

Supplementary Table 7: Disease-related genes

Autism

Gene Number	Chromosome	Gene ID	Gene Name
1	16	ENSG00000183044	ABAT
2	9	ENSG00000165029	ABCA1
3	17	ENSG00000154263	ABCA10
4	19	ENSG00000064687	ABCA7
5	17	ENSG00000159640	ACE
6	7	ENSG00000087085	ACHE
7	X	ENSG00000068366	ACSL4
8	3	ENSG00000136518	ACTL6A
9	19	ENSG00000130402	ACTN4
10	3	ENSG00000243989	ACY1
11	20	ENSG00000196839	ADA
12	20	ENSG00000149451	ADAM33
13	16	ENSG00000140873	ADAMTS18
14	21	ENSG00000197381	ADARB1
15	2	ENSG00000138031	ADCY3
16	3	ENSG00000173175	ADCY5
17	10	ENSG00000156110	ADK
18	20	ENSG00000101126	ADNP
19	22	ENSG00000128271	ADORA2A
20	1	ENSG00000121933	ADORA3
21	5	ENSG00000169252	ADRB2
22	22	ENSG00000239900	ADSL
	X	ENSG00000155966	
23	X	ENSG00000281817	AFF2
24	5	ENSG00000072364	AFF4
25	2	ENSG00000157985	AGAP1
26	12	ENSG00000135439	AGAP2
27	1	ENSG00000186094	AGBL4
28	7	ENSG00000006530	AGK
29	7	ENSG00000187546	AGMO
30	X	ENSG00000180772	AGTR2
31	1	ENSG00000126705	AHDC1
32	6	ENSG00000135541	AHI1
33	7	ENSG00000127914	AKAP9
34	15	ENSG00000184254	ALDH1A3
35	6	ENSG00000112294	ALDH5A1
36	5	ENSG00000164904	ALDH7A1
37	1	ENSG00000088035	ALG6
38	13	ENSG00000132965	ALOX5AP
39	1	ENSG00000116748	AMPD1
40	3	ENSG00000145020	AMT
41	4	ENSG00000145362	ANK2
42	10	ENSG00000151150	ANK3

43	16	ENSG00000167522	ANKRD11
44	12	ENSG00000185046	ANKS1B
45	9	ENSG00000135046	ANXA1
46	X	ENSG00000182287	AP1S2
47	15	ENSG00000034053	APBA2
48	5	ENSG00000134982	APC
49	1	ENSG00000117362	APH1A
50	21	ENSG00000142192	APP
51	X	ENSG00000169083	AR
52	15	ENSG00000187951	ARHGAP11B
53	2	ENSG00000075884	ARHGAP15
54	4	ENSG00000138639	ARHGAP24
55	11	ENSG00000134909	ARHGAP32
56	19	ENSG00000004777	ARHGAP33
57	X	ENSG00000129675	ARHGEF6
58	X	ENSG00000131089	ARHGEF9
59	6	ENSG00000049618	ARID1B
60	15	ENSG00000172379	ARNT2
61	5	ENSG00000164291	ARSK
62	X	ENSG00000004848	ARX
63	12	ENSG00000177981	ASB8
64	1	ENSG00000116539	ASH1L
65	X	ENSG00000196433	ASMT
66	9	ENSG00000130707	ASS1
67	9	ENSG00000148219	ASTN2
68	18	ENSG00000141431	ASXL3
69	3	ENSG00000197548	ATG7
70	15	ENSG00000206190	ATP10A
71	3	ENSG00000127249	ATP13A4
72	19	ENSG00000105409	ATP1A3
73	1	ENSG00000143153	ATP1B1
74	3	ENSG00000157087	ATP2B2
75	4	ENSG00000124406	ATP8A1
76	20	ENSG00000088812	ATRNL1
77	10	ENSG00000107518	ATRNL1
78	X	ENSG00000085224	ATRX
79	3	ENSG00000163635	ATXN7
80	7	ENSG00000158321	AUTS2
81	20	ENSG00000101200	AVP
82	12	ENSG00000166148	AVPR1A
83	17	ENSG00000266074	BAHCC1
84	17	ENSG00000175866	BAIAP2
85	4	ENSG00000153064	BANK1
86	12	ENSG00000179941	BBS10
87	15	ENSG00000140463	BBS4
88	20	ENSG00000064787	BCAS1
89	16	ENSG00000103507	BCKDK
90	2	ENSG00000119866	BCL11A

91	18	ENSG00000171791	BCL2
92	1	ENSG00000116128	BCL9
93	11	ENSG00000176697	BDNF
94	10	ENSG00000165626	BEND7
95	10	ENSG00000122870	BICC1
96	2	ENSG00000136717	BIN1
97	2	ENSG00000115760	BIRC6
98	7	ENSG00000157764	BRAF
99	13	ENSG00000139618	BRCA2
100	9	ENSG00000078725	BRINP1
101	10	ENSG00000095564	BTAF1
102	6	ENSG00000124557	BTN1A1
103	17	ENSG00000005379	BZRAP1
104	11	ENSG00000158636	C11orf30
105	12	ENSG00000111678	C12orf57
106	15	ENSG00000167014	C15orf43
107	12	ENSG00000182326	C1S
108	1	ENSG00000143612	C1orf43
109	1	ENSG00000203685	C1orf95
110	11	ENSG00000168014	C2CD3
111	3	ENSG00000181744	C3orf58
112	6	ENSG00000224389	C4B
113	1	ENSG00000131686	CA6
114	19	ENSG00000141837	CACNA1A
115	9	ENSG00000148408	CACNA1B
116	12	ENSG00000151067	CACNA1C
117	3	ENSG00000157388	CACNA1D
118	1	ENSG00000198216	CACNA1E
119	X	ENSG00000102001	CACNA1F
120	17	ENSG00000006283	CACNA1G
121	16	ENSG00000196557	CACNA1H
122	22	ENSG00000100346	CACNA1I
123	3	ENSG00000157445	CACNA2D3
124	10	ENSG00000165995	CACNB2
125	11	ENSG00000182985	CADM1
126	3	ENSG00000175161	CADM2
127	7	ENSG00000081803	CADPS2
128	5	ENSG00000152495	CAMK4
129	1	ENSG00000118200	CAMSAP2
130	1	ENSG00000171735	CAMTA1
131	19	ENSG00000182472	CAPN12
132	11	ENSG00000135387	CAPRIN1
133	15	ENSG00000166734	CASC4
134	7	ENSG00000127995	CASD1
135	X	ENSG00000147044	CASK
	21	ENSG00000160200	
136	21	ENSG00000274276	CBS
137	17	ENSG00000141582	CBX4

