

**Table S2** List of NSCs, astrocytes, OLs and neurons specifically expressed genes.

Index	NSC	Astrocyte	OlS	Neurons
1	1700106N22RIK	100041799	1500004A13RIK	1100001E04RIK
2	2610021K21RIK	1700027L20RIK	1700001P01RIK	1110006E14RIK
3	2700049P18RIK	1810010K12RIK	1700010I14RIK	1110059M19RIK
4	2810408I11RIK	2410025L10RIK	1700012A16RIK	1110064A23RIK
5	4632434I11RIK	2900019G14RIK	2010317E24RIK	1500001A10RIK
6	4922501L14RIK	2900052N01RIK	2310006M14RIK	1500035N22RIK
7	4930422N03RIK	328235	2310014L17RIK	1700001L19RIK
8	4930427A07RIK	4833413G10RIK	2310035C23RIK	1700054N08RIK
9	4933411K20RIK	4921517L17RIK	2310079F09RIK	2210008F06RIK
10	4933432K03RIK	4930525F21RIK	2600010E01RIK	2310003H01RIK
11	6230416J20RIK	4930534B04RIK	2610020H08RIK	2610109H07RIK
12	6530418L21RIK	4930578N16RIK	2610034E01RIK	2810032G03RIK
13	6720460F02RIK	4933407E14RIK	2610035D17RIK	2900046L07RIK
14	9330118A15RIK	4933407L21RIK	2610204M08RIK	2900055J20RIK
15	A430071A18RIK	4933416E14RIK	2700045P11RIK	2900079G21RIK
16	A930024E05RIK	4933431E20RIK	2700046A07RIK	3110039M20RIK
17	AA763515	5730471H19RIK	2810011L19RIK	3110047P20RIK
18	AAK1	5930412G12RIK	2900018E21RIK	4930414L22RIK
19	ABCC12	6030446N20RIK	2900083I11RIK	4930429B21RIK
20	ADAM12	9530025L08RIK	3110007F17RIK	4930538K18RIK
21	ADAMTS6	9630001P10RIK	3110043A19RIK	4931428F04RIK
22	ADAMTS7	9630005C17RIK	4921505C17RIK	4933409K07RIK
23	ADCYAP1R1	A330048O09RIK	4930402H24RIK	5033404E19RIK
24	AFFX-DapX-5_at	A530079E22RIK	4930406D14RIK	5033421C21RIK
25	AFFX-LysX-5_at	A730056A06RIK	4930452G13RIK	5033430I15RIK
26	AFFX-PheX-5_at	A930001A20RIK	4930570G19RIK	5430405G05RIK
27	AFFX-r2-Bs-dap-5_at	ACOT11	4932431H17RIK	5730433K22RIK
28	AFFX-r2-Bs-lys-5_at	ADCYAP1R1	4932435O22RIK	6330406O05RIK
29	AFFX-r2-Bs-thr-5_s_at	AGBL3	4933413G19RIK	6330409D20RIK
30	AFFX-ThrX-5_at	AI661167	5033423O07RIK	6430500C12RIK
31	AHI1	AI848258	5430416G10RIK	6430548M08RIK
32	AI506321	AIFM3	5430435G22RIK	6430598A04RIK
33	AI506816	AKT2	5730492I20RIK	9030425E11RIK
34	AI746468	ALDOC	5830490A04RIK	9130024F11RIK
35	ANO3	ARHGAP26	5930403N24RIK	9330121K16RIK
36	APC	ARID5A	6330416G13RIK	9930013L23RIK
37	ARMC9	ATP13A4	6330436F06RIK	A330008L17RIK
38	ASCL1	AV230440	6330512M04RIK	A430108G06RIK
39	ASPM	AV254043	6430514M23RIK	A830006F12RIK
40	ATN1	AV337396	669460	A830010M20RIK
41	ATP5G2	AV339935	6720483E21RIK	A830018L16RIK

