

**Supplementary information****TableS2. Differentially expressed genes among major cell type of macaque hippocampus**

p_val	avg_log2FC	pct.1	pct.2	p_val_adj	cluster	gene
0	1.70999213	0.948	0.414	0	CA1	HECW1
0	1.61529988	0.974	0.5	0	CA1	LDB2
0	1.57444202	0.993	0.874	0	CA1	PHACTR1
0	1.56579405	0.811	0.148	0	CA1	SATB2
0	1.54888697	0.943	0.481	0	CA1	PRKCB
0	1.52477163	0.445	0.103	0	CA1	POU6F2
0	1.51974967	0.565	0.169	0	CA1	FSTL4
0	1.48873407	0.937	0.598	0	CA1	RYR3
0	1.44232636	0.99	0.859	0	CA1	KCNIP4
0	1.42668767	0.733	0.285	0	CA1	TMEM132D
0	1.41445514	0.811	0.385	0	CA1	CADPS2
0	1.40579874	0.836	0.287	0	CA1	SYN3
0	1.39489218	0.71	0.249	0	CA1	KCNH7
0	1.3258871	0.831	0.315	0	CA1	CNTN3
0	1.29354527	0.986	0.703	0	CA1	SLC8A1
0	1.23436944	0.558	0.171	0	CA1	SNTG2
0	1.23222953	0.739	0.229	0	CA1	MLIP
0	1.21323995	0.911	0.541	0	CA1	CNTNAP5
0	1.2105492	0.985	0.679	0	CA1	ASIC2
0	1.20477343	0.944	0.5	0	CA1	SLC35F3
0	1.18458616	0.988	0.691	0	CA1	ARPP21
0	1.17131502	0.914	0.462	0	CA1	SORBS2
0	1.16406892	0.587	0.293	0	CA1	CCBE1
0	1.1634118	0.932	0.687	0	CA1	ROBO2
0	1.16332604	0.562	0.224	0	CA1	TSHZ2
0	1.15835492	0.933	0.438	0	CA1	PTPRR
0	1.15389102	0.921	0.385	0	CA1	CDH18
0	1.13011872	0.997	0.867	0	CA1	OPCML
0	1.12720204	0.971	0.664	0	CA1	NRG1
0	1.12615297	0.88	0.264	0	CA1	SV2B
0	1.11088818	0.827	0.367	0	CA1	KCNN2
0	1.1030183	0.808	0.291	0	CA1	LMO4
0	1.09199297	0.599	0.195	0	CA1	EPHA3
0	1.08798339	0.961	0.618	0	CA1	ATP2B1
0	1.08659489	0.783	0.339	0	CA1	SORCS3
0	1.08620618	0.943	0.476	0	CA1	SH3GL2
0	1.08342134	0.915	0.459	0	CA1	THRB
0	1.08017035	0.858	0.356	0	CA1	OLFM3

0	1.07359497	0.97	0.593	0	CA1	TMEM178B
0	1.06614556	0.712	0.365	0	CA1	RGS6
0	1.06361457	0.929	0.396	0	CA1	MTUS2
0	1.05514788	0.85	0.389	0	CA1	EFNA5
0	1.05273456	0.72	0.168	0	CA1	PAPSS2
0	1.04824465	0.909	0.446	0	CA1	HOMER1
0	1.04820546	0.492	0.401	0	CA1	CELF2
0	1.04469444	0.992	0.866	0	CA1	MAPK10
0	1.0436763	0.957	0.581	0	CA1	DOK6
0	1.03313805	0.966	0.531	0	CA1	PCSK2
0	1.03256326	0.503	0.223	0	CA1	IL1RAPL2
0	1.02692541	0.93	0.583	0	CA1	EPHA5
0	1.02583212	0.437	0.154	0	CA1	RXFP1
0	1.02096499	0.992	0.698	0	CA1	AGBL4
0	1.01813775	0.947	0.621	0	CA1	PDE1A
0	1.01041741	0.896	0.338	0	CA1	PDE2A
0	1.00590428	0.906	0.41	0	CA1	CACNG3
0	1.00550032	0.481	0.118	0	CA1	AGBL1
0	1.00409611	0.821	0.331	0	CA1	ANKRD33B
0	1.00388406	0.343	0.202	0	CA1	CNN3
0	1.00147176	0.658	0.358	0	CA1	LRFN5
0	0.99140102	0.974	0.731	0	CA1	RIMS2
0	0.98866214	0.97	0.676	0	CA1	R3HDM1
0	0.97774179	0.679	0.279	0	CA1	KIAA1217
0	0.96413292	0.947	0.536	0	CA1	PRICKLE2
0	0.95879601	0.866	0.355	0	CA1	SNCA
0	0.95767276	0.989	0.777	0	CA1	LARGE1
0	0.94302863	0.655	0.321	0	CA1	RBFOX3
0	0.94297999	0.902	0.709	0	CA1	KCNQ5
0	0.92976565	0.94	0.54	0	CA1	KSR2
0	0.92735878	0.775	0.38	0	CA1	MAN1A1
0	0.92731748	0.968	0.524	0	CA1	SHANK2
0	0.92251423	0.933	0.537	0	CA1	PRKAG2
0	0.92101037	0.995	0.783	0	CA1	KALRN
0	0.91965485	0.973	0.653	0	CA1	GRIA3
0	0.91764977	0.718	0.159	0	CA1	IGSF21
0	0.91742033	0.953	0.51	0	CA1	HSPA12A
0	0.91658611	0.73	0.235	0	CA1	NGEF
0	0.91578681	0.913	0.429	0	CA1	ACTN1
0	0.91537726	0.847	0.369	0	CA1	NPAS2
0	0.91506242	0.998	0.879	0	CA1	SYT1

0	0.91127397	0.973	0.789	0	CA1	DPP10
0	0.90492085	0.993	0.828	0	CA1	DMD
0	0.90067951	0.938	0.556	0	CA1	RUNX1T1
0	0.89477168	0.708	0.438	0	CA1	MYO16
0	0.89400751	0.972	0.707	0	CA1	GRM7
0	0.88824308	0.944	0.593	0	CA1	ATRN1
0	0.88299981	0.259	0.119	0	CA1	RORB
0	0.88231546	0.572	0.215	0	CA1	TRPC4
0	0.87614645	0.999	0.939	0	CA1	ADGRB3
0	0.87066393	0.531	0.148	0	CA1	KLHL1
0	0.86874939	0.465	0.198	0	CA1	MICAL2
0	0.86146452	0.608	0.17	0	CA1	IQCJ
0	0.86096089	0.771	0.377	0	CA1	NDST3
0	0.86060402	0.952	0.564	0	CA1	KHDRBS3
0	0.85857655	0.994	0.848	0	CA1	NEGR1
0	0.85488243	0.829	0.361	0	CA1	VSNL1
0	0.85228793	0.974	0.592	0	CA1	KCNMA1
0	0.84906421	0.905	0.491	0	CA1	CDH12
0	0.84825369	0.673	0.202	0	CA1	ST8SIA5
0	0.84493395	0.928	0.49	0	CA1	CAMK4
0	0.83320343	0.718	0.305	0	CA1	NWD2
0	0.83160316	0.958	0.601	0	CA1	AK5
0	0.82798537	0.355	0.081	0	CA1	RGS4
0	0.8263722	0.949	0.482	0	CA1	GRIN1
0	0.82137936	0.968	0.523	0	CA1	SPTBN4
0	0.82039669	0.969	0.824	0	CA1	PEX5L
0	0.81947579	0.692	0.306	0	CA1	SORCS1
0	0.81791566	0.995	0.785	0	CA1	TENM2
0	0.8149	0.75	0.217	0	CA1	SLC6A7
0	0.81472038	0.908	0.401	0	CA1	CHD5
0	0.81470352	0.967	0.595	0	CA1	CHSY3
0	0.81410111	0.955	0.563	0	CA1	PCNX2
0	0.81244281	0.82	0.337	0	CA1	RAP1GAP
0	0.80915561	0.968	0.556	0	CA1	CAMK2A
0	0.8045277	0.98	0.753	0	CA1	LRRTM4
0	0.80448051	0.815	0.358	0	CA1	ANO3
0	0.80419128	0.981	0.709	0	CA1	SNAP25
0	0.80075963	0.994	0.849	0	CA1	CCSER1
0	0.79418512	0.999	0.913	0	CA1	RBFOX1
0	0.7939596	0.867	0.379	0	CA1	SRRM4
0	0.78885884	0.875	0.504	0	CA1	ADCY2

0	0.78714015	0.976	0.676	0	CA1	ARHGAP26
0	0.78692871	0.887	0.419	0	CA1	ITPR1
0	0.78478975	0.611	0.19	0	CA1	ARHGAP10
0	0.78246231	0.971	0.646	0	CA1	DGKI
0	0.77849464	0.994	0.822	0	CA1	PDE4D
0	0.77455967	0.986	0.726	0	CA1	NELL2
0	0.76899807	0.989	0.709	0	CA1	DCLK1
0	0.76804938	0.972	0.549	0	CA1	CACNA1B
0	0.76636299	0.775	0.261	0	CA1	GAP43
0	0.76404779	0.997	0.83	0	CA1	STXBP5L
0	0.75959795	0.516	0.12	0	CA1	IL12RB2
0	0.75922704	0.962	0.634	0	CA1	FOCAD
0	0.75892082	0.773	0.319	0	CA1	ADAM11
0	0.7549167	0.862	0.458	0	CA1	NYAP2
0	0.7488669	0.959	0.638	0	CA1	FBXW7
0	0.74750377	0.66	0.213	0	CA1	RFTN1
0	0.74744438	0.732	0.275	0	CA1	RTN4RL1
0	0.74552685	0.782	0.371	0	CA1	OLFM1
0	0.74527988	0.683	0.238	0	CA1	RASGRP1
0	0.743558	0.433	0.142	0	CA1	SLC12A3
0	0.74249735	0.966	0.58	0	CA1	SYBU
0	0.73906604	0.963	0.573	0	CA1	SCN8A
0	0.73887178	0.992	0.781	0	CA1	GRM5
0	0.7369603	0.832	0.315	0	CA1	SYT7
0	0.73593786	0.905	0.503	0	CA1	EPHA4
0	0.73528585	0.817	0.394	0	CA1	PDE10A
0	0.73439834	0.703	0.204	0	CA1	STUM
0	0.73290781	0.995	0.772	0	CA1	LRRC7
0	0.73217116	0.782	0.309	0	CA1	ELAVL4
0	0.72398754	0.6	0.108	0	CA1	MPPED1
2.32E-268	0.87959837	0.456	0.271	3.17E-264	CA2	TENM4
7.13E-271	0.46129705	0.297	0.124	9.75E-267	CA2	RGS4
9.27E-308	0.98102976	0.896	0.652	1.27E-303	CA2	CALM1
0	3.55224549	0.999	0.259	0	CA2	TSHZ2
0	2.76866811	0.997	0.332	0	CA2	PTPRT
0	2.72968019	0.565	0.062	0	CA2	HTR1F
0	2.4392433	0.986	0.271	0	CA2	TOX
0	2.30391355	0.979	0.2	0	CA2	VWC2L
0	2.21946386	0.998	0.441	0	CA2	GPC6
0	2.1291254	0.971	0.242	0	CA2	EPHA3
0	2.11974108	0.976	0.309	0	CA2	KCNH5

0	2.1003067	0.994	0.427	0	CA2	OLFM3
0	2.05507022	0.979	0.242	0	CA2	SATB2
0	2.04558355	0.992	0.406	0	CA2	PDZRN4
0	1.93876878	0.998	0.583	0	CA2	KCNB2
0	1.83182509	0.95	0.441	0	CA2	NCALD
0	1.81681811	0.996	0.614	0	CA2	TRPM3
0	1.71870214	0.987	0.548	0	CA2	PRR16
0	1.70800999	0.937	0.27	0	CA2	PDZRN3
0	1.67748001	0.94	0.325	0	CA2	ADGRL2
0	1.65927574	0.825	0.266	0	CA2	SEMA6D
0	1.63985812	0.996	0.551	0	CA2	CDH12
0	1.63140316	0.936	0.301	0	CA2	SGCD
0	1.59491925	0.81	0.121	0	CA2	ADAMTS16
0	1.59152387	0.687	0.173	0	CA2	PCP4
0	1.56019252	0.997	0.571	0	CA2	LDB2
0	1.54608209	0.999	0.736	0	CA2	ARPP21
0	1.54423008	0.835	0.209	0	CA2	TSHZ3
0	1.52742217	0.993	0.567	0	CA2	MEF2C
0	1.51594167	0.938	0.215	0	CA2	FSTL4
0	1.51116694	0.963	0.454	0	CA2	EFNA5
0	1.48764711	0.996	0.621	0	CA2	KHDRBS3
0	1.44812345	0.92	0.36	0	CA2	NWD2
0	1.41762398	0.987	0.493	0	CA2	HECW1
0	1.41754017	0.687	0.027	0	CA2	ABCA12
0	1.40273239	0.916	0.178	0	CA2	RXFP1
0	1.38818527	0.61	0.206	0	CA2	CCK
0	1.37256743	0.998	0.605	0	CA2	SHISA9
0	1.3589305	0.996	0.596	0	CA2	PCSK2
0	1.35650479	0.703	0.37	0	CA2	RBFOX3
0	1.344546	1	0.878	0	CA2	KCNIP4
0	1.33969008	0.989	0.591	0	CA2	LDLRAD4
0	1.33814315	1	0.817	0	CA2	TENM2
0	1.33411718	0.517	0.209	0	CA2	NEFL
0	1.33240415	0.859	0.226	0	CA2	IQCJ
0	1.32527562	0.694	0.098	0	CA2	RSPO2
0	1.30114914	0.958	0.307	0	CA2	EPHB1
0	1.30010778	0.993	0.622	0	CA2	MYRIP
0	1.2862653	0.936	0.366	0	CA2	SYN3
0	1.28230498	0.996	0.749	0	CA2	SNAP25
0	1.25922175	0.999	0.746	0	CA2	GRM7
0	1.25307538	0.999	0.853	0	CA2	CTNNA2

0	1.25234056	0.914	0.304	0	CA2	SEL1L3
0	1.24636389	0.81	0.217	0	CA2	CLMP
0	1.24387205	0.997	0.71	0	CA2	NRG1
0	1.21119925	0.986	0.612	0	CA2	RUNX1T1
0	1.21048773	0.9	0.429	0	CA2	VSNL1
0	1.20001489	0.943	0.409	0	CA2	RGS6
0	1.16808568	0.803	0.15	0	CA2	OSBPL3
0	1.1660086	0.77	0.136	0	CA2	FOXP2
0	1.14852215	0.806	0.194	0	CA2	SEC24D
0	1.14734296	0.998	0.742	0	CA2	AGBL4
0	1.14425446	0.843	0.367	0	CA2	RIT2
0	1.14295275	0.728	0.442	0	CA2	LRRC4C
0	1.12957319	0.795	0.335	0	CA2	PALLD
0	1.12929259	0.841	0.363	0	CA2	STMN2
0	1.12892403	0.974	0.567	0	CA2	SCAI
0	1.12757821	0.956	0.355	0	CA2	SORCS1
0	1.12621334	0.715	0.141	0	CA2	MYO5C
0	1.12312291	0.995	0.651	0	CA2	KCNH1
0	1.12123353	0.998	0.735	0	CA2	KCNQ5
0	1.11641904	0.726	0.149	0	CA2	GFRA2
0	1.11216131	0.924	0.4	0	CA2	ADAMTSL3
0	1.10298297	0.977	0.5	0	CA2	SLIT2
0	1.09741563	0.993	0.695	0	CA2	DGKI
0	1.09488806	0.991	0.686	0	CA2	SLC44A5
0	1.09413614	0.847	0.282	0	CA2	DOK5
0	1.08829798	0.634	0.13	0	CA2	TLL1
0	1.07247875	0.563	0.06	0	CA2	SLC38A11
0	1.05306809	0.999	0.813	0	CA2	GRM5
0	1.04746497	0.944	0.527	0	CA2	THRB
0	1.04627933	0.771	0.211	0	CA2	TSHZ1
0	1.0462605	0.974	0.448	0	CA2	ZMAT4
0	1.03895803	0.997	0.837	0	CA2	PBX1
0	1.03850756	0.755	0.175	0	CA2	CRTAC1
0	1.03465525	0.834	0.303	0	CA2	MLIP
0	1.0227989	0.731	0.201	0	CA2	OCA2
0	1.01350392	0.9	0.385	0	CA2	CIT
0	1.00881813	0.89	0.456	0	CA2	PDE10A
0	1.00337364	0.58	0.118	0	CA2	CUX2
0	0.99428383	0.99	0.646	0	CA2	UNC5D
0	0.99142206	0.864	0.451	0	CA2	GUCY1A2
0	0.98351023	0.762	0.216	0	CA2	ST6GAL1

0	0.97914735	0.437	0.02	0	CA2	GLP2R
0	0.97333285	1	0.851	0	CA2	RGS7
0	0.97300981	0.999	0.892	0	CA2	PHACTR1
0	0.9644899	0.852	0.403	0	CA2	ACVR2A
0	0.96266019	0.98	0.617	0	CA2	GABRB2
0	0.96141073	0.844	0.337	0	CA2	GAP43
0	0.95063238	0.848	0.311	0	CA2	CNIH3
0	0.94162351	0.802	0.261	0	CA2	TRPC4
0	0.9371491	0.816	0.271	0	CA2	GRM8
0	0.93638908	0.822	0.38	0	CA2	GABRA1
0	0.91963039	0.989	0.68	0	CA2	XKR6
0	0.91736972	0.912	0.364	0	CA2	TRPC5
0	0.9040217	0.652	0.13	0	CA2	CAPS2
0	0.90045256	0.469	0.148	0	CA2	NEFM
0	0.90038832	0.987	0.535	0	CA2	CA10
0	0.89492789	0.846	0.335	0	CA2	SATB1
0	0.89457829	0.994	0.668	0	CA2	ATP8A2
0	0.89399407	0.971	0.613	0	CA2	AHI1
0	0.88865911	0.829	0.416	0	CA2	PKNOX2
0	0.88512048	0.938	0.477	0	CA2	PLXNA2
0	0.87819225	1	0.911	0	CA2	NKAIN2
0	0.87335586	0.649	0.156	0	CA2	SNCAIP
0	0.86473603	0.935	0.516	0	CA2	CDKL5
0	0.86430635	0.977	0.636	0	CA2	STXBP1
0	0.86352322	0.898	0.504	0	CA2	SSBP3
0	0.8561195	0.801	0.269	0	CA2	SLC8A3
0	0.85314653	0.585	0.083	0	CA2	GRM4
0	0.84685206	0.858	0.351	0	CA2	HIVEP1
0	0.84140681	0.9	0.46	0	CA2	REEP1
0	0.83908278	0.995	0.649	0	CA2	TMEM178B
0	0.83725553	0.541	0.088	0	CA2	CCDC3
0	0.83350196	0.636	0.301	0	CA2	ZBTB18
0	0.82605456	0.975	0.602	0	CA2	CHL1
0	0.82504519	0.988	0.772	0	CA2	MAP1B
0	0.82416918	0.549	0.241	0	CA2	SYT4
0	0.81892505	0.978	0.59	0	CA2	SPTBN4
0	0.8153245	0.992	0.69	0	CA2	SYN2
0	0.81426106	0.738	0.245	0	CA2	MGAT5B
0	0.81419571	0.949	0.583	0	CA2	SPAG16
0	0.81169694	0.996	0.708	0	CA2	KCNQ3
0	0.81115977	0.577	0.136	0	CA2	COL26A1

