgkz	0.00E+00	0.681	0.810	0.125	0.00E+00	Purkinje neuron
Magi2	0.00E+00	0.680	1.000	0.981	0.00E+00	Purkinje neuron
Zfp385c	0.00E+00	0.675	0.716	0.033	0.00E+00	Purkinje neuron

Calb1	0.00E+00	0.670	0.818	0.131	0.00E+00	Purkinje neuron
Cntnap5a	0.00E+00	0.670	0.604	0.034	0.00E+00	Purkinje neuron
Myo10	0.00E+00	0.668	0.815	0.129	0.00E+00	Purkinje neuron
Cntn5	0.00E+00	0.667	0.498	0.061	0.00E+00	Purkinje neuron
Ebf2	0.00E+00	0.662	0.525	0.015	0.00E+00	Purkinje neuron
Tenm4	0.00E+00	0.661	0.710	0.045	0.00E+00	Purkinje neuron
Gm44071	0.00E+00	0.661	0.660	0.040	0.00E+00	Purkinje neuron
Ksr2	0.00E+00	0.661	0.843	0.188	0.00E+00	Purkinje neuron
Sos1	0.00E+00	0.660	0.743	0.116	0.00E+00	Purkinje neuron
Pcsk6	0.00E+00	0.658	0.663	0.032	0.00E+00	Purkinje neuron
Arhgap5	0.00E+00	0.650	0.869	0.265	0.00E+00	Purkinje neuron
Vav3	0.00E+00	0.648	0.672	0.045	0.00E+00	Purkinje neuron
Abr	0.00E+00	0.636	0.629	0.035	0.00E+00	Purkinje neuron
Ccdc85a	0.00E+00	0.635	0.663	0.038	0.00E+00	Purkinje neuron
Prkcg	0.00E+00	0.635	0.695	0.039	0.00E+00	Purkinje neuron
Srgap1	0.00E+00	0.634	0.694	0.051	0.00E+00	Purkinje neuron
Ppp1r16b	0.00E+00	0.634	0.694	0.050	0.00E+00	Purkinje neuron
Arhgap20	0.00E+00	0.631	0.663	0.069	0.00E+00	Purkinje neuron
Fam107b	0.00E+00	0.630	0.610	0.058	0.00E+00	Purkinje neuron
Dgkb	0.00E+00	0.630	0.606	0.122	0.00E+00	Purkinje neuron
Kitl	0.00E+00	0.626	0.644	0.105	0.00E+00	Purkinje neuron
Far2	0.00E+00	0.620	0.597	0.047	0.00E+00	Purkinje neuron
Robo2	0.00E+00	0.620	0.569	0.043	0.00E+00	Purkinje neuron
CT025619.1	0.00E+00	0.617	0.673	0.090	0.00E+00	Purkinje neuron
Hdac9	0.00E+00	0.606	0.741	0.140	0.00E+00	Purkinje neuron
Ppp4r4	0.00E+00	0.606	0.659	0.045	0.00E+00	Purkinje neuron
Grid2ip	0.00E+00	0.603	0.610	0.021	0.00E+00	Purkinje neuron
Arhgap31	0.00E+00	0.597	0.653	0.042	0.00E+00	Purkinje neuron
Erc2	0.00E+00	0.587	0.545	0.175	0.00E+00	Purkinje neuron
Cep126	0.00E+00	0.580	0.623	0.079	0.00E+00	Purkinje neuron
Arap2	0.00E+00	0.577	0.637	0.056	0.00E+00	Purkinje neuron
Slc1a6	0.00E+00	0.574	0.668	0.219	0.00E+00	Purkinje neuron
4930587E11Rik	0.00E+00	0.570	0.429	0.025	0.00E+00	Purkinje neuron
Trim9	0.00E+00	0.564	0.689	0.123	0.00E+00	Purkinje neuron
Atl2	0.00E+00	0.561	0.733	0.128	0.00E+00	Purkinje neuron
Zdhhc14	0.00E+00	0.561	0.775	0.192	0.00E+00	Purkinje neuron
Sycp1	0.00E+00	0.557	0.567	0.021	0.00E+00	Purkinje neuron
Clmn	0.00E+00	0.550	0.614	0.037	0.00E+00	Purkinje neuron
Homer3	0.00E+00	0.549	0.630	0.055	0.00E+00	Purkinje neuron
Plcb1	0.00E+00	0.548	0.589	0.243	0.00E+00	Purkinje neuron
4930567K20Rik	0.00E+00	0.547	0.637	0.158	0.00E+00	Purkinje neuron
Nup93	0.00E+00	0.544	0.594	0.041	0.00E+00	Purkinje neuron
AC163354.1	0.00E+00	0.544	0.526	0.015	0.00E+00	Purkinje neuron
Nwd2	0.00E+00	0.539	0.485	0.033	0.00E+00	Purkinje neuron

Rbms3	0.00E+00	0.537	0.609	0.045	0.00E+00	Purkinje neuron
Gm32647	0.00E+00	0.537	0.264	0.015	0.00E+00	Purkinje neuron
Dgki	0.00E+00	0.536	0.761	0.204	0.00E+00	Purkinje neuron
Sptan1	0.00E+00	0.536	0.769	0.228	0.00E+00	Purkinje neuron
Heatr5a	0.00E+00	0.534	0.594	0.052	0.00E+00	Purkinje neuron
Phactr2	0.00E+00	0.528	0.590	0.041	0.00E+00	Purkinje neuron
Lhfpl3	0.00E+00	0.527	0.613	0.098	0.00E+00	Purkinje neuron
Sox5os4	0.00E+00	0.525	0.532	0.017	0.00E+00	Purkinje neuron
Trabd2b	0.00E+00	0.525	0.499	0.022	0.00E+00	Purkinje neuron
Corin	0.00E+00	0.524	0.442	0.014	0.00E+00	Purkinje neuron
Ccdc88a	0.00E+00	0.521	0.687	0.108	0.00E+00	Purkinje neuron
Foxp4	0.00E+00	0.519	0.567	0.018	0.00E+00	Purkinje neuron
Cpeb1	0.00E+00	0.516	0.589	0.035	0.00E+00	Purkinje neuron
Cdk14	0.00E+00	0.515	0.639	0.075	0.00E+00	Purkinje neuron
Rgs8	0.00E+00	0.513	0.545	0.048	0.00E+00	Purkinje neuron
Atp2a3	0.00E+00	0.509	0.567	0.033	0.00E+00	Purkinje neuron
Plekhd1	0.00E+00	0.508	0.565	0.021	0.00E+00	Purkinje neuron
Inpp4a	0.00E+00	0.507	0.651	0.110	0.00E+00	Purkinje neuron
Slc9a3	0.00E+00	0.506	0.557	0.027	0.00E+00	Purkinje neuron
Rreb1	0.00E+00	0.503	0.584	0.042	0.00E+00	Purkinje neuron
Nrk	0.00E+00	0.498	0.521	0.041	0.00E+00	Purkinje neuron
Ryr1	0.00E+00	0.496	0.540	0.015	0.00E+00	Purkinje neuron
Muc3a	0.00E+00	0.489	0.506	0.037	0.00E+00	Purkinje neuron
Bcl11a	0.00E+00	0.488	0.507	0.015	0.00E+00	Purkinje neuron
Akap6	0.00E+00	0.483	0.805	0.290	0.00E+00	Purkinje neuron
Sntg1	0.00E+00	0.481	0.457	0.071	0.00E+00	Purkinje neuron
Agbl4	0.00E+00	0.478	0.529	0.055	0.00E+00	Purkinje neuron
Pde9a	0.00E+00	0.477	0.520	0.038	0.00E+00	Purkinje neuron
Dscam	0.00E+00	0.476	0.590	0.080	0.00E+00	Purkinje neuron
Immp2l	0.00E+00	0.475	0.679	0.161	0.00E+00	Purkinje neuron
Lrch1	0.00E+00	0.469	0.578	0.091	0.00E+00	Purkinje neuron
Gm15336	0.00E+00	0.469	0.502	0.040	0.00E+00	Purkinje neuron
Cacna2d2	0.00E+00	0.464	0.620	0.113	0.00E+00	Purkinje neuron
Ppp1r17	0.00E+00	0.464	0.536	0.043	0.00E+00	Purkinje neuron
Eml6	0.00E+00	0.464	0.779	0.278	0.00E+00	Purkinje neuron
Svil	0.00E+00	0.463	0.506	0.026	0.00E+00	Purkinje neuron
Sept11	0.00E+00	0.463	0.629	0.112	0.00E+00	Purkinje neuron
Hpcal1	0.00E+00	0.462	0.539	0.053	0.00E+00	Purkinje neuron
Spock3	0.00E+00	0.460	0.624	0.110	0.00E+00	Purkinje neuron
Lrrfip1	0.00E+00	0.458	0.557	0.055	0.00E+00	Purkinje neuron
Frmfd3	0.00E+00	0.457	0.409	0.016	0.00E+00	Purkinje neuron
Efr3a	0.00E+00	0.455	0.526	0.097	0.00E+00	Purkinje neuron
Celf2	0.00E+00	0.455	0.993	0.792	0.00E+00	Purkinje neuron
Adam23	0.00E+00	0.454	0.767	0.242	0.00E+00	Purkinje neuron

Cpne8	0.00E+00	0.453	0.472	0.020	0.00E+00	Purkinje neuron
Ptprr	0.00E+00	0.450	0.845	0.323	0.00E+00	Purkinje neuron
Gm20635	0.00E+00	0.450	0.483	0.019	0.00E+00	Purkinje neuron
Plxdc2	0.00E+00	0.449	0.663	0.157	0.00E+00	Purkinje neuron
Exoc6b	0.00E+00	0.449	0.707	0.213	0.00E+00	Purkinje neuron
Cep76	0.00E+00	0.447	0.498	0.026	0.00E+00	Purkinje neuron
Gria1	0.00E+00	0.447	0.601	0.060	0.00E+00	Purkinje neuron
Efna5	0.00E+00	0.445	0.426	0.033	0.00E+00	Purkinje neuron
Psd2	0.00E+00	0.445	0.515	0.028	0.00E+00	Purkinje neuron
Edil3	0.00E+00	0.445	0.591	0.080	0.00E+00	Purkinje neuron
Dgkg	0.00E+00	0.444	0.691	0.192	0.00E+00	Purkinje neuron
Grik4	0.00E+00	0.440	0.492	0.025	0.00E+00	Purkinje neuron
Mir9-3hg	0.00E+00	0.439	0.571	0.085	0.00E+00	Purkinje neuron
Gm48747	0.00E+00	0.438	0.514	0.097	0.00E+00	Purkinje neuron
Prkd1	0.00E+00	0.434	0.486	0.032	0.00E+00	Purkinje neuron
Ccdc50	0.00E+00	0.434	0.595	0.116	0.00E+00	Purkinje neuron
Prmt8	0.00E+00	0.430	0.486	0.035	0.00E+00	Purkinje neuron
Hipk2	0.00E+00	0.428	0.622	0.132	0.00E+00	Purkinje neuron
Sptbn2	0.00E+00	0.427	0.558	0.077	0.00E+00	Purkinje neuron
Mei4	0.00E+00	0.425	0.425	0.027	0.00E+00	Purkinje neuron
Gm32036	0.00E+00	0.425	0.445	0.016	0.00E+00	Purkinje neuron
Meg3	0.00E+00	0.422	0.999	0.941	0.00E+00	Purkinje neuron
C78859	0.00E+00	0.421	0.487	0.039	0.00E+00	Purkinje neuron
Park2	0.00E+00	0.419	0.719	0.213	0.00E+00	Purkinje neuron
Casq2	0.00E+00	0.418	0.474	0.031	0.00E+00	Purkinje neuron
Ano6	0.00E+00	0.417	0.483	0.032	0.00E+00	Purkinje neuron
Mprip	0.00E+00	0.416	0.651	0.186	0.00E+00	Purkinje neuron
Dlgap4	0.00E+00	0.416	0.513	0.063	0.00E+00	Purkinje neuron
Shank1	0.00E+00	0.413	0.517	0.064	0.00E+00	Purkinje neuron
Adamts3	0.00E+00	0.412	0.433	0.018	0.00E+00	Purkinje neuron
Aatf	0.00E+00	0.410	0.520	0.086	0.00E+00	Purkinje neuron
Gm30524	0.00E+00	0.407	0.410	0.019	0.00E+00	Purkinje neuron
Wdr17	0.00E+00	0.406	0.547	0.079	0.00E+00	Purkinje neuron
Nell1os	0.00E+00	0.405	0.424	0.028	0.00E+00	Purkinje neuron
Nol4	0.00E+00	0.404	0.657	0.202	0.00E+00	Purkinje neuron
Strip2	0.00E+00	0.404	0.466	0.047	0.00E+00	Purkinje neuron
Gria2	0.00E+00	0.400	0.998	0.909	0.00E+00	Purkinje neuron
Fstl4	0.00E+00	0.398	0.417	0.079	0.00E+00	Purkinje neuron
Stim1	0.00E+00	0.396	0.555	0.131	0.00E+00	Purkinje neuron
1700111E14Rik	0.00E+00	0.393	0.455	0.066	0.00E+00	Purkinje neuron
Sybu	0.00E+00	0.392	0.747	0.280	0.00E+00	Purkinje neuron
MacroD2	0.00E+00	0.391	0.983	0.739	0.00E+00	Purkinje neuron
Chn1	0.00E+00	0.391	0.440	0.034	0.00E+00	Purkinje neuron
Fam13b	0.00E+00	0.382	0.560	0.156	0.00E+00	Purkinje neuron

Prkca	0.00E+00	0.381	0.457	0.099	0.00E+00	Purkinje neuron
Rgs7bp	0.00E+00	0.379	0.601	0.170	0.00E+00	Purkinje neuron
Sestd1	0.00E+00	0.378	0.506	0.081	0.00E+00	Purkinje neuron
Flt3	0.00E+00	0.377	0.448	0.037	0.00E+00	Purkinje neuron
Fam155a	0.00E+00	0.375	0.985	0.717	0.00E+00	Purkinje neuron
Cacna1g	0.00E+00	0.374	0.483	0.059	0.00E+00	Purkinje neuron
Clic6	0.00E+00	0.366	0.367	0.014	0.00E+00	Purkinje neuron
Rhobtb2	0.00E+00	0.365	0.404	0.034	0.00E+00	Purkinje neuron
Csad	0.00E+00	0.363	0.437	0.055	0.00E+00	Purkinje neuron
Tanc2	0.00E+00	0.363	0.537	0.121	0.00E+00	Purkinje neuron
Gm27032	0.00E+00	0.362	0.674	0.250	0.00E+00	Purkinje neuron
Adgrl2	0.00E+00	0.358	0.409	0.042	0.00E+00	Purkinje neuron
Trio	0.00E+00	0.357	0.680	0.227	0.00E+00	Purkinje neuron
Clstn2	0.00E+00	0.356	0.461	0.157	0.00E+00	Purkinje neuron
Ntm	0.00E+00	0.351	0.998	0.961	0.00E+00	Purkinje neuron
Arntl	0.00E+00	0.350	0.480	0.089	0.00E+00	Purkinje neuron
Tacc1	0.00E+00	0.348	0.487	0.121	0.00E+00	Purkinje neuron
Baiap2	0.00E+00	0.348	0.476	0.082	0.00E+00	Purkinje neuron
Klhl1	0.00E+00	0.346	0.341	0.017	0.00E+00	Purkinje neuron
Gm40841	0.00E+00	0.345	0.445	0.066	0.00E+00	Purkinje neuron
Fam184b	0.00E+00	0.345	0.432	0.051	0.00E+00	Purkinje neuron
4930567K12Rik	0.00E+00	0.343	0.367	0.018	0.00E+00	Purkinje neuron
Dagla	0.00E+00	0.342	0.420	0.039	0.00E+00	Purkinje neuron
Slc23a2	0.00E+00	0.339	0.482	0.109	0.00E+00	Purkinje neuron
Ccdc148	0.00E+00	0.339	0.375	0.026	0.00E+00	Purkinje neuron
Il1rap	0.00E+00	0.338	0.413	0.042	0.00E+00	Purkinje neuron
Itifb	0.00E+00	0.337	0.430	0.070	0.00E+00	Purkinje neuron
Ano4	0.00E+00	0.337	0.429	0.053	0.00E+00	Purkinje neuron
Btbd10	0.00E+00	0.335	0.526	0.133	0.00E+00	Purkinje neuron
Pbx3	0.00E+00	0.335	0.391	0.120	0.00E+00	Purkinje neuron
Gm47710	0.00E+00	0.334	0.387	0.080	0.00E+00	Purkinje neuron
Spire1	0.00E+00	0.332	0.595	0.188	0.00E+00	Purkinje neuron
Hcn1	0.00E+00	0.332	0.822	0.293	0.00E+00	Purkinje neuron
Gabbr2	0.00E+00	0.332	0.650	0.264	0.00E+00	Purkinje neuron
Lin28b	0.00E+00	0.330	0.396	0.057	0.00E+00	Purkinje neuron
Vwa8	0.00E+00	0.329	0.493	0.163	0.00E+00	Purkinje neuron
Cerk	0.00E+00	0.326	0.441	0.087	0.00E+00	Purkinje neuron
1700016K05Rik	0.00E+00	0.326	0.329	0.008	0.00E+00	Purkinje neuron
Sh3d19	0.00E+00	0.326	0.462	0.093	0.00E+00	Purkinje neuron
Zfp462	0.00E+00	0.325	0.417	0.061	0.00E+00	Purkinje neuron
Tm6sf1	0.00E+00	0.325	0.428	0.065	0.00E+00	Purkinje neuron
Cyth3	0.00E+00	0.323	0.366	0.029	0.00E+00	Purkinje neuron
Camk2a	0.00E+00	0.322	0.356	0.008	0.00E+00	Purkinje neuron
Zswim5	0.00E+00	0.316	0.404	0.067	0.00E+00	Purkinje neuron

