

Table 1. The top 750 brain neural gene clusters with the highest positive correlation of co-expression with non-coding RNA gene HAR1A

	Ensemble number	Gene	Correlation Coefficient	p-value
0	ENSG00000225978	HAR1A	1.000	1.67E-09
1	ENSG00000231133	HAR1B	0.840	4.18E-07
2	ENSG00000108309	RUNDC3A	0.802	1.36E-06
3	ENSG00000008735	MAPK8IP2	0.796	1.63E-06
4	ENSG00000059915	PSD	0.791	1.89E-06
5	ENSG00000154118	JPH3	0.773	3.23E-06
6	ENSG00000174516	PELI3	0.749	6.46E-06
7	ENSG00000197457	STMN3	0.743	7.66E-06
8	ENSG00000171450	CDK5R2	0.738	8.82E-06
9	ENSG00000103723	AP3B2	0.736	9.33E-06
10	ENSG00000166111	SVOP	0.735	9.60E-06
11	ENSG00000176884	GRIN1	0.735	9.60E-06
12	ENSG00000074317	SNCB	0.732	1.04E-05
13	ENSG00000159753	RLTPR	0.732	1.04E-05
14	ENSG00000099365	STX1B	0.730	1.10E-05
15	ENSG00000273238	RP11-1263C18.1	0.730	1.10E-05
16	ENSG00000129159	KCNC1	0.727	1.20E-05

17	ENSG00000204052	LRRC73	0.725	1.27E-05
18	ENSG00000107147	KCNT1	0.725	1.27E-05
19	ENSG00000204314	PRRT1	0.723	1.34E-05
20	ENSG00000184702	SEPT5	0.721	1.42E-05
21	ENSG00000271892	CTD-2228A4.1	0.720	1.45E-05
22	ENSG00000269935	RP11-482M8.3	0.719	1.50E-05
23	ENSG00000168993	CPLX1	0.716	1.62E-05
24	ENSG00000183837	PNMA3	0.714	1.71E-05
25	ENSG00000223572	CKMT1A	0.714	1.71E-05
26	ENSG00000049769	PPP1R3F	0.713	1.76E-05
27	ENSG00000157782	CABP1	0.713	1.76E-05
28	ENSG00000237289	CKMT1B	0.712	1.81E-05
29	ENSG00000198794	SCAMP5	0.711	1.86E-05
30	ENSG00000177380	PPFIA3	0.711	1.86E-05
31	ENSG00000067840	PDZD4	0.711	1.86E-05
32	ENSG00000163013	FBXO41	0.710	1.91E-05
33	ENSG00000168539	CHRM1	0.710	1.91E-05
34	ENSG00000215196	AC091878.1	0.709	1.96E-05
35	ENSG00000203772	SPRN	0.708	2.02E-05
36	ENSG00000215218	UBE2QL1	0.708	2.02E-05
37	ENSG00000100346	CACNA1I	0.706	2.13E-05
38	ENSG00000135472	FAIM2	0.705	2.19E-05

39	ENSG00000102003	SYP	0.704	2.25E-05
40	ENSG00000242173	ARHGDIG	0.704	2.25E-05
41	ENSG00000132872	SYT4	0.704	2.25E-05
42	ENSG00000110514	MADD	0.701	2.44E-05
43	ENSG00000184524	CEND1	0.701	2.44E-05
44	ENSG00000267651	RP11-95O2.1	0.700	2.50E-05
45	ENSG00000132535	DLG4	0.700	2.50E-05
46	ENSG00000119946	CNNM1	0.698	2.64E-05
47	ENSG00000175766	EIF4E1B	0.698	2.64E-05
48	ENSG00000084764	MAPRE3	0.698	2.64E-05
49	ENSG00000239911	PRKAG2-AS1	0.697	2.71E-05
50	ENSG00000040608	RTN4R	0.697	2.71E-05
51	ENSG00000100604	CHGA	0.696	2.78E-05
52	ENSG00000160460	SPTBN4	0.695	2.86E-05
53	ENSG00000125744	RTN2	0.694	2.94E-05
54	ENSG00000088899	RP5-1187M17.10	0.694	2.94E-05
55	ENSG00000204851	PNMAL2	0.693	3.01E-05
56	ENSG00000260837	RP11-434B12.1	0.692	3.10E-05
57	ENSG00000089847	ANKRD24	0.691	3.18E-05
58	ENSG00000163995	ABLIM2	0.691	3.18E-05
59	ENSG00000144834	TAGLN3	0.691	3.18E-05
60	ENSG00000115073	ACTR1B	0.691	3.18E-05

61	ENSG00000105642	KCNN1	0.690	3.26E-05
62	ENSG00000155093	PTPRN2	0.689	3.35E-05
63	ENSG00000130477	UNC13A	0.688	3.44E-05
64	ENSG00000077080	ACTL6B	0.688	3.44E-05
65	ENSG00000145920	CPLX2	0.688	3.44E-05
66	ENSG00000182901	RGS7	0.688	3.44E-05
67	ENSG00000136854	STXBP1	0.686	3.63E-05
68	ENSG00000033627	ATP6V0A1	0.686	3.63E-05
69	ENSG00000177614	PGBD5	0.685	3.72E-05
70	ENSG00000065609	SNAP91	0.685	3.72E-05
71	ENSG00000105649	RAB3A	0.684	3.82E-05
72	ENSG00000198853	RUSC2	0.684	3.82E-05
73	ENSG00000232903	LINC01166	0.684	3.82E-05
74	ENSG00000183317	EPHA10	0.683	3.92E-05
75	ENSG00000132639	SNAP25	0.682	4.03E-05
76	ENSG00000137825	ITPKA	0.682	4.03E-05
77	ENSG00000113763	UNC5A	0.682	4.03E-05
78	ENSG00000101180	HRH3	0.681	4.13E-05
79	ENSG00000067191	CACNB1	0.681	4.13E-05
80	ENSG00000235961	PNMA6A	0.681	4.13E-05
81	ENSG00000186462	NAP1L2	0.681	4.13E-05
82	ENSG00000167889	MGAT5B	0.680	4.24E-05