0	0.80987537	0.661	0.268	0	CA2	FAM3C
0	0.808895	0.571	0.15	0	CA2	ST6GAL2
0	0.80281384	0.96	0.48	0	CA2	FARP1
0	0.80248774	0.97	0.706	0	CA2	SDCCAG8
0	0.80218468	0.642	0.114	0	CA2	MYLK
0	0.79723662	0.956	0.576	0	CA2	ARMC9
0	0.79199205	0.898	0.422	0	CA2	PDE2A
0	0.79108403	0.678	0.211	0	CA2	HRH2
0	0.78885205	0.887	0.46	0	CA2	PAK1
0	0.78251783	0.97	0.615	0	CA2	PAK5
0	0.78240855	0.905	0.479	0	CA2	EPB41L3
0	0.78198687	0.428	0.208	0	CA2	LNK1
0	0.77174516	0.839	0.378	0	CA2	ELAVL4
0	0.7703322	0.82	0.399	0	CA2	PTPN5
0	0.76937917	0.999	0.814	0	CA2	FGF12
0	0.76897017	0.647	0.208	0	CA2	GALNT9
0	2.34829363	0.954	0.375	0	CA3	CPNE4
0	1.97017284	1	0.881	0	CA3	OPCML
0	1.82132565	0.908	0.251	0	CA3	B4GALNT3
0	1.72829461	0.837	0.571	0	CA3	TRPS1
0	1.70883474	0.977	0.633	0	CA3	RYR3
0	1.69850158	0.787	0.261	0	CA3	TRHDE
0	1.68391955	0.996	0.627	0	CA3	CLSTN2
0	1.66580973	0.946	0.562	0	CA3	NETO1
0	1.65465412	0.956	0.41	0	CA3	NRP1
0	1.64080767	0.892	0.323	0	CA3	AFF2
0	1.61709694	0.986	0.512	0	CA3	CELF4
0	1.60001757	0.984	0.764	0	CA3	ROBO1
0	1.57015132	0.993	0.685	0	CA3	PRKCE
0	1.55975087	0.941	0.736	0	CA3	EPHA6
0	1.533916	0.997	0.831	0	CA3	PTPRG
0	1.53383339	0.911	0.461	0	CA3	SLIT1
0	1.50177144	0.897	0.38	0	CA3	NECTIN3
0	1.47692806	0.995	0.713	0	CA3	ASIC2
0	1.43723722	0.966	0.712	0	CA3	ROBO2
0	1.41515438	0.887	0.532	0	CA3	KCNT2
0	1.3805783	0.99	0.605	0	CA3	KHDRBS3
0	1.33995057	0.961	0.474	0	CA3	AMPH
0	1.32544388	0.896	0.549	0	CA3	EPHA4
0	1.2901103	0.699	0.162	0	CA3	TSPAN18
0	1.27906841	0.999	0.848	0	CA3	CNTNAP2



0	1.27675135	0.744	0.355	0	CA3	TEAD1
0	1.25160557	0.993	0.654	0	CA3	PDE1A
0	1.20447355	0.982	0.651	0	CA3	GALNT17
0	1.19807559	0.999	0.856	0	CA3	NRXN3
0	1.1923961	0.978	0.526	0	CA3	SH3GL2
0	1.18660295	0.998	0.77	0	CA3	GRIA1
0	1.16478842	0.972	0.69	0	CA3	CACNA2D3
0	1.14239996	0.54	0.407	0	CA3	CELF2
0	1.14146436	0.991	0.638	0	CA3	AK5
0	1.12931057	0.939	0.41	0	CA3	KCNN2
0	1.11297687	0.954	0.727	0	CA3	KCNQ5
0	1.10960409	0.965	0.596	0	CA3	SPOCK1
0	1.10581804	0.337	0.194	0	CA3	RXFP1
0	1.10565461	0.838	0.2	0	CA3	IQCJ
0	1.10507024	0.947	0.421	0	CA3	CADPS2
0	1.09171363	0.527	0.256	0	CA3	TENM4
0	1.07857941	0.941	0.421	0	CA3	FAM189A1
0	1.07368975	0.94	0.328	0	CA3	SV2B
0	1.0704508	0.989	0.577	0	CA3	PRKAG2
0	1.06895306	0.978	0.535	0	CA3	CAMK4
0	1.06309046	0.851	0.304	0	CA3	SMPD3
0	1.06039397	0.988	0.581	0	CA3	KSR2
0	1.0525726	0.997	0.734	0	CA3	SLC8A1
0	1.05194812	0.993	0.595	0	CA3	CACNA1B
0	1.05032266	0.998	0.841	0	CA3	PDE4D
0	1.04688176	0.983	0.58	0	CA3	PRICKLE2
0	1.04686108	0.898	0.375	0	CA3	RAP1GAP2
0	1.03899395	0.928	0.408	0	CA3	SNCA
0	1.03764101	0.988	0.679	0	CA3	CDK14
0	1.03564387	0.671	0.228	0	CA3	FREM1
0	1.0341848	0.918	0.704	0	CA3	PRKCA
0	1.02709253	0.962	0.469	0	CA3	DGKZ
0	1.02094383	0.86	0.292	0	CA3	NT5DC3
0	1.01208209	0.969	0.548	0	CA3	SLC35F3
0	1.00257288	0.962	0.452	0	CA3	FAM135B
0	0.98404705	0.941	0.584	0	CA3	NELL1
0	0.9816396	0.843	0.324	0	CA3	SLC47A1
0	0.97819698	0.94	0.553	0	CA3	PGBD5
0	0.97566688	0.944	0.485	0	CA3	GRIK5
0	0.96807369	0.867	0.388	0	CA3	GRIK4
0	0.9656116	0.254	0.079	0	CA3	HTR2C

0	0.96540306	0.896	0.306	0	CA3	IQSEC3
0	0.9612536	0.948	0.427	0	CA3	SRRM4
0	0.95138623	0.538	0.353	0	CA3	RIMS1
0	0.94982884	0.988	0.601	0	CA3	CAMK2A
0	0.94599558	0.749	0.318	0	CA3	KIAA1217
0	0.94438317	0.692	0.153	0	CA3	SLC12A3
0	0.94350146	0.995	0.754	0	CA3	NELL2
0	0.94062843	0.942	0.519	0	CA3	EFR3A
0	0.94043797	0.935	0.44	0	CA3	SCN3B
0	0.93951858	0.856	0.274	0	CA3	RASGRP1
0	0.93354964	0.975	0.552	0	CA3	NOS1AP
0	0.93334979	0.994	0.658	0	CA3	DYNC111
0	0.93127501	0.998	0.88	0	CA3	MAPK10
0	0.93087446	0.641	0.099	0	CA3	NPFRR2
0	0.92863107	0.881	0.364	0	CA3	ADAMTS3
0	0.92583683	0.992	0.762	0	CA3	ERC1
0	0.92234954	0.874	0.269	0	CA3	ELAVL2
0	0.92075058	0.921	0.462	0	CA3	CDH11
0	0.92058845	0.99	0.634	0	CA3	TMEM178B
0	0.91509018	0.822	0.184	0	CA3	RAB26
0	0.9133213	0.979	0.554	0	CA3	LDB2
0	0.90965019	0.995	0.67	0	CA3	CACNA1A
0	0.9091082	0.99	0.672	0	CA3	SLC44A5
0	0.90780777	0.991	0.634	0	CA3	KCNMA1
0	0.90183108	0.969	0.619	0	CA3	EPHA5
0	0.90065795	0.981	0.657	0	CA3	MSRA
0	0.89943437	0.844	0.792	0	CA3	UNC5C
0	0.89764618	0.862	0.303	0	CA3	SIDT1
0	0.87523655	0.962	0.521	0	CA3	APBA2
0	0.87106591	0.924	0.358	0	CA3	ADAM11
0	0.87010102	0.963	0.564	0	CA3	PLXNA4
0	0.85042509	0.914	0.451	0	CA3	MYO16
0	0.84710524	0.991	0.741	0	CA3	AAK1
0	0.84335135	0.987	0.557	0	CA3	HSPA12A
0	0.84239799	0.963	0.491	0	CA3	PTPRR
0	0.83975385	0.982	0.588	0	CA3	NIN
0	0.83680774	0.989	0.719	0	CA3	CAMK1D
0	0.83484391	0.995	0.844	0	CA3	DOCK4
0	0.83384403	0.793	0.222	0	CA3	SORCS2
0	0.82797475	0.987	0.73	0	CA3	ARL15
0	0.82533285	0.867	0.541	0	CA3	CDH12

0	0.81705432	0.99	0.676	0	CA3	SYN2
0	0.81210583	0.85	0.393	0	CA3	SYNDIG1
0	0.80833805	0.777	0.376	0	CA3	PRICKLE1
0	0.80753379	0.857	0.312	0	CA3	SULF2
0	0.80714489	0.906	0.471	0	CA3	SNTG1
0	0.80357372	0.961	0.779	0	CA3	TMTC1
0	0.80296651	0.546	0.126	0	CA3	PTGER3
0	0.80038369	0.859	0.313	0	CA3	NPTX1
0	0.79262868	0.992	0.738	0	CA3	SNAP25
0	0.79258911	0.835	0.27	0	CA3	SLC6A7
0	0.79233444	0.632	0.133	0	CA3	NRIP3
0	0.79029257	1	0.918	0	CA3	CSMD1
0	0.79018294	0.982	0.559	0	CA3	KCNJ6
0	0.7885015	0.872	0.382	0	CA3	ANKRD33B
0	0.78748124	0.725	0.132	0	CA3	SEMA5B
0	0.78735784	0.767	0.285	0	CA3	OVCH1
0	0.78558106	0.999	0.923	0	CA3	RBFOX1
0	0.78150146	0.839	0.454	0	CA3	MPPED2
0	0.778324	0.982	0.655	0	CA3	ATP2B1
0	0.77665363	0.995	0.757	0	CA3	OXR1
0	0.77627372	0.95	0.531	0	CA3	TENM3
0	0.77517708	0.99	0.619	0	CA3	DNM1
0	0.77492549	1	0.892	0	CA3	SYT1
0	0.77443307	0.896	0.415	0	CA3	MAN1A1
0	0.77216164	0.977	0.523	0	CA3	SGSM1
0	0.7718299	0.981	0.67	0	CA3	FOCAD
0	0.76617268	0.825	0.29	0	CA3	HTR4
0	0.76315957	0.831	0.286	0	CA3	SEMA3E
0	0.75950843	0.992	0.663	0	CA3	FRMPD4
0	0.75527558	0.963	0.443	0	CA3	KIAA1211L
0	0.75431331	0.401	0.058	0	CA3	NPNT
0	0.75357537	0.597	0.15	0	CA3	CBLN2
0	0.75173746	0.982	0.614	0	CA3	NAV3
0	0.75168673	0.999	0.865	0	CA3	CCSER1
0	0.75045086	0.997	0.733	0	CA3	GRIN2B
0	0.74761862	0.862	0.357	0	CA3	KIAA1671
0	0.74687332	0.888	0.433	0	CA3	PTK2B
0	0.74649984	0.986	0.654	0	CA3	XKR4
0	0.74535452	0.992	0.709	0	CA3	ARHGAP26
0	0.74429534	0.962	0.453	0	CA3	MTUS2
0	0.74269882	0.991	0.762	0	CA3	MAP1B

0	0.741775	0.994	0.632	0	CA3	XYLT1
0	0.74039806	0.795	0.368	0	CA3	TANC1
1.36E-35	1.63532112	0.534	0.421	1.86E-31	Endothelial	SLC12A2
1.46E-37	1.53598059	0.768	0.75	1.99E-33	Endothelial	ARL15
1.06E-46	1.50347819	0.518	0.347	1.45E-42	Endothelial	ADGRL2
5.06E-49	1.6162881	0.13	0.028	6.92E-45	Endothelial	RGS5
1.00E-50	1.47829217	0.618	0.513	1.37E-46	Endothelial	ARFGEF2
5.41E-56	1.73243769	0.423	0.217	7.40E-52	Endothelial	NAMPT
1.05E-58	1.75716223	0.538	0.34	1.44E-54	Endothelial	SGMS1
1.06E-61	1.50450637	0.555	0.332	1.46E-57	Endothelial	FAT4
9.10E-62	1.58087813	0.555	0.367	1.25E-57	Endothelial	MYH9
1.45E-62	2.04007337	0.564	0.382	1.99E-58	Endothelial	INSR
4.47E-66	1.68520223	0.542	0.333	6.11E-62	Endothelial	CLINT1
2.00E-66	1.64488419	0.464	0.234	2.73E-62	Endothelial	SHROOM2
4.40E-69	1.54097271	0.455	0.22	6.01E-65	Endothelial	CD2AP
1.87E-69	1.65207503	0.607	0.416	2.56E-65	Endothelial	WWC2
4.86E-70	1.71923295	0.499	0.27	6.64E-66	Endothelial	SNRK
3.96E-70	1.59416575	0.603	0.412	5.41E-66	Endothelial	CTNNB1
7.56E-72	1.80911605	0.484	0.235	1.03E-67	Endothelial	ST6GAL1
2.85E-74	1.67913039	0.475	0.233	3.90E-70	Endothelial	HERPUD1
1.09E-74	1.89720974	0.622	0.45	1.49E-70	Endothelial	RUNDC3B
6.00E-77	1.57869767	0.703	0.527	8.21E-73	Endothelial	PPFIBP1
1.09E-77	1.81338633	0.557	0.326	1.49E-73	Endothelial	SGPP2
1.47E-78	1.64854707	0.636	0.429	2.01E-74	Endothelial	ACVR1
9.47E-79	1.51498505	0.642	0.417	1.30E-74	Endothelial	CTNND1
2.44E-79	1.52861007	0.499	0.24	3.34E-75	Endothelial	CFLAR
1.94E-82	1.93852373	0.66	0.492	2.65E-78	Endothelial	ESYT2
2.86E-84	2.1931917	0.672	0.464	3.91E-80	Endothelial	IGF1R
2.06E-84	1.91071489	0.588	0.351	2.82E-80	Endothelial	ATL2
3.62E-92	1.53792542	0.503	0.201	4.95E-88	Endothelial	GSN
1.37E-94	1.50924754	0.826	0.693	1.87E-90	Endothelial	FOXP1
4.04E-97	1.49374935	0.8	0.659	5.53E-93	Endothelial	MRTFB
2.31E-100	1.84938858	0.518	0.216	3.16E-96	Endothelial	TIMP3
9.54E-102	2.18673983	0.538	0.25	1.31E-97	Endothelial	ACER2
5.42E-104	1.4783007	0.425	0.138	7.41E-100	Endothelial	RASSF3
1.50E-111	1.97071593	0.57	0.262	2.04E-107	Endothelial	NXN
1.72E-113	1.88364852	0.482	0.179	2.35E-109	Endothelial	RHOBTB1
7.16E-114	1.49035449	0.351	0.093	9.79E-110	Endothelial	EXPH5
2.37E-114	1.66577696	0.466	0.152	3.25E-110	Endothelial	TRPM6
8.63E-115	1.49616029	0.308	0.07	1.18E-110	Endothelial	RBPM5
1.19E-115	1.68430356	0.688	0.355	1.62E-111	Endothelial	LDLRAD3

4.49E-116	2.00707291	0.737	0.519	6.14E-112	Endothelial	SLC39A10
1.41E-116	1.81711825	0.575	0.25	1.93E-112	Endothelial	RBMS1
3.37E-117	1.51462727	0.353	0.091	4.61E-113	Endothelial	JCAD
4.94E-118	1.96937546	0.714	0.479	6.76E-114	Endothelial	LMBR1
1.59E-119	1.89214604	0.866	0.77	2.17E-115	Endothelial	TSPAN5
1.66E-120	1.6746261	0.308	0.069	2.27E-116	Endothelial	CD320
4.30E-121	1.77237249	0.842	0.635	5.88E-117	Endothelial	MYRIP
3.60E-121	1.76990195	0.722	0.379	4.92E-117	Endothelial	LHFPL6
1.62E-122	2.11224791	0.638	0.319	2.21E-118	Endothelial	GPCPD1
1.15E-129	1.48557392	0.889	0.83	1.58E-125	Endothelial	SPTBN1
4.98E-134	1.72642902	0.284	0.054	6.81E-130	Endothelial	ADGRG6
2.98E-136	1.67332544	0.36	0.084	4.08E-132	Endothelial	NEDD9
6.47E-138	1.73434595	0.471	0.14	8.84E-134	Endothelial	UACA
4.30E-143	2.14559266	0.603	0.233	5.89E-139	Endothelial	CSGALNACT1
2.27E-145	2.09382058	0.536	0.187	3.11E-141	Endothelial	TFRC
1.75E-150	1.77249849	0.57	0.184	2.39E-146	Endothelial	PDLIM5
2.41E-154	1.73012413	0.876	0.727	3.30E-150	Endothelial	BMPR2
6.69E-156	1.9054088	0.85	0.581	9.15E-152	Endothelial	ABLIM1
2.65E-156	1.86754863	0.887	0.737	3.63E-152	Endothelial	DOCK9
4.05E-161	2.24846291	0.774	0.42	5.54E-157	Endothelial	PLCB4
3.34E-163	2.24362518	0.204	0.024	4.56E-159	Endothelial	IGFBP3
7.46E-173	2.27248475	0.547	0.162	1.02E-168	Endothelial	MYO10
2.73E-177	1.5082693	0.332	0.059	3.74E-173	Endothelial	RPH3AL
5.94E-181	2.26883389	0.623	0.215	8.13E-177	Endothelial	ITGA6
9.74E-191	1.78471357	0.438	0.097	1.33E-186	Endothelial	ADGRA2
8.66E-194	1.97575609	0.607	0.182	1.18E-189	Endothelial	FGD6
3.44E-200	1.63058763	0.991	0.843	4.71E-196	Endothelial	PTPRG
1.08E-201	2.37135892	0.518	0.132	1.48E-197	Endothelial	NET1
1.79E-204	1.49168521	0.356	0.059	2.45E-200	Endothelial	DOCK6
5.61E-214	1.86662643	0.436	0.083	7.67E-210	Endothelial	LAMA4
5.46E-224	2.34455704	0.547	0.134	7.47E-220	Endothelial	DACH1
1.23E-230	2.19007733	0.638	0.182	1.68E-226	Endothelial	FMNL3
3.23E-236	2.53071493	0.57	0.141	4.41E-232	Endothelial	JAM2
5.16E-239	2.0007557	0.722	0.204	7.06E-235	Endothelial	CLIC4
1.46E-239	2.65208221	0.803	0.359	2.00E-235	Endothelial	PTPRB
2.55E-243	1.91895933	0.473	0.092	3.48E-239	Endothelial	TEK
1.57E-244	1.79849543	0.382	0.059	2.14E-240	Endothelial	BACE2
9.74E-245	1.77147501	0.391	0.061	1.33E-240	Endothelial	IGF2BP2
9.18E-248	1.80976232	0.384	0.059	1.26E-243	Endothelial	PLAT
2.67E-253	2.04755879	0.649	0.171	3.65E-249	Endothelial	SYNE2
6.04E-258	2.04287344	0.417	0.067	8.26E-254	Endothelial	FN1