Srgap2	0.00E+00	0.315	0.796	0.351	0.00E+00	Purkinje neuron
Ptpn13	0.00E+00	0.315	0.352	0.018	0.00E+00	Purkinje neuron
Cadps	0.00E+00	0.314	0.750	0.323	0.00E+00	Purkinje neuron
Gm30313	0.00E+00	0.314	0.349	0.009	0.00E+00	Purkinje neuron
Atp2b2	0.00E+00	0.313	0.878	0.449	0.00E+00	Purkinje neuron
Ripor2	0.00E+00	0.312	0.325	0.013	0.00E+00	Purkinje neuron
Gm14372	0.00E+00	0.311	0.353	0.017	0.00E+00	Purkinje neuron
Dync1i1	0.00E+00	0.310	0.693	0.298	0.00E+00	Purkinje neuron
Dnah6	0.00E+00	0.310	0.335	0.009	0.00E+00	Purkinje neuron
Hes3	0.00E+00	0.310	0.354	0.022	0.00E+00	Purkinje neuron
Ablim2	0.00E+00	0.309	0.383	0.049	0.00E+00	Purkinje neuron
Gm45881	0.00E+00	0.309	0.378	0.042	0.00E+00	Purkinje neuron
Kctd1	0.00E+00	0.308	0.382	0.051	0.00E+00	Purkinje neuron
Nr6a1	0.00E+00	0.308	0.433	0.090	0.00E+00	Purkinje neuron
Zzef1	0.00E+00	0.307	0.488	0.136	0.00E+00	Purkinje neuron
Stk17b	0.00E+00	0.305	0.333	0.015	0.00E+00	Purkinje neuron
Eml1	0.00E+00	0.303	0.475	0.107	0.00E+00	Purkinje neuron
Ralgapa2	0.00E+00	0.303	0.482	0.121	0.00E+00	Purkinje neuron
Gm48512	0.00E+00	0.303	0.389	0.070	0.00E+00	Purkinje neuron
Zbtb46	0.00E+00	0.303	0.461	0.109	0.00E+00	Purkinje neuron
Slc4a10	0.00E+00	0.303	0.705	0.279	0.00E+00	Purkinje neuron
Ccar1	0.00E+00	0.302	0.537	0.188	0.00E+00	Purkinje neuron
Wnk2	0.00E+00	0.302	0.513	0.145	0.00E+00	Purkinje neuron
Gm48166	0.00E+00	0.300	0.361	0.112	0.00E+00	Purkinje neuron
Ap2b1	0.00E+00	0.300	0.486	0.129	0.00E+00	Purkinje neuron
Ptk2	0.00E+00	0.300	0.554	0.169	0.00E+00	Purkinje neuron
Man1a	0.00E+00	0.300	0.340	0.028	0.00E+00	Purkinje neuron
B3galnt2	0.00E+00	0.299	0.394	0.061	0.00E+00	Purkinje neuron
Atp2c1	0.00E+00	0.298	0.592	0.208	0.00E+00	Purkinje neuron
Galnt10	0.00E+00	0.297	0.340	0.022	0.00E+00	Purkinje neuron
Gm11099	0.00E+00	0.297	0.306	0.012	0.00E+00	Purkinje neuron
Myh10	0.00E+00	0.296	0.426	0.091	0.00E+00	Purkinje neuron
Gm27226	0.00E+00	0.296	0.320	0.004	0.00E+00	Purkinje neuron
Kcnd3	0.00E+00	0.295	0.517	0.162	0.00E+00	Purkinje neuron
Slc6a6	0.00E+00	0.295	0.396	0.070	0.00E+00	Purkinje neuron
Dlc1	0.00E+00	0.293	0.283	0.084	0.00E+00	Purkinje neuron
Nlk	0.00E+00	0.292	0.477	0.135	0.00E+00	Purkinje neuron
Capn15	0.00E+00	0.292	0.486	0.145	0.00E+00	Purkinje neuron
Birc2	0.00E+00	0.291	0.447	0.123	0.00E+00	Purkinje neuron
Rps6ka5	0.00E+00	0.290	0.460	0.152	0.00E+00	Purkinje neuron
Bcar1	0.00E+00	0.290	0.346	0.034	0.00E+00	Purkinje neuron
Gm20647	0.00E+00	0.289	0.262	0.005	0.00E+00	Purkinje neuron
Ubash3b	0.00E+00	0.289	0.448	0.139	0.00E+00	Purkinje neuron
Acyp2	0.00E+00	0.289	0.416	0.135	0.00E+00	Purkinje neuron

Plxdc1	0.00E+00	0.289	0.338	0.024	0.00E+00	Purkinje neuron
Susd4	0.00E+00	0.289	0.369	0.048	0.00E+00	Purkinje neuron
Mfhas1	0.00E+00	0.287	0.389	0.073	0.00E+00	Purkinje neuron
Fras1	0.00E+00	0.286	0.313	0.007	0.00E+00	Purkinje neuron
Akain1	0.00E+00	0.285	0.336	0.027	0.00E+00	Purkinje neuron
Gm15046	0.00E+00	0.285	0.294	0.008	0.00E+00	Purkinje neuron
Itpka	0.00E+00	0.284	0.325	0.022	0.00E+00	Purkinje neuron
Phtf2	0.00E+00	0.283	0.384	0.073	0.00E+00	Purkinje neuron
Rictor	0.00E+00	0.279	0.420	0.104	0.00E+00	Purkinje neuron
Syt7	0.00E+00	0.277	0.488	0.148	0.00E+00	Purkinje neuron
Ppargc1a	0.00E+00	0.276	0.349	0.057	0.00E+00	Purkinje neuron
Gnaq	0.00E+00	0.276	0.558	0.219	0.00E+00	Purkinje neuron
Doc2b	0.00E+00	0.276	0.315	0.023	0.00E+00	Purkinje neuron
Gm30382	0.00E+00	0.274	0.252	0.009	0.00E+00	Purkinje neuron
Fcor	0.00E+00	0.274	0.317	0.024	0.00E+00	Purkinje neuron
Hunk	0.00E+00	0.274	0.337	0.035	0.00E+00	Purkinje neuron
Flnb	0.00E+00	0.274	0.377	0.075	0.00E+00	Purkinje neuron
Pcdh17	0.00E+00	0.273	0.316	0.033	0.00E+00	Purkinje neuron
5730522E02Rik	0.00E+00	0.273	0.321	0.034	0.00E+00	Purkinje neuron
Fam117a	0.00E+00	0.272	0.266	0.009	0.00E+00	Purkinje neuron
Gm26531	0.00E+00	0.272	0.296	0.012	0.00E+00	Purkinje neuron
Pou2f1	0.00E+00	0.271	0.472	0.157	0.00E+00	Purkinje neuron
A230006K03Rik	0.00E+00	0.270	0.273	0.015	0.00E+00	Purkinje neuron
Astn1	0.00E+00	0.268	0.411	0.100	0.00E+00	Purkinje neuron
Gm17171	0.00E+00	0.268	0.275	0.009	0.00E+00	Purkinje neuron
Pde7b	0.00E+00	0.267	0.321	0.028	0.00E+00	Purkinje neuron
Wls	0.00E+00	0.266	0.330	0.040	0.00E+00	Purkinje neuron
Abhd3	0.00E+00	0.266	0.349	0.077	0.00E+00	Purkinje neuron
Chst8	0.00E+00	0.264	0.281	0.021	0.00E+00	Purkinje neuron
Clec16a	0.00E+00	0.263	0.346	0.057	0.00E+00	Purkinje neuron
Htr1b	0.00E+00	0.262	0.302	0.015	0.00E+00	Purkinje neuron
Gfod1	0.00E+00	0.262	0.356	0.079	0.00E+00	Purkinje neuron
Fam189a1	0.00E+00	0.261	0.322	0.038	0.00E+00	Purkinje neuron
Cpne9	0.00E+00	0.260	0.277	0.026	0.00E+00	Purkinje neuron
Gm4221	0.00E+00	0.260	0.298	0.029	0.00E+00	Purkinje neuron
Eil2	0.00E+00	0.260	0.288	0.013	0.00E+00	Purkinje neuron
Slc20a1	0.00E+00	0.260	0.374	0.077	0.00E+00	Purkinje neuron
Gad1	0.00E+00	0.260	0.325	0.037	0.00E+00	Purkinje neuron
Kank1	0.00E+00	0.260	0.309	0.023	0.00E+00	Purkinje neuron
Apbb2	0.00E+00	0.259	0.571	0.222	0.00E+00	Purkinje neuron
Lpgat1	0.00E+00	0.259	0.407	0.121	0.00E+00	Purkinje neuron
Rabep1	0.00E+00	0.259	0.464	0.149	0.00E+00	Purkinje neuron
Lancl1	0.00E+00	0.258	0.335	0.055	0.00E+00	Purkinje neuron
Lhx1	0.00E+00	0.257	0.368	0.084	0.00E+00	Purkinje neuron

Tmem132d	0.00E+00	0.257	0.265	0.011	0.00E+00	Purkinje neuron
Mef2c	0.00E+00	0.257	0.410	0.099	0.00E+00	Purkinje neuron
Nexn	0.00E+00	0.256	0.305	0.028	0.00E+00	Purkinje neuron
Ank1	0.00E+00	0.256	0.576	0.226	0.00E+00	Purkinje neuron
Gtf2ird1	0.00E+00	0.255	0.333	0.050	0.00E+00	Purkinje neuron
Pbx1	0.00E+00	0.255	0.575	0.239	0.00E+00	Purkinje neuron
Rap1gap2	0.00E+00	0.255	0.357	0.070	0.00E+00	Purkinje neuron
Arhgap20os	0.00E+00	0.253	0.284	0.018	0.00E+00	Purkinje neuron
B3glct	0.00E+00	0.253	0.293	0.021	0.00E+00	Purkinje neuron
Gm13629	0.00E+00	0.252	0.332	0.057	0.00E+00	Purkinje neuron
Rtel1	0.00E+00	0.252	0.301	0.032	0.00E+00	Purkinje neuron
Cpeb4	0.00E+00	0.252	0.491	0.187	0.00E+00	Purkinje neuron
Elmod1	0.00E+00	0.252	0.500	0.164	0.00E+00	Purkinje neuron
Prickle1	0.00E+00	0.252	0.368	0.072	0.00E+00	Purkinje neuron
Dok6	0.00E+00	0.251	0.328	0.050	0.00E+00	Purkinje neuron
Adarb2	0.00E+00	1.748	0.749	0.025	0.00E+00	Interneuron
Inpp4b1	0.00E+00	1.416	0.955	0.209	0.00E+00	Interneuron
Csmd1	0.00E+00	1.378	0.892	0.180	0.00E+00	Interneuron
Cacna2d3	0.00E+00	1.205	0.844	0.162	0.00E+00	Interneuron
Sgcd	0.00E+00	1.170	0.596	0.022	0.00E+00	Interneuron
Slc24a3	0.00E+00	1.130	0.738	0.023	0.00E+00	Interneuron
Nxph1	0.00E+00	1.084	0.348	0.035	0.00E+00	Interneuron
Ptprz1	0.00E+00	1.081	0.768	0.030	0.00E+00	Interneuron
Esrrg	0.00E+00	1.048	0.842	0.134	0.00E+00	Interneuron
Cacna1d	0.00E+00	1.044	0.889	0.337	0.00E+00	Interneuron
Sorcs3	0.00E+00	0.975	0.576	0.010	0.00E+00	Interneuron
Slc24a2	0.00E+00	0.959	0.852	0.233	0.00E+00	Interneuron
Grm8	0.00E+00	0.883	0.387	0.011	0.00E+00	Interneuron
Rtl4	0.00E+00	0.877	0.621	0.016	0.00E+00	Interneuron
Luzp2	0.00E+00	0.861	0.583	0.064	0.00E+00	Interneuron
Myt1l	0.00E+00	0.843	0.785	0.179	0.00E+00	Interneuron
Grid1	0.00E+00	0.833	0.568	0.017	0.00E+00	Interneuron
Kit	0.00E+00	0.803	0.663	0.004	0.00E+00	Interneuron
Ptprk	0.00E+00	0.793	0.543	0.026	0.00E+00	Interneuron
Myo16	0.00E+00	0.747	0.644	0.065	0.00E+00	Interneuron
Tnr	0.00E+00	0.737	0.599	0.075	0.00E+00	Interneuron
March11	0.00E+00	0.681	0.534	0.051	0.00E+00	Interneuron
Slc6a1	0.00E+00	0.639	0.585	0.039	0.00E+00	Interneuron
Grin2b	0.00E+00	0.593	0.459	0.022	0.00E+00	Interneuron
Nkain2	0.00E+00	0.587	0.691	0.139	0.00E+00	Interneuron
Lrrc7	0.00E+00	0.572	0.496	0.018	0.00E+00	Interneuron
Rmst	0.00E+00	0.554	0.413	0.008	0.00E+00	Interneuron
Cyld	0.00E+00	0.544	0.552	0.088	0.00E+00	Interneuron
Clmp	0.00E+00	0.486	0.421	0.051	0.00E+00	Interneuron

Btbd11	0.00E+00	0.481	0.459	0.013	0.00E+00	Interneuron
Grik3	0.00E+00	0.455	0.421	0.004	0.00E+00	Interneuron
Pam	0.00E+00	0.452	0.412	0.018	0.00E+00	Interneuron
Galnt18	0.00E+00	0.452	0.324	0.011	0.00E+00	Interneuron
Trpc5	0.00E+00	0.452	0.398	0.012	0.00E+00	Interneuron
Chst9	0.00E+00	0.450	0.314	0.005	0.00E+00	Interneuron
Frmd3	0.00E+00	0.449	0.381	0.039	0.00E+00	Interneuron
Nos1ap	0.00E+00	0.442	0.387	0.022	0.00E+00	Interneuron
Socs2	0.00E+00	0.439	0.376	0.012	0.00E+00	Interneuron
Ntn1	0.00E+00	0.435	0.371	0.003	0.00E+00	Interneuron
Tfap2b	0.00E+00	0.433	0.360	0.000	0.00E+00	Interneuron
Cabp1	0.00E+00	0.416	0.387	0.023	0.00E+00	Interneuron
Parm1	0.00E+00	0.409	0.339	0.004	0.00E+00	Interneuron
Grin3a	0.00E+00	0.397	0.275	0.011	0.00E+00	Interneuron
Gldc	0.00E+00	0.322	0.270	0.004	0.00E+00	Interneuron
Thrb	0.00E+00	0.312	0.271	0.013	0.00E+00	Interneuron
Lrtm1	0.00E+00	0.310	0.275	0.013	0.00E+00	Interneuron
Adamts16	0.00E+00	0.307	0.296	0.002	0.00E+00	Interneuron
Phf24	0.00E+00	0.295	0.295	0.014	0.00E+00	Interneuron
Ly6h	0.00E+00	0.294	0.273	0.018	0.00E+00	Interneuron
Adgrb1	0.00E+00	0.290	0.287	0.013	0.00E+00	Interneuron
Megf10	0.00E+00	0.285	0.254	0.015	0.00E+00	Interneuron
Dscaml1	1.13E-306	0.387	0.415	0.052	2.47E-302	Interneuron
Tbc1d4	1.14E-306	0.499	0.501	0.079	2.48E-302	Interneuron
Kcna2	3.99E-304	0.498	0.529	0.089	8.72E-300	Interneuron
Nlgn1	5.97E-303	1.186	0.975	0.500	1.31E-298	Interneuron
Gm11417	1.54E-286	0.348	0.303	0.029	3.37E-282	Interneuron
Adgrl3	1.16E-284	1.350	0.783	0.267	2.54E-280	Interneuron
Eml5	1.35E-281	0.994	0.866	0.341	2.94E-277	Interneuron
Unc5c1	1.27E-279	1.165	0.959	0.546	2.77E-275	Interneuron
Mgat4c	9.03E-279	0.822	0.470	0.076	1.97E-274	Interneuron
Fgf13	7.62E-276	0.610	0.516	0.092	1.66E-271	Interneuron
Rora	1.23E-270	1.694	0.961	0.777	2.69E-266	Interneuron
Cntn4	1.33E-270	1.210	0.867	0.378	2.90E-266	Interneuron
Hcn11	4.92E-266	1.051	0.941	0.519	1.08E-261	Interneuron
Magi1	7.21E-265	0.570	0.638	0.147	1.58E-260	Interneuron
Nrxn31	1.03E-252	0.931	0.994	0.983	2.25E-248	Interneuron
Lsamp1	7.07E-237	1.043	0.994	0.807	1.54E-232	Interneuron
Mpp7	2.30E-229	0.469	0.473	0.090	5.04E-225	Interneuron
Gria41	3.14E-223	0.944	0.933	0.435	6.85E-219	Interneuron
Pid1	9.75E-222	0.370	0.367	0.056	2.13E-217	Interneuron
Gm26688	1.54E-218	0.254	0.267	0.029	3.37E-214	Interneuron
Apba2	1.15E-214	0.436	0.474	0.096	2.52E-210	Interneuron
Asic2	1.31E-212	0.880	0.649	0.201	2.85E-208	Interneuron