83	ENSG00000127561	SYNGR3	0.680	4.24E-05
84	ENSG00000247317	RP11-273G15.2	0.680	4.24E-05
85	ENSG00000092051	JPH4	0.680	4.24E-05
86	ENSG00000139767	SRRM4	0.679	4.36E-05
87	ENSG00000167074	TEF	0.679	4.36E-05
88	ENSG00000188191	PRKAR1B	0.679	4.36E-05
89	ENSG00000176454	LPCAT4	0.679	4.36E-05
90	ENSG00000008056	SYN1	0.678	4.47E-05
91	ENSG00000167371	PRRT2	0.678	4.47E-05
92	ENSG00000111218	PRMT8	0.678	4.47E-05
93	ENSG00000167281	RBFOX3	0.677	4.59E-05
94	ENSG00000220205	VAMP2	0.677	4.59E-05
95	ENSG00000100307	CBX7	0.677	4.59E-05
96	ENSG00000113327	GABRG2	0.677	4.59E-05
97	ENSG00000127585	FBXL16	0.677	4.59E-05
98	ENSG00000186487	MYT1L	0.675	4.83E-05
99	ENSG00000165061	ZMAT4	0.674	4.96E-05
100	ENSG00000165943	MOAP1	0.674	4.96E-05
101	ENSG00000225465	RFPL1S	0.674	4.96E-05
102	ENSG00000174996	KLC2	0.673	5.09E-05
103	ENSG00000198934	MAGEE1	0.673	5.09E-05
104	ENSG00000158806	NPM2	0.672	5.22E-05

105	ENSG00000147465	STAR	0.672	5.22E-05
106	ENSG00000167778	SPRYD3	0.671	5.36E-05
107	ENSG00000078902	TOLLIP	0.671	5.36E-05
108	ENSG00000177432	NAP1L5	0.671	5.36E-05
109	ENSG00000187730	GABRD	0.671	5.36E-05
110	ENSG00000213424	KRT222	0.671	5.36E-05
111	ENSG00000101489	CELF4	0.671	5.36E-05
112	ENSG00000104140	RHOV	0.671	5.36E-05
113	ENSG00000166763	STRCP1	0.671	5.36E-05
114	ENSG00000201136	RNU6-353P	0.671	5.36E-05
115	ENSG00000162931	TRIM17	0.670	5.50E-05
116	ENSG00000108352	RAPGEFL1	0.670	5.50E-05
117	ENSG00000172375	C2CD2L	0.670	5.50E-05
118	ENSG00000130558	OLFM1	0.670	5.50E-05
119	ENSG00000256008	RP11-728G15.1	0.669	5.64E-05
120	ENSG00000174521	TTC9B	0.669	5.64E-05
121	ENSG00000007264	MATK	0.668	5.79E-05
122	ENSG00000214376	VSTM5	0.668	5.79E-05
123	ENSG00000073670	ADAM11	0.668	5.79E-05
124	ENSG00000107758	PPP3CB	0.667	5.94E-05
125	ENSG00000107954	NEURL1	0.667	5.94E-05
126	ENSG00000082458	DLG3	0.667	5.94E-05

127	ENSG00000168490	PHYHIP	0.666	6.09E-05
128	ENSG00000154146	NRGN	0.666	6.09E-05
129	ENSG00000186732	MPPED1	0.666	6.09E-05
130	ENSG00000116544	DLGAP3	0.666	6.09E-05
131	ENSG00000197562	RAB40C	0.665	6.25E-05
132	ENSG00000073150	PANX2	0.665	6.25E-05
133	ENSG00000124140	SLC12A5	0.665	6.25E-05
134	ENSG00000162728	KCNJ9	0.664	6.41E-05
135	ENSG00000189241	TSPYL1	0.664	6.41E-05
136	ENSG00000178171	AMER3	0.664	6.41E-05
137	ENSG00000257556	RP11-44N21.1	0.664	6.41E-05
138	ENSG00000166006	KCNC2	0.664	6.41E-05
139	ENSG00000050748	MAPK9	0.662	6.75E-05
140	ENSG00000233508	RP1-269M15.3	0.662	6.75E-05
141	ENSG00000164076	CAMKV	0.662	6.75E-05
142	ENSG00000130822	PNCK	0.661	6.92E-05
143	ENSG00000075043	KCNQ2	0.661	6.92E-05
144	ENSG00000196972	SMIM10L2B	0.661	6.92E-05
145	ENSG00000221857	CTD-2527I21.4	0.660	7.10E-05
146	ENSG00000189410	SH2D5	0.660	7.10E-05
147	ENSG00000172782	FADS6	0.660	7.10E-05
148	ENSG00000174938	SEZ6L2	0.659	7.28E-05

149	ENSG00000149575	SCN2B	0.659	7.28E-05
150	ENSG00000160716	CHRNA2	0.658	7.47E-05
151	ENSG00000261675	RP5-1119A7.17	0.658	7.47E-05
152	ENSG00000186642	PDE2A	0.658	7.47E-05
153	ENSG00000157064	NMNAT2	0.658	7.47E-05
154	ENSG00000176788	BASP1	0.658	7.47E-05
155	ENSG00000135423	GLS2	0.658	7.47E-05
156	ENSG00000233452	STXBP5-AS1	0.658	7.47E-05
157	ENSG00000278456	RP11-66B24.9	0.658	7.47E-05
158	ENSG00000278195	SSTR3	0.657	7.66E-05
159	ENSG00000107864	CPEB3	0.657	7.66E-05
160	ENSG00000111674	ENO2	0.657	7.66E-05
161	ENSG00000244567	AC096772.6	0.657	7.66E-05
162	ENSG00000166313	APBB1	0.657	7.66E-05
163	ENSG00000144550	CPNE9	0.656	7.85E-05
164	ENSG00000254507	RP11-481A20.10	0.656	7.85E-05
165	ENSG00000168748	CA7	0.656	7.85E-05
166	ENSG00000101210	EEF1A2	0.656	7.85E-05
167	ENSG00000163032	VSNL1	0.656	7.85E-05
168	ENSG00000261496	RP13-514E23.1	0.656	7.85E-05
169	ENSG00000130643	CALY	0.656	7.85E-05
170	ENSG00000164082	GRM2	0.655	8.05E-05

171	ENSG00000006740	ARHGAP44	0.655	8.05E-05
172	ENSG00000255384	RP11-770J1.4	0.655	8.05E-05
173	ENSG00000263878	DLGAP1-AS4	0.654	8.26E-05
174	ENSG00000178947	SMIM10L2A	0.654	8.26E-05
175	ENSG00000108924	HLF	0.654	8.26E-05
176	ENSG00000106089	STX1A	0.654	8.26E-05
177	ENSG00000152932	RAB3C	0.653	8.47E-05
178	ENSG00000120053	GOT1	0.653	8.47E-05
179	ENSG00000186377	CYP4X1	0.653	8.47E-05
180	ENSG00000069966	GNB5	0.653	8.47E-05
181	ENSG00000148798	INA	0.653	8.47E-05
182	ENSG00000011083	SLC6A7	0.652	8.68E-05
183	ENSG00000145029	NICN1	0.652	8.68E-05
184	ENSG00000108509	CAMTA2	0.652	8.68E-05
185	ENSG00000254187	CTB-78F1.1	0.652	8.68E-05
186	ENSG00000158856	DMTN	0.652	8.68E-05
187	ENSG00000109738	GLRB	0.652	8.68E-05
188	ENSG00000213760	ATP6V1G2	0.652	8.68E-05
189	ENSG00000112137	PHACTR1	0.652	8.68E-05
190	ENSG00000130540	SULT4A1	0.652	8.68E-05
191	ENSG00000272479	RP11-301G7.1	0.652	8.68E-05
192	ENSG00000186212	SOWAHB	0.651	8.90E-05