2.67E-259	1.52407799	0.367	0.05	3.65E-255	Endothelial	LMCD1
6.93E-264	1.68414046	0.404	0.061	9.48E-260	Endothelial	LIMS2
2.23E-268	1.86640636	0.503	0.093	3.06E-264	Endothelial	SP100
3.21E-272	1.48559306	0.34	0.042	4.39E-268	Endothelial	RIN3
4.45E-275	1.51121824	0.354	0.045	6.09E-271	Endothelial	FZD6
1.24E-276	2.52912962	0.792	0.242	1.70E-272	Endothelial	TMEM132C
4.09E-279	2.58765492	0.445	0.072	5.59E-275	Endothelial	IGFBP7
1.32E-281	1.97249451	0.575	0.114	1.80E-277	Endothelial	ARHGAP31
9.00E-284	1.82343715	0.425	0.064	1.23E-279	Endothelial	ST3GAL1
7.52E-285	1.81367946	0.416	0.059	1.03E-280	Endothelial	PROM1
4.66E-291	2.03772518	0.508	0.091	6.38E-287	Endothelial	TNS1
9.36E-293	2.52316538	0.668	0.167	1.28E-288	Endothelial	HEG1
1.31E-294	1.7543999	0.429	0.063	1.79E-290	Endothelial	TMEM44
4.35E-296	2.06299056	0.551	0.104	5.96E-292	Endothelial	RCSD1
1.17E-303	2.60049864	0.933	0.39	1.60E-299	Endothelial	PTPRM
0	4.65076873	0.907	0.04	0	Endothelial	MECOM
0	4.63351777	0.885	0.021	0	Endothelial	FLT1
0	4.10947162	0.852	0.206	0	Endothelial	SLC7A1
0	3.72236157	0.885	0.365	0	Endothelial	TBC1D4
0	3.70371268	0.835	0.039	0	Endothelial	EPAS1
0	3.6795358	0.787	0.066	0	Endothelial	EBF1
0	3.49434956	0.82	0.045	0	Endothelial	FLI1
0	3.46003925	0.733	0.036	0	Endothelial	EMCN
0	3.36880647	0.718	0.013	0	Endothelial	ADGRL4
0	3.3146918	0.738	0.016	0	Endothelial	LEF1
0	3.25142713	0.764	0.05	0	Endothelial	ERG
0	3.17313928	0.72	0.071	0	Endothelial	ABCB1
0	3.14694826	0.746	0.094	0	Endothelial	EGFL7
0	3.09046993	0.85	0.216	0	Endothelial	UTRN
0	3.0720869	0.742	0.141	0	Endothelial	CYYR1
0	3.04467115	0.668	0.09	0	Endothelial	SLC2A1
0	2.89314125	0.657	0.148	0	Endothelial	PODXL
0	2.81906871	0.668	0.119	0	Endothelial	SLCO1A2
0	2.77874624	0.56	0.077	0	Endothelial	HMCN1
0	2.745828	0.612	0.044	0	Endothelial	GALNT15
0	2.72396319	0.579	0.013	0	Endothelial	ADGRF5
0	2.72346435	0.547	0.086	0	Endothelial	SLCO1B1
0	2.66087489	0.417	0.017	0	Endothelial	ITM2A
0	2.64679043	0.826	0.237	0	Endothelial	RBMS3
0	2.62117398	0.592	0.115	0	Endothelial	VWF
0	2.6207345	0.584	0.031	0	Endothelial	PECAM1

0	2.5923772	0.534	0.02	0	Endothelial	CGNL1
0	2.46771395	0.518	0.013	0	Endothelial	SLC38A5
0	2.43705422	0.516	0.002	0	Endothelial	TNFSF10
0	2.3792392	0.551	0.039	0	Endothelial	ENG
0	2.33411368	0.586	0.067	0	Endothelial	ARHGAP29
0	2.29352012	0.583	0.045	0	Endothelial	SLCO2B1
0	2.17844941	0.399	0.012	0	Endothelial	SMAD6
0	2.14087708	0.531	0.035	0	Endothelial	TRIM22
0	2.11188231	0.505	0.065	0	Endothelial	PGM5
0	2.08957799	0.514	0.041	0	Endothelial	IFI16
0	2.06299835	0.549	0.091	0	Endothelial	CDC14A
0	1.93130073	0.456	0.058	0	Endothelial	PRTG
0	1.87604537	0.414	0.035	0	Endothelial	ETS1
0	1.86301338	0.347	0.036	0	Endothelial	CLEC3B
0	1.8377818	0.345	0.023	0	Endothelial	ITGA1
0	1.83379599	0.38	0.02	0	Endothelial	TFPI
0	1.82582897	0.406	0.031	0	Endothelial	OCLN
0	1.80516309	0.416	0.038	0	Endothelial	AHNAK
0	1.79394232	0.384	0.016	0	Endothelial	NOSTRIN
0	1.75798438	0.341	0.026	0	Endothelial	FLVCR2
0	1.74161632	0.46	0.059	0	Endothelial	TGFBR2
0	1.73766087	0.223	0.006	0	Endothelial	IFI27
0	1.72563786	0.356	0.03	0	Endothelial	SLC39A8
0	1.72124187	0.336	0.015	0	Endothelial	ITIH5
0	1.71738521	0.31	0.002	0	Endothelial	KANK3
0	1.66722003	0.314	0.024	0	Endothelial	WWTR1
0	1.63781828	0.354	0.024	0	Endothelial	FGD5
0	1.6328413	0.278	0.008	0	Endothelial	ID1
0	1.5464734	0.321	0.008	0	Endothelial	PAQR5
3.82E-24	1.66703648	0.297	0.195	5.23E-20	Ependymal	SLC24A4
1.44E-61	1.89200792	0.454	0.273	1.97E-57	Ependymal	SDK1
1.40E-90	2.01248586	0.227	0.062	1.91E-86	Ependymal	RBM47
2.34E-146	1.73760522	0.211	0.038	3.19E-142	Ependymal	SLC13A4
1.41E-146	2.00707729	0.404	0.13	1.93E-142	Ependymal	MALRD1
1.47E-152	2.02795267	0.193	0.031	2.01E-148	Ependymal	PRLR
6.94E-153	1.89396849	0.302	0.072	9.49E-149	Ependymal	IGFBP7
7.06E-172	1.76953103	0.745	0.434	9.65E-168	Ependymal	ANKRD44
2.16E-172	1.66224311	0.377	0.098	2.95E-168	Ependymal	ITPKB
5.99E-174	1.94843686	0.226	0.038	8.20E-170	Ependymal	SLC39A12
3.53E-178	2.86187763	0.223	0.036	4.83E-174	Ependymal	TTR
5.92E-198	3.72407455	0.38	0.091	8.10E-194	Ependymal	HTR2C

2.21E-220	1.68827302	0.714	0.355	3.02E-216	Ependymal	TMEM67
5.04E-224	1.70239944	0.402	0.094	6.89E-220	Ependymal	AK1
1.17E-225	1.98759581	0.37	0.078	1.60E-221	Ependymal	SULF1
8.50E-226	1.73632543	0.637	0.258	1.16E-221	Ependymal	TTC26
3.37E-227	1.77676546	0.728	0.362	4.60E-223	Ependymal	CASC1
1.24E-232	1.84366913	0.841	0.53	1.69E-228	Ependymal	NEK10
6.81E-236	1.99801789	0.687	0.29	9.32E-232	Ependymal	FAM184A
8.66E-245	1.69304025	0.558	0.173	1.18E-240	Ependymal	STPG4
3.02E-248	1.84168996	0.879	0.589	4.13E-244	Ependymal	ULK4
4.11E-249	2.00657876	0.864	0.569	5.62E-245	Ependymal	CCDC30
2.31E-250	2.11109165	0.92	0.685	3.16E-246	Ependymal	DTNA
1.21E-252	2.0127755	0.807	0.462	1.65E-248	Ependymal	CEP126
3.21E-256	1.83465746	0.824	0.473	4.39E-252	Ependymal	MOK
2.94E-258	1.65855043	0.991	0.742	4.02E-254	Ependymal	PRKG1
1.22E-264	1.98192983	0.765	0.356	1.67E-260	Ependymal	IQCA1
1.82E-271	2.06027033	0.768	0.369	2.49E-267	Ependymal	CFAP221
5.21E-272	2.3343208	0.838	0.426	7.12E-268	Ependymal	RGS6
6.21E-273	1.8469533	0.869	0.517	8.50E-269	Ependymal	FBXL13
1.78E-275	1.77893194	0.639	0.217	2.44E-271	Ependymal	FANK1
2.00E-282	1.91533214	0.865	0.526	2.73E-278	Ependymal	ARMC2
1.69E-282	1.93125701	0.751	0.327	2.31E-278	Ependymal	CCDC138
2.33E-287	2.03812799	0.906	0.595	3.19E-283	Ependymal	SPAG16
5.94E-293	1.95461546	0.843	0.418	8.12E-289	Ependymal	PLCB4
1.21E-303	1.74157071	0.765	0.256	1.66E-299	Ependymal	SOX6
1.51E-306	2.1300221	0.801	0.354	2.06E-302	Ependymal	CABCOCO1
0	4.20418351	0.927	0.217	0	Ependymal	CFAP54
0	4.06017495	0.946	0.162	0	Ependymal	HYDIN
0	3.97741543	0.979	0.438	0	Ependymal	DNAH9
0	3.93693365	0.899	0.041	0	Ependymal	DNAH11
0	3.63433379	0.918	0.341	0	Ependymal	TMEM232
0	3.50742113	0.886	0.236	0	Ependymal	CCDC146
0	3.47682855	0.964	0.365	0	Ependymal	NEK11
0	3.46077693	0.958	0.355	0	Ependymal	DNAH6
0	3.41434958	0.829	0.03	0	Ependymal	ZBBX
0	3.40648202	0.84	0.12	0	Ependymal	DRC3
0	3.40112945	0.747	0.015	0	Ependymal	SLC47A2
0	3.35342241	0.845	0.094	0	Ependymal	LRRIQ1
0	3.32874926	0.738	0.043	0	Ependymal	ADGB
0	3.28337516	0.836	0.121	0	Ependymal	DNAH7
0	3.2444309	0.866	0.105	0	Ependymal	CCDC60
0	3.22250402	0.832	0.044	0	Ependymal	SPAG17



0	3.21641079	0.936	0.263	0	Ependymal	CFAP70
0	3.14878318	0.85	0.008	0	Ependymal	ARMC3
0	3.13286958	0.827	0.046	0	Ependymal	FHAD1
0	3.13271598	0.852	0.161	0	Ependymal	CFAP46
0	3.12470655	0.791	0.033	0	Ependymal	SPATA17
0	3.10282737	0.856	0.031	0	Ependymal	LRRC9
0	3.06316627	0.881	0.111	0	Ependymal	CFAP44
0	3.04188787	0.932	0.289	0	Ependymal	SPEF2
0	2.97275724	0.732	0.098	0	Ependymal	DNAH10
0	2.94842828	0.811	0.126	0	Ependymal	VWA3B
0	2.89363091	0.751	0.107	0	Ependymal	DNAH2
0	2.86441943	0.791	0.315	0	Ependymal	CRB1
0	2.85346517	0.825	0.1	0	Ependymal	KIF27
0	2.83851724	0.716	0.085	0	Ependymal	DNAH3
0	2.82777481	0.897	0.199	0	Ependymal	PLEKHA7
0	2.79287093	0.884	0.295	0	Ependymal	KIAA2012
0	2.77229233	0.769	0.047	0	Ependymal	WDR63
0	2.76971903	0.737	0.123	0	Ependymal	ANKFN1
0	2.67293412	0.8	0.158	0	Ependymal	CROCC
0	2.66483539	0.761	0.058	0	Ependymal	SPAG6
0	2.66286652	0.67	0.042	0	Ependymal	CFAP100
0	2.64079381	0.795	0.215	0	Ependymal	EFCAB6
0	2.63794623	0.643	0.046	0	Ependymal	LRRC36
0	2.60805408	0.882	0.245	0	Ependymal	MYO1E
0	2.59534953	0.805	0.153	0	Ependymal	PPIL6
0	2.59380026	0.693	0.072	0	Ependymal	CFAP52
0	2.59046013	0.822	0.251	0	Ependymal	LRRC6
0	2.57963427	0.738	0.043	0	Ependymal	DNAI1
0	2.57727967	0.624	0.053	0	Ependymal	FRMPD2
0	2.5666876	0.598	0.011	0	Ependymal	PI15
0	2.56342533	0.841	0.214	0	Ependymal	RFX2
0	2.56317136	0.687	0.071	0	Ependymal	DTHD1
0	2.56033774	0.9	0.399	0	Ependymal	WDR78
0	2.54879685	0.757	0.166	0	Ependymal	VWA3A
0	2.52257879	0.779	0.291	0	Ependymal	AK8
0	2.51449698	0.682	0.039	0	Ependymal	NWD1
0	2.48472409	0.633	0.024	0	Ependymal	ARMC4
0	2.4709338	0.614	0.015	0	Ependymal	CCDC170
0	2.46490008	0.828	0.315	0	Ependymal	CCDC173
0	2.45713573	0.659	0.072	0	Ependymal	LMNTD1
0	2.44518414	0.612	0.153	0	Ependymal	S100B

0	2.42277594	0.71	0.084	0	Ependymal	PPP1R42
0	2.41337031	0.739	0.266	0	Ependymal	ANKMY1
0	2.41109757	0.571	0.019	0	Ependymal	TTC29
0	2.37777336	0.682	0.077	0	Ependymal	AK9
0	2.36334217	0.75	0.125	0	Ependymal	DRC1
0	2.35814342	0.752	0.151	0	Ependymal	ECT2L
0	2.2993951	0.65	0.045	0	Ependymal	CFAP73
0	2.28050259	0.792	0.339	0	Ependymal	NME9
0	2.2706702	0.698	0.147	0	Ependymal	PAMR1
0	2.25972663	0.62	0.088	0	Ependymal	DNAH5
0	2.21158181	0.665	0.107	0	Ependymal	EFCAB11
0	2.18116467	0.956	0.621	0	Ependymal	PACRG
0	2.12787406	0.513	0.055	0	Ependymal	KATNAL2
0	2.11744723	0.788	0.351	0	Ependymal	CFAP69
0	2.09529113	0.614	0.002	0	Ependymal	LHB
0	2.09278649	0.669	0.106	0	Ependymal	TTL9
0	2.0496793	0.562	0.037	0	Ependymal	C2orf73
0	2.04196927	0.788	0.349	0	Ependymal	RGS22
0	2.0359992	0.705	0.257	0	Ependymal	LRGUK
0	2.03306848	0.617	0.075	0	Ependymal	CCDC40
0	2.03005595	0.671	0.217	0	Ependymal	OCA2
0	2.01856873	0.607	0.041	0	Ependymal	RIBC2
0	2.0036365	0.582	0.033	0	Ependymal	TEKT1
0	1.99710534	0.543	0.06	0	Ependymal	AK7
0	1.98036049	0.675	0.165	0	Ependymal	PLCH1
0	1.93429837	0.507	0.053	0	Ependymal	STK33
0	1.93162443	0.66	0.17	0	Ependymal	SPAG1
0	1.91382021	0.543	0.08	0	Ependymal	RSPH1
0	1.9074817	0.62	0.119	0	Ependymal	CFAP74
0	1.90073894	0.985	0.744	0	Ependymal	MSI2
0	1.89058284	0.598	0.108	0	Ependymal	FAM227A
0	1.88459947	0.573	0.033	0	Ependymal	JHY
0	1.88106525	0.616	0.164	0	Ependymal	MYCBPAP
0	1.87408116	0.587	0.147	0	Ependymal	WDR66
0	1.86233088	0.679	0.121	0	Ependymal	TCF7L1
0	1.85670361	0.502	0.047	0	Ependymal	BBOX1
0	1.85624989	0.58	0.064	0	Ependymal	FBLN1
0	1.85187699	0.504	0.069	0	Ependymal	CFAP77
0	1.84793307	0.999	0.919	0	Ependymal	SYNE1
0	1.84198058	0.512	0.021	0	Ependymal	DNAH1
0	1.83843208	0.549	0.069	0	Ependymal	STK32A