Elavl4	5.14E-203	0.309	0.335	0.050	1.12E-198	Interneuron
Serpini1	2.69E-194	0.367	0.368	0.063	5.88E-190	Interneuron
Rasgrf1	3.47E-194	0.402	0.456	0.094	7.57E-190	Interneuron
Kirrel31	3.25E-192	1.029	0.914	0.478	7.11E-188	Interneuron
Ube3a1	1.58E-191	0.739	0.986	0.867	3.46E-187	Interneuron
Galnt17	2.85E-191	0.523	0.601	0.170	6.23E-187	Interneuron
4930517O19Rik	2.12E-189	0.314	0.324	0.050	4.63E-185	Interneuron
Dnah11	3.51E-187	0.262	0.257	0.032	7.67E-183	Interneuron
Iqsec1	4.45E-184	0.405	0.387	0.074	9.74E-180	Interneuron
Klf12	3.13E-179	0.473	0.516	0.134	6.83E-175	Interneuron
Sntg11	8.82E-176	0.601	0.693	0.231	1.93E-171	Interneuron
Meg31	3.80E-174	0.647	1.000	0.966	8.32E-170	Interneuron
Atp2b1	2.48E-169	0.484	0.644	0.207	5.42E-165	Interneuron
Sorbs2os	1.70E-168	0.397	0.429	0.096	3.71E-164	Interneuron
Sorbs2	2.47E-165	0.459	0.541	0.154	5.40E-161	Interneuron
Ntrk2	1.69E-161	0.415	0.510	0.134	3.69E-157	Interneuron
Prkcb1	1.32E-158	0.463	0.596	0.185	2.88E-154	Interneuron
Efr3b	3.49E-155	0.295	0.332	0.062	7.64E-151	Interneuron
Xkr4	4.04E-155	0.721	0.802	0.399	8.84E-151	Interneuron
Syn21	1.02E-149	0.540	0.674	0.251	2.23E-145	Interneuron
Slc32a1	5.93E-149	0.267	0.304	0.055	1.30E-144	Interneuron
Neb1	9.38E-149	0.314	0.351	0.070	2.05E-144	Interneuron
Cnr11	4.24E-148	0.409	0.504	0.140	9.26E-144	Interneuron
Zfpm21	9.15E-148	0.732	0.832	0.426	2.00E-143	Interneuron
Tcf41	5.15E-143	0.557	0.828	0.363	1.13E-138	Interneuron
Plxna4	6.32E-139	0.547	0.577	0.204	1.38E-134	Interneuron
Dock7	1.21E-138	0.437	0.513	0.159	2.64E-134	Interneuron
Ahi11	1.85E-135	0.602	0.810	0.390	4.04E-131	Interneuron
Pkp4	2.38E-135	0.499	0.669	0.276	5.19E-131	Interneuron
Dcc	1.58E-134	0.404	0.303	0.058	3.45E-130	Interneuron
Tmtc2	2.08E-132	0.565	0.760	0.354	4.55E-128	Interneuron
Ccser11	1.16E-130	0.616	0.900	0.554	2.54E-126	Interneuron
Atp1b1	6.44E-130	0.528	0.775	0.371	1.41E-125	Interneuron
Dscam1	1.23E-125	0.509	0.697	0.299	2.68E-121	Interneuron
Tmem117	3.20E-120	0.337	0.382	0.100	7.00E-116	Interneuron
Mycbp21	4.19E-120	0.517	0.875	0.494	9.15E-116	Interneuron
Hecw1	1.09E-119	0.488	0.598	0.241	2.37E-115	Interneuron
Neo1	2.16E-119	0.314	0.417	0.114	4.72E-115	Interneuron
Gria31	1.07E-118	0.641	0.878	0.514	2.34E-114	Interneuron
Cdk11	6.18E-118	0.253	0.300	0.064	1.35E-113	Interneuron
Ptprg	2.34E-114	0.325	0.349	0.087	5.11E-110	Interneuron
Stard5	4.71E-114	0.323	0.420	0.120	1.03E-109	Interneuron
Dlgap11	9.51E-114	0.587	0.949	0.647	2.08E-109	Interneuron
Rph3a	4.01E-112	0.259	0.276	0.058	8.76E-108	Interneuron

Atp1a3	3.97E-110	0.447	0.655	0.289	8.69E-106	Interneuron
C1qtnf4	1.86E-109	0.418	0.571	0.223	4.06E-105	Interneuron
Erc21	2.05E-107	0.429	0.724	0.330	4.48E-103	Interneuron
Sgk1	9.26E-107	0.339	0.407	0.121	2.02E-102	Interneuron
4933413L06Rik	1.39E-105	0.436	0.509	0.188	3.04E-101	Interneuron
Nav1	2.24E-105	0.318	0.459	0.150	4.90E-101	Interneuron
Fat3	1.07E-104	0.328	0.407	0.122	2.33E-100	Interneuron
Srrm41	1.28E-104	0.339	0.507	0.173	2.79E-100	Interneuron
Clstn1	8.25E-103	0.280	0.343	0.090	1.80E-98	Interneuron
Zfp5211	4.88E-100	0.363	0.524	0.189	1.07E-95	Interneuron
Tjp1	7.09E-100	0.355	0.565	0.225	1.55E-95	Interneuron
Cnpy11	3.03E-98	0.350	0.515	0.186	6.63E-94	Interneuron
Kcnq3	1.09E-97	0.271	0.303	0.074	2.39E-93	Interneuron
Npas3	1.03E-95	0.338	0.474	0.163	2.24E-91	Interneuron
P2ry14	1.06E-95	0.450	0.672	0.328	2.32E-91	Interneuron
Bcan	1.93E-95	0.253	0.292	0.072	4.22E-91	Interneuron
Strbp1	1.95E-94	0.459	0.866	0.523	4.25E-90	Interneuron
Plcb11	1.48E-93	0.473	0.769	0.388	3.23E-89	Interneuron
Enah	1.28E-92	0.277	0.370	0.110	2.80E-88	Interneuron
Ptprn2	4.24E-90	0.332	0.463	0.166	9.26E-86	Interneuron
Cit	2.92E-89	0.266	0.287	0.073	6.38E-85	Interneuron
Glce	6.35E-89	0.255	0.335	0.096	1.39E-84	Interneuron
Lrrc4c1	5.05E-87	0.667	0.885	0.544	1.10E-82	Interneuron
Gm136291	2.03E-85	0.334	0.463	0.173	4.44E-81	Interneuron
Mgat5	1.28E-84	0.324	0.431	0.157	2.80E-80	Interneuron
Spock31	3.14E-84	0.442	0.665	0.332	6.87E-80	Interneuron
Csrnp3	1.09E-83	0.254	0.340	0.103	2.38E-79	Interneuron
Ttc31	1.98E-82	0.393	0.752	0.406	4.32E-78	Interneuron
Slc16a111	2.02E-82	0.271	0.392	0.129	4.42E-78	Interneuron
Gabrg2	1.48E-80	0.364	0.532	0.231	3.22E-76	Interneuron
Enox1	7.50E-80	0.327	0.507	0.210	1.64E-75	Interneuron
Pcsk1n	1.66E-79	0.313	0.482	0.188	3.62E-75	Interneuron
Rtn31	2.32E-78	0.311	0.456	0.172	5.07E-74	Interneuron
Mdga21	7.70E-75	0.506	0.931	0.585	1.68E-70	Interneuron
Rab3c	9.59E-75	0.311	0.463	0.184	2.10E-70	Interneuron
C130071C03Rik	5.48E-74	0.302	0.495	0.206	1.20E-69	Interneuron
Tiam1	1.26E-71	0.265	0.360	0.122	2.76E-67	Interneuron
Csmd31	5.39E-70	0.579	0.563	0.266	1.18E-65	Interneuron
Slc12a5	5.47E-70	0.313	0.541	0.248	1.19E-65	Interneuron
Osbp1a	1.26E-69	0.266	0.417	0.162	2.75E-65	Interneuron
Atp8a1	1.17E-66	0.263	0.406	0.154	2.56E-62	Interneuron
Kcnn2	4.13E-66	0.276	0.388	0.147	9.02E-62	Interneuron
Scn9a	7.25E-65	0.309	0.381	0.147	1.58E-60	Interneuron
Spock1	1.66E-64	0.379	0.459	0.206	3.64E-60	Interneuron

Foxn31	3.08E-64	0.302	0.624	0.307	6.74E-60	Interneuron
Klhdc10	1.95E-63	0.309	0.571	0.283	4.26E-59	Interneuron
Frmd4a1	7.95E-63	0.401	0.920	0.611	1.74E-58	Interneuron
Prpf4b1	1.72E-62	0.352	0.760	0.462	3.77E-58	Interneuron
Elmod11	2.86E-62	0.342	0.583	0.308	6.25E-58	Interneuron
Snhg111	9.03E-61	0.473	0.980	0.968	1.97E-56	Interneuron
Atp6v0b1	3.01E-60	0.314	0.711	0.396	6.57E-56	Interneuron
Pld51	8.12E-60	0.279	0.487	0.216	1.78E-55	Interneuron
Nrxn11	9.65E-60	0.409	0.961	0.547	2.11E-55	Interneuron
Fam49b	2.22E-58	0.255	0.426	0.179	4.85E-54	Interneuron
Aff2	5.13E-58	0.295	0.448	0.202	1.12E-53	Interneuron
Nalcn	1.18E-57	0.311	0.534	0.268	2.57E-53	Interneuron
Fam155a1	1.64E-57	0.399	0.938	0.835	3.58E-53	Interneuron
Kif21a	3.48E-57	0.304	0.577	0.306	7.60E-53	Interneuron
Zbtb201	6.25E-56	0.383	0.697	0.394	1.37E-51	Interneuron
Me3	1.37E-55	0.282	0.437	0.197	2.98E-51	Interneuron
Dpp61	8.54E-55	0.389	0.771	0.426	1.87E-50	Interneuron
Ahcy12	1.45E-54	0.290	0.512	0.254	3.18E-50	Interneuron
Luzp1	6.62E-54	0.299	0.493	0.245	1.45E-49	Interneuron
Mettl23	1.16E-53	0.307	0.604	0.328	2.53E-49	Interneuron
Ank31	2.15E-52	0.278	0.807	0.483	4.71E-48	Interneuron
Gabra1	1.26E-50	0.301	0.551	0.301	2.76E-46	Interneuron
Epb41l3	1.68E-50	0.263	0.535	0.281	3.68E-46	Interneuron
Hunk1	8.30E-50	0.251	0.378	0.165	1.81E-45	Interneuron
Tnik	1.01E-49	0.292	0.688	0.418	2.20E-45	Interneuron
Kcnq1ot1	1.92E-49	0.335	0.657	0.405	4.19E-45	Interneuron
Trpm31	4.00E-49	0.266	0.730	0.396	8.74E-45	Interneuron
AC149090.11	5.23E-49	0.308	0.685	0.413	1.14E-44	Interneuron
Rmdn1	2.01E-48	0.270	0.585	0.326	4.39E-44	Interneuron
Gpr1581	4.70E-48	0.297	0.668	0.369	1.03E-43	Interneuron
Lhfpl31	3.31E-47	0.318	0.590	0.323	7.23E-43	Interneuron
Ntm1	4.55E-45	0.318	0.950	0.979	9.94E-41	Interneuron
Nme7	1.14E-44	0.264	0.440	0.219	2.49E-40	Interneuron
Amph	2.50E-44	0.251	0.471	0.241	5.46E-40	Interneuron
Grm3	7.73E-44	0.274	0.304	0.125	1.69E-39	Interneuron
Srsf2	1.28E-43	0.263	0.477	0.252	2.79E-39	Interneuron
Slc24a5	4.67E-43	0.261	0.520	0.284	1.02E-38	Interneuron
Wwox	7.89E-43	0.349	0.587	0.364	1.73E-38	Interneuron
Gm2163	8.82E-41	0.292	0.382	0.187	1.93E-36	Interneuron
Gm424181	9.25E-41	0.259	0.858	0.557	2.02E-36	Interneuron
Pcdh7	1.20E-40	0.382	0.388	0.194	2.63E-36	Interneuron
Naaladl2	2.08E-40	0.276	0.619	0.369	4.54E-36	Interneuron
Nrg1	2.69E-40	0.746	0.282	0.118	5.88E-36	Interneuron
Rbm391	7.83E-40	0.262	0.744	0.490	1.71E-35	Interneuron

Arl15	1.06E-38	0.284	0.479	0.272	2.31E-34	Interneuron
Lrrtm41	2.73E-37	0.492	0.580	0.355	5.97E-33	Interneuron
Grin1	4.15E-37	0.259	0.577	0.349	9.07E-33	Interneuron
Ppm1l	2.96E-35	0.273	0.438	0.240	6.47E-31	Interneuron
Arglu1	9.92E-32	0.265	0.736	0.532	2.17E-27	Interneuron
Ptptr1	1.25E-30	0.297	0.318	0.155	2.73E-26	Interneuron
Lrp1b	1.40E-29	0.517	0.869	0.837	3.07E-25	Interneuron
Gria21	1.09E-16	0.261	0.930	0.950	2.39E-12	Interneuron
Nrg3	8.27E-11	0.250	0.690	0.639	1.81E-06	Interneuron
Luzp21	0.00E+00	1.949	0.956	0.060	0.00E+00	Glial cell
Apoe	0.00E+00	1.805	0.975	0.036	0.00E+00	Glial cell
Gabbr1	0.00E+00	1.699	0.966	0.089	0.00E+00	Glial cell
Slc1a3	0.00E+00	1.656	0.846	0.016	0.00E+00	Glial cell
Npas31	0.00E+00	1.650	0.966	0.154	0.00E+00	Glial cell
Ptprz11	0.00E+00	1.604	0.913	0.033	0.00E+00	Glial cell
Wdr171	0.00E+00	1.591	0.926	0.276	0.00E+00	Glial cell
Slc4a41	0.00E+00	1.458	0.956	0.215	0.00E+00	Glial cell
Gm3764	0.00E+00	1.331	0.903	0.072	0.00E+00	Glial cell
Gpm6b	0.00E+00	1.323	0.825	0.120	0.00E+00	Glial cell
Prex2	0.00E+00	1.266	0.814	0.004	0.00E+00	Glial cell
Atp1a2	0.00E+00	1.188	0.852	0.006	0.00E+00	Glial cell
Qk	0.00E+00	1.184	0.907	0.154	0.00E+00	Glial cell
Pla2g7	0.00E+00	1.166	0.875	0.011	0.00E+00	Glial cell
Sparcl1	0.00E+00	1.062	0.774	0.052	0.00E+00	Glial cell
Gsdme	0.00E+00	1.032	0.666	0.059	0.00E+00	Glial cell
Sema6d	0.00E+00	0.968	0.674	0.044	0.00E+00	Glial cell
Nbl1	0.00E+00	0.961	0.772	0.063	0.00E+00	Glial cell
Lama2	0.00E+00	0.961	0.693	0.014	0.00E+00	Glial cell
Plpp3	0.00E+00	0.953	0.729	0.010	0.00E+00	Glial cell
Gpr3711	0.00E+00	0.925	0.729	0.031	0.00E+00	Glial cell
Cdh20	0.00E+00	0.884	0.702	0.044	0.00E+00	Glial cell
Slc1a2	0.00E+00	0.823	0.681	0.020	0.00E+00	Glial cell
Rorb	0.00E+00	0.746	0.579	0.004	0.00E+00	Glial cell
Lrig1	0.00E+00	0.745	0.626	0.027	0.00E+00	Glial cell
Grin2b1	0.00E+00	0.729	0.613	0.022	0.00E+00	Glial cell
Ttll3	0.00E+00	0.724	0.471	0.007	0.00E+00	Glial cell
Zeb2	0.00E+00	0.705	0.537	0.042	0.00E+00	Glial cell
Aqp4	0.00E+00	0.699	0.482	0.004	0.00E+00	Glial cell
Gabra2	0.00E+00	0.697	0.535	0.007	0.00E+00	Glial cell
Mpp6	0.00E+00	0.665	0.539	0.025	0.00E+00	Glial cell
Gjc3	0.00E+00	0.664	0.539	0.023	0.00E+00	Glial cell
Ptn	0.00E+00	0.659	0.603	0.042	0.00E+00	Glial cell
Map2k6	0.00E+00	0.658	0.537	0.045	0.00E+00	Glial cell
Eps15	0.00E+00	0.646	0.586	0.083	0.00E+00	Glial cell

Btbd17	0.00E+00	0.645	0.512	0.006	0.00E+00	Glial cell
Tprkb	0.00E+00	0.643	0.469	0.026	0.00E+00	Glial cell
Nckap5	0.00E+00	0.623	0.556	0.016	0.00E+00	Glial cell
Aldh1a1	0.00E+00	0.616	0.444	0.003	0.00E+00	Glial cell
Rgs20	0.00E+00	0.607	0.535	0.028	0.00E+00	Glial cell
A2m	0.00E+00	0.604	0.444	0.002	0.00E+00	Glial cell
Gja1	0.00E+00	0.602	0.471	0.004	0.00E+00	Glial cell
Plce1	0.00E+00	0.593	0.499	0.010	0.00E+00	Glial cell
Phkg1	0.00E+00	0.585	0.488	0.008	0.00E+00	Glial cell
Gsap	0.00E+00	0.583	0.467	0.002	0.00E+00	Glial cell
1700047M11Rik	0.00E+00	0.564	0.459	0.018	0.00E+00	Glial cell
Tmem47	0.00E+00	0.543	0.459	0.034	0.00E+00	Glial cell
Ednrb	0.00E+00	0.539	0.476	0.003	0.00E+00	Glial cell
Stk32a	0.00E+00	0.536	0.440	0.001	0.00E+00	Glial cell
Nhs1	0.00E+00	0.523	0.410	0.006	0.00E+00	Glial cell
Abi3bp	0.00E+00	0.510	0.393	0.005	0.00E+00	Glial cell
Hepacam	0.00E+00	0.504	0.446	0.011	0.00E+00	Glial cell
Mybpc1	0.00E+00	0.503	0.256	0.003	0.00E+00	Glial cell
Gm29478	0.00E+00	0.501	0.397	0.017	0.00E+00	Glial cell
Fbxl7	0.00E+00	0.500	0.372	0.014	0.00E+00	Glial cell
S1pr1	0.00E+00	0.496	0.459	0.003	0.00E+00	Glial cell
Phyhipl	0.00E+00	0.485	0.459	0.040	0.00E+00	Glial cell
Arhgef26	0.00E+00	0.462	0.406	0.010	0.00E+00	Glial cell
Pax3	0.00E+00	0.457	0.364	0.001	0.00E+00	Glial cell
Sox6	0.00E+00	0.441	0.412	0.012	0.00E+00	Glial cell
Slc7a10	0.00E+00	0.440	0.383	0.001	0.00E+00	Glial cell
Cpne2	0.00E+00	0.439	0.374	0.008	0.00E+00	Glial cell
Slc39a12	0.00E+00	0.427	0.372	0.004	0.00E+00	Glial cell
Greb1l	0.00E+00	0.420	0.342	0.018	0.00E+00	Glial cell
St3gal4	0.00E+00	0.419	0.383	0.022	0.00E+00	Glial cell
F3	0.00E+00	0.411	0.347	0.003	0.00E+00	Glial cell
Bmpr1b	0.00E+00	0.404	0.368	0.016	0.00E+00	Glial cell
Tnc	0.00E+00	0.400	0.275	0.002	0.00E+00	Glial cell
Emid1	0.00E+00	0.378	0.326	0.003	0.00E+00	Glial cell
Sash1	0.00E+00	0.366	0.345	0.018	0.00E+00	Glial cell
Nwd1	0.00E+00	0.364	0.332	0.008	0.00E+00	Glial cell
Gm48742	0.00E+00	0.363	0.307	0.017	0.00E+00	Glial cell
Dao	0.00E+00	0.357	0.347	0.003	0.00E+00	Glial cell
Sncap	0.00E+00	0.350	0.315	0.013	0.00E+00	Glial cell
Tcf7l2	0.00E+00	0.349	0.321	0.004	0.00E+00	Glial cell
Adcy2	0.00E+00	0.343	0.315	0.011	0.00E+00	Glial cell
Plscr4	0.00E+00	0.342	0.300	0.002	0.00E+00	Glial cell
Cd9	0.00E+00	0.327	0.326	0.018	0.00E+00	Glial cell
Acsbg1	0.00E+00	0.323	0.294	0.001	0.00E+00	Glial cell