193	ENSG00000174939	ASPHD1	0.651	8.90E-05
194	ENSG00000167971	CASKIN1	0.651	8.90E-05
195	ENSG00000259153	RP6-65G23.3	0.650	9.13E-05
196	ENSG00000166793	YPEL4	0.650	9.13E-05
197	ENSG00000186862	PDZD7	0.649	9.36E-05
198	ENSG00000067606	PRKCZ	0.649	9.36E-05
199	ENSG00000138101	DTNB	0.649	9.36E-05
200	ENSG00000232434	C9orf172	0.649	9.36E-05
201	ENSG00000187094	CCK	0.648	9.60E-05
202	ENSG00000158301	GPRASP2	0.648	9.60E-05
203	ENSG00000100321	SYNGR1	0.648	9.60E-05
204	ENSG00000105613	MAST1	0.648	9.60E-05
205	ENSG00000165152	TMEM246	0.648	9.60E-05
206	ENSG00000124507	PACSIN1	0.647	9.84E-05
207	ENSG00000196876	SCN8A	0.647	9.84E-05
208	ENSG00000281160	RP11-333B11.1	0.647	9.84E-05
209	ENSG00000213023	SYT3	0.646	1.01E-04
210	ENSG00000078328	RBFOX1	0.646	1.01E-04
211	ENSG00000280798	LINC00294	0.646	1.01E-04
212	ENSG00000154096	THY1	0.646	1.01E-04
213	ENSG00000070808	CAMK2A	0.646	1.01E-04
214	ENSG00000149927	DOC2A	0.646	1.01E-04

215	ENSG00000274400	RP11-294N21.3	0.646	1.01E-04
216	ENSG00000160014	CALM3	0.644	1.06E-04
217	ENSG00000166448	TMEM130	0.644	1.06E-04
218	ENSG00000110171	TRIM3	0.644	1.06E-04
219	ENSG00000151778	SERP2	0.644	1.06E-04
220	ENSG00000141668	CBLN2	0.644	1.06E-04
221	ENSG00000074211	PPP2R2C	0.644	1.06E-04
222	ENSG00000129355	CDKN2D	0.644	1.06E-04
223	ENSG00000165643	SOHLH1	0.644	1.06E-04
224	ENSG00000118402	ELOVL4	0.643	1.09E-04
225	ENSG00000198673	FAM19A2	0.643	1.09E-04
226	ENSG00000260230	FRRS1L	0.643	1.09E-04
227	ENSG00000133318	RTN3	0.643	1.09E-04
228	ENSG00000066248	NGEF	0.643	1.09E-04
229	ENSG00000019505	SYT13	0.643	1.09E-04
230	ENSG00000260163	RP11-521O16.2	0.642	1.11E-04
231	ENSG00000067842	ATP2B3	0.642	1.11E-04
232	ENSG00000010438	PRSS3	0.642	1.11E-04
233	ENSG00000232503	CYCSP8	0.642	1.11E-04
234	ENSG00000204653	ASPDH	0.642	1.11E-04
235	ENSG00000157445	CACNA2D3	0.642	1.11E-04
236	ENSG00000132938	MTUS2	0.642	1.11E-04

237	ENSG00000079841	RIMS1	0.642	1.11E-04
238	ENSG00000260630	SNAI3-AS1	0.641	1.14E-04
239	ENSG00000162817	C1orf115	0.641	1.14E-04
240	ENSG00000087152	ATXN7L3	0.641	1.14E-04
241	ENSG00000220575	HTR5A-AS1	0.641	1.14E-04
242	ENSG00000254377	MIR124-2HG	0.641	1.14E-04
243	ENSG00000149654	CDH22	0.641	1.14E-04
244	ENSG00000181418	DDN	0.641	1.14E-04
245	ENSG00000104722	NEFM	0.641	1.14E-04
246	ENSG00000128253	RFPL2	0.641	1.14E-04
247	ENSG00000257272	RP11-317N8.3	0.640	1.17E-04
248	ENSG00000180720	CHRM4	0.640	1.17E-04
249	ENSG00000118160	SLC8A2	0.640	1.17E-04
250	ENSG00000127588	GNG13	0.640	1.17E-04
251	ENSG00000135426	TESPA1	0.639	1.20E-04
252	ENSG00000142408	CACNG8	0.639	1.20E-04
253	ENSG00000116254	CHD5	0.639	1.20E-04
254	ENSG00000240207	RP11-379F4.4	0.639	1.20E-04
255	ENSG00000237737	DCTN1-AS1	0.638	1.23E-04
256	ENSG00000160145	KALRN	0.638	1.23E-04
257	ENSG00000185933	CALHM1	0.638	1.23E-04
258	ENSG00000107105	ELAVL2	0.638	1.23E-04

259	ENSG00000166924	NYAP1	0.638	1.23E-04
260	ENSG00000105696	TMEM59L	0.638	1.23E-04
261	ENSG00000069424	KCNAB2	0.637	1.26E-04
262	ENSG00000197586	ENTPD6	0.637	1.26E-04
263	ENSG00000146267	FAXC	0.637	1.26E-04
264	ENSG00000145990	GFOD1	0.637	1.26E-04
265	ENSG00000180044	C3orf80	0.636	1.29E-04
266	ENSG00000144290	SLC4A10	0.636	1.29E-04
267	ENSG00000157219	HTR5A	0.636	1.29E-04
268	ENSG00000197322	C17orf102	0.636	1.29E-04
269	ENSG00000233487	RPSAP69	0.636	1.29E-04
270	ENSG00000139970	RTN1	0.635	1.32E-04
271	ENSG00000125841	NRSN2	0.635	1.32E-04
272	ENSG00000004660	CAMKK1	0.635	1.32E-04
273	ENSG00000279090	RP11-684N3.1	0.635	1.32E-04
274	ENSG00000103269	RHBDL1	0.635	1.32E-04
275	ENSG00000134030	CTIF	0.634	1.36E-04
276	ENSG00000145198	VWA5B2	0.634	1.36E-04
277	ENSG00000185105	MYADML2	0.634	1.36E-04
278	ENSG00000176749	CDK5R1	0.634	1.36E-04
279	ENSG00000272163	GS1-72M22.1	0.634	1.36E-04
280	ENSG00000225675	RP4-784A16.5	0.634	1.36E-04