0	1.83347365	0.614	0.106	0	Ependymal	EFHC1
0	1.81720888	0.512	0.044	0	Ependymal	ANKUB1
0	1.80288688	0.517	0.068	0	Ependymal	CDKL4
0	1.80159932	0.558	0.123	0	Ependymal	NEK5
0	1.78309721	0.556	0.091	0	Ependymal	IQCG
0	1.7655736	0.574	0.151	0	Ependymal	DNAJB13
0	1.72428867	0.498	0.059	0	Ependymal	MAK
0	1.70479002	0.471	0.027	0	Ependymal	LRRC23
0	1.70416457	0.497	0.1	0	Ependymal	MAP3K19
0	1.69433153	0.487	0.022	0	Ependymal	CCDC180
0	1.69248157	0.547	0.086	0	Ependymal	SNTB1
0	1.68040598	0.406	0.043	0	Ependymal	DCDC2
0	1.66136901	0.493	0.002	0	Ependymal	FAM81B
0	1.65723323	0.353	0.034	0	Ependymal	SLC28A1
3.53E-306	1.01276588	0.609	0.473	4.82E-302	GABAergic	THSD7A
0	3.59077997	0.628	0.536	0	GABAergic	ADARB2
0	3.37714109	0.923	0.365	0	GABAergic	GRIK1
0	2.91875398	0.72	0.2	0	GABAergic	NXPH1
0	2.89107729	0.875	0.474	0	GABAergic	GALNTL6
0	2.80763615	0.988	0.534	0	GABAergic	KCNC2
0	2.79487102	0.968	0.784	0	GABAergic	ERBB4
0	2.49983642	0.719	0.146	0	GABAergic	PTCHD4
0	2.46980067	0.893	0.172	0	GABAergic	RBMS3
0	2.43377781	0.828	0.039	0	GABAergic	GAD2
0	2.38642598	0.91	0.086	0	GABAergic	NHS
0	2.30157613	0.799	0.35	0	GABAergic	PTPRM
0	2.26867102	0.675	0.038	0	GABAergic	BTBD11
0	2.23840181	0.811	0.344	0	GABAergic	GRIA4
0	2.20995793	0.907	0.135	0	GABAergic	GAD1
0	2.17943423	0.891	0.203	0	GABAergic	UBASH3B
0	2.13018182	0.752	0.372	0	GABAergic	CDH13
0	1.96284492	1	0.845	0	GABAergic	CNTNAP2
0	1.94893041	0.524	0.342	0	GABAergic	RELN
0	1.93786346	0.595	0.18	0	GABAergic	GRIN3A
0	1.90140507	0.516	0.204	0	GABAergic	CNR1
0	1.86808245	0.897	0.68	0	GABAergic	SGCZ
0	1.83687127	0.651	0.411	0	GABAergic	FGF13
0	1.83650225	0.732	0.401	0	GABAergic	FSTL5
0	1.81511792	0.953	0.497	0	GABAergic	RPS6KA2
0	1.81409431	0.957	0.538	0	GABAergic	GRIP1
0	1.79950831	0.907	0.4	0	GABAergic	NETO2

0	1.79917681	0.678	0.174	0	GABAergic	PLD5
0	1.74735912	0.989	0.648	0	GABAergic	XKR4
0	1.71131104	0.858	0.312	0	GABAergic	KCTD8
0	1.70023896	0.746	0.093	0	GABAergic	ANK1
0	1.67968006	0.861	0.533	0	GABAergic	TENM3
0	1.66865407	0.9	0.679	0	GABAergic	GRID2
0	1.64505147	0.697	0.335	0	GABAergic	ALK
0	1.63194551	0.461	0.114	0	GABAergic	PDE3A
0	1.62851346	0.695	0.316	0	GABAergic	KIAA1217
0	1.61031103	0.999	0.861	0	GABAergic	GRIK2
0	1.60067119	0.711	0.311	0	GABAergic	RGS12
0	1.56520872	0.712	0.164	0	GABAergic	KCNIP1
0	1.55812819	0.673	0.138	0	GABAergic	VWC2
0	1.53001038	0.994	0.854	0	GABAergic	NRXN3
0	1.52319665	0.905	0.528	0	GABAergic	CNTN5
0	1.50562283	0.909	0.43	0	GABAergic	RAB3C
0	1.50233753	0.911	0.467	0	GABAergic	ANO4
0	1.48644986	0.829	0.641	0	GABAergic	UNC5D
0	1.48338333	0.816	0.187	0	GABAergic	SLC6A1
0	1.46319353	0.757	0.27	0	GABAergic	ELAVL2
0	1.46129805	0.988	0.769	0	GABAergic	KAZN
0	1.454482	0.772	0.248	0	GABAergic	RPH3A
0	1.45311941	0.651	0.037	0	GABAergic	GRIP2
0	1.43963017	0.239	0.071	0	GABAergic	SST
0	1.4388365	0.634	0.126	0	GABAergic	OSBPL3
0	1.42141608	0.476	0.253	0	GABAergic	IL1RAPL2
0	1.39876554	0.949	0.603	0	GABAergic	MYRIP
0	1.39287618	0.836	0.435	0	GABAergic	PEG3
0	1.39231323	0.998	0.803	0	GABAergic	FGF12
0	1.37951817	0.574	0.334	0	GABAergic	PTPRT
0	1.37366384	0.613	0.074	0	GABAergic	IGF1
0	1.37247398	0.512	0.141	0	GABAergic	GALNT14
0	1.36557616	0.819	0.329	0	GABAergic	KIAA1211
0	1.34785844	0.546	0.214	0	GABAergic	PLCXD3
0	1.33177186	0.532	0.281	0	GABAergic	EYS
0	1.32368555	0.687	0.333	0	GABAergic	TMEM132D
0	1.32028472	0.513	0.249	0	GABAergic	SDK1
0	1.31813206	0.665	0.45	0	GABAergic	RASGRF2
0	1.26939103	0.238	0.099	0	GABAergic	EYA4
0	1.26780494	0.826	0.407	0	GABAergic	CNTN4
0	1.26463246	0.376	0.121	0	GABAergic	STK32B

0	1.2522395	0.714	0.442	0	GABAergic	ZMAT4
0	1.24124058	0.929	0.76	0	GABAergic	OXR1
0	1.23445854	0.508	0.269	0	GABAergic	GRM8
0	1.19635603	0.442	0.009	0	GABAergic	LHX6
0	1.18536239	0.999	0.828	0	GABAergic	FGF14
0	1.18418891	0.393	0.049	0	GABAergic	BMP6
0	1.17499314	0.732	0.243	0	GABAergic	SLC8A3
0	1.1674315	0.514	0.188	0	GABAergic	EGFR
0	1.16162247	0.798	0.475	0	GABAergic	GABRG3
0	1.16106812	0.68	0.173	0	GABAergic	VAV2
0	1.15851389	0.623	0.424	0	GABAergic	FBXL7
0	1.1546151	0.642	0.176	0	GABAergic	VSTM2A
0	1.15020456	0.917	0.503	0	GABAergic	THRB
0	1.14400898	0.772	0.347	0	GABAergic	SYN3
0	1.14319353	0.793	0.364	0	GABAergic	CIT
0	1.13441519	0.9	0.717	0	GABAergic	ASIC2
0	1.13202782	0.906	0.543	0	GABAergic	RIMBP2
0	1.13091705	0.936	0.598	0	GABAergic	GABRB2
0	1.12861032	0.731	0.339	0	GABAergic	ADCY8
0	1.12593139	0.485	0.282	0	GABAergic	TRHDE
0	1.11462413	0.605	0.077	0	GABAergic	ANKRD55
0	1.10949876	0.559	0.212	0	GABAergic	TMEM132C
0	1.10566023	0.355	0.089	0	GABAergic	FBN2
0	1.09866536	0.787	0.462	0	GABAergic	MTUS2
0	1.09154137	0.878	0.58	0	GABAergic	CNTNAP5
0	1.09003871	0.863	0.554	0	GABAergic	GNAS
0	1.08970771	0.623	0.237	0	GABAergic	PIP5K1B
0	1.08885418	0.569	0.287	0	GABAergic	FRAS1
0	1.07234887	0.32	0.069	0	GABAergic	NOS1
0	1.07138635	0.654	0.24	0	GABAergic	FMN1
0	1.06603547	0.824	0.541	0	GABAergic	C8orf34
0	1.06346745	0.977	0.649	0	GABAergic	ATP8A2
0	1.06295551	0.936	0.765	0	GABAergic	ROBO1
0	1.06222744	0.683	0.254	0	GABAergic	PDZRN3
0	1.06157523	0.43	0.07	0	GABAergic	TOX3
0	1.04383719	0.679	0.298	0	GABAergic	METAP1D
0	1.03259312	0.511	0.208	0	GABAergic	SLC35F4
0	1.03222875	0.239	0.055	0	GABAergic	SV2C
0	1.0276933	0.932	0.623	0	GABAergic	ARNT2
0	1.02214429	0.986	0.628	0	GABAergic	TMEM178B
0	1.01845886	0.809	0.499	0	GABAergic	SYNPR

0	1.00453601	0.771	0.49	0	GABAergic	KCNAB1
0	1.00429192	0.976	0.661	0	GABAergic	SPOCK3
0	0.9986247	0.991	0.839	0	GABAergic	PDE4D
0	0.99767984	0.585	0.177	0	GABAergic	11-Mar
0	0.9874809	0.916	0.548	0	GABAergic	MEF2C
0	0.98624467	0.596	0.23	0	GABAergic	LRP8
0	0.97298383	0.801	0.434	0	GABAergic	CLVS1
0	0.96389265	0.37	0.116	0	GABAergic	PDE1C
0	0.95813067	0.51	0.146	0	GABAergic	WLS
0	0.94807378	0.823	0.431	0	GABAergic	SRRM4
0	0.94025211	0.465	0.08	0	GABAergic	SIAH3
0	0.93751673	0.791	0.44	0	GABAergic	4-Mar
0	0.93657953	0.551	0.21	0	GABAergic	FXVD6
0	0.93089658	0.643	0.25	0	GABAergic	NRSN1
0	0.92749692	0.741	0.441	0	GABAergic	LUZP2
0	0.92335419	0.449	0.135	0	GABAergic	ST8SIA4
0	0.91274343	0.394	0.102	0	GABAergic	ADAMTS6
0	0.91050439	0.636	0.386	0	GABAergic	INPP4B
0	0.90779008	0.685	0.366	0	GABAergic	GABRA1
0	0.90747757	0.605	0.246	0	GABAergic	FRMD3
0	0.90740729	0.843	0.543	0	GABAergic	ADCY2
0	0.90247711	0.617	0.2	0	GABAergic	AFAP1
0	0.90205238	0.964	0.786	0	GABAergic	DPP6
0	0.90070576	0.879	0.572	0	GABAergic	ASTN2
0	0.89565061	0.299	0.067	0	GABAergic	NXPH2
0	0.89451334	0.856	0.522	0	GABAergic	PAM
0	0.89248942	0.261	0.134	0	GABAergic	ADAMTSL1
0	0.8916446	0.655	0.418	0	GABAergic	TENM1
0	0.89108184	0.762	0.512	0	GABAergic	KIF26B
0	0.8680287	0.941	0.811	0	GABAergic	DPP10
0	0.86317815	0.64	0.21	0	GABAergic	RANBP17
0	0.85595621	0.815	0.503	0	GABAergic	NYAP2
0	0.8543949	0.509	0.258	0	GABAergic	CNTN6
0	0.84977395	0.518	0.183	0	GABAergic	PRMT8
0	0.84954938	0.618	0.254	0	GABAergic	ST8SIA5
0	0.84646076	0.573	0.218	0	GABAergic	RBMS1
0	0.8451288	0.698	0.389	0	GABAergic	L3MBTL4
0	0.8384051	0.659	0.35	0	GABAergic	DGKD
0	0.83578491	0.914	0.701	0	GABAergic	TMEM132B
0	0.82430588	0.548	0.136	0	GABAergic	NTN4
0	0.82381334	0.972	0.59	0	GABAergic	CACNA1B

0	2.4781069	0.989	0.423	0	Granule cell	CCDC85A
0	2.42327522	1	0.792	0	Granule cell	PPFIA2
0	2.24817378	0.864	0.195	0	Granule cell	ROR1
0	2.00059977	0.995	0.563	0	Granule cell	CDH8
0	1.89662731	0.956	0.42	0	Granule cell	SLIT3
0	1.87835047	0.984	0.386	0	Granule cell	COL25A1
0	1.8264663	0.98	0.648	0	Granule cell	RFX3
0	1.81611932	0.98	0.511	0	Granule cell	TIAM1
0	1.72610677	0.971	0.419	0	Granule cell	SPHKAP
0	1.70194347	0.988	0.476	0	Granule cell	CNTN5
0	1.69816598	0.981	0.504	0	Granule cell	GRM1
0	1.69745906	0.99	0.514	0	Granule cell	PLXNA4
0	1.68894375	1	0.73	0	Granule cell	RYR2
0	1.67910363	0.996	0.604	0	Granule cell	ZFPM2
0	1.65852951	0.996	0.604	0	Granule cell	ST6GALNAC5
0	1.64237062	0.997	0.552	0	Granule cell	TRPM3
0	1.60066407	0.941	0.444	0	Granule cell	SYNPR
0	1.58786597	0.997	0.725	0	Granule cell	PARD3
0	1.58202333	0.952	0.467	0	Granule cell	EPHA7
0	1.57057025	0.982	0.512	0	Granule cell	KCNJ6
0	1.550026	0.996	0.634	0	Granule cell	GABRB3
0	1.54570294	0.995	0.649	0	Granule cell	DAB1
0	1.52013685	1	0.832	0	Granule cell	STXBP5L
0	1.50342011	0.977	0.534	0	Granule cell	DAPK1
0	1.50023509	0.981	0.536	0	Granule cell	NELL1
0	1.4869434	0.853	0.291	0	Granule cell	ARHGAP6
0	1.47982765	0.68	0.133	0	Granule cell	GSG1L
0	1.46811484	0.91	0.448	0	Granule cell	ELMOD1
0	1.45520869	0.973	0.484	0	Granule cell	C8orf34
0	1.43782442	0.997	0.683	0	Granule cell	KCTD16
0	1.42826478	0.929	0.373	0	Granule cell	ZMAT4
0	1.41841464	0.891	0.322	0	Granule cell	PDE7B
0	1.41825343	0.948	0.423	0	Granule cell	UST
0	1.4150726	0.843	0.285	0	Granule cell	THSD7B
0	1.41422845	1	0.962	0	Granule cell	CADM2
0	1.40804729	0.873	0.354	0	Granule cell	UNC13C
0	1.40557126	0.831	0.238	0	Granule cell	ADRA1A
0	1.389573	0.996	0.611	0	Granule cell	GALNT17
0	1.38728728	0.774	0.317	0	Granule cell	LAMA3
0	1.38141627	0.799	0.234	0	Granule cell	IL1RAP
0	1.36106679	0.985	0.551	0	Granule cell	SPOCK1

0	1.35335464	0.999	0.877	0	Granule cell	NBEA
0	1.34718899	0.989	0.763	0	Granule cell	ACAP2
0	1.3465406	0.997	0.838	0	Granule cell	MYCBP2
0	1.33704441	0.883	0.411	0	Granule cell	TBC1D1
0	1.33325132	0.985	0.598	0	Granule cell	KCNH1
0	1.3282451	0.919	0.394	0	Granule cell	KIAA1211L
0	1.32411209	0.912	0.458	0	Granule cell	KIF26B
0	1.32032413	0.988	0.619	0	Granule cell	DPYD
0	1.31971459	0.854	0.359	0	Granule cell	SMAD3
0	1.31314034	0.933	0.577	0	Granule cell	KLHL2
0	1.30964271	0.905	0.434	0	Granule cell	GRK3
0	1.30229311	0.992	0.62	0	Granule cell	CACNA1E
0	1.30026134	0.876	0.386	0	Granule cell	ADCY1
0	1.29881164	0.999	0.763	0	Granule cell	ERC2
0	1.29680775	0.992	0.621	0	Granule cell	GALNT18
0	1.29493827	0.929	0.459	0	Granule cell	CDH9
0	1.29426722	0.701	0.188	0	Granule cell	NPY1R
0	1.29212527	0.985	0.544	0	Granule cell	SHISA9
0	1.28970994	0.995	0.587	0	Granule cell	CLSTN2
0	1.28527961	1	0.915	0	Granule cell	RBFOX1
0	1.27715894	0.999	0.894	0	Granule cell	PPP3CA
0	1.27697547	0.992	0.631	0	Granule cell	MCTP1
0	1.26862849	0.722	0.294	0	Granule cell	SNED1
0	1.26267831	0.737	0.198	0	Granule cell	PLEKHA2
0	1.24586009	0.974	0.56	0	Granule cell	ZBTB20
0	1.22405074	0.734	0.235	0	Granule cell	PCBP3
0	1.22179607	0.971	0.503	0	Granule cell	SEMA5A
0	1.20651066	0.844	0.283	0	Granule cell	CHST9
0	1.19058555	0.863	0.387	0	Granule cell	MAN1C1
0	1.18424515	0.955	0.507	0	Granule cell	PGBD5
0	1.18227427	0.921	0.52	0	Granule cell	GRIN2A
0	1.1821451	0.962	0.498	0	Granule cell	KLHL29
0	1.17883289	0.999	0.785	0	Granule cell	KALRN
0	1.17630105	0.879	0.428	0	Granule cell	GABRG3
0	1.17583115	0.973	0.465	0	Granule cell	CA10
0	1.16710145	0.593	0.161	0	Granule cell	BDNF
0	1.15999884	0.522	0.114	0	Granule cell	C1QL3
0	1.15515478	0.971	0.633	0	Granule cell	DIAPH2
0	1.15309825	0.999	0.775	0	Granule cell	LRRC7
0	1.15237606	0.995	0.683	0	Granule cell	CACNB2
0	1.14921077	0.999	0.842	0	Granule cell	CSMD3



0	1.1424168	0.78	0.28	0	Granule cell	SLC47A1
0	1.13971034	0.771	0.227	0	Granule cell	BCL11B
0	1.12960569	0.872	0.445	0	Granule cell	KIAA1549
0	1.1154573	0.449	0.067	0	Granule cell	MALRD1
0	1.11151035	0.769	0.335	0	Granule cell	BICC1
0	1.11073007	0.535	0.05	0	Granule cell	TRPC6
0	1.10203534	0.922	0.455	0	Granule cell	MAML3
0	1.10013488	0.955	0.566	0	Granule cell	KCNJ3
0	1.09792303	0.573	0.104	0	Granule cell	ADGRG2
0	1.0872484	0.994	0.687	0	Granule cell	CAMK1D
0	1.08671922	0.814	0.317	0	Granule cell	TANC1
0	1.07692287	0.975	0.561	0	Granule cell	CAMK2A
0	1.07228165	0.989	0.627	0	Granule cell	DGKG
0	1.05631811	0.892	0.535	0	Granule cell	EML5
0	1.04208552	0.925	0.499	0	Granule cell	CACNA1C
0	1.04042866	0.979	0.554	0	Granule cell	GABBR2
0	1.03960283	0.998	0.701	0	Granule cell	EPHA6
0	1.03768194	1	0.859	0	Granule cell	KCNIP4
0	1.03705626	0.708	0.291	0	Granule cell	PPM1E
0	1.03629822	0.902	0.468	0	Granule cell	NECAB1
0	1.03272429	0.814	0.376	0	Granule cell	NPTXR
0	1.03053248	0.929	0.518	0	Granule cell	SUSD4
0	1.0271959	0.822	0.363	0	Granule cell	DNAH9
0	1.02534069	0.878	0.498	0	Granule cell	GFOD1
0	1.02289333	0.985	0.628	0	Granule cell	FRMPD4
0	1.01760383	0.398	0.119	0	Granule cell	LRRC3B
0	1.01758511	0.936	0.601	0	Granule cell	CSNK1G1
0	0.99591249	0.989	0.684	0	Granule cell	NTRK3
0	0.99295158	0.71	0.255	0	Granule cell	FAT4
0	0.99194136	0.952	0.675	0	Granule cell	CEP112
0	0.98708584	0.986	0.715	0	Granule cell	CSMD2
0	0.98490833	1	0.909	0	Granule cell	CSMD1
0	0.98403907	0.492	0.145	0	Granule cell	ITGAE
0	0.98317105	0.678	0.285	0	Granule cell	GABRA5
0	0.9799779	0.856	0.389	0	Granule cell	PTK2B
0	0.97828522	0.998	0.752	0	Granule cell	LRRTM4
0	0.97795148	0.601	0.123	0	Granule cell	TSPAN18
0	0.97493662	0.967	0.599	0	Granule cell	SORL1
0	0.96622908	0.578	0.199	0	Granule cell	OPRD1
0	0.96303045	0.82	0.439	0	Granule cell	CHCHD6
0	0.95445887	0.858	0.493	0	Granule cell	MTMR7