Rmst1	0.00E+00	0.322	0.266	0.015	0.00E+00	Glial cell
Plekhg1	0.00E+00	0.322	0.309	0.019	0.00E+00	Glial cell
Sned1	0.00E+00	0.318	0.313	0.021	0.00E+00	Glial cell
Tlcd1	0.00E+00	0.315	0.290	0.003	0.00E+00	Glial cell
Id4	0.00E+00	0.309	0.302	0.016	0.00E+00	Glial cell
Rfx4	0.00E+00	0.309	0.288	0.002	0.00E+00	Glial cell
Dock1	0.00E+00	0.294	0.271	0.011	0.00E+00	Glial cell
Prex1	0.00E+00	0.293	0.283	0.005	0.00E+00	Glial cell
Mertk	0.00E+00	0.292	0.275	0.003	0.00E+00	Glial cell
Camk2g	0.00E+00	0.284	0.296	0.019	0.00E+00	Glial cell
E130114P18Rik	0.00E+00	0.278	0.296	0.016	0.00E+00	Glial cell
Clic4	0.00E+00	0.276	0.264	0.015	0.00E+00	Glial cell
Col9a3	0.00E+00	0.276	0.262	0.005	0.00E+00	Glial cell
Ddo	0.00E+00	0.266	0.258	0.008	0.00E+00	Glial cell
Gabra4	1.59E-296	0.308	0.304	0.022	3.48E-292	Glial cell
Dtna	1.04E-294	0.906	0.789	0.184	2.27E-290	Glial cell
Thrb1	3.34E-289	0.275	0.260	0.016	7.29E-285	Glial cell
Cd81	2.18E-288	0.903	0.740	0.161	4.76E-284	Glial cell
Adgrl31	1.55E-276	1.262	0.875	0.269	3.38E-272	Glial cell
Pitpnc1	3.81E-253	0.482	0.400	0.046	8.32E-249	Glial cell
Alcam	1.40E-251	0.370	0.340	0.033	3.05E-247	Glial cell
Trps1	5.25E-250	0.878	0.738	0.185	1.15E-245	Glial cell
Trpm32	4.96E-248	1.291	0.962	0.393	1.09E-243	Glial cell
Ptch1	4.40E-237	0.600	0.522	0.088	9.61E-233	Glial cell
Atp1b2	1.23E-233	0.472	0.457	0.065	2.69E-229	Glial cell
Cpq	2.58E-225	0.294	0.271	0.023	5.63E-221	Glial cell
Glud1	2.66E-223	0.505	0.505	0.085	5.82E-219	Glial cell
Slc38a1	8.18E-223	0.575	0.579	0.113	1.79E-218	Glial cell
Asrgl1	7.16E-222	0.301	0.294	0.028	1.57E-217	Glial cell
Dpyd	1.49E-219	0.277	0.266	0.023	3.27E-215	Glial cell
Them4	6.16E-219	0.325	0.313	0.032	1.35E-214	Glial cell
Cdh10	4.03E-210	0.575	0.558	0.106	8.80E-206	Glial cell
Ttyh1	2.90E-207	0.485	0.539	0.103	6.33E-203	Glial cell
Lsamp2	1.76E-205	1.135	0.996	0.809	3.84E-201	Glial cell
Igsf8	1.04E-203	0.371	0.387	0.053	2.27E-199	Glial cell
Timp4	5.38E-197	0.304	0.307	0.034	1.18E-192	Glial cell
Cdh4	4.65E-196	0.317	0.288	0.030	1.02E-191	Glial cell
Cdk5rap2	1.51E-195	0.324	0.332	0.041	3.30E-191	Glial cell
Ctnnd21	1.04E-175	0.937	0.949	0.592	2.28E-171	Glial cell
Pik3r1	4.50E-172	0.374	0.353	0.052	9.84E-168	Glial cell
Hdac8	4.28E-171	0.799	0.753	0.284	9.36E-167	Glial cell
AC154683.1	4.17E-170	0.437	0.474	0.092	9.11E-166	Glial cell
Son1	3.70E-168	0.851	0.924	0.498	8.09E-164	Glial cell
Bach2	5.74E-168	0.320	0.334	0.047	1.25E-163	Glial cell

Enah1	5.57E-165	0.456	0.507	0.109	1.22E-160	Glial cell
Gria42	7.48E-162	1.595	0.852	0.441	1.64E-157	Glial cell
Sept4	1.21E-161	0.540	0.469	0.098	2.63E-157	Glial cell
Zbtb202	1.65E-159	0.830	0.882	0.393	3.60E-155	Glial cell
Paqr8	4.21E-158	0.317	0.321	0.046	9.21E-154	Glial cell
Ank2	7.41E-157	1.581	0.945	0.826	1.62E-152	Glial cell
Acsl3	1.91E-152	0.352	0.307	0.044	4.17E-148	Glial cell
Prdx6	7.53E-150	0.281	0.309	0.045	1.65E-145	Glial cell
C130071C03Rik1	7.76E-150	0.567	0.662	0.204	1.70E-145	Glial cell
Gria11	4.57E-149	1.322	0.691	0.296	9.98E-145	Glial cell
Plcb12	9.22E-147	0.771	0.888	0.388	2.02E-142	Glial cell
Sat1	1.09E-139	0.478	0.507	0.126	2.38E-135	Glial cell
Nfia1	2.04E-139	0.652	0.744	0.271	4.46E-135	Glial cell
Slc6a11	7.66E-136	0.284	0.315	0.050	1.67E-131	Glial cell
Myo161	2.88E-131	0.380	0.383	0.076	6.30E-127	Glial cell
Cep85l	3.16E-130	0.388	0.436	0.098	6.91E-126	Glial cell
4930402H24Rik	9.01E-128	0.680	0.767	0.345	1.97E-123	Glial cell
Nlgn11	3.89E-124	0.758	0.928	0.505	8.51E-120	Glial cell
Gm9925	4.80E-124	0.254	0.264	0.039	1.05E-119	Glial cell
Usp53	8.18E-122	0.344	0.362	0.072	1.79E-117	Glial cell
Pcdh71	1.65E-118	0.563	0.592	0.190	3.61E-114	Glial cell
Appl2	2.83E-118	0.413	0.463	0.119	6.19E-114	Glial cell
Farp1	1.38E-116	0.392	0.385	0.085	3.01E-112	Glial cell
Clybl	1.53E-116	0.399	0.410	0.097	3.35E-112	Glial cell
Maml21	3.02E-116	0.491	0.518	0.147	6.61E-112	Glial cell
Phlpp1	5.74E-116	0.466	0.548	0.164	1.25E-111	Glial cell
Sfxn5	6.50E-116	0.481	0.533	0.163	1.42E-111	Glial cell
Scg3	2.26E-115	0.342	0.374	0.080	4.93E-111	Glial cell
Kcnn21	3.89E-115	0.437	0.514	0.146	8.51E-111	Glial cell
Ophn1	7.04E-112	0.315	0.313	0.059	1.54E-107	Glial cell
Fmn2	4.14E-108	0.540	0.653	0.260	9.04E-104	Glial cell
Ust	1.26E-105	0.500	0.444	0.122	2.75E-101	Glial cell
Cst3	8.36E-100	0.551	0.613	0.227	1.83E-95	Glial cell
Gpc61	4.00E-97	0.739	0.793	0.413	8.75E-93	Glial cell
Grk3	5.01E-97	0.269	0.290	0.057	1.10E-92	Glial cell
Cdh22	1.65E-96	0.263	0.254	0.045	3.60E-92	Glial cell
Neo11	1.37E-94	0.345	0.425	0.117	3.00E-90	Glial cell
Zic4	2.12E-92	0.298	0.304	0.065	4.64E-88	Glial cell
Htra1	6.47E-91	0.320	0.374	0.096	1.41E-86	Glial cell
Myo6	2.39E-87	0.424	0.505	0.174	5.23E-83	Glial cell
Chpt1	6.32E-86	0.348	0.387	0.108	1.38E-81	Glial cell
Pard3b	2.04E-82	0.365	0.442	0.137	4.46E-78	Glial cell
Phka1	7.57E-81	0.314	0.330	0.084	1.65E-76	Glial cell
Cthrc1	7.73E-81	0.388	0.419	0.130	1.69E-76	Glial cell

Tle4	4.11E-80	0.306	0.340	0.089	8.98E-76	Glial cell
Xylt1	9.78E-78	0.323	0.357	0.099	2.14E-73	Glial cell
Ctsl	3.05E-75	0.331	0.440	0.144	6.67E-71	Glial cell
Rfx3	1.90E-72	0.311	0.383	0.116	4.15E-68	Glial cell
Mcc	1.38E-70	0.319	0.416	0.134	3.01E-66	Glial cell
Scd2	6.09E-70	0.329	0.387	0.122	1.33E-65	Glial cell
Fat31	6.88E-67	0.326	0.387	0.125	1.50E-62	Glial cell
Hnrnpa2b1	7.49E-65	0.432	0.622	0.304	1.64E-60	Glial cell
Hopx	8.61E-65	0.280	0.311	0.089	1.88E-60	Glial cell
Pcdh9	4.27E-60	0.340	0.998	0.989	9.34E-56	Glial cell
Ncam2	9.12E-60	0.496	0.706	0.394	1.99E-55	Glial cell
Gm424182	5.45E-59	0.440	0.896	0.558	1.19E-54	Glial cell
Dclk1	3.16E-58	0.458	0.634	0.344	6.92E-54	Glial cell
Agpat5	9.20E-58	0.266	0.332	0.105	2.01E-53	Glial cell
Spag9	2.09E-57	0.395	0.628	0.321	4.57E-53	Glial cell
Abi1	9.09E-54	0.268	0.307	0.096	1.99E-49	Glial cell
Samd4	2.69E-52	0.344	0.381	0.144	5.87E-48	Glial cell
Bmpr1a	2.75E-49	0.291	0.438	0.183	6.01E-45	Glial cell
Ntrk21	3.93E-49	0.250	0.381	0.141	8.60E-45	Glial cell
Arhgef12	2.49E-48	0.333	0.452	0.199	5.45E-44	Glial cell
Adk	4.17E-48	0.268	0.385	0.149	9.11E-44	Glial cell
Pde7b1	2.19E-46	0.317	0.383	0.155	4.78E-42	Glial cell
Nfib1	4.09E-46	0.338	0.596	0.295	8.94E-42	Glial cell
Nrcam	5.74E-45	0.396	0.624	0.362	1.25E-40	Glial cell
Mgat4c1	7.77E-45	0.276	0.266	0.084	1.70E-40	Glial cell
Gab2	4.22E-44	0.277	0.353	0.137	9.23E-40	Glial cell
Fry	4.49E-44	0.411	0.636	0.381	9.82E-40	Glial cell
Macf11	2.34E-42	0.384	0.818	0.643	5.12E-38	Glial cell
Ssbp2	1.14E-38	0.277	0.438	0.208	2.49E-34	Glial cell
Tcf12	4.89E-38	0.305	0.537	0.281	1.07E-33	Glial cell
Kansl1l	6.13E-36	0.338	0.537	0.303	1.34E-31	Glial cell
Tnik1	4.82E-35	0.326	0.643	0.421	1.05E-30	Glial cell
Arglu11	1.67E-34	0.361	0.729	0.534	3.65E-30	Glial cell
Dip2b1	7.03E-34	0.271	0.486	0.249	1.54E-29	Glial cell
Nav3	1.23E-33	0.357	0.641	0.392	2.68E-29	Glial cell
Tcf42	1.89E-33	0.265	0.668	0.371	4.14E-29	Glial cell
Itm2b1	1.36E-32	0.296	0.822	0.559	2.97E-28	Glial cell
Ppp2r2b	1.01E-31	0.288	0.442	0.229	2.21E-27	Glial cell
Nf1	7.47E-31	0.274	0.433	0.227	1.63E-26	Glial cell
Zfp608	5.85E-30	0.314	0.444	0.242	1.28E-25	Glial cell
Gpm6a1	8.03E-29	0.260	0.603	0.359	1.76E-24	Glial cell
Fgfr2	1.02E-28	0.317	0.662	0.454	2.23E-24	Glial cell
Grid21	1.10E-25	0.322	1.000	0.994	2.40E-21	Glial cell
Osbpl9	2.75E-25	0.290	0.457	0.270	6.01E-21	Glial cell

Chd91	4.20E-24	0.279	0.617	0.428	9.18E-20	Glial cell
Prpf4b2	1.19E-23	0.266	0.660	0.466	2.60E-19	Glial cell
Ncam11	7.71E-23	0.261	0.617	0.422	1.69E-18	Glial cell
Arhgap51	3.23E-21	0.271	0.734	0.534	7.05E-17	Glial cell
Cntn11	5.17E-17	0.282	0.554	0.398	1.13E-12	Glial cell
B3galt1	1.77E-15	0.281	0.575	0.440	3.86E-11	Glial cell
Nkain21	0.00E+00	2.808	0.923	0.135	0.00E+00	Oligodendrocyte
Plp1	0.00E+00	2.417	0.926	0.037	0.00E+00	Oligodendrocyte
Qk1	0.00E+00	1.932	0.965	0.150	0.00E+00	Oligodendrocyte
Mbp	0.00E+00	1.714	0.858	0.017	0.00E+00	Oligodendrocyte
Dock10	0.00E+00	1.593	0.884	0.007	0.00E+00	Oligodendrocyte
St18	0.00E+00	1.539	0.869	0.172	0.00E+00	Oligodendrocyte
Slc24a21	0.00E+00	1.451	0.852	0.236	0.00E+00	Oligodendrocyte
Pex5l	0.00E+00	1.436	0.790	0.011	0.00E+00	Oligodendrocyte
Mog	0.00E+00	1.368	0.788	0.007	0.00E+00	Oligodendrocyte
Zeb21	0.00E+00	1.238	0.847	0.032	0.00E+00	Oligodendrocyte
Plcl1	0.00E+00	1.196	0.768	0.020	0.00E+00	Oligodendrocyte
Mag	0.00E+00	1.169	0.784	0.005	0.00E+00	Oligodendrocyte
Neat1	0.00E+00	1.160	0.644	0.010	0.00E+00	Oligodendrocyte
Rnf220	0.00E+00	1.150	0.720	0.036	0.00E+00	Oligodendrocyte
Gjc31	0.00E+00	1.125	0.810	0.014	0.00E+00	Oligodendrocyte
Tubb4a	0.00E+00	1.120	0.843	0.189	0.00E+00	Oligodendrocyte
Aspa	0.00E+00	1.114	0.732	0.003	0.00E+00	Oligodendrocyte
Enpp2	0.00E+00	1.082	0.766	0.012	0.00E+00	Oligodendrocyte
Phlpp11	0.00E+00	0.986	0.806	0.155	0.00E+00	Oligodendrocyte
Aplp1	0.00E+00	0.982	0.766	0.087	0.00E+00	Oligodendrocyte
Prr5l	0.00E+00	0.956	0.618	0.002	0.00E+00	Oligodendrocyte
Cdh201	0.00E+00	0.900	0.690	0.042	0.00E+00	Oligodendrocyte
Mast3	0.00E+00	0.871	0.625	0.011	0.00E+00	Oligodendrocyte
Gpm6b1	0.00E+00	0.865	0.771	0.119	0.00E+00	Oligodendrocyte
Mal	0.00E+00	0.863	0.600	0.013	0.00E+00	Oligodendrocyte
Hapln2	0.00E+00	0.841	0.570	0.001	0.00E+00	Oligodendrocyte
Map7	0.00E+00	0.829	0.670	0.054	0.00E+00	Oligodendrocyte
Sox10	0.00E+00	0.826	0.649	0.000	0.00E+00	Oligodendrocyte
Dcc1	0.00E+00	0.824	0.565	0.052	0.00E+00	Oligodendrocyte
Ugt8a	0.00E+00	0.819	0.668	0.035	0.00E+00	Oligodendrocyte
1700047M11Rik1	0.00E+00	0.812	0.640	0.012	0.00E+00	Oligodendrocyte
Gatm	0.00E+00	0.802	0.598	0.004	0.00E+00	Oligodendrocyte
Cdh101	0.00E+00	0.796	0.655	0.102	0.00E+00	Oligodendrocyte
Bcas1	0.00E+00	0.776	0.559	0.001	0.00E+00	Oligodendrocyte
Pacrg	0.00E+00	0.752	0.635	0.088	0.00E+00	Oligodendrocyte
A330049N07Rik	0.00E+00	0.746	0.500	0.001	0.00E+00	Oligodendrocyte
Shisa4	0.00E+00	0.730	0.592	0.051	0.00E+00	Oligodendrocyte
Scd21	0.00E+00	0.722	0.659	0.114	0.00E+00	Oligodendrocyte