281	ENSG00000110931	CAMKK2	0.634	1.36E-04
282	ENSG00000272031	ANKRD34A	0.634	1.36E-04
283	ENSG00000106976	DNM1	0.633	1.39E-04
284	ENSG00000168830	HTR1E	0.633	1.39E-04
285	ENSG00000249436	CTD-2023N9.3	0.633	1.39E-04
286	ENSG00000006116	CACNG3	0.633	1.39E-04
287	ENSG00000226762	RP11-298E9.6	0.633	1.39E-04
288	ENSG00000136531	SCN2A	0.632	1.42E-04
289	ENSG00000174672	BRSK2	0.632	1.42E-04
290	ENSG00000231536	AC123886.2	0.631	1.46E-04
291	ENSG00000073969	NSF	0.631	1.46E-04
292	ENSG00000167037	SGSM1	0.631	1.46E-04
293	ENSG00000167680	SEMA6B	0.631	1.46E-04
294	ENSG00000270750	RP11-461L13.3	0.631	1.46E-04
295	ENSG00000226627	SHANK2-AS1	0.631	1.46E-04
296	ENSG00000124243	BCAS4	0.631	1.46E-04
297	ENSG00000176406	RIMS2	0.630	1.50E-04
298	ENSG00000205899	BHLHA9	0.630	1.50E-04
299	ENSG00000221946	FXYP7	0.630	1.50E-04
300	ENSG00000157087	ATP2B2	0.630	1.50E-04
301	ENSG00000226287	TMEM191A	0.630	1.50E-04
302	ENSG00000135519	KCNH3	0.630	1.50E-04

303	ENSG00000234336	JAZF1-AS1	0.629	1.53E-04
304	ENSG00000106852	LHX6	0.629	1.53E-04
305	ENSG00000253762	RP11-579E24.2	0.629	1.53E-04
306	ENSG00000128656	CHN1	0.629	1.53E-04
307	ENSG00000178233	TMEM151B	0.629	1.53E-04
308	ENSG00000229797	AC140481.8	0.628	1.57E-04
309	ENSG00000174514	MFSD4	0.628	1.57E-04
310	ENSG00000058404	CAMK2B	0.628	1.57E-04
311	ENSG00000106123	EPHB6	0.628	1.57E-04
312	ENSG00000151729	SLC25A4	0.628	1.57E-04
313	ENSG00000138814	PPP3CA	0.627	1.61E-04
314	ENSG00000097021	ACOT7	0.627	1.61E-04
315	ENSG00000185742	C11orf87	0.627	1.61E-04
316	ENSG00000161082	CELF5	0.627	1.61E-04
317	ENSG00000158560	DYNC1I1	0.627	1.61E-04
318	ENSG00000136535	TBR1	0.627	1.61E-04
319	ENSG00000162989	KCNJ3	0.627	1.61E-04
320	ENSG00000160396	HIPK4	0.627	1.61E-04
321	ENSG00000172350	ABCG4	0.626	1.65E-04
322	ENSG00000272501	XXbac-BPG299F13.17	0.626	1.65E-04
323	ENSG00000120645	IQSEC3	0.626	1.65E-04
324	ENSG00000123360	PDE1B	0.626	1.65E-04

325	ENSG00000147676	MAL2	0.626	1.65E-04
326	ENSG00000163888	CAMK2N2	0.626	1.65E-04
327	ENSG00000184545	DUSP8	0.626	1.65E-04
328	ENSG00000221823	PPP3R1	0.626	1.65E-04
329	ENSG00000164112	TMEM155	0.625	1.69E-04
330	ENSG00000002746	HECW1	0.625	1.69E-04
331	ENSG00000196990	FAM163B	0.625	1.69E-04
332	ENSG00000060140	STYK1	0.625	1.69E-04
333	ENSG00000127824	TUBA4A	0.625	1.69E-04
334	ENSG00000133612	AGAP3	0.625	1.69E-04
335	ENSG00000257151	PWAR6	0.625	1.69E-04
336	ENSG00000248455	RP11-321E2.3	0.624	1.73E-04
337	ENSG00000166501	PRKCB	0.624	1.73E-04
338	ENSG00000160469	BRSK1	0.624	1.73E-04
339	ENSG00000117016	RIMS3	0.624	1.73E-04
340	ENSG00000233175	CTD-2020K17.3	0.624	1.73E-04
341	ENSG00000159409	CELF3	0.623	1.77E-04
342	ENSG00000005249	PRKAR2B	0.623	1.77E-04
343	ENSG00000249487	LINC01586	0.623	1.77E-04
344	ENSG00000169884	WNT10B	0.623	1.77E-04
345	ENSG00000101079	NDRG3	0.623	1.77E-04
346	ENSG00000099814	CEP170B	0.623	1.77E-04

347	ENSG00000182674	KCNB2	0.623	1.77E-04
348	ENSG00000279013	RP11-254A24.2	0.622	1.81E-04
349	ENSG00000101298	SNPH	0.622	1.81E-04
350	ENSG00000172031	EPHX4	0.622	1.81E-04
351	ENSG00000236901	MIR600HG	0.622	1.81E-04
352	ENSG00000165553	NGB	0.622	1.81E-04
353	ENSG00000176194	CIDEA	0.621	1.86E-04
354	ENSG00000206814	Y_RNA	0.621	1.86E-04
355	ENSG00000164061	BSN	0.621	1.86E-04
356	ENSG00000163536	SERPINI1	0.621	1.86E-04
357	ENSG00000088538	DOCK3	0.621	1.86E-04
358	ENSG00000143921	ABCG8	0.621	1.86E-04
359	ENSG00000138834	MAPK8IP3	0.621	1.86E-04
360	ENSG00000168135	KCNJ4	0.621	1.86E-04
361	ENSG00000005379	BZRAP1	0.620	1.90E-04
362	ENSG00000166206	GABRB3	0.620	1.90E-04
363	ENSG00000122733	PHF24	0.620	1.90E-04
364	ENSG00000233123	LINC01007	0.620	1.90E-04
365	ENSG00000076826	CAMSAP3	0.620	1.90E-04
366	ENSG00000118733	OLFM3	0.620	1.90E-04
367	ENSG00000261678	SCRT1	0.620	1.90E-04
368	ENSG00000132359	RAP1GAP2	0.620	1.90E-04