0	0.92043408	0.602	0.536	0	Granule cell	FAM155A
0	0.91758131	0.458	0.253	0	Granule cell	ARHGAP44
0	0.91685119	0.925	0.544	0	Granule cell	GABRA2
0	0.9168366	0.985	0.663	0	Granule cell	CACNA2D1
0	0.9129993	0.632	0.133	0	Granule cell	PROX1
0	0.90863335	0.773	0.393	0	Granule cell	DPY19L3
0	0.90789833	0.857	0.463	0	Granule cell	SCN3A
0	0.90590195	0.965	0.631	0	Granule cell	NEBL
0	0.89749468	0.526	0.145	0	Granule cell	NHSL2
0	0.8909609	0.999	0.745	0	Granule cell	GRIA1
0	0.88623624	0.996	0.704	0	Granule cell	GRIN2B
0	0.88574234	0.551	0.202	0	Granule cell	RHBDL3
0	0.88166984	0.747	0.334	0	Granule cell	ADAMTS3
0	0.88071317	0.935	0.572	0	Granule cell	CACNA1D
0	0.8742687	0.603	0.337	0	Granule cell	RBFOX3
0	0.86961312	0.482	0.404	0	Granule cell	CELF2
0	0.86349767	0.818	0.399	0	Granule cell	RASGRF2
0	0.8634128	0.987	0.758	0	Granule cell	BTBD9
0	0.86337422	0.484	0.124	0	Granule cell	LONRF3
0	0.86278849	0.979	0.639	0	Granule cell	RAPGEF4
0	0.86175054	0.963	0.6	0	Granule cell	KCNMA1
0	0.85887867	0.943	0.645	0	Granule cell	NSF
0	0.8562097	0.984	0.753	0	Granule cell	SIPA1L1
0	0.84471696	0.97	0.728	0	Granule cell	TTC3
0	0.84172453	0.789	0.443	0	Granule cell	CTDSPL
0	0.83275405	0.799	0.445	0	Granule cell	GABRG2
0	0.82922888	0.999	0.787	0	Granule cell	TENM2
0	3.80486149	0.915	0.198	0	Microglia	VAV3
0	3.79104274	0.876	0.047	0	Microglia	INPP5D
0	3.73187433	0.89	0.051	0	Microglia	APBB1IP
0	3.70595948	0.814	0.091	0	Microglia	ENTPD1
0	3.49272251	0.88	0.17	0	Microglia	ARHGAP15
0	3.35438702	0.983	0.621	0	Microglia	PLXDC2
0	3.21169711	0.816	0.029	0	Microglia	DOCK8
0	3.1356118	0.707	0.021	0	Microglia	A2M
0	3.05439118	0.81	0.079	0	Microglia	DOCK2
0	2.99547525	0.967	0.6	0	Microglia	ST6GALNAC3
0	2.87512966	0.788	0.336	0	Microglia	FKBP5
0	2.79014591	0.724	0.111	0	Microglia	MERTK
0	2.78402566	0.692	0.023	0	Microglia	SLCO2B1
0	2.76237333	0.781	0.392	0	Microglia	RTTN

0	2.74122043	0.643	0.018	0	Microglia	CSF1R
0	2.73232075	0.617	0.056	0	Microglia	ADAM28
0	2.70323139	0.665	0.029	0	Microglia	FYB1
0	2.6648729	0.95	0.667	0	Microglia	MEF2A
0	2.57831913	0.803	0.244	0	Microglia	IPCEF1
0	2.51279843	0.627	0.09	0	Microglia	ARHGAP24
0	2.50925139	0.93	0.549	0	Microglia	ARHGAP22
0	2.48654427	0.595	0.018	0	Microglia	MS4A7
0	2.4812295	0.726	0.163	0	Microglia	FMNL3
0	2.46734982	0.613	0.176	0	Microglia	FAM149A
0	2.45739752	0.642	0.025	0	Microglia	FLI1
0	2.42443846	0.611	0.01	0	Microglia	IKZF1
0	2.37548218	0.651	0.116	0	Microglia	ATP8B4
0	2.37130143	0.64	0.06	0	Microglia	PLCG2
0	2.36025427	0.548	0.042	0	Microglia	TGFBR2
0	2.35274088	0.715	0.26	0	Microglia	ABCC4
0	2.34472613	0.893	0.551	0	Microglia	CAPZB
0	2.33769978	0.81	0.191	0	Microglia	BNC2
0	2.32652674	0.76	0.291	0	Microglia	AP1B1
0	2.31705971	0.551	0.032	0	Microglia	GAB3
0	2.30596706	0.946	0.651	0	Microglia	SORL1
0	2.30544351	0.347	0.02	0	Microglia	PALD1
0	2.30535912	0.6	0.074	0	Microglia	SCML4
0	2.30163984	0.618	0.086	0	Microglia	RCSD1
0	2.29487842	0.918	0.547	0	Microglia	FCHSD2
0	2.28111043	0.643	0.184	0	Microglia	SKAP2
0	2.26820108	0.503	0.02	0	Microglia	RUNX1
0	2.26120671	0.963	0.711	0	Microglia	SLC9A9
0	2.25930508	0.58	0.046	0	Microglia	BLNK
0	2.24372417	0.703	0.208	0	Microglia	ZFHX3
0	2.21277484	0.515	0.023	0	Microglia	PTPRC
0	2.20059509	0.557	0.011	0	Microglia	BIN2
0	2.18555046	0.541	0.024	0	Microglia	IFI16
0	2.16036016	0.606	0.121	0	Microglia	RNASSET2
0	2.14666672	0.564	0.03	0	Microglia	LYN
0	2.14573434	0.776	0.297	0	Microglia	TMCC3
0	2.14268984	0.94	0.612	0	Microglia	GAB2
0	2.1351715	0.438	0.011	0	Microglia	MRC1
0	2.1299893	0.556	0.044	0	Microglia	RBM47
0	2.12946419	0.506	0.019	0	Microglia	TRIM22
0	2.12366841	0.598	0.117	0	Microglia	TGFB1

0	2.1208297	0.548	0.032	0	Microglia	AOAH
0	2.1174353	0.518	0.01	0	Microglia	LCP2
0	2.10449406	0.462	0.008	0	Microglia	MNDA
0	2.10439339	0.854	0.558	0	Microglia	ABR
0	2.09703672	0.933	0.588	0	Microglia	ASTN2
0	2.08037914	0.677	0.275	0	Microglia	GUCY1A1
0	2.07361148	0.488	0.015	0	Microglia	SLC2A5
0	2.06792281	0.614	0.143	0	Microglia	TGFBR1
0	2.04950608	0.521	0.17	0	Microglia	IFNGR1
0	2.03645263	0.519	0.012	0	Microglia	WDFY4
0	2.03442776	0.503	0.019	0	Microglia	ITGAM
0	2.02381722	0.728	0.341	0	Microglia	DEPTOR
0	2.01126154	0.326	0.01	0	Microglia	C1QC
0	2.00778964	0.495	0.015	0	Microglia	TBXAS1
0	1.98984184	0.534	0.244	0	Microglia	APOE
0	1.98342718	0.447	0.055	0	Microglia	PLA2G4A
0	1.98338638	0.506	0.024	0	Microglia	RGS10
0	1.97936158	0.42	0.054	0	Microglia	P2RY12
0	1.97645399	0.83	0.421	0	Microglia	ANKRD44
0	1.97611599	0.493	0.051	0	Microglia	PGM5
0	1.97338118	0.481	0.017	0	Microglia	PIK3R5
0	1.96642879	0.716	0.347	0	Microglia	SFMBT2
0	1.9630068	0.518	0.102	0	Microglia	VWF
0	1.92068851	0.466	0.033	0	Microglia	C3
0	1.91486051	0.421	0.009	0	Microglia	CX3CR1
0	1.90857779	0.945	0.779	0	Microglia	SNX29
0	1.90313567	0.307	0.011	0	Microglia	C1QB
0	1.8903188	0.856	0.514	0	Microglia	MTSS1
0	1.88858099	0.746	0.405	0	Microglia	LRMDA
0	1.88766956	0.758	0.405	0	Microglia	CTNND1
0	1.88674406	0.878	0.639	0	Microglia	FOXN3
0	1.88306747	0.29	0.036	0	Microglia	CD163
0	1.87894991	0.774	0.441	0	Microglia	EPS15
0	1.87785764	0.811	0.311	0	Microglia	PLD1
0	1.87614432	0.47	0.012	0	Microglia	SYK
0	1.85936182	0.985	0.675	0	Microglia	ELMO1
0	1.85935903	0.909	0.711	0	Microglia	PICALM
0	1.83695701	0.393	0.012	0	Microglia	AIM2
0	1.83155215	0.683	0.392	0	Microglia	LRP11
0	1.82923757	0.608	0.267	0	Microglia	IFNGR2
0	1.82578665	0.554	0.132	0	Microglia	ITGB5

0	1.81844553	0.501	0.114	0	Microglia	PRCP
0	1.8111538	0.441	0.025	0	Microglia	PIK3AP1
0	1.79696443	0.632	0.322	0	Microglia	SIPA1L2
0	1.79686524	0.687	0.418	0	Microglia	PDE3B
0	1.78548024	0.672	0.275	0	Microglia	ETV6
0	1.77299097	0.448	0.041	0	Microglia	NFATC2
0	1.76043668	0.44	0.02	0	Microglia	NCKAP1L
0	1.753479	0.881	0.431	0	Microglia	ITPR2
0	1.74828536	0.446	0.015	0	Microglia	PLCB2
0	1.74148309	0.403	0.008	0	Microglia	LAPTM5
0	1.7365384	0.273	0.014	0	Microglia	SLC11A1
0	1.71058492	0.416	0.009	0	Microglia	FGD2
0	1.70766584	0.485	0.152	0	Microglia	ST8SIA4
0	1.69947725	0.537	0.104	0	Microglia	RUBCNL
0	1.69427535	0.846	0.596	0	Microglia	LDLRAD4
0	1.69228256	0.827	0.362	0	Microglia	PREX1
0	1.68924525	0.765	0.434	0	Microglia	FGD4
0	1.67707076	0.354	0.09	0	Microglia	DAB2
0	1.66568962	0.441	0.027	0	Microglia	SP110
0	1.66177917	0.547	0.194	0	Microglia	CYFIP1
0	1.65028198	0.636	0.321	0	Microglia	PACSIN2
0	1.63764745	0.361	0.07	0	Microglia	CLCN5
0	1.63688933	0.633	0.353	0	Microglia	RUNX2
0	1.63548167	0.649	0.417	0	Microglia	SMAP2
0	1.62946737	0.409	0.015	0	Microglia	VAV1
0	1.62229848	0.593	0.423	0	Microglia	SYNDIG1
0	1.62186503	0.463	0.081	0	Microglia	SP100
0	1.61678302	0.771	0.44	0	Microglia	MAN1A1
0	1.6149717	0.903	0.57	0	Microglia	MEF2C
0	1.608768	0.385	0.015	0	Microglia	HCK
0	1.59814694	0.903	0.674	0	Microglia	EPB41L2
0	1.59537725	0.94	0.839	0	Microglia	SSH2
0	1.59427401	0.427	0.072	0	Microglia	LRRK1
0	1.5880394	0.377	0.091	0	Microglia	THSD4
0	1.56925524	0.445	0.118	0	Microglia	NRROS
0	1.554472	0.466	0.08	0	Microglia	ZFP36L1
0	1.5479822	0.369	0.03	0	Microglia	TNFRSF1B
0	1.54216616	0.675	0.439	0	Microglia	ARRB1
0	1.53926426	0.847	0.635	0	Microglia	NAV3
0	1.53524496	0.935	0.849	0	Microglia	MED13L
0	1.52902338	0.91	0.728	0	Microglia	SH3RF3

0	1.52644948	0.779	0.554	0	Microglia	LRCH1
0	1.52616047	0.497	0.191	0	Microglia	DOCK11
0	1.52394565	0.471	0.228	0	Microglia	LGMN
0	1.51038312	0.681	0.468	0	Microglia	RAPGEF1
0	1.50955279	0.345	0.029	0	Microglia	TMIGD3
0	1.50379075	0.357	0.023	0	Microglia	VSIR
0	1.4969105	0.663	0.398	0	Microglia	IKBKB
0	1.49653252	0.361	0.026	0	Microglia	CMKLR1
0	1.4903107	0.75	0.624	0	Microglia	ZSWIM6
0	1.48712386	0.728	0.53	0	Microglia	ANKS1A
0	1.48375925	0.825	0.523	0	Microglia	MAML3
0	1.48310972	0.917	0.711	0	Microglia	KCNQ3
0	1.47882897	0.593	0.358	0	Microglia	TBC1D4
4.12E-21	0.78785181	0.287	0.223	5.64E-17	NN	TMEM131L
3.39E-22	0.79479672	0.266	0.197	4.64E-18	NN	RPS15
7.90E-28	0.86897619	0.373	0.313	1.08E-23	NN	RPL22
1.40E-30	0.77566893	0.256	0.167	1.91E-26	NN	PLCH1
6.90E-31	0.80991501	0.395	0.323	9.44E-27	NN	C4orf45
1.12E-37	0.81100434	0.293	0.197	1.54E-33	NN	HNRNPH3
1.01E-37	0.78128491	0.504	0.431	1.38E-33	NN	YWHAB
1.65E-38	0.90108732	0.264	0.168	2.25E-34	NN	ARRDC3
5.72E-41	0.8117575	0.325	0.218	7.82E-37	NN	ND3
2.60E-41	0.92335926	0.452	0.386	3.55E-37	NN	RIC3
2.57E-42	0.77744297	0.594	0.566	3.51E-38	NN	SPIN1
1.99E-42	0.91550113	0.301	0.199	2.73E-38	NN	KITLG
9.23E-43	0.9093506	0.462	0.394	1.26E-38	NN	CBLB
3.71E-43	0.80255913	0.423	0.318	5.08E-39	NN	ACACA
9.39E-44	0.79421275	0.54	0.495	1.28E-39	NN	XPR1
6.37E-45	0.83886966	0.561	0.527	8.71E-41	NN	UBE2E3
1.69E-45	0.94581504	0.295	0.189	2.31E-41	NN	RPL10
3.76E-46	0.80026184	0.451	0.346	5.14E-42	NN	PPIA
1.85E-46	0.91096138	0.411	0.309	2.54E-42	NN	LY6H
7.88E-47	0.79935201	0.517	0.456	1.08E-42	NN	SLC1A1
1.17E-48	0.79129593	0.565	0.497	1.60E-44	NN	UCHL1
1.19E-49	0.92388372	0.378	0.265	1.63E-45	NN	DCX
1.46E-52	0.85245756	0.518	0.413	1.99E-48	NN	YWHAH
6.49E-54	0.89942421	0.529	0.449	8.87E-50	NN	PUM2
8.46E-55	0.80083088	0.594	0.529	1.16E-50	NN	SCN3A
3.39E-57	0.82250636	0.516	0.384	4.64E-53	NN	TEAD1
3.14E-63	0.8173413	0.471	0.329	4.30E-59	NN	EPHB1
1.11E-63	0.93234413	0.272	0.141	1.51E-59	NN	ANTXR2

2.67E-64	0.91066342	0.199	0.088	3.65E-60	NN	AADAT
1.35E-64	0.89855833	0.439	0.296	1.84E-60	NN	ND2
9.29E-65	1.08642107	0.334	0.202	1.27E-60	NN	CBFA2T2
9.23E-65	0.88402068	0.334	0.19	1.26E-60	NN	PCP4
2.79E-68	0.90587664	0.504	0.374	3.81E-64	NN	KIAA1211
4.59E-69	0.85549494	0.665	0.614	6.28E-65	NN	PCDHAC2
8.19E-70	1.19720862	0.818	0.719	1.12E-65	NN	NRG1
2.70E-71	0.79819826	0.67	0.582	3.70E-67	NN	SEMA5A
4.30E-72	0.84971837	0.705	0.658	5.89E-68	NN	SYT14
2.08E-72	0.87121255	0.63	0.595	2.85E-68	NN	EML5
1.84E-72	1.25173502	0.408	0.276	2.51E-68	NN	VRK1
8.37E-75	0.99699565	0.615	0.511	1.14E-70	NN	GALNTL6
8.24E-75	0.97856446	0.465	0.307	1.13E-70	NN	UBB
1.78E-75	1.03680648	0.414	0.263	2.43E-71	NN	RPL15
4.29E-77	1.04782167	0.355	0.205	5.86E-73	NN	RPL4
5.05E-78	0.9910879	0.648	0.603	6.91E-74	NN	CNOT2
1.99E-78	1.00800892	0.549	0.416	2.72E-74	NN	SERINC1
1.16E-78	0.91445918	0.624	0.549	1.59E-74	NN	ENOX1
8.82E-80	1.11740318	0.394	0.245	1.21E-75	NN	NR2F1
3.54E-83	0.91761621	0.482	0.312	4.85E-79	NN	ACTB
3.53E-83	1.12582069	0.492	0.35	4.83E-79	NN	PALLD
1.29E-85	0.97371822	0.657	0.556	1.76E-81	NN	CDH10
4.91E-86	0.83142589	0.238	0.099	6.71E-82	NN	GCNT2
2.21E-86	0.91393552	0.451	0.27	3.02E-82	NN	FGFR1
1.00E-87	0.7788194	0.188	0.068	1.37E-83	NN	SLCO5A1
6.99E-91	0.99127123	0.559	0.402	9.56E-87	NN	ADAMTS3
4.60E-91	1.04611951	0.237	0.099	6.30E-87	NN	MDGA1
3.79E-91	0.91417027	0.315	0.146	5.19E-87	NN	TLL1
1.78E-93	1.2465761	0.433	0.271	2.43E-89	NN	GLRA2
2.80E-94	0.90882356	0.697	0.582	3.83E-90	NN	GNAS
9.86E-97	1.17684012	0.548	0.411	1.35E-92	NN	CTNNB1
8.04E-102	0.9691367	0.282	0.124	1.10E-97	NN	ISLR2
5.95E-103	1.01584552	0.401	0.216	8.14E-99	NN	C14orf132
1.51E-103	0.88119654	0.684	0.552	2.06E-99	NN	PTPRO
9.64E-104	0.83654513	0.764	0.732	1.32E-99	NN	PHF14
6.59E-104	0.90016464	0.726	0.585	9.01E-100	NN	CALM2
7.44E-107	0.78335692	0.727	0.59	1.02E-102	NN	KCNJ6
5.72E-109	1.15477571	0.353	0.176	7.83E-105	NN	SEMA5B
1.50E-109	1.23164715	0.638	0.548	2.05E-105	NN	EPHA7
4.51E-110	0.80784413	0.863	0.819	6.16E-106	NN	MLLT3
2.93E-110	0.97906803	0.579	0.383	4.00E-106	NN	RBM26