March1	0.00E+00	0.713	0.474	0.025	0.00E+00	Oligodendrocyte
Robo1	0.00E+00	0.713	0.528	0.056	0.00E+00	Oligodendrocyte
Klhl2	0.00E+00	0.713	0.587	0.048	0.00E+00	Oligodendrocyte
Mobp	0.00E+00	0.686	0.485	0.001	0.00E+00	Oligodendrocyte
Cldn11	0.00E+00	0.682	0.526	0.009	0.00E+00	Oligodendrocyte
Plekhg11	0.00E+00	0.673	0.544	0.011	0.00E+00	Oligodendrocyte
Cdh19	0.00E+00	0.667	0.518	0.005	0.00E+00	Oligodendrocyte
Car2	0.00E+00	0.643	0.522	0.048	0.00E+00	Oligodendrocyte
Ptprk1	0.00E+00	0.630	0.572	0.028	0.00E+00	Oligodendrocyte
Litaf	0.00E+00	0.629	0.482	0.005	0.00E+00	Oligodendrocyte
Aatk	0.00E+00	0.608	0.581	0.065	0.00E+00	Oligodendrocyte
Sec14l5	0.00E+00	0.601	0.487	0.001	0.00E+00	Oligodendrocyte
Sorcs1	0.00E+00	0.583	0.506	0.039	0.00E+00	Oligodendrocyte
Apod	0.00E+00	0.581	0.463	0.008	0.00E+00	Oligodendrocyte
Plekhh1	0.00E+00	0.575	0.494	0.005	0.00E+00	Oligodendrocyte
4930419G24Rik	0.00E+00	0.574	0.410	0.003	0.00E+00	Oligodendrocyte
Fa2h	0.00E+00	0.570	0.511	0.022	0.00E+00	Oligodendrocyte
Frmd4b	0.00E+00	0.567	0.485	0.028	0.00E+00	Oligodendrocyte
Gsn	0.00E+00	0.566	0.461	0.003	0.00E+00	Oligodendrocyte
Erbin	0.00E+00	0.562	0.467	0.012	0.00E+00	Oligodendrocyte
Sytl2	0.00E+00	0.558	0.437	0.017	0.00E+00	Oligodendrocyte
Ptn1	0.00E+00	0.552	0.494	0.043	0.00E+00	Oligodendrocyte
Hcn2	0.00E+00	0.542	0.454	0.038	0.00E+00	Oligodendrocyte
Stxbp6	0.00E+00	0.512	0.413	0.007	0.00E+00	Oligodendrocyte
Elovl7	0.00E+00	0.510	0.437	0.015	0.00E+00	Oligodendrocyte
Ernm	0.00E+00	0.503	0.423	0.001	0.00E+00	Oligodendrocyte
Smad7	0.00E+00	0.501	0.432	0.042	0.00E+00	Oligodendrocyte
AC110241.2	0.00E+00	0.488	0.341	0.001	0.00E+00	Oligodendrocyte
Gm16168	0.00E+00	0.486	0.430	0.028	0.00E+00	Oligodendrocyte
Clic41	0.00E+00	0.472	0.399	0.010	0.00E+00	Oligodendrocyte
Gab1	0.00E+00	0.452	0.387	0.020	0.00E+00	Oligodendrocyte
Anln	0.00E+00	0.449	0.341	0.003	0.00E+00	Oligodendrocyte
Agpat4	0.00E+00	0.446	0.421	0.040	0.00E+00	Oligodendrocyte
Gm37459	0.00E+00	0.435	0.352	0.002	0.00E+00	Oligodendrocyte
Trim59	0.00E+00	0.430	0.375	0.006	0.00E+00	Oligodendrocyte
Ddr1	0.00E+00	0.421	0.404	0.043	0.00E+00	Oligodendrocyte
Slain1	0.00E+00	0.421	0.397	0.021	0.00E+00	Oligodendrocyte
Phldb1	0.00E+00	0.414	0.371	0.018	0.00E+00	Oligodendrocyte
Pde8a	0.00E+00	0.402	0.354	0.008	0.00E+00	Oligodendrocyte
Gm42413	0.00E+00	0.384	0.356	0.024	0.00E+00	Oligodendrocyte
Rfl	0.00E+00	0.373	0.349	0.015	0.00E+00	Oligodendrocyte
Mob3b	0.00E+00	0.367	0.295	0.008	0.00E+00	Oligodendrocyte
Tmbim1	0.00E+00	0.364	0.332	0.016	0.00E+00	Oligodendrocyte
Enpp6	0.00E+00	0.358	0.269	0.003	0.00E+00	Oligodendrocyte

Sox8	0.00E+00	0.350	0.293	0.004	0.00E+00	Oligodendrocyte
Gm487421	0.00E+00	0.344	0.282	0.017	0.00E+00	Oligodendrocyte
Rasgrp3	0.00E+00	0.333	0.262	0.001	0.00E+00	Oligodendrocyte
Msmo1	0.00E+00	0.331	0.297	0.018	0.00E+00	Oligodendrocyte
Tmeff1	0.00E+00	0.329	0.304	0.007	0.00E+00	Oligodendrocyte
Ppp1r14a	0.00E+00	0.326	0.293	0.002	0.00E+00	Oligodendrocyte
Wipf1	0.00E+00	0.323	0.314	0.021	0.00E+00	Oligodendrocyte
Glul	0.00E+00	0.317	0.284	0.008	0.00E+00	Oligodendrocyte
Pik3c2b	0.00E+00	0.315	0.293	0.008	0.00E+00	Oligodendrocyte
Dock11	0.00E+00	0.313	0.295	0.009	0.00E+00	Oligodendrocyte
Hepacam1	0.00E+00	0.305	0.306	0.013	0.00E+00	Oligodendrocyte
Gal3st1	0.00E+00	0.286	0.271	0.002	0.00E+00	Oligodendrocyte
Cobll1	0.00E+00	0.284	0.260	0.009	0.00E+00	Oligodendrocyte
Cmtm5	0.00E+00	0.283	0.273	0.008	0.00E+00	Oligodendrocyte
Megf101	0.00E+00	0.282	0.286	0.015	0.00E+00	Oligodendrocyte
Lpar1	0.00E+00	0.279	0.251	0.004	0.00E+00	Oligodendrocyte
Plip	0.00E+00	0.269	0.266	0.003	0.00E+00	Oligodendrocyte
Wscd1	0.00E+00	0.268	0.273	0.015	0.00E+00	Oligodendrocyte
St6gal1	0.00E+00	0.267	0.262	0.011	0.00E+00	Oligodendrocyte
St6galnac3	6.64E-306	0.799	0.707	0.153	1.45E-301	Oligodendrocyte
Kcnq31	2.64E-302	0.536	0.506	0.070	5.77E-298	Oligodendrocyte
Ypel2	1.76E-299	0.513	0.428	0.051	3.86E-295	Oligodendrocyte
Fth1	2.34E-292	0.578	0.511	0.076	5.10E-288	Oligodendrocyte
Cdk19	1.71E-285	0.603	0.537	0.087	3.74E-281	Oligodendrocyte
Pde4b1	1.02E-282	1.336	0.959	0.390	2.24E-278	Oligodendrocyte
Edil31	1.96E-282	1.096	0.865	0.297	4.29E-278	Oligodendrocyte
Cd91	1.29E-278	0.460	0.258	0.018	2.82E-274	Oligodendrocyte
Sept7	1.37E-275	0.822	0.731	0.187	2.99E-271	Oligodendrocyte
Creb5	7.23E-275	0.443	0.411	0.050	1.58E-270	Oligodendrocyte
Tmeff2	1.11E-270	1.594	0.915	0.451	2.42E-266	Oligodendrocyte
Slc12a2	2.52E-267	0.593	0.572	0.104	5.51E-263	Oligodendrocyte
Prickle2	4.78E-267	0.682	0.601	0.120	1.04E-262	Oligodendrocyte
St3gal41	1.81E-264	0.319	0.282	0.023	3.95E-260	Oligodendrocyte
Jam3	7.50E-264	0.269	0.277	0.023	1.64E-259	Oligodendrocyte
Ptgds	1.81E-262	1.040	0.391	0.050	3.97E-258	Oligodendrocyte
Ptprd1	1.09E-259	1.321	0.902	0.386	2.38E-255	Oligodendrocyte
Dscaml11	1.47E-249	0.398	0.408	0.054	3.22E-245	Oligodendrocyte
Pacs2	3.06E-248	0.259	0.258	0.021	6.69E-244	Oligodendrocyte
Arhgap23	2.78E-246	0.440	0.446	0.067	6.07E-242	Oligodendrocyte
Cyp51	1.17E-235	0.293	0.277	0.026	2.56E-231	Oligodendrocyte
Josd2	4.23E-233	0.268	0.282	0.027	9.24E-229	Oligodendrocyte
Sema6d1	4.66E-233	0.389	0.380	0.050	1.02E-228	Oligodendrocyte
Pcdh91	1.37E-232	1.271	0.996	0.989	3.00E-228	Oligodendrocyte
Myo1d	1.10E-222	0.389	0.360	0.047	2.41E-218	Oligodendrocyte

Erb41	1.42E-220	1.009	0.751	0.218	3.10E-216	Oligodendrocyte
Sypl	2.42E-218	0.274	0.279	0.028	5.28E-214	Oligodendrocyte
Pik3r11	4.13E-217	0.355	0.369	0.050	9.02E-213	Oligodendrocyte
Nrbp2	1.30E-215	0.278	0.282	0.029	2.84E-211	Oligodendrocyte
Pak1	3.65E-215	0.645	0.554	0.118	7.98E-211	Oligodendrocyte
Rtn4	4.60E-213	0.946	0.865	0.380	1.01E-208	Oligodendrocyte
Pard3	9.96E-213	0.377	0.410	0.063	2.18E-208	Oligodendrocyte
Grb14	3.76E-205	0.421	0.424	0.071	8.21E-201	Oligodendrocyte
Zdhhc20	2.62E-204	0.478	0.476	0.091	5.74E-200	Oligodendrocyte
Npas32	2.86E-194	0.557	0.635	0.160	6.25E-190	Oligodendrocyte
Cpox	4.62E-183	0.301	0.295	0.038	1.01E-178	Oligodendrocyte
Stxbp3	9.99E-183	0.292	0.312	0.042	2.18E-178	Oligodendrocyte
Stmn4	1.23E-181	0.316	0.330	0.048	2.68E-177	Oligodendrocyte
Ankrd28	1.09E-180	0.539	0.557	0.139	2.39E-176	Oligodendrocyte
Cdc37l1	4.88E-180	0.606	0.631	0.184	1.07E-175	Oligodendrocyte
Lrp1b1	6.69E-180	0.909	0.974	0.834	1.46E-175	Oligodendrocyte
Rcbtb1	1.13E-177	0.533	0.542	0.135	2.47E-173	Oligodendrocyte
Kif13b	2.72E-176	0.437	0.461	0.096	5.95E-172	Oligodendrocyte
Zfp536	4.92E-176	0.574	0.568	0.148	1.08E-171	Oligodendrocyte
Ncam21	1.53E-175	0.830	0.860	0.389	3.34E-171	Oligodendrocyte
Sept41	4.76E-171	0.433	0.461	0.097	1.04E-166	Oligodendrocyte
Kndc1	1.14E-168	0.302	0.312	0.046	2.49E-164	Oligodendrocyte
Usp54	1.86E-164	0.298	0.303	0.044	4.06E-160	Oligodendrocyte
Pcyt2	2.65E-164	0.576	0.526	0.135	5.79E-160	Oligodendrocyte
Slc22a23	5.28E-158	0.310	0.315	0.049	1.15E-153	Oligodendrocyte
Vmp1	5.13E-153	0.649	0.708	0.270	1.12E-148	Oligodendrocyte
Pak7	1.95E-148	0.632	0.661	0.232	4.27E-144	Oligodendrocyte
Csmd32	5.20E-148	0.682	0.716	0.263	1.14E-143	Oligodendrocyte
Tulp4	5.97E-148	0.623	0.683	0.248	1.30E-143	Oligodendrocyte
Grm31	5.25E-147	0.546	0.478	0.121	1.15E-142	Oligodendrocyte
Sema5a	1.13E-144	0.367	0.279	0.042	2.46E-140	Oligodendrocyte
Epn2	1.31E-143	0.360	0.397	0.083	2.86E-139	Oligodendrocyte
Cd811	1.69E-140	0.522	0.555	0.164	3.70E-136	Oligodendrocyte
Fnbp11	6.05E-137	0.615	0.681	0.251	1.32E-132	Oligodendrocyte
Dnm3	9.90E-137	0.716	0.814	0.446	2.16E-132	Oligodendrocyte
Tmcc1	5.77E-135	0.648	0.764	0.352	1.26E-130	Oligodendrocyte
Phyhipl1	6.96E-132	0.297	0.273	0.044	1.52E-127	Oligodendrocyte
Pls1	6.56E-130	0.312	0.336	0.066	1.43E-125	Oligodendrocyte
Synj2	4.16E-127	0.270	0.277	0.046	9.10E-123	Oligodendrocyte
Tll7	3.79E-126	0.530	0.541	0.175	8.29E-122	Oligodendrocyte
Wnk1	1.78E-123	0.543	0.611	0.227	3.90E-119	Oligodendrocyte
Abca2	5.83E-121	0.301	0.321	0.064	1.27E-116	Oligodendrocyte
Sec11c	1.27E-118	0.337	0.380	0.088	2.77E-114	Oligodendrocyte
Sbf1	1.21E-117	0.282	0.315	0.063	2.64E-113	Oligodendrocyte

Neo12	4.63E-115	0.368	0.432	0.115	1.01E-110	Oligodendrocyte
Tbc1d5	5.29E-113	0.493	0.572	0.204	1.16E-108	Oligodendrocyte
Ano41	5.84E-112	0.610	0.566	0.214	1.28E-107	Oligodendrocyte
Actb	8.00E-109	0.294	0.315	0.067	1.75E-104	Oligodendrocyte
Sema6a	1.31E-108	0.309	0.297	0.060	2.87E-104	Oligodendrocyte
Cdh2	1.02E-106	0.603	0.694	0.338	2.23E-102	Oligodendrocyte
Cntn2	1.06E-105	0.253	0.290	0.059	2.31E-101	Oligodendrocyte
Luzp22	3.96E-104	0.370	0.332	0.074	8.65E-100	Oligodendrocyte
Phactr1	1.50E-102	0.422	0.594	0.220	3.27E-98	Oligodendrocyte
Tcf121	1.63E-94	0.482	0.637	0.278	3.57E-90	Oligodendrocyte
Atp8a11	5.34E-93	0.394	0.465	0.153	1.17E-88	Oligodendrocyte
Dlg11	1.82E-92	0.398	0.496	0.169	3.97E-88	Oligodendrocyte
Rap1a	7.79E-92	0.412	0.470	0.164	1.70E-87	Oligodendrocyte
Rnf13	4.13E-91	0.363	0.485	0.168	9.04E-87	Oligodendrocyte
Kif1b	3.37E-89	0.480	0.640	0.292	7.36E-85	Oligodendrocyte
Sik3	1.13E-88	0.477	0.603	0.270	2.48E-84	Oligodendrocyte
Cyld1	2.73E-87	0.280	0.354	0.096	5.96E-83	Oligodendrocyte
Bin1	1.24E-86	0.254	0.266	0.059	2.71E-82	Oligodendrocyte
Gkap1	1.40E-86	0.293	0.338	0.091	3.07E-82	Oligodendrocyte
Magi11	3.40E-85	0.348	0.461	0.154	7.44E-81	Oligodendrocyte
Mast41	1.05E-83	0.583	0.745	0.423	2.29E-79	Oligodendrocyte
Tmcc3	1.82E-82	0.334	0.448	0.154	3.97E-78	Oligodendrocyte
Dip2b2	1.93E-82	0.402	0.587	0.245	4.22E-78	Oligodendrocyte
Ppp2r2a	5.99E-82	0.303	0.378	0.115	1.31E-77	Oligodendrocyte
Ephb1	1.51E-79	0.316	0.354	0.104	3.30E-75	Oligodendrocyte
Mitf	1.08E-77	0.294	0.293	0.076	2.36E-73	Oligodendrocyte
Shtn1	1.19E-76	0.300	0.345	0.103	2.59E-72	Oligodendrocyte
Slc44a1	4.57E-76	0.393	0.474	0.185	9.98E-72	Oligodendrocyte
Dip2a	1.71E-74	0.335	0.404	0.138	3.74E-70	Oligodendrocyte
Abhd17b	8.20E-74	0.410	0.568	0.255	1.79E-69	Oligodendrocyte
Acap2	1.62E-73	0.295	0.384	0.125	3.55E-69	Oligodendrocyte
Pcdh15	1.04E-72	0.500	0.290	0.080	2.28E-68	Oligodendrocyte
Rsrp1	3.16E-72	0.407	0.635	0.316	6.90E-68	Oligodendrocyte
Rab31	5.50E-72	0.278	0.397	0.133	1.20E-67	Oligodendrocyte
Lamp1	8.10E-70	0.321	0.437	0.163	1.77E-65	Oligodendrocyte
Acaca	9.60E-70	0.407	0.487	0.207	2.10E-65	Oligodendrocyte
Ncam12	1.84E-68	0.432	0.725	0.418	4.03E-64	Oligodendrocyte
Clasp2	1.86E-66	0.379	0.624	0.313	4.06E-62	Oligodendrocyte
Fign	1.28E-65	0.302	0.371	0.128	2.80E-61	Oligodendrocyte
Gm38304	1.79E-65	0.311	0.391	0.141	3.91E-61	Oligodendrocyte
Gm48678	2.46E-65	0.329	0.452	0.179	5.39E-61	Oligodendrocyte
Sccpdh	4.33E-64	0.292	0.365	0.126	9.47E-60	Oligodendrocyte
Syt11	7.48E-64	0.321	0.458	0.183	1.64E-59	Oligodendrocyte
Ube2e2	4.94E-63	0.481	0.690	0.418	1.08E-58	Oligodendrocyte