42	ATP6V0A1	AV348780	9130404D08RIK	A830021K08RIK
43	AU043080	AW123117	9330154F10RIK	A830029E22RIK
44	AV164956	B230311B06RIK	9430076C15RIK	A930005I04RIK
45	AV228095	BAALC	9530056K15RIK	A930025H08RIK
46	AV254764	BB016042	9530059O14RIK	A930033H14RIK
47	AV323315	BB076411	9530066K23RIK	AAK1
48	AW545941	BB083283	9630013A20RIK	ACTL6B
49	BB053540	BB083829	9630021D06RIK	ADAMTS18
50	BB130444	BB084593	A130022J21RIK	ADCY1
51	BB304331	BB102769	A230001M10RIK	ADCYAP1
52	BB337104	BB175647	A230009B12RIK	ADD2
53	BB340127	BB206733	A230069A22RIK	AF529169
54	BB444561	BB216686	A230106M20RIK	AGAP3
55	BB463474	BB233366	A330068G13RIK	AGBL4
56	BB527979	BB266350	A730017C20RIK	AI452177
57	BB531021	BB269445	A830091E24	AI836003
58	BC023969	BB283577	A930009A15RIK	AI836737
59	BE953578	BB306828	AA177898	AI839625
60	BG070088	BB373481	AA408296	AI847427
61	BM114403	BB431289	AA855988	AI847963
62	BM202761	BB451946	ABCG1	AI852373
63	BM224051	BB522140	ABL1	AJAP1
64	BM235636	BB529013	ACAN	AK014085
65	C530044C16RIK	BB540658	ACCN4	AK020721
66	CALR3	BB544806	ACO1	AK5
67	CAMKK2	BB660139	ADAM1A	AMIGO1
68	CAND1	BC019134	ADAMTS2	ANKRD12
69	CBX5	BC025871	ADAMTS4	ANKRD13D
70	CCDC38	BE456323	ADAMTSL1	ANKRD34A
71	CCDC77	BE864022	ADAMTSL3	ANKRD42
72	CCNB1	BE952586	ADCY5	APCDD1
73	CCT4	BE993099	AGBL5	APOLD1
74	CD109	BF465664	AI120166	ARHGEF4
75	CDC25C	BG063470	AI173473	ASPH
76	CDC7	BG065039	AI429214	ASPHD1
77	CDK5RAP2	BG067912	AI506883	ATG9B
78	CDR2L	BG069486	AI644595	ATP13A5
79	CENPF	BG071205	AI835735	ATP2C1
80	CENPM	BG075346	AI839852	ATXN10
81	CEP55	BM117570	AK012373	AU067700
82	CEP70	BM119078	ALK	AU067739
83	CEP78	BM203324	ANGPT4	AV077281
84	CREB5	BM206839	ANK3	AV221520