2.70E-110	1.19005876	0.57	0.414	3.70E-106	NN	ASXL3
1.41E-110	0.91183772	0.577	0.371	1.93E-106	NN	UBC
1.99E-111	1.03899991	0.608	0.462	2.72E-107	NN	NSG2
6.48E-112	0.81914153	0.694	0.484	8.86E-108	NN	MYO16
5.06E-112	1.08187534	0.225	0.079	6.92E-108	NN	GLIS1
2.06E-112	1.19177719	0.572	0.419	2.81E-108	NN	CCNH
2.05E-113	0.98339339	0.709	0.648	2.81E-109	NN	6-Mar
2.50E-114	0.81788681	0.775	0.648	3.42E-110	NN	DOK6
8.09E-116	0.93647945	0.209	0.068	1.11E-111	NN	EZR
7.84E-117	1.23153687	0.394	0.208	1.07E-112	NN	GNG2
1.94E-118	0.85233513	0.487	0.267	2.65E-114	NN	NHSL1
3.84E-123	1.09568737	0.506	0.287	5.25E-119	NN	GAPDH
3.09E-126	0.89204389	0.678	0.484	4.22E-122	NN	THSD7A
1.03E-126	1.07040761	0.708	0.56	1.41E-122	NN	KLF12
5.16E-128	1.1982322	0.634	0.463	7.05E-124	NN	IGF1R
7.92E-130	0.85772205	0.253	0.087	1.08E-125	NN	NTF3
2.28E-130	0.86818204	0.665	0.448	3.11E-126	NN	PCDH15
2.31E-134	1.43009149	0.46	0.262	3.16E-130	NN	LRP8
4.68E-135	1.31060504	0.75	0.681	6.40E-131	NN	DPYD
3.09E-139	1.1866681	0.546	0.33	4.22E-135	NN	FAT4
5.92E-143	1.10088124	0.668	0.525	8.09E-139	NN	ELMOD1
3.31E-143	1.08386789	0.855	0.743	4.53E-139	NN	DGKB
2.64E-143	1.0504688	0.422	0.193	3.61E-139	NN	ATP6
9.75E-145	1.07723565	0.747	0.614	1.33E-140	NN	CHL1
7.74E-145	0.84667567	0.797	0.703	1.06E-140	NN	RFX3
4.79E-145	1.40714137	0.636	0.45	6.55E-141	NN	NRP1
1.99E-148	0.94417367	0.573	0.311	2.73E-144	NN	ND1
6.24E-151	0.85698061	0.624	0.364	8.53E-147	NN	CYTB
3.04E-151	1.01472224	0.715	0.54	4.16E-147	NN	NECAB1
4.07E-158	1.00711022	0.772	0.709	5.56E-154	NN	RASA1
4.34E-165	1.18417342	0.616	0.376	5.93E-161	NN	STMN1
1.65E-165	1.36951357	0.54	0.309	2.25E-161	NN	TUBB
1.13E-165	1.16410521	0.64	0.41	1.54E-161	NN	PCSK5
1.57E-167	1.38433601	0.366	0.149	2.14E-163	NN	SEMA3A
1.37E-167	1.3583838	0.738	0.569	1.87E-163	NN	1-Mar
7.21E-168	1.32485605	0.388	0.166	9.86E-164	NN	DPYSL3
5.77E-168	0.96461937	0.814	0.561	7.89E-164	NN	FRMD4B
8.90E-171	0.98945861	0.889	0.769	1.22E-166	NN	NFIA
1.95E-173	1.25286706	0.685	0.501	2.66E-169	NN	FNBP1L
7.18E-174	1.12540247	0.574	0.32	9.83E-170	NN	NRP2
2.32E-178	1.15698029	0.729	0.517	3.17E-174	NN	CCDC85A



9.91E-179	0.84046867	0.882	0.734	1.36E-174	NN	NTRK3
3.31E-179	0.96221987	0.814	0.609	4.53E-175	NN	NELL1
3.48E-180	1.02331515	0.271	0.081	4.76E-176	NN	LYPD6
8.13E-182	0.82812248	0.896	0.653	1.11E-177	NN	CLSTN2
5.19E-192	1.55033816	0.687	0.492	7.10E-188	NN	PLXNA2
1.83E-197	1.33936157	0.659	0.416	2.50E-193	NN	ACTG1
4.53E-207	1.48142349	0.522	0.268	6.19E-203	NN	NREP
9.85E-208	1.132507	0.946	0.822	1.35E-203	NN	TENM2
8.22E-232	1.56079084	0.584	0.31	1.12E-227	NN	ZBTB18
3.70E-232	0.97015	0.917	0.741	5.05E-228	NN	PRKG1
2.47E-236	1.12080694	0.697	0.354	3.38E-232	NN	COX2
9.23E-237	1.29768517	0.75	0.439	1.26E-232	NN	FBXL7
1.23E-243	1.45309414	0.652	0.335	1.69E-239	NN	SETBP1
3.73E-244	1.04591748	0.865	0.628	5.10E-240	NN	ZBTB20
1.04E-247	0.96598576	0.242	0.052	1.42E-243	NN	SMO
6.41E-255	1.31276268	0.331	0.094	8.77E-251	NN	ST8SIA2
7.78E-268	1.27768707	0.596	0.247	1.06E-263	NN	ND4
4.75E-270	1.12787534	0.801	0.443	6.50E-266	NN	COX3
2.28E-271	1.61732778	0.711	0.431	3.12E-267	NN	FGF13
1.90E-272	0.83982347	0.195	0.033	2.60E-268	NN	PROKR2
8.54E-275	1.3858666	0.414	0.134	1.17E-270	NN	TUBB2B
3.00E-275	1.80886926	0.418	0.137	4.10E-271	NN	PDE1C
4.70E-277	1.48983831	0.863	0.716	6.43E-273	NN	CDH2
3.59E-294	1.15829603	0.869	0.601	4.90E-290	NN	PTPRZ1
7.37E-298	0.99001988	0.984	0.961	1.01E-293	NN	TCF4
1.68E-302	1.08719389	0.938	0.792	2.30E-298	NN	MAP2
0	2.82570285	0.678	0.14	0	NN	SEMA3C
0	2.08907134	0.714	0.329	0	NN	KCNH7
0	2.06294956	0.864	0.483	0	NN	COL25A1
0	1.93644306	0.595	0.242	0	NN	NNAT
0	1.90460633	0.731	0.387	0	NN	ABLIM3
0	1.90359785	0.945	0.667	0	NN	ZFPM2
0	1.84815162	0.613	0.214	0	NN	PROX1
0	1.71111072	0.887	0.662	0	NN	NFIB
0	1.68623956	0.841	0.508	0	NN	SLIT3
0	1.66060802	0.946	0.778	0	NN	TTC28
0	1.36867582	0.967	0.68	0	NN	NKAIN3
0	1.29069668	0.9	0.716	0	NN	CACNA2D1
0	1.20127283	0.98	0.874	0	NN	CCSER1
0	1.11101031	0.991	0.928	0	NN	DCC
0	5.2781412	0.992	0.579	0	NSC/Astrocyt	SLC1A2

0	4.82767004	0.999	0.435	0	NSC/Astrocyt	ADGRV1
0	3.95689224	0.979	0.251	0	NSC/Astrocyt	SLC1A3
0	3.27547386	0.844	0.487	0	NSC/Astrocyt	GPC5
0	3.23865955	0.843	0.058	0	NSC/Astrocyt	GLI3
0	3.08477271	0.795	0.063	0	NSC/Astrocyt	SLC25A18
0	3.0613074	0.757	0.087	0	NSC/Astrocyt	RGS20
0	2.99619302	0.896	0.339	0	NSC/Astrocyt	SPARCL1
0	2.98350573	0.864	0.236	0	NSC/Astrocyt	PREX2
0	2.9473148	0.992	0.721	0	NSC/Astrocyt	MSI2
0	2.88121464	0.557	0.076	0	NSC/Astrocyt	GFAP
0	2.81106907	0.915	0.397	0	NSC/Astrocyt	SLC4A4
0	2.76242878	0.557	0.058	0	NSC/Astrocyt	ALDH1A1
0	2.75903202	0.68	0.024	0	NSC/Astrocyt	ETNPPL
0	2.72485602	0.976	0.658	0	NSC/Astrocyt	DTNA
0	2.71518976	0.998	0.843	0	NSC/Astrocyt	GPM6A
0	2.71024318	0.641	0.216	0	NSC/Astrocyt	APOE
0	2.69867176	0.766	0.094	0	NSC/Astrocyt	GRAMD2B
0	2.67134119	0.743	0.222	0	NSC/Astrocyt	NHSL1
0	2.66866929	0.813	0.123	0	NSC/Astrocyt	ATP13A4
0	2.63135484	0.637	0.074	0	NSC/Astrocyt	AQP4
0	2.61641521	0.619	0.04	0	NSC/Astrocyt	ITGB4
0	2.5829534	0.796	0.277	0	NSC/Astrocyt	RFX4
0	2.54189916	0.998	0.807	0	NSC/Astrocyt	NTM
0	2.53942108	0.777	0.315	0	NSC/Astrocyt	ZNRF3
0	2.50110043	0.513	0.025	0	NSC/Astrocyt	TNC
0	2.44887258	0.861	0.349	0	NSC/Astrocyt	CDH4
0	2.40510119	0.911	0.582	0	NSC/Astrocyt	OPHN1
0	2.40199472	0.894	0.535	0	NSC/Astrocyt	CARMIL1
0	2.3766529	0.799	0.263	0	NSC/Astrocyt	LRIG1
0	2.35658373	0.992	0.88	0	NSC/Astrocyt	TNIK
0	2.35658271	0.792	0.189	0	NSC/Astrocyt	PLCE1
0	2.35373175	0.792	0.22	0	NSC/Astrocyt	FGFR1
0	2.33509433	0.633	0.122	0	NSC/Astrocyt	ANGPT1
0	2.33094717	0.838	0.381	0	NSC/Astrocyt	SFXN5
0	2.32235959	0.826	0.444	0	NSC/Astrocyt	MMD2
0	2.28782956	0.995	0.652	0	NSC/Astrocyt	NKAIN3
0	2.27456578	0.991	0.844	0	NSC/Astrocyt	NPAS3
0	2.22647071	0.685	0.123	0	NSC/Astrocyt	SLC15A2
0	2.22490686	0.936	0.679	0	NSC/Astrocyt	CPE
0	2.20777107	0.6	0.076	0	NSC/Astrocyt	TCF7L1
0	2.20203859	0.73	0.291	0	NSC/Astrocyt	EPHB1

0	2.20082251	0.835	0.644	0	NSC/Astrocyt	NTRK2
0	2.19732682	0.545	0.016	0	NSC/Astrocyt	ACSBG1
0	2.17513044	0.773	0.393	0	NSC/Astrocyt	PDZRN4
0	2.17264911	0.813	0.461	0	NSC/Astrocyt	ZHX3
0	2.17213999	0.897	0.55	0	NSC/Astrocyt	ABLIM1
0	2.16365565	0.739	0.272	0	NSC/Astrocyt	TPCN1
0	2.12994813	0.856	0.532	0	NSC/Astrocyt	GABBR1
0	2.11081347	0.555	0.11	0	NSC/Astrocyt	PAMR1
0	2.09479197	0.723	0.444	0	NSC/Astrocyt	CLU
0	2.07998201	0.411	0.102	0	NSC/Astrocyt	WIF1
0	2.06647654	0.554	0.04	0	NSC/Astrocyt	MFGE8
0	2.05695564	0.953	0.681	0	NSC/Astrocyt	SORBS1
0	2.04768788	0.528	0.03	0	NSC/Astrocyt	LAMA1
0	2.03203266	0.5	0.076	0	NSC/Astrocyt	BMPR1B
0	2.02674592	0.74	0.354	0	NSC/Astrocyt	ANTXR1
0	2.02163942	0.894	0.693	0	NSC/Astrocyt	ASB3
0	2.01801523	0.985	0.719	0	NSC/Astrocyt	PRKG1
0	2.00665919	0.487	0.064	0	NSC/Astrocyt	EFEMP1
0	1.98413216	0.523	0.032	0	NSC/Astrocyt	MRVI1
0	1.97403462	0.604	0.142	0	NSC/Astrocyt	FGD6
0	1.90513033	0.63	0.227	0	NSC/Astrocyt	FADS2
0	1.89668419	0.537	0.097	0	NSC/Astrocyt	GRAMD1C
0	1.87932929	0.799	0.465	0	NSC/Astrocyt	CAMK2G
0	1.8518494	0.529	0.177	0	NSC/Astrocyt	PHKA1
0	1.84628448	0.538	0.174	0	NSC/Astrocyt	FAM107A
0	1.83392417	0.815	0.465	0	NSC/Astrocyt	FARP1
0	1.83341411	0.57	0.182	0	NSC/Astrocyt	TIMP3
0	1.82174613	0.516	0.068	0	NSC/Astrocyt	ARHGEF26
0	1.81032263	0.899	0.566	0	NSC/Astrocyt	SASH1
0	1.81025973	0.557	0.252	0	NSC/Astrocyt	ANOS1
0	1.80863353	0.741	0.417	0	NSC/Astrocyt	FGD4
0	1.80850569	0.598	0.222	0	NSC/Astrocyt	STON2
0	1.80083949	0.439	0.064	0	NSC/Astrocyt	COL5A3
0	1.79714609	0.728	0.266	0	NSC/Astrocyt	ZFHX4
0	1.78985322	0.508	0.064	0	NSC/Astrocyt	NDRG2
0	1.78984647	0.662	0.45	0	NSC/Astrocyt	LUZP2
0	1.77443725	0.749	0.344	0	NSC/Astrocyt	LHFPL6
0	1.76045311	0.969	0.751	0	NSC/Astrocyt	NFIA
0	1.75655148	0.551	0.104	0	NSC/Astrocyt	RORB
0	1.75504095	0.465	0.046	0	NSC/Astrocyt	MYBPC1
0	1.75024	0.728	0.392	0	NSC/Astrocyt	TTYH1

0	1.74299431	0.75	0.379	0	NSC/Astrocyt	PCSK5
0	1.73899869	0.406	0.057	0	NSC/Astrocyt	SNTB1
0	1.72885033	0.366	0.013	0	NSC/Astrocyt	FGFR3
0	1.72725213	0.764	0.35	0	NSC/Astrocyt	TCF7L2
0	1.72008622	0.45	0.019	0	NSC/Astrocyt	MLC1
0	1.71953184	0.615	0.329	0	NSC/Astrocyt	OLFM2
0	1.71887291	0.847	0.402	0	NSC/Astrocyt	FBXL7
0	1.71820139	0.472	0.077	0	NSC/Astrocyt	COL5A1
0	1.71254857	0.702	0.21	0	NSC/Astrocyt	ACACB
0	1.71239246	0.56	0.104	0	NSC/Astrocyt	BCAN
0	1.70872749	0.866	0.818	0	NSC/Astrocyt	DPP10
0	1.7073223	0.556	0.167	0	NSC/Astrocyt	PLEKHA7
0	1.69808963	0.409	0.162	0	NSC/Astrocyt	ALPK3
0	1.68009825	0.344	0.014	0	NSC/Astrocyt	PRDM16
0	1.66505267	0.563	0.238	0	NSC/Astrocyt	ARHGEF10L
0	1.65055765	0.644	0.253	0	NSC/Astrocyt	LIFR
0	1.64196414	0.856	0.468	0	NSC/Astrocyt	SOX5
0	1.63706284	0.482	0.079	0	NSC/Astrocyt	ARHGAP31
0	1.63352287	0.471	0.157	0	NSC/Astrocyt	HOPX
0	1.63349487	0.557	0.299	0	NSC/Astrocyt	NRP2
0	1.62867246	0.902	0.561	0	NSC/Astrocyt	TRPS1
0	1.6215707	0.439	0.083	0	NSC/Astrocyt	RGCC
0	1.6156536	0.579	0.152	0	NSC/Astrocyt	KANK1
0	1.61411113	0.581	0.146	0	NSC/Astrocyt	PDLIM5
0	1.61107451	0.572	0.307	0	NSC/Astrocyt	CHPT1
0	1.60739369	0.654	0.284	0	NSC/Astrocyt	CRB1
0	1.60403876	0.994	0.887	0	NSC/Astrocyt	CTNND2
0	1.60372554	0.476	0.087	0	NSC/Astrocyt	BMP7
0	1.6005535	0.343	0.026	0	NSC/Astrocyt	ACBD7
0	1.59900093	0.517	0.241	0	NSC/Astrocyt	SORCS2
0	1.59281052	0.459	0.062	0	NSC/Astrocyt	ACSS1
0	1.59203507	0.859	0.422	0	NSC/Astrocyt	GPC6
0	1.5839708	0.457	0.079	0	NSC/Astrocyt	SLC7A11
0	1.58210246	0.601	0.339	0	NSC/Astrocyt	SNTA1
0	1.57580981	0.535	0.093	0	NSC/Astrocyt	MERTK
0	1.57072915	0.444	0.109	0	NSC/Astrocyt	TPD52L1
0	1.56938688	0.401	0.19	0	NSC/Astrocyt	SHROOM3
0	1.56867953	0.408	0.055	0	NSC/Astrocyt	FAM189A2
0	1.56256504	0.712	0.464	0	NSC/Astrocyt	RORA
0	1.55060979	0.491	0.193	0	NSC/Astrocyt	BBS2
0	1.54956996	0.706	0.392	0	NSC/Astrocyt	LPP