Fgfr21	1.47E-62	0.525	0.716	0.452	3.20E-58	Oligodendrocyte
Mapt	3.01E-62	0.453	0.686	0.414	6.59E-58	Oligodendrocyte
Ppp2r3a	2.45E-61	0.331	0.472	0.201	5.36E-57	Oligodendrocyte
Myo61	8.26E-61	0.294	0.439	0.175	1.81E-56	Oligodendrocyte
Srsf21	3.03E-60	0.363	0.535	0.251	6.62E-56	Oligodendrocyte
Dst1	5.22E-60	0.391	0.696	0.389	1.14E-55	Oligodendrocyte
Slc38a2	5.52E-59	0.348	0.498	0.223	1.21E-54	Oligodendrocyte
Tspan2	1.16E-58	0.355	0.400	0.159	2.53E-54	Oligodendrocyte
Mettl231	7.84E-57	0.396	0.616	0.329	1.71E-52	Oligodendrocyte
Spag91	2.98E-56	0.348	0.607	0.320	6.52E-52	Oligodendrocyte
Limch1	3.45E-56	0.320	0.485	0.220	7.53E-52	Oligodendrocyte
Picalm	3.86E-55	0.298	0.404	0.164	8.43E-51	Oligodendrocyte
Otud7b	4.26E-55	0.298	0.432	0.184	9.31E-51	Oligodendrocyte
Trim35	6.25E-55	0.361	0.542	0.277	1.36E-50	Oligodendrocyte
App	5.45E-54	0.377	0.659	0.376	1.19E-49	Oligodendrocyte
Kif13a	3.09E-52	0.276	0.391	0.158	6.76E-48	Oligodendrocyte
Sh3d191	1.59E-50	0.327	0.513	0.253	3.47E-46	Oligodendrocyte
Zbtb203	5.42E-50	0.346	0.707	0.396	1.18E-45	Oligodendrocyte
Eml11	1.47E-49	0.378	0.507	0.267	3.22E-45	Oligodendrocyte
Ptk21	2.79E-49	0.381	0.579	0.337	6.10E-45	Oligodendrocyte
Naaladl21	1.52E-46	0.419	0.624	0.370	3.31E-42	Oligodendrocyte
Slc25a27	2.78E-46	0.261	0.365	0.152	6.07E-42	Oligodendrocyte
Zcchc7	2.07E-45	0.362	0.653	0.419	4.53E-41	Oligodendrocyte
Frmd51	2.56E-45	0.404	0.836	0.589	5.59E-41	Oligodendrocyte
Ankib1	3.03E-45	0.271	0.387	0.169	6.62E-41	Oligodendrocyte
Map4k4	1.35E-44	0.257	0.410	0.184	2.96E-40	Oligodendrocyte
Ank32	5.44E-44	0.453	0.736	0.486	1.19E-39	Oligodendrocyte
Dctn4	4.04E-43	0.282	0.408	0.188	8.82E-39	Oligodendrocyte
Itch	5.12E-43	0.265	0.441	0.210	1.12E-38	Oligodendrocyte
Mbnl2	8.79E-42	0.344	0.631	0.410	1.92E-37	Oligodendrocyte
Il1rap1	1.09E-39	0.254	0.424	0.204	2.39E-35	Oligodendrocyte
Lcorl	2.54E-39	0.267	0.319	0.131	5.56E-35	Oligodendrocyte
Ssh2	3.79E-39	0.287	0.434	0.216	8.29E-35	Oligodendrocyte
Nrd1	1.08E-38	0.264	0.411	0.200	2.37E-34	Oligodendrocyte
Arid4b	3.46E-38	0.286	0.463	0.242	7.56E-34	Oligodendrocyte
Plekha1	6.25E-37	0.264	0.280	0.113	1.37E-32	Oligodendrocyte
Gm424183	9.86E-36	0.308	0.841	0.559	2.15E-31	Oligodendrocyte
Magi21	2.27E-34	0.302	0.980	0.990	4.95E-30	Oligodendrocyte
Map4	2.93E-34	0.300	0.507	0.303	6.41E-30	Oligodendrocyte
Tjp11	8.53E-34	0.270	0.434	0.230	1.86E-29	Oligodendrocyte
Atp6v0b2	2.33E-33	0.258	0.644	0.400	5.09E-29	Oligodendrocyte
Baz2b	4.68E-33	0.280	0.594	0.368	1.02E-28	Oligodendrocyte
Ctnna21	1.50E-32	0.450	0.714	0.577	3.28E-28	Oligodendrocyte
Tmem178b	4.81E-30	0.321	0.550	0.360	1.05E-25	Oligodendrocyte

Tmtc21	1.19E-29	0.268	0.583	0.361	2.60E-25	Oligodendrocyte
Daam1	1.39E-29	0.256	0.345	0.174	3.04E-25	Oligodendrocyte
Rbm392	3.68E-29	0.257	0.712	0.492	8.03E-25	Oligodendrocyte
Plxdc21	2.77E-28	0.295	0.568	0.381	6.06E-24	Oligodendrocyte
Mycbp22	6.46E-28	0.280	0.710	0.500	1.41E-23	Oligodendrocyte
Gm283761	1.00E-22	0.263	0.546	0.356	2.19E-18	Oligodendrocyte
Nfasc	1.48E-18	0.411	0.419	0.284	3.24E-14	Oligodendrocyte
Fmnl2	1.73E-17	0.256	0.458	0.317	3.79E-13	Oligodendrocyte
Spock32	1.77E-17	0.283	0.476	0.339	3.87E-13	Oligodendrocyte
Prickle11	4.33E-16	0.308	0.325	0.203	9.47E-12	Oligodendrocyte
Pcdh72	1.76E-12	0.531	0.293	0.197	3.84E-08	Oligodendrocyte
Lhfpl32	1.86E-09	0.348	0.185	0.335	4.07E-05	Oligodendrocyte

Supplementary Table 3.**Differentially expressed genes (DEGs) of *Aldoc*+ vs. *Plcb4*+ Purkinje neurons**

Gene	<i>Aldoc</i> +	<i>Plcb4</i> +	avg_logFC	pct.1	pct.2	p_val_adj
Mpped2	1.605	0.118	1.536	0.750	0.081	0.00E+00
Gm12682	1.733	0.312	1.471	0.517	0.195	0.00E+00
Gm32647	1.779	0.388	1.441	0.648	0.213	0.00E+00
Epha5	2.616	1.375	1.291	0.976	0.780	0.00E+00
Nlgn1	2.604	1.397	1.257	0.981	0.747	0.00E+00
Aldoc	1.258	0.066	1.242	0.880	0.068	0.00E+00
Nav3	2.134	0.975	1.209	0.974	0.616	0.00E+00
Camk2d	1.518	0.395	1.173	0.893	0.284	0.00E+00
Eda	1.478	0.374	1.153	0.712	0.250	0.00E+00
Dgkh	3.087	2.035	1.102	1.000	0.983	0.00E+00
Kirrel3	1.649	0.611	1.088	0.715	0.392	0.00E+00
Sorcs2	1.094	0.076	1.068	0.644	0.060	0.00E+00
Cux2	1.236	0.241	1.045	0.836	0.186	0.00E+00
Erc2	2.754	1.808	0.996	0.994	0.976	0.00E+00
Slc1a6	2.703	1.771	0.982	1.000	0.963	0.00E+00
Rgs7	2.426	1.541	0.935	0.998	0.887	0.00E+00
Fstl4	2.086	1.240	0.897	0.966	0.831	0.00E+00
Col4a5	0.959	0.120	0.888	0.628	0.085	0.00E+00
Cadm1	1.092	0.272	0.870	0.559	0.230	0.00E+00
Clstn2	2.271	1.457	0.864	0.983	0.906	0.00E+00
Cpne9	1.171	0.370	0.851	0.826	0.293	0.00E+00
Pde1c	1.800	1.022	0.828	0.893	0.716	0.00E+00
Slit2	0.817	0.039	0.827	0.445	0.027	0.00E+00
Corin	1.762	1.001	0.811	0.924	0.581	0.00E+00
Cdh10	0.858	0.106	0.802	0.466	0.060	0.00E+00
Zbtb20	1.495	0.744	0.801	0.780	0.601	0.00E+00
Col4a6	0.727	0.019	0.758	0.326	0.017	0.00E+00
Car7	0.988	0.294	0.744	0.701	0.276	0.00E+00
Mgat4c	0.822	0.132	0.740	0.458	0.117	0.00E+00
Cntn5	2.236	1.551	0.735	0.863	0.714	0.00E+00
Sntg1	1.973	1.293	0.731	0.891	0.750	0.00E+00
Pigs	0.861	0.190	0.721	0.669	0.170	0.00E+00
Gm28376	1.258	0.608	0.700	0.726	0.436	0.00E+00
Prkcd	0.658	0.022	0.685	0.483	0.018	0.00E+00
Trpc4	0.836	0.205	0.681	0.615	0.171	0.00E+00
Col4a2	0.643	0.014	0.679	0.384	0.012	0.00E+00
Lrp1b	3.765	3.140	0.675	0.999	1.000	0.00E+00
Kctd8	0.654	0.045	0.659	0.278	0.039	0.00E+00
Cntn6	1.939	1.331	0.658	0.947	0.854	0.00E+00
Wscd2	0.793	0.191	0.652	0.630	0.162	0.00E+00
Plcx2	0.605	0.005	0.651	0.360	0.004	0.00E+00
Cacna1d	1.377	0.777	0.651	0.873	0.613	0.00E+00
Slc24a2	1.807	1.218	0.639	0.954	0.842	0.00E+00

Fgf10	0.656	0.069	0.637	0.405	0.047	0.00E+00
Epha7	1.252	0.666	0.636	0.731	0.460	0.00E+00
Tenm2	3.524	2.968	0.605	0.990	0.964	0.00E+00
Slc8a1	1.834	1.291	0.593	0.910	0.851	0.00E+00
Col4a1	0.554	0.014	0.589	0.310	0.013	0.00E+00
Celf3	0.596	0.061	0.585	0.488	0.055	0.00E+00
Unc5d	2.918	2.400	0.568	0.949	0.917	0.00E+00
Gm27199	0.786	0.274	0.562	0.644	0.250	0.00E+00
CT025619.1	2.411	1.910	0.551	0.999	0.987	0.00E+00
Kcnn2	1.065	0.565	0.551	0.702	0.498	0.00E+00
Tmeff2	2.700	2.202	0.548	0.995	0.966	0.00E+00
Ppp2r2b	1.620	1.122	0.547	0.927	0.807	0.00E+00
Rora	3.357	2.859	0.547	1.000	1.000	0.00E+00
Cdh12	2.713	2.229	0.534	0.979	0.930	0.00E+00
Gm20647	1.126	0.652	0.524	0.687	0.434	0.00E+00
Cdh18	5.066	4.604	0.512	1.000	1.000	0.00E+00
Mei4	1.643	1.190	0.503	0.924	0.803	0.00E+00
B3galt5	0.462	0.014	0.498	0.316	0.013	0.00E+00
Ptpn	0.897	0.449	0.497	0.646	0.371	0.00E+00
Rps6ka5	1.777	1.332	0.494	0.949	0.898	0.00E+00
Xkr4	2.288	1.845	0.493	0.991	0.974	0.00E+00
Ntrk3	1.735	1.302	0.484	0.968	0.897	0.00E+00
Kctd12	0.536	0.109	0.476	0.451	0.099	0.00E+00
Ripor2	1.365	0.946	0.469	0.863	0.747	0.00E+00
Slc6a1	0.431	0.018	0.463	0.338	0.015	0.00E+00
Lhfp	0.693	0.281	0.462	0.508	0.246	0.00E+00
Rgs6	0.450	0.042	0.458	0.275	0.039	0.00E+00
Hecw2	2.128	1.721	0.457	0.995	0.978	0.00E+00
Dpp6	1.394	0.991	0.453	0.880	0.755	0.00E+00
Opcml	2.564	2.164	0.450	0.980	0.967	0.00E+00
Ephb2	0.449	0.063	0.437	0.290	0.054	0.00E+00
Rspo3	0.721	0.335	0.436	0.514	0.254	0.00E+00
Pcsk2	0.505	0.119	0.436	0.359	0.105	0.00E+00
Syndig1	3.203	2.820	0.432	1.000	1.000	0.00E+00
Jph1	0.605	0.224	0.431	0.466	0.197	0.00E+00
Ppp3ca	2.363	1.985	0.428	0.999	0.996	0.00E+00
4921534H16Rik	0.769	0.391	0.427	0.587	0.358	0.00E+00
Fam107b	2.316	1.944	0.422	0.994	0.960	0.00E+00
Gng2	0.386	0.016	0.420	0.284	0.014	0.00E+00
Spag5	1.661	1.292	0.419	0.913	0.650	0.00E+00
Arhgap42	0.585	0.217	0.419	0.484	0.196	0.00E+00
Abr	2.134	1.770	0.414	0.992	0.975	0.00E+00
Ahi1	1.620	1.261	0.409	0.945	0.883	0.00E+00
Nrg1	0.766	0.406	0.409	0.559	0.287	0.00E+00
Gm26688	0.411	0.055	0.406	0.330	0.046	0.00E+00
Meg3	4.380	4.028	0.402	1.000	1.000	0.00E+00

Gm26778	0.455	0.103	0.402	0.360	0.092	0.00E+00
Snx21	0.714	0.363	0.401	0.595	0.338	0.00E+00
Arhgef37	1.124	0.775	0.398	0.787	0.620	0.00E+00
Galm	0.395	0.049	0.396	0.280	0.045	0.00E+00
Cntnap5b	3.957	3.618	0.389	1.000	1.000	0.00E+00
Olfm1	0.433	0.095	0.387	0.361	0.086	0.00E+00
Pacs1	0.496	0.161	0.386	0.390	0.138	0.00E+00
Colq	0.348	0.014	0.385	0.289	0.012	0.00E+00
Gnao1	1.899	1.568	0.381	0.978	0.958	0.00E+00
Slc23a2	1.598	1.284	0.364	0.956	0.896	0.00E+00
Tecr	1.555	1.247	0.358	0.958	0.888	0.00E+00
Cacna1c	0.427	0.121	0.356	0.340	0.116	0.00E+00
Plcb3	0.562	0.258	0.354	0.480	0.236	0.00E+00
Mdga2	3.537	3.238	0.349	1.000	1.000	0.00E+00
Kcnc1	0.479	0.184	0.345	0.430	0.170	0.00E+00
Frmd6	0.375	0.085	0.340	0.313	0.077	0.00E+00
Ccdc136	0.378	0.092	0.335	0.335	0.086	0.00E+00
Gabbr2	2.551	2.275	0.326	1.000	0.998	0.00E+00
Strbp	2.185	1.916	0.319	0.997	0.990	0.00E+00
Tfap2a	0.298	0.032	0.316	0.250	0.030	0.00E+00
Nsg2	0.324	0.060	0.314	0.291	0.052	0.00E+00
Zeb2	0.277	0.014	0.313	0.175	0.013	0.00E+00
Hdac9	2.517	2.254	0.313	0.999	0.997	0.00E+00
Nbea	3.042	2.783	0.309	1.000	1.000	0.00E+00
Rph3a	0.255	0.007	0.298	0.187	0.007	0.00E+00
Gnaq	2.103	1.857	0.296	0.997	0.990	0.00E+00
Myo1e	0.254	0.010	0.294	0.165	0.010	0.00E+00
Mast4	2.743	2.503	0.290	1.000	1.000	0.00E+00
Pcdh10	0.258	0.020	0.288	0.209	0.017	0.00E+00
Bmp2k	0.307	0.073	0.284	0.274	0.069	0.00E+00
Kcnip4	3.669	3.445	0.274	1.000	1.000	0.00E+00
Ctnnd2	2.590	2.367	0.273	1.000	1.000	0.00E+00
Gm32219	0.212	0.001	0.260	0.136	0.001	0.00E+00
Trpc7	0.212	0.003	0.259	0.148	0.003	0.00E+00
Ldlrad4	1.195	0.847	0.399	0.827	0.697	2.65E-303
Syt1	0.573	0.079	0.544	0.252	0.066	4.29E-301
Nrxn1	2.126	1.782	0.394	0.977	0.918	2.89E-297
Focad	0.683	0.359	0.373	0.560	0.327	3.41E-296
Fam13b	1.846	1.577	0.319	0.984	0.950	7.46E-293
Sema4d	0.264	0.044	0.270	0.209	0.039	8.00E-289
Sep4	0.597	0.280	0.368	0.488	0.265	1.18E-281
Heatr5a	1.815	1.556	0.310	0.982	0.946	1.20E-279
Pde10a	2.401	2.000	0.451	0.988	0.964	3.55E-277
Arhgap20	2.238	1.983	0.305	0.995	0.990	1.41E-276
Il1rapl2	1.058	0.143	0.965	0.326	0.135	1.06E-275
Ncam1	1.956	1.692	0.315	0.989	0.979	5.09E-275