85	CRKL	BM220188	ANKRD11	AV224430
86	CSTF1	BM898872	ANKRD39	AV269187
87	D2ERTD750E	BMPR1B	ANKS1B	AV312620
88	DCBLD2	BRAF	ANKS3	AV327590
89	DEP1	C030005G22RIK	ANLN	AW048415
90	DGKK	C230035I16RIK	APOD	AW050081
91	DHX33	C77713	ARHGAP22	AW123022
92	DHX38	CABLES1	ARHGEF10	AW123395
93	DLG5	CAPS2	ARSG	AW125215
94	DTL	CCNB1IP1	ATPGD1	AW488931
95	EIF2S1	CML3	AU021315	AW489900
96	ERCC4	CTSO	AU042873	AW491340
97	ERCC6L	CYBRD1	AU067691	AW492805
98	ETAA1	CYCS	AV074978	AW494399
99	ETV5	D5BUC30E	AV266023	AW551984
100	EXO1	D630033O11RIK	AV293250	B230216G23RIK
101	EXOD1	D6WSU116E	AV317704	B830017H08RIK
102	FAM110A	D8ERTD56E	AV323439	BAIAP2
103	FANCD2	D9WSU90E	AV328597	BAIAP3
104	FANCI	DAAM2	AV330588	BB021606
105	FBN2	DBX2	AV365231	BB026411
106	FOXM1	DIO2	AW048005	BB083574
107	FSCN1	DMP1	AW049021	BB086117
108	FZD3	DNAIC1	AW060425	BB122340
109	GALC	E130014H10RIK	AW120674	BB129490
110	GEMIN5	EG544888	AW123227	BB129764
111	GTSE1	EG625121	AW125035	BB181834
112	HEATR1	ELMO2	AW456291	BB182944
113	HEATR5B	ENSMUSG00000053861	AW489408	BB252309
114	HELLS	FAM107A	AW489857	BB252728
115	HIP1	FAM167A	AW492836	BB267006
116	HMGA2	FAM20A	AW494074	BB268577
117	HOXA1	FGFBP3	AW539049	BB283819
118	HRH1	FGFR1	AW544264	BB303372
119	HUS1	FMN2	AW546318	BB306048
120	IER5L	FREM2	AW548716	BB308046
121	ILF3	FZD2	AW551882	BB312372
122	INCENP	G530011O06RIK	AW556148	BB314321
123	INTS10	GFAP	B230204H03RIK	BB321110
124	INTS5	GJB6	B3GALT5	BB332542
125	ITGB3BP	GLI1	B3GNT9	BB354702
126	JAM2	GLI2	BACE2	BB357628
127	KATNAL2	GLI3	BB024097	BB360008

128	KBTBD8	GLT25D2	BB025668	BB363699
129	KCNC1	GLYCAM1	BB027193	BB369592
130	KCND3	GM266	BB056087	BB381263
131	KIF20B	GNAO1	BB073651	BB389250
132	LFNG	GPR50	BB131938	BB395376
133	LMNB2	GRIN2C	BB175571	BB395749
134	LRP8	GRK4	BB185168	BB417513
135	LRRC4B	H2-EA	BB197117	BB464198
136	MARK1	HAPLN1	BB211758	BB525237
137	MASTL	HHIPL1	BB233495	BB529019
138	MATR3	HIF3A	BB237434	BB729922
139	MCM8	HIVEP3	BB251113	BB751335
140	MED1	HS3ST3A1	BB265030	BC005764
141	MEX3A	ID4	BB267954	BC007180
142	MIPOL1	IGF2BP3	BB283564	BC021394
143	MLF1IP	IGSF1	BB309408	BC037034
144	MPHOSPH9	IL17RD	BB314361	BC059841
145	MTAP2	KCNE1L	BB315012	BE851943
146	MTR	LGI4	BB335821	BE943713
147	MYBL1	LIX1	BB336546	BE944943
148	MYO10	LOC100046982	BB345595	BE948255
149	NASP	LOC627626	BB354954	BE948992
150	NAV2	LPAR4	BB367621	BE955100
151	NCAPD3	LTBP1	BB375376	BE956787
152	NCOR2	LYPD6	BB385094	BE980582
153	NETO2	MIA1	BB389461	BE981420
154	NKRF	MMD2	BB391093	BE989942
155	NOVA1	MSI2	BB392770	BE996371
156	NPAS3	MSX1	BB393194	BF472737
157	NPHP4	MT1	BB404534	BG063310
158	NPTX1	NAT1	BB427399	BG069783
159	NUP188	NCAM1	BB440983	BG070831
160	NUP205	NHSL1	BB453864	BG071987
161	NUSAP1	NOTCH3	BB462555	BICD2
162	OGG1	NR2E1	BB471595	BM218863
163	PA2G4	NRP2	BB481761	BM938299
164	PCDHB11	NTRK2	BB491630	BM938335
165	PEG10	NTSR2	BB520404	BM939341
166	PEG12	NXN	BB522668	BM941510
167	PGAP1	OCIAD1	BB534712	BQ174216
168	PHF6	OTTMUSG00000002879	BB538688	BQ177195
169	PIF1	OTTMUSG00000003311	BB560365	BRUNOL6
170	PIGN	OTTMUSG00000010446	BB667304	BSN