0	1.54954835	0.644	0.395	0	NSC/Astrocyt	L3MBTL4
0	1.54937028	0.628	0.397	0	NSC/Astrocyt	AHCYL1
0	1.54837895	0.753	0.568	0	NSC/Astrocyt	RALGAPA2
0	1.54795303	0.716	0.358	0	NSC/Astrocyt	FOXO1
0	1.542243	0.397	0.066	0	NSC/Astrocyt	BOC
0	1.5404332	0.482	0.151	0	NSC/Astrocyt	PHF21B
0	1.52766761	0.35	0.037	0	NSC/Astrocyt	SLCO1C1
0	1.52442583	0.368	0.216	0	NSC/Astrocyt	CST3
0	1.52392219	0.49	0.2	0	NSC/Astrocyt	CNTFR
0	1.51562798	0.5	0.212	0	NSC/Astrocyt	SDC2
0	1.51023686	0.364	0.019	0	NSC/Astrocyt	BBOX1
0	1.50636889	0.376	0.078	0	NSC/Astrocyt	LGI4
0	1.49282643	0.761	0.555	0	NSC/Astrocyt	ACSL6
0	1.4812599	0.56	0.227	0	NSC/Astrocyt	SPON1
0	1.47591853	0.415	0.13	0	NSC/Astrocyt	GABRG1
0	1.47399254	0.465	0.146	0	NSC/Astrocyt	NOTCH2
0	1.47261132	0.975	0.892	0	NSC/Astrocyt	MACF1
0	1.46920388	0.685	0.485	0	NSC/Astrocyt	PALM
0	1.46260228	0.355	0.01	0	NSC/Astrocyt	SDC4
0	1.46233038	0.353	0.019	0	NSC/Astrocyt	EDNRB
0	1.45927853	0.457	0.218	0	NSC/Astrocyt	MAPK4
0	1.45329123	0.581	0.368	0	NSC/Astrocyt	WWC1
0	1.44805685	0.573	0.295	0	NSC/Astrocyt	CTNNA1
0	1.4360276	0.436	0.16	0	NSC/Astrocyt	RAI14
0	1.42718133	0.323	0.015	0	NSC/Astrocyt	AGT
0	1.42663742	0.306	0.052	0	NSC/Astrocyt	LMNTD1
0	4.41536135	1	0.491	0	Oligodendroc	MBP
0	4.11548981	0.954	0.429	0	Oligodendroc	PLP1
0	4.01557575	0.985	0.264	0	Oligodendroc	RNF220
0	3.55844936	0.806	0.13	0	Oligodendroc	MOBP
0	3.38368701	0.907	0.107	0	Oligodendroc	C10orf90
0	3.37976563	0.995	0.704	0	Oligodendroc	CTNNA3
0	3.27035584	0.981	0.519	0	Oligodendroc	PIP4K2A
0	3.12510181	0.877	0.108	0	Oligodendroc	MOG
0	3.08265707	0.895	0.424	0	Oligodendroc	QDPR
0	3.03146094	0.863	0.181	0	Oligodendroc	ENPP2
0	2.98886559	0.749	0.09	0	Oligodendroc	OPALIN
0	2.9880164	0.813	0.11	0	Oligodendroc	MAG
0	2.9639338	0.981	0.541	0	Oligodendroc	TMTC2
0	2.89784317	0.877	0.212	0	Oligodendroc	ST18
0	2.89357444	0.989	0.598	0	Oligodendroc	ELMO1

0	2.77750024	0.824	0.124	0	Oligodendro	SHROOM4
0	2.75327904	0.814	0.174	0	Oligodendro	FOLH1
0	2.75281853	0.937	0.604	0	Oligodendro	PDE8A
0	2.74501378	0.861	0.267	0	Oligodendro	PLEKHH1
0	2.73962668	0.98	0.739	0	Oligodendro	SLC44A1
0	2.66438974	0.901	0.345	0	Oligodendro	GAB1
0	2.66305069	0.785	0.3	0	Oligodendro	KIF13B
0	2.6596799	0.974	0.724	0	Oligodendro	PHLPP1
0	2.65792121	0.82	0.159	0	Oligodendro	TTYH2
0	2.65426949	0.778	0.114	0	Oligodendro	FA2H
0	2.61744235	0.761	0.122	0	Oligodendro	DOCK5
0	2.58812421	0.894	0.482	0	Oligodendro	ARAP2
0	2.57481892	0.663	0.073	0	Oligodendro	ANLN
0	2.57014688	0.778	0.18	0	Oligodendro	CLMN
0	2.56700936	0.689	0.182	0	Oligodendro	HHIP
0	2.55321549	0.782	0.223	0	Oligodendro	CNTN2
0	2.54156906	0.701	0.337	0	Oligodendro	CLDN11
0	2.5363928	0.723	0.143	0	Oligodendro	UGT8
0	2.52096846	0.755	0.205	0	Oligodendro	TMC7
0	2.47704213	0.743	0.203	0	Oligodendro	CREB5
0	2.46760461	0.742	0.12	0	Oligodendro	ABCA8
0	2.46309455	0.881	0.596	0	Oligodendro	MSANTD3-TM
0	2.44966616	0.914	0.624	0	Oligodendro	SLAIN1
0	2.43868702	0.978	0.735	0	Oligodendro	PDE4B
0	2.4080794	0.932	0.601	0	Oligodendro	PLCL1
0	2.39671459	0.971	0.79	0	Oligodendro	SH3GL3
0	2.39506585	0.606	0.209	0	Oligodendro	SLC5A11
0	2.38501586	0.683	0.119	0	Oligodendro	PLLP
0	2.3661403	0.897	0.593	0	Oligodendro	FRYL
0	2.34948563	0.629	0.111	0	Oligodendro	ITGA2
0	2.32831302	0.439	0.042	0	Oligodendro	ERMN
0	2.3138149	0.972	0.551	0	Oligodendro	DOCK10
0	2.27024503	0.645	0.119	0	Oligodendro	TF
0	2.256101	0.661	0.119	0	Oligodendro	COL4A5
0	2.22568819	0.961	0.678	0	Oligodendro	FNBP1
0	2.20455903	0.8	0.25	0	Oligodendro	FGFR2
0	2.1907687	0.918	0.693	0	Oligodendro	SHTN1
0	2.1807056	0.989	0.818	0	Oligodendro	FRMD5
0	2.17826838	0.993	0.94	0	Oligodendro	SIK3
0	2.16235934	0.969	0.753	0	Oligodendro	SLC24A2
0	2.13699593	0.865	0.545	0	Oligodendro	ERBIN

0	2.13023664	0.84	0.236	0	Oligodendro	DAAM2
0	2.12998157	0.944	0.617	0	Oligodendro	SPOCK3
0	2.12196576	0.8	0.455	0	Oligodendro	SLC25A13
0	2.11016682	0.588	0.151	0	Oligodendro	KCNH8
0	2.0971628	0.587	0.095	0	Oligodendro	CLIC4
0	2.0970435	0.676	0.22	0	Oligodendro	TESK2
0	2.08737958	0.785	0.608	0	Oligodendro	ZDHHC20
0	2.07868519	0.907	0.558	0	Oligodendro	USP54
0	2.05497512	0.36	0.099	0	Oligodendro	CRYAB
0	2.04926563	0.768	0.418	0	Oligodendro	HIPK2
0	2.04679991	0.724	0.15	0	Oligodendro	BCAS1
0	2.04244146	0.611	0.401	0	Oligodendro	DPYSL5
0	2.04164495	0.889	0.469	0	Oligodendro	FRMD4B
0	2.04128366	0.54	0.1	0	Oligodendro	RASGRP3
0	2.0410309	0.51	0.045	0	Oligodendro	MAL
0	2.03913682	0.847	0.633	0	Oligodendro	CDK19
0	2.0371381	0.885	0.733	0	Oligodendro	FUT8
0	2.02846176	0.546	0.041	0	Oligodendro	MYRF
0	1.99977547	0.735	0.534	0	Oligodendro	MAN2A1
0	1.9790829	0.703	0.219	0	Oligodendro	PLD1
0	1.95724158	0.877	0.71	0	Oligodendro	TTLL7
0	1.94837618	0.577	0.25	0	Oligodendro	RFFL
0	1.93523403	0.628	0.346	0	Oligodendro	POLR2F
0	1.92013106	0.493	0.091	0	Oligodendro	TMEM144
0	1.91969826	0.466	0.047	0	Oligodendro	CPM
0	1.9191628	0.335	0.068	0	Oligodendro	CNP
0	1.91678346	0.978	0.798	0	Oligodendro	EDIL3
0	1.90882193	0.822	0.432	0	Oligodendro	COBL
0	1.90514448	0.604	0.257	0	Oligodendro	EPB41L4A
0	1.90505005	0.578	0.212	0	Oligodendro	NDRG1
0	1.90486157	0.608	0.256	0	Oligodendro	ARHGAP23
0	1.89730797	0.509	0.1	0	Oligodendro	LDB3
0	1.88435864	0.476	0.212	0	Oligodendro	CLDND1
0	1.88305194	0.585	0.211	0	Oligodendro	LPAR1
0	1.88094008	0.611	0.505	0	Oligodendro	PRUNE2
0	1.87521274	0.937	0.701	0	Oligodendro	GARNL3
0	1.8283748	0.98	0.846	0	Oligodendro	DNM3
0	1.8091292	0.998	0.943	0	Oligodendro	IL1RAPL1
0	1.80740072	0.595	0.242	0	Oligodendro	MTUS1
0	1.79587408	0.417	0.398	0	Oligodendro	DIP2B
0	1.79576663	0.496	0.2	0	Oligodendro	GPR37

0	1.79274284	0.67	0.429	0	Oligodendro	ATG4C
0	1.77659685	0.44	0.129	0	Oligodendro	SPP1
0	1.75213979	0.517	0.089	0	Oligodendro	PLEKHG3
0	1.7520105	0.894	0.531	0	Oligodendro	ST6GALNAC3
0	1.73281201	0.957	0.861	0	Oligodendro	TCF12
0	1.7258357	0.498	0.127	0	Oligodendro	FAM124A
0	1.72374985	0.569	0.155	0	Oligodendro	MYO1E
0	1.71867207	0.495	0.102	0	Oligodendro	PLEKHB1
0	1.71298021	0.746	0.588	0	Oligodendro	LPGAT1
0	1.71084942	0.982	0.89	0	Oligodendro	PTPRD
0	1.69148756	0.954	0.862	0	Oligodendro	RTN4
0	1.690979	0.741	0.551	0	Oligodendro	PPP1R16B
0	1.68548681	0.909	0.579	0	Oligodendro	CDH20
0	1.68318567	0.551	0.227	0	Oligodendro	MITF
0	1.68310364	0.682	0.583	0	Oligodendro	SAMD5
0	1.68152419	0.479	0.275	0	Oligodendro	KLHL4
0	1.67544781	0.533	0.259	0	Oligodendro	TMTC4
0	1.66619663	0.722	0.498	0	Oligodendro	GRM3
0	1.66558851	0.818	0.685	0	Oligodendro	CDK8
0	1.66382124	0.778	0.612	0	Oligodendro	DENND5A
0	1.65570559	0.719	0.279	0	Oligodendro	DOCK1
0	1.65462962	0.339	0.04	0	Oligodendro	CNDP1
0	1.64849329	0.517	0.107	0	Oligodendro	CDH19
0	1.63218647	0.982	0.867	0	Oligodendro	ZEB2
0	1.62592459	0.743	0.574	0	Oligodendro	ZFYVE16
0	1.60910504	0.984	0.951	0	Oligodendro	PPP2R2B
0	1.60006598	0.592	0.389	0	Oligodendro	RYBP
0	1.5925479	0.483	0.185	0	Oligodendro	LRRC1
0	1.59032095	0.812	0.69	0	Oligodendro	OSBPL1A
0	1.58956482	0.396	0.055	0	Oligodendro	EFHD1
0	1.58313525	0.999	0.98	0	Oligodendro	MAGI2
0	1.58093653	0.945	0.842	0	Oligodendro	DLG1
0	1.58023973	0.456	0.142	0	Oligodendro	BNC2
0	1.57477657	0.781	0.689	0	Oligodendro	MAP4K5
0	1.56491695	0.602	0.414	0	Oligodendro	RIF1
0	1.56270964	0.949	0.887	0	Oligodendro	FMNL2
0	1.5621369	0.498	0.297	0	Oligodendro	KIF6
0	1.56166226	0.428	0.177	0	Oligodendro	SOX2
0	1.54660109	0.756	0.609	0	Oligodendro	MYO1D
0	1.54159283	0.576	0.183	0	Oligodendro	MEGF10
0	1.54121901	0.946	0.849	0	Oligodendro	WWOX



0	1.51747651	0.313	0.132	0	Oligodendro	GLUL
0	1.51433555	0.6	0.424	0	Oligodendro	PSEN1
0	1.51029801	0.588	0.649	0	Oligodendro	LARP4
0	1.50914766	0.318	0.1	0	Oligodendro	SYT9
0	1.50831359	0.545	0.407	0	Oligodendro	STMN4
0	1.50005681	0.454	0.314	0	Oligodendro	LAMP2
0	1.49849819	0.382	0.04	0	Oligodendro	SH3TC2
0	1.49734412	0.622	0.465	0	Oligodendro	REEP3
0	1.49307788	0.636	0.498	0	Oligodendro	PXK
0	1.48656878	0.616	0.422	0	Oligodendro	ELL2
0	1.48580707	0.77	0.669	0	Oligodendro	NAALADL2
0	1.48477127	0.469	0.167	0	Oligodendro	CYP27A1
2.38E-81	1.33315396	0.548	0.536	3.25E-77	OPC	TMEM108
0	4.77669284	0.993	0.42	0	OPC	LHFPL3
0	3.62225274	0.968	0.214	0	OPC	SOX6
0	3.37882106	0.981	0.417	0	OPC	PCDH15
0	3.33322399	0.904	0.201	0	OPC	VCAN
0	3.08429793	0.992	0.58	0	OPC	PTPRZ1
0	2.81393719	0.909	0.177	0	OPC	COL9A1
0	2.80430755	0.99	0.64	0	OPC	XYLT1
0	2.75407745	0.963	0.521	0	OPC	TNR
0	2.72923509	0.719	0.032	0	OPC	STK32A
0	2.6623363	0.893	0.204	0	OPC	TMEM132C
0	2.63991405	0.867	0.332	0	OPC	MEGF11
0	2.63331823	0.936	0.206	0	OPC	NXPH1
0	2.59538683	0.968	0.694	0	OPC	EPN2
0	2.5550879	0.945	0.535	0	OPC	KIF13A
0	2.51505465	0.972	0.577	0	OPC	SLC35F1
0	2.49751749	0.971	0.438	0	OPC	LUZP2
0	2.40682665	0.875	0.322	0	OPC	SULF2
0	2.3297154	0.948	0.667	0	OPC	NOVA1
0	2.28300777	0.466	0.302	0	OPC	CHST11
0	2.27839296	0.579	0.085	0	OPC	ADAM12
0	2.25034888	0.891	0.372	0	OPC	NTNG1
0	2.24513223	0.829	0.283	0	OPC	RIN2
0	2.21901846	0.975	0.678	0	OPC	MMP16
0	2.20982319	0.883	0.475	0	OPC	TNK2
0	2.17123117	0.809	0.351	0	OPC	CHST9
0	2.1571279	0.845	0.352	0	OPC	PDGFRA
0	2.14772872	0.609	0.031	0	OPC	AFAP1L2
0	2.13966564	0.955	0.526	0	OPC	CA10

0	2.04625124	0.945	0.514	0	OPC	HIP1
0	2.03719929	0.667	0.226	0	OPC	MAP3K1
0	2.03677446	0.988	0.682	0	OPC	GRID2
0	2.0159409	0.767	0.191	0	OPC	SMOC1
0	1.99258808	0.545	0.048	0	OPC	SLC22A3
0	1.96641037	0.898	0.531	0	OPC	ZEB1
0	1.95734412	0.677	0.112	0	OPC	BCAN
0	1.95602544	0.99	0.777	0	OPC	KAZN
0	1.91684439	0.754	0.295	0	OPC	DISC1
0	1.89676262	0.94	0.56	0	OPC	SEMA5A
0	1.87667126	0.451	0.204	0	OPC	BRINP3
0	1.87147904	0.556	0.112	0	OPC	ADAMTS17
0	1.86681606	0.75	0.251	0	OPC	BCAS1
0	1.84318533	0.699	0.191	0	OPC	PLD5
0	1.83344157	0.682	0.186	0	OPC	KCNIP1
0	1.81239348	0.76	0.364	0	OPC	GRIA4
0	1.80113763	0.515	0.09	0	OPC	CA8
0	1.76401388	0.956	0.666	0	OPC	DSCAM
0	1.74815919	0.814	0.339	0	OPC	KAT2B
0	1.72658491	0.915	0.653	0	OPC	SCD5
0	1.71922378	0.629	0.208	0	OPC	GALNT10
0	1.70663289	0.52	0.057	0	OPC	LAMA4
0	1.70145278	0.708	0.16	0	OPC	ZCCHC24
0	1.6977001	0.993	0.791	0	OPC	DPP6
0	1.67633172	0.476	0.101	0	OPC	CACNG4
0	1.67459908	0.441	0.048	0	OPC	SUSD5
0	1.66707409	0.613	0.255	0	OPC	ITGA9
0	1.65480065	0.561	0.18	0	OPC	MYT1
0	1.65015068	0.421	0.031	0	OPC	CALCRL
0	1.64588293	0.69	0.277	0	OPC	TNS3
0	1.59675156	0.427	0.048	0	OPC	ROR2
0	1.57980607	0.434	0.019	0	OPC	C1QL1
0	1.57546976	0.841	0.492	0	OPC	UST
0	1.56184204	0.969	0.736	0	OPC	KCND2
0	1.53990709	0.607	0.337	0	OPC	ST8SIA1
0	1.52720276	0.78	0.465	0	OPC	MPPED2
0	1.52554992	0.988	0.907	0	OPC	AGAP1
0	1.51918467	0.754	0.481	0	OPC	SAMD4A
0	1.50448934	0.886	0.689	0	OPC	NLGN4Y
0	1.49479721	0.583	0.196	0	OPC	CCDC50
0	1.48872953	0.853	0.667	0	OPC	CASK