Tmem132c	0.717	0.326	0.441	0.494	0.281	9.10E-275
Dync1i1	2.461	2.250	0.261	1.000	0.999	6.40E-269
Unc13c	0.558	0.111	0.497	0.281	0.097	2.28E-265
Cntn1	1.763	1.503	0.310	0.971	0.928	4.38E-263
1700047F07Rik	0.507	0.225	0.332	0.405	0.189	2.50E-262
Sh2d4b	0.980	0.618	0.412	0.678	0.509	2.36E-260
Gprin3	0.266	0.053	0.263	0.206	0.045	5.00E-259
Myt1l	0.888	0.554	0.384	0.676	0.501	1.08E-258
Gm15155	1.005	0.627	0.428	0.660	0.466	4.78E-255
4930556G01Rik	0.246	0.022	0.274	0.156	0.020	7.79E-253
Dlx4os	0.492	0.227	0.315	0.431	0.219	1.84E-252
A530046M15Rik	0.435	0.181	0.304	0.362	0.156	5.37E-250
Cemip	0.345	0.105	0.290	0.279	0.096	1.93E-247
Pdzrn4	0.839	0.478	0.411	0.544	0.326	1.49E-246
Ppm1b	1.350	1.061	0.339	0.889	0.821	1.81E-245
Bcl11a	1.576	1.310	0.315	0.942	0.880	2.12E-239
Gm26848	1.661	1.384	0.327	0.944	0.891	4.25E-233
Aplp2	0.781	0.506	0.325	0.650	0.467	4.23E-231
Kcnq3	0.268	0.037	0.280	0.174	0.034	1.83E-229
Galnt9	0.799	0.504	0.345	0.640	0.461	3.09E-228
Synpo2	0.407	0.106	0.351	0.248	0.083	3.86E-226
Csmd3	0.593	0.225	0.418	0.400	0.213	2.47E-225
Hdac7	0.826	0.545	0.331	0.670	0.500	1.59E-223
Tshz2	0.335	0.083	0.302	0.218	0.063	2.52E-221
Gpr176	1.131	0.067	1.114	0.207	0.062	2.58E-220
Ryr1	1.696	1.490	0.256	0.978	0.956	3.79E-216
Slc12a5	1.174	0.917	0.307	0.856	0.759	1.79E-214
Pcp2	2.795	2.572	0.273	0.999	0.998	4.78E-214
Sez6l	1.076	0.775	0.351	0.758	0.634	2.13E-213
Epha6	2.569	2.363	0.256	0.999	0.999	9.04E-213
Arhgap15	0.611	0.335	0.326	0.482	0.283	2.06E-212
Car10	0.427	0.082	0.395	0.219	0.069	7.39E-211
Asic2	1.422	1.114	0.359	0.814	0.676	9.52E-211
Gm26883	0.283	0.060	0.273	0.180	0.042	2.44E-208
Ppard	0.715	0.443	0.322	0.596	0.417	5.90E-207
Gm47710	1.326	0.989	0.387	0.822	0.727	7.63E-207
Rims2	1.973	1.764	0.259	0.991	0.982	7.91E-207
Gm47352	0.808	0.502	0.356	0.589	0.401	7.33E-204
Plcx3	0.539	0.211	0.378	0.336	0.158	2.12E-203
Apba1	1.460	1.207	0.302	0.923	0.874	5.36E-203
Larp1	1.262	1.025	0.287	0.888	0.814	2.09E-200
Spock1	0.905	0.550	0.405	0.596	0.414	4.81E-200
Cntn4	2.327	1.958	0.420	0.945	0.941	5.42E-196
Podxl2	0.723	0.463	0.311	0.601	0.429	3.91E-194
Ppp1r14b	0.589	0.347	0.291	0.510	0.322	1.15E-192
Kif26b	0.437	0.195	0.292	0.353	0.180	5.15E-185

Zfand5	1.068	0.811	0.307	0.795	0.699	8.15E-185
A230057D06Rik	1.421	1.108	0.363	0.870	0.799	1.36E-183
Ptchd1	0.641	0.388	0.303	0.520	0.333	1.75E-182
Arl15	1.449	1.195	0.304	0.909	0.859	6.91E-180
Phf1	0.501	0.279	0.272	0.450	0.270	8.39E-179
Ablim3	0.589	0.343	0.296	0.485	0.303	7.13E-178
Gpr158	0.955	0.580	0.425	0.609	0.486	1.67E-175
Ryr2	1.139	0.894	0.295	0.825	0.728	1.50E-174
Fstl5	0.276	0.065	0.261	0.192	0.062	8.57E-173
Dnah6	1.126	0.871	0.304	0.800	0.718	1.17E-171
Slc4a3	0.671	0.444	0.277	0.587	0.416	4.18E-171
Osbpl9	1.219	1.007	0.262	0.872	0.799	6.56E-171
Rnf121	0.556	0.292	0.314	0.444	0.276	1.03E-169
Rrbp1	0.745	0.437	0.359	0.562	0.410	5.18E-169
Fndc3b	1.025	0.767	0.308	0.760	0.660	1.47E-167
Fhod3	1.191	0.939	0.302	0.833	0.752	2.87E-163
Fut8	1.426	1.200	0.276	0.917	0.879	1.32E-162
Lhx5	0.572	0.351	0.271	0.484	0.308	1.48E-160
Fam19a2	0.606	0.218	0.438	0.277	0.132	2.83E-159
Gnal	1.248	1.018	0.280	0.848	0.769	2.37E-158
Pdzrn3	0.598	0.321	0.327	0.398	0.230	3.19E-157
AC149090.1	1.857	1.635	0.272	0.933	0.923	2.22E-154
Pvt1	0.931	0.685	0.296	0.709	0.591	3.26E-154
Hecw1	1.427	1.206	0.271	0.909	0.863	9.26E-154
Sfxn5	1.112	0.886	0.276	0.813	0.730	4.39E-153
Sh3d19	1.551	1.342	0.259	0.941	0.907	4.79E-153
Ccdc112	0.474	0.271	0.253	0.412	0.247	1.34E-148
Eps8l2	0.623	0.414	0.259	0.540	0.377	3.72E-145
Pcp4	1.040	0.803	0.287	0.767	0.666	1.12E-144
4930488L21Rik	0.522	0.288	0.284	0.418	0.260	1.80E-144
Camk4	1.035	0.807	0.278	0.766	0.663	2.16E-142
Gm4681	0.862	0.488	0.425	0.539	0.413	1.29E-141
St6galnac5	0.292	0.091	0.251	0.204	0.082	1.01E-138
Gm45645	0.463	0.209	0.304	0.330	0.185	7.85E-138
Gng13	0.718	0.498	0.270	0.583	0.437	8.74E-137
Mmp24	1.068	0.865	0.253	0.805	0.730	6.64E-134
Tspan14	0.707	0.487	0.270	0.588	0.448	2.97E-133
Il22	0.870	0.580	0.340	0.603	0.483	5.26E-132
Grb14	0.769	0.538	0.282	0.604	0.468	4.20E-130
Tmem132cos	0.443	0.205	0.287	0.312	0.172	1.11E-129
Gm28153	1.139	0.803	0.386	0.657	0.548	1.29E-128
Zmynd11	0.690	0.487	0.254	0.594	0.456	5.21E-128
Cdh11	0.966	0.692	0.325	0.652	0.554	3.46E-123
Kif5c	1.084	0.883	0.252	0.814	0.747	3.54E-122
Tenm3	2.040	1.516	0.574	0.750	0.673	6.86E-121
Man1a	1.220	1.004	0.266	0.817	0.748	1.18E-117

Gm37240	1.800	1.575	0.275	0.967	0.952	4.17E-116
Sumf1	0.674	0.464	0.260	0.556	0.423	4.59E-114
AC163354.1	1.734	1.522	0.261	0.940	0.893	1.92E-111
Ankrd6	0.879	0.278	0.651	0.344	0.244	3.02E-109
Hs6st3	0.955	0.443	0.562	0.370	0.247	3.60E-107
Fam117a	1.220	0.926	0.344	0.730	0.656	1.11E-106
Ankrd44	0.698	0.491	0.257	0.567	0.442	7.97E-105
Ttll4	1.205	0.990	0.265	0.831	0.797	3.86E-104
Dlc1	1.461	0.837	0.674	0.638	0.616	2.88E-98
Itifb	1.381	1.163	0.268	0.837	0.820	5.17E-95
Gm45904	0.625	0.256	0.420	0.276	0.193	1.63E-59
Eri3	0.824	0.546	0.328	0.528	0.450	8.04E-57
A930015D03Rik	1.354	0.867	0.537	0.762	0.732	2.78E-53
Gria1	2.154	1.940	0.263	0.981	0.990	1.44E-46
Nav2	0.507	0.299	0.259	0.328	0.257	7.18E-41
4930555F03Rik	0.518	0.182	0.387	0.170	0.107	9.65E-41
Ipp	0.803	0.566	0.286	0.336	0.255	1.85E-37
Stxbp5l	0.768	0.563	0.255	0.524	0.478	3.05E-34
Gm30382	0.865	0.655	0.260	0.483	0.442	1.02E-23
9630028H03Rik	0.635	2.674	-2.089	0.972	0.404	0.00E+00
Plcb1	1.469	3.027	-1.608	0.998	0.748	0.00E+00
Plcb4	1.497	2.807	-1.360	1.000	0.833	0.00E+00
Ebf2	0.804	2.086	-1.332	0.974	0.451	0.00E+00
Prkca	0.814	1.938	-1.174	0.985	0.542	0.00E+00
Gm14211	0.565	1.670	-1.155	0.938	0.415	0.00E+00
Etl4	2.779	3.772	-1.043	1.000	0.986	0.00E+00
Zfpm2	0.665	1.621	-1.005	0.947	0.423	0.00E+00
Sv2c	0.578	1.518	-0.990	0.879	0.361	0.00E+00
Pcdh7	0.470	1.365	-0.946	0.841	0.285	0.00E+00
Grin2a	0.038	0.917	-0.930	0.453	0.031	0.00E+00
4930438E09Rik	0.280	1.138	-0.908	0.765	0.205	0.00E+00
Ano3	0.343	1.188	-0.895	0.814	0.233	0.00E+00
Lhfp13	1.526	2.370	-0.894	0.999	0.896	0.00E+00
Far2	1.328	2.168	-0.890	0.996	0.846	0.00E+00
Brinp1	0.504	1.341	-0.887	0.880	0.355	0.00E+00
Tmtc2	0.802	1.636	-0.884	0.913	0.532	0.00E+00
Rgs8	1.116	1.901	-0.835	0.990	0.712	0.00E+00
Gm14033	2.013	2.778	-0.815	0.998	0.881	0.00E+00
Lsamp	2.837	3.586	-0.799	1.000	0.958	0.00E+00
Rbfox1	3.041	3.782	-0.791	1.000	1.000	0.00E+00
Egfem1	1.524	2.243	-0.769	0.862	0.527	0.00E+00
Kcnh7	1.870	2.578	-0.758	1.000	0.937	0.00E+00
Sgcz	2.575	3.270	-0.746	1.000	0.983	0.00E+00
Kctd16	0.156	0.804	-0.698	0.494	0.127	0.00E+00
Dgkb	1.662	2.308	-0.696	0.991	0.725	0.00E+00
Sphkap	1.868	2.508	-0.690	0.999	0.942	0.00E+00

Trabd2b	1.146	1.785	-0.688	0.963	0.619	0.00E+00
Adamts3	0.985	1.615	-0.680	0.961	0.710	0.00E+00
Gm17171	0.442	1.067	-0.675	0.765	0.350	0.00E+00
Sdk1	0.490	1.097	-0.657	0.749	0.361	0.00E+00
Sema3a	1.625	2.230	-0.655	0.942	0.815	0.00E+00
Far2os1	0.280	0.869	-0.639	0.651	0.244	0.00E+00
Abhd3	0.848	1.432	-0.633	0.918	0.627	0.00E+00
Klhl1	0.584	1.154	-0.620	0.758	0.402	0.00E+00
Chst8	0.487	1.049	-0.612	0.786	0.346	0.00E+00
A330015K06Rik	2.314	2.874	-0.610	0.997	0.984	0.00E+00
Garnl3	3.056	3.600	-0.595	1.000	0.985	0.00E+00
Kcnd2	2.166	2.706	-0.590	0.998	0.942	0.00E+00
Ppm1l	0.776	1.315	-0.590	0.890	0.604	0.00E+00
Kitl	2.004	2.529	-0.574	0.999	0.977	0.00E+00
Kcnp1	2.957	3.478	-0.571	1.000	0.978	0.00E+00
4930545L23Rik	0.160	0.667	-0.557	0.499	0.129	0.00E+00
1700109K24Rik	0.556	1.060	-0.554	0.752	0.453	0.00E+00
Lrrc4c	1.691	2.186	-0.545	0.970	0.840	0.00E+00
Efna5	1.215	1.706	-0.541	0.864	0.680	0.00E+00
Xylt1	0.359	0.840	-0.531	0.679	0.310	0.00E+00
Ntng1	0.761	1.240	-0.529	0.828	0.518	0.00E+00
Muc3a	0.914	1.389	-0.525	0.905	0.570	0.00E+00
Lingo2	2.115	2.589	-0.525	0.988	0.857	0.00E+00
Scn9a	0.828	1.302	-0.524	0.841	0.595	0.00E+00
Pard3b	0.501	0.970	-0.519	0.722	0.370	0.00E+00
Efr3a	1.504	1.970	-0.517	0.983	0.926	0.00E+00
Cntnap2	2.925	3.386	-0.511	1.000	0.978	0.00E+00
Samd8	0.582	1.041	-0.508	0.807	0.476	0.00E+00
1700111E14Rik	1.292	1.742	-0.500	0.942	0.835	0.00E+00
Map2	0.791	1.234	-0.493	0.884	0.602	0.00E+00
Cthrc1	0.371	0.814	-0.493	0.665	0.303	0.00E+00
Nrg3os	0.962	1.399	-0.488	0.890	0.643	0.00E+00
Nrg3	2.544	2.981	-0.487	1.000	0.973	0.00E+00
Sgpp2	0.268	0.702	-0.483	0.582	0.230	0.00E+00
Cadm2	2.467	2.889	-0.472	0.999	0.911	0.00E+00
St8sia5	0.531	0.952	-0.471	0.782	0.448	0.00E+00
Gnai1	0.827	1.238	-0.461	0.853	0.580	0.00E+00
Col18a1	2.225	2.635	-0.461	1.000	0.996	0.00E+00
Frmpd3	1.164	1.570	-0.456	0.872	0.659	0.00E+00
Pak7	0.526	0.925	-0.449	0.705	0.416	0.00E+00
4930587E11Rik	1.441	1.835	-0.443	0.888	0.719	0.00E+00
Gm20642	0.932	1.314	-0.432	0.883	0.657	0.00E+00
Paxbp1	3.223	3.604	-0.430	1.000	1.000	0.00E+00
Manba	0.294	0.673	-0.429	0.569	0.257	0.00E+00
Gm20635	1.460	1.839	-0.429	0.944	0.875	0.00E+00
Maml3	0.453	0.829	-0.426	0.652	0.373	0.00E+00

Galnt17	0.412	0.787	-0.424	0.640	0.351	0.00E+00
Gm44812	0.281	0.654	-0.423	0.500	0.242	0.00E+00
Lsmem1	0.268	0.638	-0.420	0.557	0.238	0.00E+00
Clic6	1.003	1.367	-0.414	0.863	0.575	0.00E+00
Kcnab1	2.696	3.056	-0.410	1.000	0.998	0.00E+00
Tiam2	0.304	0.663	-0.410	0.536	0.268	0.00E+00
Il1rap1	3.108	3.467	-0.409	1.000	0.999	0.00E+00
Ppargc1a	0.990	1.349	-0.409	0.897	0.716	0.00E+00
Gpc6	2.672	3.027	-0.405	1.000	1.000	0.00E+00
Dgki	2.314	2.661	-0.396	1.000	0.998	0.00E+00
Mctp1	0.575	0.921	-0.396	0.694	0.435	0.00E+00
Gm13629	1.075	1.420	-0.394	0.905	0.742	0.00E+00
Kcnj3	1.324	1.665	-0.392	0.936	0.817	0.00E+00
Alpk2	0.254	0.596	-0.392	0.488	0.217	0.00E+00
Ano5	0.157	0.493	-0.386	0.380	0.122	0.00E+00
Pitpnm2	0.288	0.623	-0.386	0.543	0.264	0.00E+00
Sptan1	2.170	2.505	-0.385	0.999	0.996	0.00E+00
Dnm3	1.910	2.243	-0.383	0.999	0.992	0.00E+00
Adcy8	0.435	0.768	-0.383	0.601	0.345	0.00E+00
Gm35188	3.310	3.639	-0.379	1.000	0.999	0.00E+00
Kcnma1	3.780	4.108	-0.377	1.000	1.000	0.00E+00
Lrrtm4	2.395	2.718	-0.373	0.987	0.838	0.00E+00
Bicc1	0.272	0.594	-0.372	0.504	0.235	0.00E+00
Lpgat1	1.302	1.624	-0.372	0.960	0.865	0.00E+00
Pcsk6	1.924	2.244	-0.370	0.998	0.985	0.00E+00
Lrp8	1.166	1.486	-0.369	0.949	0.831	0.00E+00
Epb41l2	0.070	0.389	-0.369	0.355	0.065	0.00E+00
Mbnl2	1.767	2.081	-0.364	0.998	0.986	0.00E+00
Gm48163	0.131	0.444	-0.363	0.375	0.115	0.00E+00
Ccar1	1.718	2.030	-0.362	0.994	0.971	0.00E+00
Dscam	1.719	2.027	-0.358	0.994	0.948	0.00E+00
Sorbs2	0.563	0.866	-0.353	0.646	0.371	0.00E+00
Esrrb	0.210	0.512	-0.352	0.444	0.183	0.00E+00
Agbl4	1.479	1.781	-0.352	0.973	0.876	0.00E+00
Kcng4	0.075	0.373	-0.348	0.350	0.070	0.00E+00
Icmt	0.650	0.947	-0.346	0.782	0.530	0.00E+00
Itga1	0.223	0.519	-0.346	0.449	0.192	0.00E+00
Hnrnpm	0.843	1.137	-0.344	0.868	0.687	0.00E+00
Sfmbt2	0.144	0.438	-0.344	0.383	0.128	0.00E+00
Carmil1	0.500	0.793	-0.342	0.691	0.445	0.00E+00
Dgkg	2.215	2.501	-0.335	1.000	0.995	0.00E+00
Nrxn3	3.880	4.164	-0.334	1.000	1.000	0.00E+00
Nr2f2	0.210	0.491	-0.331	0.432	0.186	0.00E+00
Opn3	0.125	0.407	-0.331	0.341	0.109	0.00E+00
Grip1	2.826	3.105	-0.329	1.000	1.000	0.00E+00
Pde9a	1.540	1.819	-0.329	0.982	0.912	0.00E+00