171	PIGT	P4HA3	BB707145	BTRC
172	PLDN	PAG1	BB728649	C030011L09RIK
173	POU3F4	PAQR6	BB735884	C030017B01RIK
174	PPIH	PAX6OS1	BB750203	C030019I05RIK
175	PPP1R14B	PDYN	BB761583	C130081A10RIK
176	PSRC1	PDZD11	BB787201	C130092O11RIK
177	PVT1	PLA2G3	BB800733	C230034O21RIK
178	RAB23	PON2	BB801162	C230057M02RIK
179	RAB31	PPP1R3G	BB802543	C230098O21RIK
180	RAD18	PRDM16	BB805891	C77370
181	RAD51C	PREX2	BC019943	C78859
182	RAD51L1	PRRX2	BC021394	C80120
183	RASL11A	PTAR1	BCAS1	CABP1
184	RCBTB2	PTX3	BE650754	CACNA1B
185	RCOR2	RANBP3L	BE852843	CACNG2
186	RG9MTD2	RASSF10	BE944618	CACNG3
187	RHOBTB3	RMST	BE945018	CALCA
188	RNF219	RNASE10	BE948900	CAMKV
189	RRP1B	ROR2	BE949437	CBLN1
190	RTEL1	RPP14	BE951087	CBLN4
191	SALL1	SBNO2	BE955043	CCDC112
192	SART3	SLC14A2	BE956710	CCDC120
193	SDC3	SLC1A2	BE979116	CCDC65
194	SEMA6D	SLC2A10	BE979956	CCKBR
195	SEPT2	SLC39A12	BE990881	CDADC1
196	SETDB1	SLC7A11	BF018283	CDH7
197	SF1	SNCAIP	BF019847	CDH8
198	SHC3	SPATA3	BF462741	CDH9
199	SKP2	SPIRE1	BF472513	CDK5R1
200	SMARCC1	SYCP2	BG060627	CDK5R2
201	SMC2	TBC1D10A	BG064130	CDKL3
202	SNCAIP	TECTB	BG067253	CDKL4
203	SORCS1	TEKT4	BG067408	CEBPZ
204	SOX11	TLCD1	BG070615	CELSR3
205	SOX3	TNC	BG071771	CHN1
206	SOX4	TNFAIP2	BG072567	CHRM1
207	SPDYA	TOM1L1	BG073826	CHRNA5
208	SPRY4	TPBG	BG076186	CHRN2
209	SRGAP2	TPH2	BG076361	CIAPIN1
210	SUPT16H	TP53 (TRP53, P53)	BG076370	CLSTN2
211	SUV39H2	TTYH1	BI133499	CLSTN3
212	TAF1D	USP53	BI499715	CMPK1
213	TAF2	WRNIP1	BI689456	CNIH3