369	ENSG00000145864	GABRB2	0.620	1.90E-04
370	ENSG00000065559	MAP2K4	0.619	1.95E-04
371	ENSG00000186310	NAP1L3	0.619	1.95E-04
372	ENSG00000119227	PIGZ	0.619	1.95E-04
373	ENSG00000232859	LYRM9	0.619	1.95E-04
374	ENSG00000054356	PTPRN	0.619	1.95E-04
375	ENSG00000260328	RP11-416I2.1	0.619	1.95E-04
376	ENSG00000277586	NEFL	0.619	1.95E-04
377	ENSG00000075035	WSCD2	0.619	1.95E-04
378	ENSG00000036530	CYP46A1	0.619	1.95E-04
379	ENSG00000204588	LINC01123	0.619	1.95E-04
380	ENSG00000143847	PPFIA4	0.619	1.95E-04
381	ENSG00000149091	DGKZ	0.618	2.00E-04
382	ENSG00000131100	ATP6V1E1	0.618	2.00E-04
383	ENSG00000259583	RP11-66B24.4	0.618	2.00E-04
384	ENSG00000167964	RAB26	0.618	2.00E-04
385	ENSG00000184515	BEX5	0.618	2.00E-04
386	ENSG00000125510	OPRL1	0.618	2.00E-04
387	ENSG00000234111	RP11-364P22.1	0.618	2.00E-04
388	ENSG00000125814	NAPB	0.617	2.05E-04
389	ENSG00000173898	SPTBN2	0.617	2.05E-04
390	ENSG00000261325	AC140542.2	0.617	2.05E-04

391	ENSG00000177542	SLC25A22	0.617	2.05E-04
392	ENSG00000165752	STK32C	0.617	2.05E-04
393	ENSG00000138207	RBP4	0.617	2.05E-04
394	ENSG00000084731	KIF3C	0.616	2.10E-04
395	ENSG00000171532	NEUROD2	0.616	2.10E-04
396	ENSG00000061918	GUCY1B3	0.616	2.10E-04
397	ENSG00000216863	LY86-AS1	0.616	2.10E-04
398	ENSG00000255790	RP11-711K1.7	0.616	2.10E-04
399	ENSG00000148408	CACNA1B	0.615	2.15E-04
400	ENSG00000271440	RP11-373N24.2	0.615	2.15E-04
401	ENSG00000152954	NRSN1	0.615	2.15E-04
402	ENSG00000133627	ACTR3B	0.615	2.15E-04
403	ENSG00000078053	AMPH	0.615	2.15E-04
404	ENSG00000155970	MICU3	0.614	2.20E-04
405	ENSG00000165868	HSPA12A	0.614	2.20E-04
406	ENSG00000139112	GABARAPL1	0.614	2.20E-04
407	ENSG00000228203	RNF144A-AS1	0.614	2.20E-04
408	ENSG00000170786	SDR16C5	0.614	2.20E-04
409	ENSG00000069712	KIAA1107	0.614	2.20E-04
410	ENSG00000089558	KCNH4	0.614	2.20E-04
411	ENSG00000159164	SV2A	0.614	2.20E-04
412	ENSG00000157693	C9orf91	0.614	2.20E-04

413	ENSG00000186288	PABPC1L2A	0.614	2.20E-04
414	ENSG00000167535	CACNB3	0.614	2.20E-04
415	ENSG00000184388	PABPC1L2B	0.613	2.25E-04
416	ENSG00000022355	GABRA1	0.613	2.25E-04
417	ENSG00000131242	RAB11FIP4	0.613	2.25E-04
418	ENSG00000274253	RP11-566K19.6	0.613	2.25E-04
419	ENSG00000129993	CBFA2T3	0.612	2.30E-04
420	ENSG00000182389	CACNB4	0.612	2.30E-04
421	ENSG00000117152	RGS4	0.612	2.30E-04
422	ENSG00000184368	MAP7D2	0.612	2.30E-04
423	ENSG00000254746	RP11-958J22.1	0.612	2.30E-04
424	ENSG00000139973	SYT16	0.612	2.30E-04
425	ENSG00000164588	HCN1	0.612	2.30E-04
426	ENSG00000129682	FGF13	0.612	2.30E-04
427	ENSG00000020129	NCDN	0.612	2.30E-04
428	ENSG00000255136	CTD-2562J17.4	0.612	2.30E-04
429	ENSG00000279951	RP11-264J4.8	0.611	2.36E-04
430	ENSG00000081760	AACS	0.610	2.42E-04
431	ENSG00000198513	ATL1	0.609	2.47E-04
432	ENSG00000006432	MAP3K9	0.609	2.47E-04
433	ENSG00000269387	RP11-298J23.8	0.609	2.47E-04
434	ENSG00000067715	SYT1	0.609	2.47E-04

435	ENSG00000162065	TBC1D24	0.609	2.47E-04
436	ENSG00000175772	LINC01106	0.609	2.47E-04
437	ENSG00000267629	AC138430.4	0.608	2.53E-04
438	ENSG00000153291	SLC25A27	0.608	2.53E-04
439	ENSG00000103174	NAGPA	0.608	2.53E-04
440	ENSG00000037042	TUBG2	0.608	2.53E-04
441	ENSG00000149269	PAK1	0.608	2.53E-04
442	ENSG00000251322	SHANK3	0.608	2.53E-04
443	ENSG00000164715	LMTK2	0.607	2.59E-04
444	ENSG00000138378	STAT4	0.607	2.59E-04
445	ENSG00000198216	CACNA1E	0.607	2.59E-04
446	ENSG00000224425	AC073869.2	0.607	2.59E-04
447	ENSG00000131398	KCNC3	0.607	2.59E-04
448	ENSG00000132821	VSTM2L	0.607	2.59E-04
449	ENSG00000100302	RASD2	0.607	2.59E-04
450	ENSG00000014641	MDH1	0.607	2.59E-04
451	ENSG00000146469	VIP	0.606	2.66E-04
452	ENSG00000113100	CDH9	0.606	2.66E-04
453	ENSG00000233932	CTXN2	0.606	2.66E-04
454	ENSG00000105409	ATP1A3	0.606	2.66E-04
455	ENSG00000163704	PRRT3	0.606	2.66E-04
456	ENSG00000149742	SLC22A9	0.606	2.66E-04

457	ENSG00000125967	NECAB3	0.605	2.72E-04
458	ENSG00000127445	PIN1	0.605	2.72E-04
459	ENSG00000115840	SLC25A12	0.605	2.72E-04
460	ENSG00000132026	RTBDN	0.604	2.78E-04
461	ENSG00000107282	APBA1	0.604	2.78E-04
462	ENSG00000099960	SLC7A4	0.604	2.78E-04
463	ENSG00000253734	LINC01289	0.604	2.78E-04
464	ENSG00000164794	KCNV1	0.604	2.78E-04
465	ENSG00000133169	BEX1	0.604	2.78E-04
466	ENSG00000170091	HMP19	0.604	2.78E-04
467	ENSG00000139998	RAB15	0.604	2.78E-04
468	ENSG00000177181	RIMKLA	0.604	2.78E-04
469	ENSG00000179611	DGKZP1	0.603	2.85E-04
470	ENSG00000163630	SYNPR	0.603	2.85E-04
471	ENSG00000258472	RP11-192H23.4	0.603	2.85E-04
472	ENSG00000103316	CRYM	0.603	2.85E-04
473	ENSG00000157214	STEAP2	0.603	2.85E-04
474	ENSG00000248469	RP11-826N14.2	0.603	2.85E-04
475	ENSG00000131089	ARHGEF9	0.603	2.85E-04
476	ENSG00000177511	ST8SIA3	0.603	2.85E-04
477	ENSG00000072657	TRHDE	0.602	2.92E-04
478	ENSG00000129990	SYT5	0.602	2.92E-04