Ccdc172	0.055	0.333	-0.328	0.232	0.042	0.00E+00
Arap2	1.714	1.983	-0.319	0.992	0.977	0.00E+00
Cadps	2.394	2.662	-0.318	1.000	1.000	0.00E+00
Pcdh9	3.976	4.244	-0.317	1.000	1.000	0.00E+00
Rbfox2	1.536	1.800	-0.314	0.988	0.954	0.00E+00
Pard3bos1	0.105	0.368	-0.313	0.296	0.087	0.00E+00
Cacna2d2	1.754	2.011	-0.306	0.996	0.983	0.00E+00
Fam135b	1.745	2.002	-0.306	0.993	0.978	0.00E+00
Galnt13	2.407	2.657	-0.300	1.000	1.000	0.00E+00
Dab1	3.745	3.990	-0.295	1.000	1.000	0.00E+00
Fgf12	2.576	2.818	-0.292	1.000	1.000	0.00E+00
Gm6878	0.042	0.282	-0.290	0.255	0.038	0.00E+00
Gm13362	0.106	0.346	-0.289	0.307	0.096	0.00E+00
Gm28410	0.078	0.302	-0.274	0.270	0.071	0.00E+00
Dpp10	3.836	4.057	-0.272	1.000	1.000	0.00E+00
Car8	3.386	3.601	-0.265	1.000	1.000	0.00E+00
Gm1	3.625	3.833	-0.258	1.000	1.000	0.00E+00
Elovl5	0.383	0.689	-0.356	0.579	0.343	1.91E-300
Diaph2	0.931	1.242	-0.361	0.866	0.679	1.77E-298
Rgs7bp	1.888	2.132	-0.294	0.996	0.982	9.87E-294
4930567K20Rik	2.072	2.373	-0.351	0.989	0.967	1.66E-293
Casq2	1.427	1.695	-0.319	0.970	0.917	9.63E-288
Gm3294	0.201	0.455	-0.303	0.416	0.186	6.85E-287
4930428E07Rik	0.132	0.389	-0.307	0.322	0.113	2.46E-286
Gm26936	0.635	0.957	-0.372	0.729	0.518	1.66E-283
Stim1	1.490	1.753	-0.313	0.973	0.928	1.43E-281
Nptn	1.821	2.043	-0.271	0.996	0.988	4.16E-279
Gm13417	0.229	0.508	-0.329	0.422	0.198	5.73E-273
Cds1	0.668	0.933	-0.314	0.776	0.575	1.30E-269
Kcna1	0.739	1.011	-0.322	0.813	0.627	3.17E-268
Gm29114	0.310	0.592	-0.331	0.503	0.277	1.57E-265
Stmn4	0.226	0.467	-0.291	0.426	0.203	2.04E-263
Ano4	1.283	1.546	-0.313	0.946	0.846	3.86E-263
Sorbs2os	0.374	0.670	-0.346	0.495	0.262	8.71E-263
Grip1os2	0.693	0.995	-0.352	0.751	0.553	5.44E-258
Igf1	0.385	0.677	-0.342	0.547	0.325	4.27E-256
Gabrb2	1.865	2.089	-0.274	0.995	0.984	1.45E-254
Scin	0.098	0.303	-0.255	0.277	0.091	6.36E-254
Wdr17	2.111	2.421	-0.360	0.988	0.964	4.21E-253
Fign	0.568	0.855	-0.337	0.671	0.448	9.32E-251
Rapgef5	0.532	0.795	-0.314	0.676	0.459	5.99E-250
Fat3	0.491	0.770	-0.329	0.621	0.390	1.71E-249
Rab31	0.601	0.856	-0.305	0.700	0.480	1.95E-248
Plppr5	0.745	1.012	-0.318	0.772	0.553	1.01E-246
Kcnmb1	0.342	0.598	-0.306	0.531	0.312	1.45E-241
Gm28750	0.118	0.340	-0.272	0.287	0.103	3.79E-240

Rreb1	1.703	1.922	-0.269	0.990	0.973	1.47E-238
Cntn3	2.698	2.911	-0.263	1.000	0.990	6.85E-237
Gm26531	0.857	1.176	-0.369	0.799	0.638	7.67E-234
Gm44532	0.151	0.365	-0.265	0.334	0.140	9.73E-234
Fras1	0.829	1.086	-0.307	0.827	0.638	3.18E-232
Pih1h3b	0.566	0.838	-0.323	0.612	0.383	1.05E-230
Svil	1.404	1.642	-0.288	0.966	0.914	6.53E-228
Cyth3	1.251	1.505	-0.304	0.934	0.833	4.95E-226
Calm2	1.896	2.105	-0.259	0.996	0.984	3.02E-224
Ghr	0.562	0.821	-0.309	0.668	0.454	2.35E-222
Ikzf2	0.702	0.954	-0.303	0.762	0.569	2.86E-222
Gm20319	0.508	0.774	-0.316	0.625	0.416	1.06E-221
Ehbp1	0.962	1.218	-0.306	0.882	0.752	1.37E-219
Gm21798	0.265	0.546	-0.331	0.397	0.197	1.65E-219
Tmem64	0.246	0.484	-0.289	0.419	0.219	8.86E-218
Gab2	0.667	0.930	-0.313	0.717	0.517	2.32E-216
Gm12353	1.169	1.452	-0.333	0.901	0.793	2.55E-216
Lrp8os2	0.391	0.644	-0.303	0.550	0.348	4.64E-214
Sema7a	0.165	0.372	-0.257	0.344	0.157	4.77E-212
Gm13944	1.395	1.647	-0.301	0.953	0.874	1.09E-209
Gm38304	0.571	0.828	-0.307	0.677	0.483	2.04E-208
Dock2	0.169	0.385	-0.266	0.338	0.156	8.00E-206
March3	0.348	0.593	-0.296	0.500	0.300	5.75E-205
Cdh13	0.114	0.314	-0.250	0.269	0.103	6.92E-205
Zfp385b	2.261	2.478	-0.267	0.998	0.996	3.56E-204
Flnb	1.104	1.340	-0.286	0.920	0.816	1.88E-202
Il1rap	1.325	1.548	-0.273	0.958	0.890	2.31E-201
Etfa	0.863	1.103	-0.290	0.835	0.687	7.85E-195
Sufu	0.362	0.591	-0.279	0.516	0.320	1.80E-194
Cul4b	1.695	1.949	-0.304	0.930	0.824	1.58E-193
Cntnap5a	1.708	1.988	-0.330	0.944	0.865	1.31E-192
Zfp536	0.330	0.548	-0.268	0.475	0.283	7.45E-185
B3glct	0.730	0.943	-0.264	0.773	0.579	1.55E-184
Plekha5	0.831	1.055	-0.274	0.825	0.660	1.16E-182
Gm48421	0.110	0.368	-0.309	0.216	0.073	3.24E-182
Tmem255a	0.624	0.857	-0.283	0.702	0.521	1.08E-181
Gm44071	1.921	2.124	-0.253	0.987	0.980	1.94E-180
Smarca1	0.432	0.698	-0.316	0.542	0.362	8.66E-180
Gm15046	0.764	0.990	-0.275	0.723	0.516	1.36E-175
Xrcc6	1.102	1.349	-0.298	0.889	0.785	7.64E-174
4930445B16Rik	0.188	0.417	-0.280	0.304	0.140	1.03E-173
Phactr1	0.514	0.740	-0.276	0.594	0.402	8.89E-171
Bcan	0.362	0.565	-0.253	0.520	0.339	3.15E-165
4930567K12Rik	1.055	1.300	-0.295	0.865	0.748	9.46E-158
Agfg1	0.979	1.182	-0.254	0.874	0.748	2.62E-155
Lpp	0.947	1.150	-0.253	0.854	0.717	3.26E-155

Gm15083	0.710	0.950	-0.290	0.699	0.532	1.88E-153
Ncam2	1.718	1.927	-0.260	0.961	0.863	2.02E-152
3300002A11Rik	0.545	0.916	-0.422	0.395	0.230	4.80E-152
Mfhas1	1.230	1.435	-0.255	0.928	0.857	3.91E-151
Snrpn	0.376	0.593	-0.267	0.475	0.303	3.29E-148
1700080N15Rik	0.778	0.987	-0.259	0.769	0.618	2.65E-143
Efcab14	0.431	0.660	-0.279	0.534	0.379	6.09E-141
Gm30313	1.067	1.270	-0.253	0.884	0.784	1.33E-140
Esrrg	0.630	0.837	-0.257	0.664	0.496	4.97E-139
1110019D14Rik	0.682	0.922	-0.290	0.661	0.499	1.01E-136
Cmya5	0.570	0.774	-0.255	0.630	0.462	4.96E-136
Pcsk1	0.382	0.600	-0.268	0.438	0.271	9.68E-134
March4	0.575	0.778	-0.253	0.632	0.468	1.88E-132
Ints6	1.020	1.258	-0.288	0.852	0.742	3.35E-132
Eif2ak3	0.397	0.692	-0.345	0.460	0.311	5.50E-132
Gm26713	1.982	2.208	-0.276	0.956	0.937	1.51E-110
Nxph1	0.148	0.396	-0.298	0.213	0.104	1.34E-104
Cdh8	0.357	0.572	-0.265	0.310	0.213	2.81E-63

Supplementary Table 4.
Module significant genes

Blue	Brown	Black	Red	Yellow	Green	Turquoise
Abhd15	Arglu1	Alkbh1	Arl15	Ablim2	Abhd3	Ablim1
Arhgap20os	Atp1b1	Arl3	Cacna1d	Abr	Adamts3	Adam23
Aste1	Atp5a1	Atp2c1	Clstn2	Apba1	Calm2	Adgrl2
Atp5o	Atp6ap2	Birc2	Cntn4	Arhgef37	Ccar1	Aff3
B3galt2	Atp6v0b	Cnot3	Cntn5	Astn1	Cck	Agap1
Brip1os	AY036118	Dalrd3	Col4a1	Bcl11a	Cyth3	Akt3
Cd180	BC031181	Dnajc3	Col4a5	Cpne8	Dgkb	Ank1
Creb3l2	Brd9	Errfil	Corin	Dach1	Egfm1	Ankrd17
Dnajc19	Bsg	Etv5	Dgkh	Dym	Emc7	Arfgef3
Drg1	C1qtnf4	Fam117a	Dpp6	Dync1i1	Enah	Arhgap32
Echdc1	Ccdc107	Fcor	Ebf2	Edil3	Etl4	Arhgef33
Far1os	Ccdc107	Fos	Erc2	Eil2	Garnl3	Arid1b
Fbn1	Cd81	Gabarapl2	Far2os1	Elmo1	Ints6	Arid5b
Fgfr2	Ckb	Hsp90b1	Fndc3b	Fam107b	Kcnip1	Atp2a2
Flrt3	Cmss1	Hspa8	Fstl4	Fam155a	Kcnj3	Atp2b2
Fndc9	Cox7b	Hsph1	Grb14	Frmd5	Kitl	Atp8a2
Frmpd3	Cox7c	Hunk	Hs6st3	Gabbr2	Klhl1	Atrnl1
Ggact	Crebzf	Ipo5	Itga6	Gfod1	Lingo2	B3galnt2
Grip1os2	Cst3	Lgr5	Ldlrad4	Gm20635	Lonrf3	B4galnt3
Grm3	Dnaja2	Lin28b	Mpped2	Gnao1	Lsamp	Bcas3
Grm5	Erg28	Mapre2	Nrxn1	Gnaq	Ncam2	Btbd9
Igf2bp3	Erp29	Mpzl1	Ntrk3	Gng13	Nrg3	C78859
Igf2r	Fam173a	Pcsk1	Ppp2r2b	Gria1	Pbx3	Cacnb4
Itgbl1	Fam69b	Pde10a	Ptpn	Grik1	Pcdh7	Camta1
Kansl1l	Gde1	Pdia3	Rgs7	Hdac9	Pde9a	Ccdc85a
Kcnq1	H2-D1	Prickle1	Rora	Herc1	Plcb4	Cdkal1
Leng9	Hnrnp3	Ptpn1	Rps6ka5	Ift57	Plppr5	Clasp1
Loxl2	Hspa5	Rhobtb2	Slc1a6	Il22	Prkca	Clec16a
Lrp8os2	Il1f1b	Ring1	Slc24a2	Intu	Rgs8	Clnn
Lrrc4	Itm2b	Sel1l	Slc8a1	Kcnq1ot1	Sdk1	Cnksr2
Lysmd4	Lamp1	Serinc2	Sorcs2	Mast4	Sema3a	Cntnap5a
MacroD2os1	Lrpap1	Slc38a2	Synpo2	Nbea	Slc31a2	Coro2b
Mad1l1	Lsm7	St13	Tenm1	Nell1	Snrpn	Cpeb1
Malat1	Lynx1	Stx18	Tenm2	Nwd2	Sphkap	Cpeb4
Nell1os	Manf	Taf1d	Tmeff2	Pdzrn3	Sv2c	Cul4b
Nme7	Mettl23	Tanc1	Tmem132c	Phactr2	Tiam2	Dab1
Nr6a1os	Mif2	Tex261	Unc5d	Pitpm3	Tm2d1	Dagla
Nrg3os	Mrps10	Usp29		Ppm1b	Tmem132cos	Ddx17
Nrk	Nap1l5	Wls		Prmt8	Tmtc2	Dgke
Nudt5	Ndufaf4	Wnk3		Sez6l	Trabd2b	Dgkg

P2ry12	Nkain2			Trim9	Trim35	Dgki
P2ry14	Nsg1			Tspan5	Zfpm2	Dgkz
Pet100	Pcp2			Ubash3b		Dnm1
Pih1h3b	Pcp4			Unc5c		Dock9
Ptprd	Pcsk1n			Usp15		Ehbp1
Rsf1os1	Pebp1			Usp24		Eml5
Scn9a	Pla2g3			Vav3		Epb41l3
Slc24a5	Ppib			Zfp804a		Fam214a
Sos1	Ppp1r14b					Fbxl17
Sox5os2	Preli3a					Fgd3
Sox5os4	Prpf4b					Flnb
Strbp	Psmc6					Fmn2
Sycp2	Rnf25					Fras1
Tifa	Rpl6					Fryl
Tmem126a	Rtn4					Fto
Tmem243	Scn1b					Gabrb1
Ube3a	Selenok					Gabrb2
Usp50	Selenom					Gpm6a
Wdr17	Selenos					Grik4
Xlr5a	Serf2					Grip1
Xrcc6	Sltm					Grm1
	Snhg11					Gtdc1
	Snhg20					Hpcal1
	Snw1					Ide
	Spag5					Igf1r
	Srrm2					Inpp5a
	Srsf11					Itpr1
	Srsf2					Kalrn
	Srsf7					Kcnab1
	Ssbp4					Kcnd3
	Ssc4d					Kcnma1
	Tecr					Kif1a
	Timmdc1					Ldlrad3
	Tmem191c					Lrba
	Tspan2					Lrrfip1
	Zc3h15					Mapk10
	Zcchc18					Med12l
						Mid1
						Mpdz
						Msi2
						Mtcl1
						Mtss1

						Mtus2
						Myh10
						Ncoa2
						Nell2
						Nfasc
						Nr3c2
						Nup93
						Nxpe4
						Pbx1
						Pde5a
						Pfkip
						Plekha5
						Plxdc1
						Ppp1r12b
						Psd2
						Psd3
						Ptpn13
						Ptprm
						Ralgapa2
						Ralgps1
						Rasal2
						Rbfox2
						Rbms1
						Rbms3
						Reps1
						Rgs7bp
						Rictor
						Robo2
						Rps6kc1
						Sestd1
						Shank2
						Shc4
						Slc35f1
						Sorl1
						Sox5
						Srgap1
						Srrm3
						Stac
						Stim1
						Strip2
						Susd4
						Syne1

						Syt14
						Tln2
						Tmem132d
						Tmem178b
						Tmem267
						Tmtc1
						Tnik
						Trio
						Tspan11
						Ttc7b
						Ttl5
						Tr
						Unc79
						Vps41
						Washc2
						Wwox
						Zfand4
						Zfp407
						Zzef1

Supplementary Table 5.**Sequences of primer sets used in genomic DNA PCR**

Gene	Forward primer	Reverse primer
<i>Fgfr2</i>	AGAAGAAGTGTGCAGATGGGA	AGGCCTCCCACTTAAAGACC
<i>gRNA1-off 1</i>	GGAAAGACAGGGACAGGAGGC	CCCTGGTCTTACTCAGTGGG
<i>gRNA1-off 2</i>	GCTCTGTTTCAGAAGAGGGGTG	GATGATTCTAGCTTGTGTCAAG
<i>gRNA1-off 3</i>	TGGGCTGCATAGTGTAGCTGG	GAGCTCGTCGAGTTCTTCCAA
<i>gRNA1-off 4</i>	AGACATAACACCATACCCCTGA	GGCCTGTACTTACTGCATCAG
<i>gRNA1-off 5</i>	GCGTTTTCTAGTCAGCCAAAGG	GTAGAAAGACAGCTAGTGTTCCG
<i>gRNA2-off 1</i>	GCCAGAGGGGTCCTCATTTAC	AGAGTTCTGTAGCACCTCCGT
<i>gRNA2-off 2</i>	TGGGAATCCGTTAGGTTGGC	AGATGGGTACATGGGGGAGC
<i>gRNA2-off 3</i>	AAGCCAATGCTGGGCTACTC	TCCTCAAGCTTTCATGGCTG
<i>gRNA2-off 4</i>	AAACCATTTGCTTCATTCGTGC	CCAGCGGGCTGTACTTTAACT
<i>gRNA2-off 5</i>	TCTTGCGCAATGCTTGCTAAC	TTACAGAGTACCAAAGCCCC

Supplementary Table 6.
Sequences of primer sets used in qPCR

Gene	Forward primer	Reverse primer
<i>Gapdh</i>	GGGTGTGAACCACGAGAAATA	CTGTGGTCATGAGCCCTTC
<i>Fos</i>	GGGAGGACCTTACCTGTTCCG	AGGCCAGATGTGGATGCTT
<i>FosB</i>	CGAGAAGAGACACTTACCCCA	GTTTCCGCCTGAAGTCGATCT
<i>Npas4</i>	AGGGTTTGCTGATGAGTTGC	CCCCTCCACTTCCATCTTC

Supplementary Video.

Associative learning. Startle response was induced by tactile stimulation of the nose of a head-fixed mouse on a treadmill. Backward locomotion was induced within 20 ms of triggering the tactile stimulus. When a light-emitting diode (LED) used as the conditioned stimulus (CS) was repeatedly paired with the tactile stimulus as the unconditioned stimulus (US), animals learned to move backward in response to the LED cue over several days of training. Naïve mice failed to move backward before the US.