214	TCERG1	ZBTB37	BI990622	CNKSR2
215	TEAD2	ZFP467	BIN1	CNNM1
216	TGIF2		BM115174	CNTNAP4
217	THG1L		BM117318	COL19A1
218	TLE4		BM120182	COL25A1
219	TMEM138		BM201500	COPG2AS2
220	TMEM48		BM237609	CPA2
221	TROAP		BM238649	CPLX1
222	TSGA14		BM243133	CPNE4
223	TTF2		BM246582	CPNE5
224	TTK		BM934616	CPNE7
225	UTP23		BM941356	CPNE9
226	VAV3		BM942899	CRH
227	WDR35		BQ030936	CRHR1
228	WDR62		BQ175003	CRTC1
229	WNT7B		BQ175871	CSF2RA
230	XKR5		BQ176350	CSRNP3
231	YES1		BRD8	CXCL2
232	ZBED3		BTF3	CYP4X1
233	ZBTB12		C030030A07RIK	D11BWG0517E
234	ZBTB39		C1QL1	DBN1
235	ZBTB7C		C1QL2	DBNDD1
236	ZFP157		C330006K01RIK	DGKG
237	ZFP2		C630004H02RIK	DKKL1
238	ZFP354C		C630043F03RIK	DLGAP2
239	ZFP40		C76273	DLX1
240	ZFP451		C77185	DLX1AS
241	ZFP69		C79242	DLX2
242	ZIK1		C80068	DLX6OS1
243			C86753	DNM1
244			CATSPER2	DOC2A
245			CCDC89	DOK5
246			CCL3	DPYSL5
247			CCL4	E530001K10RIK
248			CDGAP	ECEL1
249			CDH7	EG245440
250			CEP68	EG628779
251			CEP72	EG636791
252			CFL2	EGR4
253			CHST5	ELMO1
254			CLCC1	EMX1
255			CLDN11	ENSMUSG00000058736
256			CLDN14	ENSMUSG00000074461

257			CLGN	EPHA10
258			CNOT3	EPHA3
259			CNTN2	EPHA4
260			CNTN3	EPHA6
261			CNTN4	EPHA7
262			COL20A1	EZH1
263			COL24A1	FAIM2
264			COL9A2	FAM110B
265			CSMD1	FAM116B
266			CSPG4	FAM123B
267			CTTNBP2	FAM123C
268			CYB5D2	FAM148C
269			CYFIP2	FAM163B
270			D18ERTD653E	FAM43B
271			DACH2	FANK1
272			DDX43	FBXL2
273			DIS3L2	FBXO41
274			DLGAP1	FCHO1
275			DLL3	FCHSD1
276			DMRTB1	FIBCD1
277			DMRTC1A	FOXD1
278			DNM2	FOXP2
279			DOCK4	FOXQ1
280			DPP6	FRMPD3
281			DPP7	FXYD7
282			DSCAML1	GABRA5
283			DTX1	GABRD
284			DUSP9	GAD2
285			E130309F12RIK	GALNT9
286			E230016M11RIK	GALNTL6
287			E330034G19RIK	GLRA2
288			E330037M01RIK	GM1060
289			EBF4	GM879
290			ECE2	GNAL
291			EDIL3	GOLGA7B
292			EG232599	GPR101
293			EG331480	GPR12
294			EG574403	GPR123
295			EIF2C3	GPR26
296			ELFN2	GPR4
297			ELOVL1	GPR6
298			EN2	GPR83
299			ENDOD1	GPR88

300			ENPP6	GPRIN1
301			ENSMUSG00000078431	GRIN1
302			ENTPD5	GRIN2B
303			EPB4.1L3	GRM2
304			EPN2	HAS3
305			ERMN	HCN3
306			ERP27	HCRTR1
307			ETV1	HECW1
308			FA2H	HEXIM2
309			FAM115A	HPCA
310			FAM13C	HRH3
311			FAM163A	HRK
312			FAM178B	HS3ST2
313			FAM19A4	HTR1A
314			FAM70A	HTR1D
315			FAM89A	HTR2C
316			FBXO27	HTR3A
317			FUT10	HTR5A
318			GAB3	HTR7
319			GABRB2	ICA1L
320			GALNT10	ICAM5
321			GALNT3	IGHMBP2
322			GFOD1	IKZF4
323			GJC2	IL1RAPL2
324			GJE1	IL34
325			GM22	INPP4B
326			GM410	IQSEC2
327			GNG8	IRS4
328			GPN1	ISLR2
329			GPR45	ITPKA
330			GPR62	JAG2
331			GPR75	JAK3
332			GRIK1	JPH3
333			GRIK2	JPH4
334			GRIK4	KALRN
335			GSTO2	KCNA4
336			GSX1	KCNAB1
337			HABP4	KCNF1
338			HAPLN2	KCNG1
339			HAPLN3	KCNH1
340			HBP1	KCNJ9
341			HEBP2	KCNK12
342			HHIP	KCNMB2