0	1.46330905	0.943	0.579	0	OPC	ASTN2
0	1.46250693	0.488	0.128	0	OPC	PLPP4
0	1.45475817	0.785	0.452	0	OPC	COL11A1
0	1.45411867	0.82	0.545	0	OPC	KLF12
0	1.44358343	0.626	0.173	0	OPC	CDH19
0	1.44024164	0.79	0.512	0	OPC	PID1
0	1.43586184	0.432	0.243	0	OPC	BMPER
0	1.42462149	0.851	0.597	0	OPC	OPHN1
0	1.42380076	0.873	0.684	0	OPC	REV3L
0	1.42217027	0.74	0.5	0	OPC	LRP1
0	1.42108186	0.738	0.473	0	OPC	PHYHIP1
0	1.42020573	0.802	0.35	0	OPC	SORCS1
0	1.39231934	0.961	0.684	0	OPC	SGCZ
0	1.39107233	0.868	0.541	0	OPC	FCHSD2
0	1.38421988	0.466	0.144	0	OPC	WSCD1
0	1.38024418	0.362	0.005	0	OPC	NKAIN4
0	1.3671856	0.937	0.672	0	OPC	SGK1
0	1.36211323	0.503	0.232	0	OPC	MAMLD1
0	1.35334843	0.942	0.777	0	OPC	NRCAM
0	1.35242083	0.957	0.731	0	OPC	MAML2
0	1.34963877	0.388	0.085	0	OPC	GFRA1
0	1.34796958	0.861	0.599	0	OPC	SH3D19
0	1.33960934	0.445	0.223	0	OPC	ST6GAL1
0	1.33536375	0.601	0.16	0	OPC	ATP13A4
0	1.33339069	0.45	0.092	0	OPC	LRP4
0	1.32618465	0.575	0.161	0	OPC	PDLIM5
0	1.31875515	0.477	0.219	0	OPC	CSGALNACT1
0	1.3160888	0.388	0.075	0	OPC	APOD
0	1.31606682	0.495	0.285	0	OPC	PEAK1
0	1.31090214	0.627	0.446	0	OPC	SLC1A1
0	1.30771859	0.906	0.682	0	OPC	CACNA1A
0	1.29084385	0.568	0.373	0	OPC	FAM184B
0	1.28947372	0.667	0.438	0	OPC	GLCCI1
0	1.28262757	0.797	0.509	0	OPC	MTSS1
0	1.28063274	0.303	0.027	0	OPC	FERMT1
0	1.27112172	0.997	0.913	0	OPC	LRP1B
0	1.25634026	0.524	0.249	0	OPC	ETV1
0	1.25360412	0.643	0.439	0	OPC	SEZ6L
0	1.24589151	0.382	0.11	0	OPC	ANKRD55
0	1.23768349	0.424	0.17	0	OPC	CSPG5
0	1.23541893	0.513	0.24	0	OPC	SPATA6

0	1.23395093	0.382	0.066	0	OPC	TRAF4
0	1.22179182	0.618	0.478	0	OPC	FHIT
0	1.20852813	0.479	0.236	0	OPC	RANBP17
0	1.20746485	0.293	0.032	0	OPC	SPRY4
0	1.19800259	0.498	0.201	0	OPC	EGFR
0	1.17714741	0.969	0.793	0	OPC	ADGRL3
0	1.17549651	0.655	0.371	0	OPC	TCF7L2
0	1.16470204	0.8	0.51	0	OPC	ALCAM
0	1.1625696	0.891	0.618	0	OPC	KHDRBS3
0	1.15869277	0.644	0.437	0	OPC	PLPPR1
0	1.15810431	0.737	0.4	0	OPC	SORCS3
0	1.15377279	0.727	0.622	0	OPC	ZSWIM6
0	1.14988823	0.778	0.33	0	OPC	PTPRT
0	1.14384266	0.986	0.782	0	OPC	LRRTM4
0	1.13097311	0.386	0.22	0	OPC	CST3
0	1.11857524	0.429	0.227	0	OPC	AFAP1
0	1.11755812	0.542	0.317	0	OPC	IL1RAP
0	1.11640757	0.998	0.934	0	OPC	NLGN1
0	1.11182792	0.28	0.039	0	OPC	CCND1
0	1.10724233	0.829	0.483	0	OPC	SOX5
0	1.10701383	0.444	0.249	0	OPC	IGSF21
0	1.10627008	0.365	0.154	0	OPC	GALNT3
0	1.10594021	0.512	0.17	0	OPC	KANK1
0	1.0912026	0.274	0.106	0	OPC	VEGFA
0	1.08975414	0.37	0.076	0	OPC	CDC14A
0	1.08613134	0.502	0.365	0	OPC	ACAP3
0	1.07846231	0.698	0.328	0	OPC	CHD7
0	1.0750482	0.8	0.383	0	OPC	CDH13
0	1.06811658	0.569	0.224	0	OPC	PLCE1
0	1.06695252	0.981	0.849	0	OPC	NPAS3
0	1.06629017	0.409	0.258	0	OPC	ANGEL1
0	1.06543752	0.88	0.793	0	OPC	TNKS
0	1.05271083	0.503	0.368	0	OPC	TBC1D14
0	1.05253256	0.827	0.595	0	OPC	LRRTM3
0	1.04749106	0.476	0.286	0	OPC	BLM
0	1.04693429	0.255	0.034	0	OPC	NKD1
0	1.04575927	0.437	0.247	0	OPC	LIMA1
0	1.04445939	0.445	0.163	0	OPC	GPSM2
0	0.71852423	0.168	0.012	0	OPC	OLIG2
2.11E-07	1.46676047	0.401	0.419	0.0028875	Pericyte	ADAMTSL3
8.20E-13	1.26758737	0.428	0.425	1.12E-08	Pericyte	ADCY5

7.38E-15	1.64252745	0.151	0.08	1.01E-10	Pericyte	HTR1F
1.03E-17	1.38543133	0.33	0.251	1.41E-13	Pericyte	SLC13A3
2.68E-20	1.39090477	0.461	0.435	3.66E-16	Pericyte	CYTH3
1.32E-20	1.31369305	0.372	0.269	1.81E-16	Pericyte	FLRT2
8.90E-21	1.25275928	0.428	0.366	1.22E-16	Pericyte	SESN3
7.45E-22	2.47430164	0.384	0.291	1.02E-17	Pericyte	GRM8
6.21E-22	1.25435768	0.438	0.366	8.50E-18	Pericyte	SNED1
1.61E-27	1.33349442	0.487	0.446	2.21E-23	Pericyte	KDM5A
6.97E-34	1.42647701	0.589	0.58	9.53E-30	Pericyte	PTEN
2.63E-37	1.83967163	0.229	0.101	3.60E-33	Pericyte	THSD4
3.13E-38	1.3060723	0.529	0.441	4.28E-34	Pericyte	NBEAL1
2.54E-39	1.28386356	0.279	0.134	3.48E-35	Pericyte	ITGA8
1.41E-39	1.64640301	0.75	0.627	1.92E-35	Pericyte	TRPM3
1.72E-40	1.44663701	0.516	0.386	2.36E-36	Pericyte	ARHGAP6
4.90E-43	1.43010162	0.18	0.063	6.71E-39	Pericyte	TAGLN
1.05E-43	1.57177259	0.226	0.091	1.44E-39	Pericyte	CDH6
9.83E-46	1.31787885	0.414	0.258	1.34E-41	Pericyte	AKAP12
1.37E-46	1.26486977	0.512	0.394	1.87E-42	Pericyte	CBLB
2.01E-48	1.27870365	0.153	0.044	2.76E-44	Pericyte	TRPM1
1.25E-51	1.40778795	0.363	0.192	1.71E-47	Pericyte	SPARC
8.38E-52	1.29005648	0.276	0.12	1.15E-47	Pericyte	FRZB
3.10E-57	1.32791064	0.539	0.351	4.23E-53	Pericyte	FKBP5
2.54E-57	1.59095268	0.202	0.065	3.48E-53	Pericyte	ATP13A5
9.61E-60	1.78047625	0.447	0.262	1.31E-55	Pericyte	FREM1
6.70E-60	1.45294244	0.383	0.199	9.17E-56	Pericyte	ARHGAP28
1.46E-61	1.29613904	0.749	0.693	2.00E-57	Pericyte	FOXP1
3.82E-64	1.58648811	0.614	0.418	5.22E-60	Pericyte	PDE7B
6.53E-65	1.66729717	0.257	0.093	8.93E-61	Pericyte	PLXDC1
1.62E-65	1.36929938	0.641	0.527	2.21E-61	Pericyte	PPFIBP1
1.38E-65	1.65097317	0.366	0.162	1.89E-61	Pericyte	NHS
1.16E-65	1.39632699	0.351	0.146	1.59E-61	Pericyte	PDE3A
1.52E-71	1.35265915	0.641	0.486	2.07E-67	Pericyte	RORA
4.24E-73	1.61395191	0.48	0.277	5.79E-69	Pericyte	FRMD6
7.08E-74	1.39447951	0.679	0.528	9.69E-70	Pericyte	PID1
8.34E-75	1.76821786	0.53	0.336	1.14E-70	Pericyte	PHACTR2
2.34E-75	2.22713643	0.568	0.408	3.20E-71	Pericyte	BICC1
1.58E-75	1.77193282	0.478	0.266	2.16E-71	Pericyte	ARHGAP10
1.12E-76	1.53538048	0.655	0.527	1.54E-72	Pericyte	SLC20A2
3.56E-78	1.40164425	0.383	0.158	4.87E-74	Pericyte	FOXP2
2.31E-83	1.31697959	0.728	0.552	3.16E-79	Pericyte	ZEB1
7.10E-84	2.18481758	0.435	0.199	9.71E-80	Pericyte	EPS8

3.72E-84	1.70610504	0.323	0.113	5.09E-80	Pericyte	ADAM12
1.35E-90	1.47786134	0.311	0.101	1.85E-86	Pericyte	EYA2
2.15E-91	1.25743208	0.201	0.045	2.94E-87	Pericyte	A2M
6.41E-93	1.58394752	0.224	0.056	8.77E-89	Pericyte	COL4A3
5.14E-95	2.14591692	0.36	0.129	7.02E-91	Pericyte	COLEC12
4.62E-96	1.47271432	0.238	0.061	6.31E-92	Pericyte	TRPC3
6.71E-99	1.44143172	0.651	0.419	9.18E-95	Pericyte	LPP
1.33E-99	1.39178825	0.773	0.716	1.82E-95	Pericyte	PCCA
2.54E-100	1.56606259	0.558	0.305	3.47E-96	Pericyte	PTPN13
4.27E-104	1.58444878	0.397	0.154	5.84E-100	Pericyte	PHLDB2
1.08E-106	1.49953554	0.45	0.182	1.47E-102	Pericyte	FGD6
1.46E-110	1.27689592	0.746	0.446	1.99E-106	Pericyte	ITPR2
1.66E-111	1.27325668	0.499	0.2	2.28E-107	Pericyte	GSN
7.79E-115	1.55668275	0.449	0.167	1.07E-110	Pericyte	ANGPT1
6.51E-120	1.28652807	0.356	0.107	8.90E-116	Pericyte	TNS2
8.91E-126	1.45735064	0.342	0.098	1.22E-121	Pericyte	DAB2
3.66E-126	1.76626958	0.337	0.092	5.00E-122	Pericyte	APOD
9.70E-127	1.58031353	0.75	0.441	1.33E-122	Pericyte	FBXL7
4.04E-127	1.57879158	0.447	0.157	5.53E-123	Pericyte	EYA1
2.02E-130	1.71472753	0.376	0.117	2.77E-126	Pericyte	COL12A1
2.37E-131	1.29147842	0.47	0.154	3.25E-127	Pericyte	GRAMD2B
5.49E-132	1.59698429	0.447	0.158	7.51E-128	Pericyte	SLC2A12
4.32E-133	2.94552728	0.302	0.077	5.91E-129	Pericyte	SLC38A11
1.19E-136	2.52258448	0.387	0.122	1.63E-132	Pericyte	KCNK2
2.37E-139	1.38571285	0.254	0.052	3.24E-135	Pericyte	LAMC3
4.34E-140	1.50459553	0.724	0.39	5.93E-136	Pericyte	PTPRM
2.85E-144	1.94421882	0.71	0.419	3.90E-140	Pericyte	PLCB4
1.43E-144	4.07262475	0.526	0.231	1.96E-140	Pericyte	CEMIP
2.72E-146	1.92293762	0.397	0.12	3.72E-142	Pericyte	PROS1
2.26E-147	1.59866082	0.415	0.127	3.10E-143	Pericyte	COL5A2
9.71E-154	1.3543844	0.432	0.122	1.33E-149	Pericyte	TCF7L1
1.23E-154	1.43757608	0.248	0.046	1.68E-150	Pericyte	NKD1
5.75E-156	2.43178504	0.39	0.11	7.87E-152	Pericyte	COBLL1
8.40E-159	2.00510494	0.804	0.558	1.15E-154	Pericyte	KCNT2
5.12E-162	1.86481278	0.586	0.25	7.00E-158	Pericyte	RBMS1
6.10E-163	2.60055362	0.633	0.303	8.34E-159	Pericyte	CALD1
2.12E-168	2.00017453	0.307	0.066	2.90E-164	Pericyte	ADAMTS12
1.23E-179	1.99237821	0.519	0.171	1.68E-175	Pericyte	ARHGAP42
4.23E-183	2.1524568	0.574	0.216	5.79E-179	Pericyte	TIMP3
4.44E-184	1.87599996	0.502	0.161	6.07E-180	Pericyte	MAP3K20
3.67E-186	2.78962071	0.511	0.163	5.01E-182	Pericyte	PTGDS

9.23E-193	1.72434443	0.386	0.087	1.26E-188	Pericyte	SNTB1
4.02E-201	1.48277303	0.959	0.77	5.50E-197	Pericyte	PARD3
6.64E-204	1.48613028	0.201	0.025	9.09E-200	Pericyte	NOTCH3
1.70E-211	1.90914377	0.215	0.027	2.32E-207	Pericyte	RGS5
2.90E-216	2.17656956	0.453	0.112	3.97E-212	Pericyte	SLC7A11
3.80E-217	2.33662456	0.662	0.242	5.20E-213	Pericyte	TMEM132C
5.15E-232	1.42832252	0.306	0.049	7.04E-228	Pericyte	TRIM5
3.63E-233	2.02675237	0.419	0.095	4.97E-229	Pericyte	ABCA9
8.07E-235	1.53860001	0.283	0.042	1.10E-230	Pericyte	ALDH1A2
9.90E-237	1.63917319	0.428	0.093	1.35E-232	Pericyte	SP100
6.66E-249	2.49777294	0.676	0.244	9.11E-245	Pericyte	SLC6A1
1.61E-249	1.8936388	0.54	0.138	2.21E-245	Pericyte	PTN
4.20E-261	1.62630663	0.373	0.065	5.75E-257	Pericyte	FBLN1
2.03E-263	1.49736339	0.352	0.059	2.77E-259	Pericyte	DOCK6
1.26E-268	1.58502981	0.299	0.041	1.73E-264	Pericyte	EPAS1
2.63E-277	1.27106739	0.241	0.027	3.60E-273	Pericyte	COL6A2
8.55E-283	1.49394741	0.387	0.064	1.17E-278	Pericyte	YAP1
7.74E-290	2.15956844	0.613	0.171	1.06E-285	Pericyte	SYNE2
6.29E-295	2.5382849	0.843	0.378	8.60E-291	Pericyte	LHFPL6
3.79E-297	2.60472382	0.689	0.216	5.19E-293	Pericyte	UTRN
8.07E-304	2.66267158	0.523	0.12	1.10E-299	Pericyte	MYO1B
0	5.00913172	0.79	0.07	0	Pericyte	LAMA2
0	3.70909951	0.626	0.066	0	Pericyte	EBF1
0	3.43789357	0.861	0.236	0	Pericyte	RBMS3
0	3.40644492	0.652	0.012	0	Pericyte	ITIH5
0	3.05992612	0.662	0.068	0	Pericyte	RBPMS
0	2.97690213	0.408	0.005	0	Pericyte	SLC6A20
0	2.88495452	0.453	0.079	0	Pericyte	BMP6
0	2.86641121	0.724	0.134	0	Pericyte	NID1
0	2.85948972	0.648	0.081	0	Pericyte	LAMA4
0	2.74444518	0.489	0.071	0	Pericyte	IGFBP7
0	2.54656945	0.612	0.067	0	Pericyte	ARHGAP29
0	2.46604293	0.401	0.008	0	Pericyte	C7
0	2.37503699	0.63	0.139	0	Pericyte	UACA
0	2.32900161	0.456	0.017	0	Pericyte	EGFLAM
0	2.28108991	0.445	0.012	0	Pericyte	DCN
0	2.22608426	0.491	0.098	0	Pericyte	TGFBR3
0	2.13232655	0.426	0.035	0	Pericyte	MYOF
0	2.10206838	0.405	0.067	0	Pericyte	FN1
0	2.09988171	0.506	0.082	0	Pericyte	KANK2
0	2.04064668	0.351	0.024	0	Pericyte	OGN

0	2.02329258	0.457	0.07	0	Pericyte	PDE5A
0	2.02067024	0.317	0.038	0	Pericyte	SLC13A4
0	2.01775214	0.411	0.047	0	Pericyte	CPED1
0	1.91650735	0.47	0.09	0	Pericyte	TNS1
0	1.88457364	0.345	0.037	0	Pericyte	PDGFRB
0	1.86373235	0.429	0.076	0	Pericyte	NR2F2
0	1.82046588	0.318	0.003	0	Pericyte	COL1A2
0	1.76153531	0.202	0.014	0	Pericyte	ABCC9
0	1.75589362	0.3	0.023	0	Pericyte	CPAMD8
0	1.75495602	0.303	0.02	0	Pericyte	VIM
0	1.74677949	0.245	0.002	0	Pericyte	IGF2
0	1.72005457	0.407	0.054	0	Pericyte	DDR2
0	1.7057364	0.309	0.023	0	Pericyte	ITGA1
0	1.62133935	0.353	0.05	0	Pericyte	MRC2
0	1.5370604	0.273	0.014	0	Pericyte	AOX1
0	1.53182243	0.332	0.034	0	Pericyte	SVIL
0	1.51169691	0.386	0.059	0	Pericyte	TGFBR2
0	1.47656848	0.251	0.011	0	Pericyte	BMP5
0	1.47250142	0.167	0.006	0	Pericyte	RERGL
0	1.40070369	0.283	0.004	0	Pericyte	ZIC1
0	1.36547721	0.234	0.001	0	Pericyte	COL3A1
0	1.35900951	0.314	0.038	0	Pericyte	AHNAK
0	1.28302622	0.25	0.024	0	Pericyte	COL18A1
0	1.25974531	0.23	0.018	0	Pericyte	LEF1





















































































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