479	ENSG00000185133	INPP5J	0.602	2.92E-04
480	ENSG00000153933	DGKE	0.602	2.92E-04
481	ENSG00000145087	STXBP5L	0.602	2.92E-04
482	ENSG00000115756	HPCAL1	0.602	2.92E-04
483	ENSG00000164506	STXBP5	0.601	2.98E-04
484	ENSG00000276809	RP11-10E18.7	0.601	2.98E-04
485	ENSG00000151948	GLT1D1	0.601	2.98E-04
486	ENSG00000180155	LYNX1	0.601	2.98E-04
487	ENSG00000163833	FBXO40	0.601	2.98E-04
488	ENSG00000183785	TUBA8	0.601	2.98E-04
489	ENSG00000172209	GPR22	0.601	2.98E-04
490	ENSG00000176383	B3GNT4	0.600	3.06E-04
491	ENSG00000169933	FRMPD4	0.600	3.06E-04
492	ENSG00000164620	RELL2	0.600	3.06E-04
493	ENSG00000166257	SCN3B	0.600	3.06E-04
494	ENSG00000091536	MYO15A	0.600	3.06E-04
495	ENSG00000279952	RP11-483I24.1	0.600	3.06E-04
496	ENSG00000236668	RP11-85O21.2	0.600	3.06E-04
497	ENSG00000168032	ENTPD3	0.600	3.06E-04
498	ENSG00000165704	HPRT1	0.600	3.06E-04
499	ENSG00000274996	CTB-58E17.2	0.600	3.06E-04
500	ENSG00000166619	BLCAP	0.600	3.06E-04

501	ENSG00000130758	MAP3K10	0.599	3.13E-04
502	ENSG00000233705	SLC26A4-AS1	0.599	3.13E-04
503	ENSG00000063180	CA11	0.599	3.13E-04
504	ENSG00000135638	EMX1	0.599	3.13E-04
505	ENSG00000198010	DLGAP2	0.599	3.13E-04
506	ENSG00000175874	CREG2	0.599	3.13E-04
507	ENSG00000213337	ANKRD39	0.599	3.13E-04
508	ENSG00000145063	AC062028.1	0.599	3.13E-04
509	ENSG00000099308	MAST3	0.599	3.13E-04
510	ENSG00000110786	PTPN5	0.599	3.13E-04
511	ENSG00000184185	KCNJ12	0.599	3.13E-04
512	ENSG00000102468	HTR2A	0.599	3.13E-04
513	ENSG00000114812	VIPR1	0.598	3.20E-04
514	ENSG00000234423	LINC01250	0.598	3.20E-04
515	ENSG00000254092	RP11-369E15.3	0.598	3.20E-04
516	ENSG00000157470	FAM81A	0.598	3.20E-04
517	ENSG00000204991	SPIRE2	0.598	3.20E-04
518	ENSG00000188573	FBLL1	0.598	3.20E-04
519	ENSG00000101152	DNAJC5	0.598	3.20E-04
520	ENSG00000182400	TRAPPC6B	0.598	3.20E-04
521	ENSG00000226717	PTPRD-AS2	0.598	3.20E-04
522	ENSG00000167178	ISLR2	0.598	3.20E-04

523	ENSG00000236279	CLEC2L	0.598	3.20E-04
524	ENSG00000137218	FRS3	0.598	3.20E-04
525	ENSG00000107130	NCS1	0.597	3.28E-04
526	ENSG00000105662	CRTC1	0.597	3.28E-04
527	ENSG00000167702	KIFC2	0.597	3.28E-04
528	ENSG00000149970	CNKS2R2	0.597	3.28E-04
529	ENSG00000156564	LRFN2	0.597	3.28E-04
530	ENSG00000047249	ATP6V1H	0.597	3.28E-04
531	ENSG00000155256	ZFYVE27	0.596	3.35E-04
532	ENSG00000175662	TOM1L2	0.596	3.35E-04
533	ENSG00000144711	IQSEC1	0.596	3.35E-04
534	ENSG00000272321	KB-1517D11.4	0.596	3.35E-04
535	ENSG00000165914	TTC7B	0.595	3.43E-04
536	ENSG00000133134	BEX2	0.595	3.43E-04
537	ENSG00000135709	KIAA0513	0.595	3.43E-04
538	ENSG00000008118	CAMK1G	0.595	3.43E-04
539	ENSG00000197885	NKIRAS1	0.594	3.51E-04
540	ENSG00000234646	RP4-753D10.3	0.594	3.51E-04
541	ENSG00000204843	DCTN1	0.594	3.51E-04
542	ENSG00000110427	KIAA1549L	0.594	3.51E-04
543	ENSG00000121905	HPCA	0.594	3.51E-04
544	ENSG00000241973	PI4KA	0.594	3.51E-04

545	ENSG00000205562	RP11-497E19.1	0.594	3.51E-04
546	ENSG00000155265	GOLGA7B	0.594	3.51E-04
547	ENSG00000152034	MCHR2	0.593	3.59E-04
548	ENSG00000162729	IGSF8	0.593	3.59E-04
549	ENSG00000185518	SV2B	0.593	3.59E-04
550	ENSG00000169258	GPRIN1	0.593	3.59E-04
551	ENSG00000229255	RP11-407H12.8	0.593	3.59E-04
552	ENSG00000225554	RP11-527D7.1	0.593	3.59E-04
553	ENSG00000104381	GDAP1	0.593	3.59E-04
554	ENSG00000276282	RP11-210K20.5	0.592	3.68E-04
555	ENSG00000185345	PARK2	0.592	3.68E-04
556	ENSG00000226377	AC084809.2	0.592	3.68E-04
557	ENSG00000089169	RPH3A	0.592	3.68E-04
558	ENSG00000198944	SOWAHA	0.591	3.76E-04
559	ENSG00000088367	EPB41L1	0.591	3.76E-04
560	ENSG00000162545	CAMK2N1	0.591	3.76E-04
561	ENSG00000120088	CRHR1	0.591	3.76E-04
562	ENSG00000276627	RP5-1016A21.1	0.591	3.76E-04
563	ENSG00000087095	NLK	0.591	3.76E-04
564	ENSG00000120265	PCMT1	0.591	3.76E-04
565	ENSG00000197860	SGTB	0.591	3.76E-04
566	ENSG00000235711	ANKRD34C	0.591	3.76E-04