343			HIST1H2BB	KCNN1
344			HIST1H3B	KCNQ3
345			HMBX1	KCNQ5
346			HOXD1	KCNS2
347			HSD17B7	KCNT1
348			HSF2	KCNV1
349			IL12RB1	KIF17
350			IL1A	KLHL1
351			IL23A	KRT73
352			INPP4A	L1CAM
353			INSC	LDOC1
354			IPW	LEFTY2
355			ITGB4	LEMD1
356			ITPR2	LHX6
357			JAM2	LHX8
358			JAM3	LHX9
359			JMJD2D	LIN7B
360			JMY	LOC100036521
361			KCND3	LOR
362			KCNH5	LRFN1
363			KCNH8	LRFN2
364			KCNIP1	LRFN5
365			KCNK13	LSM11
366			KCNQ2	LYSMD4
367			KIF13B	MACROD2
368			KLHL35	MAGEL2
369			KLK6	MAP3K9
370			KRT1	MAPK11
371			KRTAP10-4	MAPT
372			LATS2	MARCH11
373			LDLRAP1	MARCH4
374			LGI2	MAS1
375			LHFPL3	MATK
376			LIMCH1	MCG_21548
377			LITAF	MCHR1
378			LNX1	MED14
379			LOC100047123	MEG3
380			LOC100049166	MFSD4
381			LOC552913	MMP24
382			LOC626082	MPPED1
383			LOC639063	MRAP2
384			LPAR1	MTAP9
385			LPCAT2	MYG1

386			LRP1B	MYLC2B
387			LRRTM3	MYT1L
388			M73818	N28178
389			MAG	NCRNA00086
390			MATN1	NECAB3
391			MATN4	NEDD4L
392			MBP	NELL1
393			MED14	NEUROD2
394			MEGF11	NEUROD6
395			MEIS3	NHEDC2
396			MESDC2	NKD2
397			MOBP	NMBR
398			MOG	NODAL
399			MON2	NOS1AP
400			MTAP1A	NPAS4
401			MX2	NPTXR
402			MYG1	NPY5R
403			MYT1	NRG3
404			NAV3	NRGN
405			NCALD	NRIP3
406			NCAM2	NRSN2
407			NEUROG2	NTF3
408			NFASC	NTS
409			NFATC2	NTSR1
410			NFE2L3	NXPH2
411			NINJ2	NXPH3
412			NKAIN1	ODZ1
413			NKX2-9	ODZ2
414			NKX6-2	OLFM3
415			NMRAL1	OLFR1344
416			NPB	OTTMUSG00000000720
417			NTRK3	OTTMUSG00000006514
418			NUDT17	OTTMUSG00000011355
419			NXPH1	OTTMUSG00000015348
420			OPALIN	OTTMUSG00000015750
421			OPRL1	PAK6
422			OSM	PANX2
423			OSTF1	PAPPA2
424			PACS2	PCDHA10
425			PAK7	PCDHA11
426			PCDH15	PCLO
427			PCDH20	PCNXL2
428			PCDHB10	PCSK2

429			PDE4B	PDE10A
430			PDE7B	PDZD4
431			PDGFRA	PFKP
432			PDXK	PGM2L1
433			PHXR1	PGR
434			PIGT	PHYHIP
435			PIGZ	PIK3R6
436			PKD2L1	PIP5KL1
437			PLD6	PLCXD1
438			PLEKHH1	PLEKHG4
439			PLP1	PLEKHG5
440			PLXNB3	PLXNA4
441			PNLIP	PNMA1
442			POLR3E	PNMA2
443			POLR3F	PNMA3
444			PPAPDC1A	PNOC
445			PPFIBP1	POMC
446			PPNR	PRKCC
447			PRAMEL3	PRKCE
448			PRIMA1	PRND
449			PRKCB	PROKR2
450			PRTG	PRPH
451			PTGER1	PRRT2
452			PTPDC1	PRRT3
453			PTPN20	PRSS12
454			PVRL1	PTCHD1
455			RANBP17	PTH2R
456			RASSF10	PTPN2
457			RASSF8	PTPRD
458			RBPJL	PTPRK
459			RCBTB1	PTPRN2
460			RGNEF	R75193
461			RGS16	RAC3
462			RGS3	RAPGEFL1
463			RHPN1	RASGEF1C
464			RNF165	RASL10A
465			RNF220	RBM9
466			RNPEPL1	REM2
467			RPP30	RHOV
468			RPS6	RIAN
469			S100A3	RIMBP2
470			S1PR2	RIN1
471			S1PR5	RLBP1L1

472			SAAL1	RPH3A
473			SCFD2	RPRML
474			SCYL2	RPS20
475			SEC14L5	RPS6KL1
476			SEMA5A	RSPO2
477			SENP8	RTN4R
478			SEPT7	RTN4RL2
479			SEZ6L	RUNDC3A
480			SFRS14	RUNX1T1
481			SH3RF1	RUSC1
482			SLAIN1	RXFP1
483			SLC16A1	SAMD5
484			SLC1A6	SATB2
485			SLC22A21	SCAND3
486			SLC24A2	SCN8A
487			SLC25A27	SCN9A
488			SLC35F1	SERPINB1B
489			SLC38A9	SH2D5
490			SLITRK3	SH3RF3
491			SNTG1	SHANK2
492			SNX22	SLAIN2
493			SNX30	SLC22A8
494			SORCS3	SLC29A4
495			SOX10	SLC30A3
496			SP7	SLC32A1
497			SPEER4B	SLC35F4
498			SPRED3	SLC5A5
499			SPRY4	SLC6A17
500			SPSB1	SLC6A7
501			SRPK3	SLCO1A4
502			SSTR1	SLIT1
503			SSXB1	SMPD3
504			ST18	SNCB
505			ST6GALNAC3	SNRPN
506			STK32A	SOBP
507			STRN	SOX7
508			SUSD5	SP8
509			SYN2	SPHKAP
510			SYNJ2	SPRN
511			SYS1	SSTR2
512			TDRD7	SSTR3
513			THSD4	SSTR4
514			TMCO3	ST3GAL6

515			TMEM108	ST8SIA2
516			TMEM110	STAM
517			TMEM121	STK32B
518			TMEM125	STK32C
519			TMEM132D	STX1A
520			TMEM141	STXBP5L
521			TMEM63A	SYNE1
522			TMOD2	SYT13
523			TMPRSS5	SYT5
524			TNS3	TAC2
525			TRAF4	TBC1D30
526			TRIM36	TBR1
527			TRPC2	THSD1
528			TSPAN2	TIAM2
529			TTL5	TMEM29
530			TUBA1A	TMEM44
531			TXNDC17	TMEM63C
532			UNC5B	TMEM90A
533			USP16	TRH
534			UST	TRHDE
535			VCAN	TRHR
536			WDR79	TRIM46
537			WNT3	TRIM66
538			XRCC3	TRIM67
539			YPEL2	TRP73
540			ZCCHC11	TRPA1
541			ZDHHC9	TRPC4
542			ZER1	TRPC5
543			ZFHX2AS	TTL
544			ZFP101	TUBG2
545			ZFP14	UNC13A
546			ZFP235	UNC5D
547			ZFP276	USP29
548			ZFP287	VASH2
549			ZFP422-RS1	VGf
550			ZFP462	VIP
551			ZFP617	VSTM2L
552				VWA5B2
553				WSCD2
554				YDJC
555				ZBTB8B
556				ZFP184
557				ZFP341

558				ZFP575
559				ZFP804A
560				ZIC3
561				ZIC4
562				ZMAT4
563				ZMYM3