567	ENSG00000120903	CHRNA2	0.590	3.85E-04
568	ENSG00000270883	RP11-461L13.5	0.590	3.85E-04
569	ENSG00000198825	INPP5F	0.590	3.85E-04
570	ENSG00000235510	BX842568.1	0.590	3.85E-04
571	ENSG00000173611	SCAI	0.590	3.85E-04
572	ENSG00000165125	TRPV6	0.590	3.85E-04
573	ENSG00000142686	C1orf216	0.590	3.85E-04
574	ENSG00000259823	LYPD8	0.590	3.85E-04
575	ENSG00000259234	ANKRD34C-AS1	0.589	3.94E-04
576	ENSG00000229672	RP11-184A2.3	0.589	3.94E-04
577	ENSG00000228016	RAPGEF4-AS1	0.589	3.94E-04
578	ENSG00000280105	RP11-334E15.1	0.589	3.94E-04
579	ENSG00000186416	NKRF	0.589	3.94E-04
580	ENSG00000233936	RP11-399H11.2	0.589	3.94E-04
581	ENSG00000128268	MGAT3	0.589	3.94E-04
582	ENSG00000067221	STOML1	0.588	4.03E-04
583	ENSG00000068400	GRIPAP1	0.588	4.03E-04
584	ENSG00000144567	FAM134A	0.588	4.03E-04
585	ENSG00000178773	CPNE7	0.588	4.03E-04
586	ENSG00000128739	SNRPN	0.588	4.03E-04
587	ENSG00000165863	C10orf82	0.588	4.03E-04
588	ENSG00000105376	ICAM5	0.588	4.03E-04

589	ENSG00000120256	LRP11	0.588	4.03E-04
590	ENSG00000145335	SNCA	0.587	4.12E-04
591	ENSG00000124134	KCNS1	0.587	4.12E-04
592	ENSG00000205634	LINC00898	0.587	4.12E-04
593	ENSG00000156486	KCNS2	0.587	4.12E-04
594	ENSG00000170027	YWHAG	0.587	4.12E-04
595	ENSG00000109339	MAPK10	0.586	4.22E-04
596	ENSG00000278654	RP11-434C1.4	0.586	4.22E-04
597	ENSG00000162188	GNG3	0.586	4.22E-04
598	ENSG00000176490	DIRAS1	0.586	4.22E-04
599	ENSG00000077264	PAK3	0.586	4.22E-04
600	ENSG00000156642	NPTN	0.586	4.22E-04
601	ENSG00000088808	PPP1R13B	0.586	4.22E-04
602	ENSG00000253535	RP11-624C23.1	0.586	4.22E-04
603	ENSG00000128245	YWHAH	0.585	4.32E-04
604	ENSG00000105549	THEG	0.585	4.32E-04
605	ENSG00000072041	SLC6A15	0.585	4.32E-04
606	ENSG00000137843	PAK6	0.585	4.32E-04
607	ENSG00000204564	C6orf136	0.585	4.32E-04
608	ENSG00000178015	GPR150	0.585	4.32E-04
609	ENSG00000261738	MIR3976HG	0.585	4.32E-04
610	ENSG00000129473	BCL2L2	0.584	4.42E-04

611	ENSG00000130032	PRRG3	0.584	4.42E-04
612	ENSG00000197106	SLC6A17	0.584	4.42E-04
613	ENSG00000104435	STMN2	0.584	4.42E-04
614	ENSG00000118194	TNNT2	0.584	4.42E-04
615	ENSG00000135127	CCDC64	0.584	4.42E-04
616	ENSG00000072071	ADGRL1	0.583	4.52E-04
617	ENSG00000147059	SPIN2A	0.583	4.52E-04
618	ENSG00000187189	TSPYL4	0.583	4.52E-04
619	ENSG00000152969	JAKMIP1	0.583	4.52E-04
620	ENSG00000268297	CLEC4GP1	0.583	4.52E-04
621	ENSG00000172260	NEGR1	0.583	4.52E-04
622	ENSG00000228135	LINC01494	0.582	4.62E-04
623	ENSG00000152495	CAMK4	0.582	4.62E-04
624	ENSG00000112053	SLC26A8	0.582	4.62E-04
625	ENSG00000108819	PPP1R9B	0.582	4.62E-04
626	ENSG00000169744	LDB2	0.582	4.62E-04
627	ENSG00000022567	SLC45A4	0.582	4.62E-04
628	ENSG00000181215	C4orf50	0.582	4.62E-04
629	ENSG00000185442	FAM174B	0.581	4.73E-04
630	ENSG00000174469	CNTNAP2	0.581	4.73E-04
631	ENSG00000198668	CALM1	0.581	4.73E-04
632	ENSG00000091622	PITPNM3	0.580	4.83E-04

633	ENSG00000113319	RASGRF2	0.580	4.83E-04
634	ENSG00000172995	ARPP21	0.580	4.83E-04
635	ENSG00000076864	RAP1GAP	0.580	4.83E-04
636	ENSG00000116983	HPCAL4	0.580	4.83E-04
637	ENSG00000109158	GABRA4	0.580	4.83E-04
638	ENSG00000261340	LINC01616	0.580	4.83E-04
639	ENSG00000185386	MAPK11	0.580	4.83E-04
640	ENSG00000152931	PART1	0.580	4.83E-04
641	ENSG00000166579	NDEL1	0.580	4.83E-04
642	ENSG00000023171	GRAMD1B	0.580	4.83E-04
643	ENSG00000183186	C2CD4C	0.579	4.95E-04
644	ENSG00000057935	MTA3	0.579	4.95E-04
645	ENSG00000224195	RP11-574K11.5	0.579	4.95E-04
646	ENSG00000248859	LINC01574	0.579	4.95E-04
647	ENSG00000166963	MAP1A	0.578	5.06E-04
648	ENSG00000237361	TUSC8	0.578	5.06E-04
649	ENSG00000108684	ASIC2	0.578	5.06E-04
650	ENSG00000198478	SH3BGRL2	0.578	5.06E-04
651	ENSG00000138028	CGREF1	0.578	5.06E-04
652	ENSG00000183780	SLC35F3	0.578	5.06E-04
653	ENSG00000183826	BTBD9	0.578	5.06E-04
654	ENSG00000166780	C16orf45	0.578	5.06E-04

655	ENSG00000171160	MORN4	0.577	5.17E-04
656	ENSG00000189227	C15orf61	0.577	5.17E-04
657	ENSG00000249896	RP11-586D19.1	0.577	5.17E-04
658	ENSG00000222030	AC007131.1	0.577	5.17E-04
659	ENSG00000259577	RP11-430B1.2	0.577	5.17E-04
660	ENSG00000265313	LINC01476	0.577	5.17E-04
661	ENSG00000188690	UROS	0.577	5.17E-04
662	ENSG00000132671	SSTR4	0.577	5.17E-04
663	ENSG00000100285	NEFH	0.576	5.29E-04
664	ENSG00000251621	AC009487.5	0.576	5.29E-04
665	ENSG00000275286	RP11-499A10.3	0.576	5.29E-04
666	ENSG00000148341	SH3GLB2	0.576	5.29E-04
667	ENSG00000258736	RP11-982M15.7	0.576	5.29E-04
668	ENSG00000139190	VAMP1	0.576	5.29E-04
669	ENSG00000048991	R3HDM1	0.576	5.29E-04
670	ENSG00000160326	SLC2A6	0.575	5.41E-04
671	ENSG00000140323	DISP2	0.575	5.41E-04
672	ENSG00000115194	SLC30A3	0.575	5.41E-04
673	ENSG00000172247	C1QTNF4	0.575	5.41E-04
674	ENSG00000111262	KCNA1	0.575	5.41E-04
675	ENSG00000248485	PCP4L1	0.575	5.41E-04
676	ENSG00000236403	RP11-447M12.2	0.574	5.53E-04

677	ENSG00000273079	GRIN2B	0.574	5.53E-04
678	ENSG00000257061	RP4-809F18.2	0.574	5.53E-04
679	ENSG00000111249	CUX2	0.574	5.53E-04
680	ENSG00000204071	TCEAL6	0.574	5.53E-04
681	ENSG00000070182	SPTB	0.574	5.53E-04
682	ENSG00000204789	ZNF204P	0.574	5.53E-04
683	ENSG00000172602	RND1	0.574	5.53E-04
684	ENSG00000011347	SYT7	0.574	5.53E-04
685	ENSG00000109670	FBXW7	0.574	5.53E-04
686	ENSG00000124702	KLHDC3	0.573	5.66E-04
687	ENSG00000274114	CTC-281F24.3	0.573	5.66E-04
688	ENSG00000183775	KCTD16	0.573	5.66E-04
689	ENSG00000267466	RP11-13K12.5	0.573	5.66E-04
690	ENSG00000104888	SLC17A7	0.573	5.66E-04
691	ENSG00000260838	RP11-531A24.3	0.573	5.66E-04
692	ENSG00000010404	IDS	0.572	5.79E-04
693	ENSG00000154027	AK5	0.572	5.79E-04
694	ENSG00000272576	RP11-365H22.2	0.572	5.79E-04
695	ENSG00000267272	LINC01140	0.572	5.79E-04
696	ENSG00000160445	ZER1	0.572	5.79E-04
697	ENSG00000279059	RP11-257O5.2	0.571	5.92E-04
698	ENSG00000237517	DGCR5	0.571	5.92E-04

699	ENSG00000119986	AVPI1	0.571	5.92E-04
700	ENSG00000197753	LHFPL5	0.571	5.92E-04
701	ENSG00000008853	RHOBTB2	0.571	5.92E-04
702	ENSG00000259385	RP11-605F22.1	0.571	5.92E-04
703	ENSG00000254664	CTD-2560E9.3	0.571	5.92E-04
704	ENSG00000157152	SYN2	0.571	5.92E-04
705	ENSG00000021645	NRXN3	0.571	5.92E-04
706	ENSG00000049283	EPN3	0.571	5.92E-04
707	ENSG00000171132	PRKCE	0.570	6.05E-04
708	ENSG00000253973	RP11-467K18.2	0.570	6.05E-04
709	ENSG00000236922	LINC01378	0.570	6.05E-04
710	ENSG00000255087	RP11-168K9.2	0.570	6.05E-04
711	ENSG00000232780	GAPDHP74	0.570	6.05E-04
712	ENSG00000139182	CLSTN3	0.570	6.05E-04
713	ENSG00000236064	RP6-191P20.4	0.570	6.05E-04
714	ENSG00000173227	SYT12	0.569	6.19E-04
715	ENSG00000198626	RYR2	0.569	6.19E-04
716	ENSG00000235296	AC137723.5	0.569	6.19E-04
717	ENSG00000124523	SIRT5	0.569	6.19E-04
718	ENSG00000250366	TUNAR	0.569	6.19E-04
719	ENSG00000182230	FAM153B	0.569	6.19E-04
720	ENSG00000102226	USP11	0.568	6.33E-04

721	ENSG00000102181	CD99L2	0.568	6.33E-04
722	ENSG00000197381	ADARB1	0.568	6.33E-04
723	ENSG00000171509	RXFP1	0.568	6.33E-04
724	ENSG00000145911	N4BP3	0.568	6.33E-04
725	ENSG00000184999	SLC22A10	0.568	6.33E-04
726	ENSG00000152784	PRDM8	0.568	6.33E-04
727	ENSG00000263724	DLGAP1-AS3	0.568	6.33E-04
728	ENSG00000179841	AKAP5	0.567	6.47E-04
729	ENSG00000259543	CTD-2034I4.1	0.567	6.47E-04
730	ENSG00000141404	GNAL	0.567	6.47E-04
731	ENSG00000261292	RP11-389G6.3	0.567	6.47E-04
732	ENSG00000161681	SHANK1	0.567	6.47E-04
733	ENSG00000214043	RP5-944M2.3	0.566	6.61E-04
734	ENSG00000145526	CDH18	0.566	6.61E-04
735	ENSG00000146360	GPR6	0.566	6.61E-04
736	ENSG00000178951	ZBTB7A	0.566	6.61E-04
737	ENSG00000138311	ZNF365	0.566	6.61E-04
738	ENSG00000177570	SAMD12	0.566	6.61E-04
739	ENSG00000149305	HTR3B	0.565	6.76E-04
740	ENSG00000074590	NUAK1	0.565	6.76E-04
741	ENSG00000150175	FRMPD2B	0.565	6.76E-04
742	ENSG00000180777	ANKRD30B	0.565	6.76E-04

743	ENSG00000102981	PARD6A	0.565	6.76E-04
744	ENSG00000198932	GPRASP1	0.565	6.76E-04
745	ENSG00000111110	PPM1H	0.565	6.76E-04
746	ENSG00000175470	PPP2R2D	0.565	6.76E-04
747	ENSG00000154917	RAB6B	0.565	6.76E-04
748	ENSG00000169758	TMEM266	0.564	6.91E-04
749	ENSG00000212864	RNF208	0.564	6.91E-04
750	ENSG00000205037	RP11-863P13.4	0.564	6.91E-04a