138	19	ENSG00000132024	CC2D1A
139	12	ENSG00000135127	CCDC64
140	14	ENSG00000015133	CCDC88C
141	12	ENSG00000123106	CCDC91
142	2	ENSG00000115484	CCT4
143	17	ENSG00000186074	CD300LF
144	1	ENSG00000174059	CD34
145	4	ENSG00000004468	CD38
146	11	ENSG00000026508	CD44
147	X	ENSG00000102181	CD99L2
148	14	ENSG00000198752	CDC42BPB
149	17	ENSG00000179604	CDC42EP4
150	5	ENSG00000040731	CDH10
151	16	ENSG00000140937	CDH11
152	16	ENSG00000140945	CDH13
153	16	ENSG00000129910	CDH15
154	20	ENSG00000149654	CDH22
155	16	ENSG00000150394	CDH8
156	5	ENSG00000113100	CDH9
157	X	ENSG00000008086	CDKL5
158	12	ENSG00000111276	CDKN1B
159	22	ENSG00000099954	CECR2
160	18	ENSG00000101489	CELF4
	15	ENSG00000140488	
161	15	ENSG00000273025	CELF6
162	12	ENSG00000198707	CEP290
163	7	ENSG00000106477	CEP41
164	15	ENSG00000128849	CGNL1
165	15	ENSG00000128965	CHAC1
166	15	ENSG00000173575	CHD2
167	8	ENSG00000171316	CHD7
168	14	ENSG00000100888	CHD8
169	22	ENSG00000100288	CHKB
170	3	ENSG00000083937	CHMP2B
171	1	ENSG00000133019	CHRM3
172	20	ENSG00000101204	CHRNA4
173	15	ENSG00000175344	CHRNA7
174	1	ENSG00000160716	CHRN2
175	8	ENSG00000147432	CHRN3
176	16	ENSG00000135702	CHST5
177	15	ENSG00000136425	CIB2
178	19	ENSG00000079432	CIC
179	2	ENSG00000074054	CLASP1
180	1	ENSG00000011021	CLCN6
181	3	ENSG00000013297	CLDN11
182	8	ENSG00000182372	CLN8
183	12	ENSG00000139182	CLSTN3
184	22	ENSG00000070371	CLTCL1

185	16	ENSG00000153815	CMIP
186	16	ENSG00000125107	CNOT1
187	19	ENSG00000088038	CNOT3
188	6	ENSG00000118432	CNR1
189	1	ENSG00000188822	CNR2
190	3	ENSG00000113805	CNTN3
191	3	ENSG00000144619	CNTN4
192	11	ENSG00000149972	CNTN5
193	3	ENSG00000134115	CNTN6
194	7	ENSG00000174469	CNTNAP2
195	9	ENSG00000106714	CNTNAP3
196	16	ENSG00000152910	CNTNAP4
197	2	ENSG00000155052	CNTNAP5
198	4	ENSG00000188517	COL25A1
199	22	ENSG00000093010	COMT
200	16	ENSG00000005339	CREBBP
201	7	ENSG00000106113	CRHR2
202	12	ENSG00000008405	CRY1
203	1	ENSG00000009307	CSDE1
204	8	ENSG00000183117	CSMD1
205	17	ENSG00000141551	CSNK1D
206	10	ENSG00000177613	CSTF2T
207	16	ENSG00000102974	CTCF
208	10	ENSG00000183230	CTNNA3
209	3	ENSG00000168036	CTNNB1
210	5	ENSG00000169862	CTNND2
211	7	ENSG00000077063	CTTNBP2
212	2	ENSG00000036257	CUL3
213	6	ENSG00000044090	CUL7
214	7	ENSG00000257923	CUX1
215	3	ENSG00000168329	CX3CR1
216	X	ENSG00000186810	CXCR3
217	15	ENSG00000273749	CYFIP1
218	9	ENSG00000155833	CYLC2
219	8	ENSG00000160882	CYP11B1
220	1	ENSG00000173406	DAB1
221	11	ENSG00000134780	DAGLA
222	9	ENSG00000196730	DAPK1
223	4	ENSG00000070190	DAPP1
224	9	ENSG00000123454	DBH
225	14	ENSG00000100897	DCAF11
226	16	ENSG00000166847	DCTN5
227	3	ENSG00000043093	DCUN1D1
228	X	ENSG00000077279	DCX
229	7	ENSG00000132437	DDC
230	12	ENSG00000013573	DDX11
231	X	ENSG00000215301	DDX3X
232	X	ENSG00000184735	DDX53

233	11	ENSG00000177030	DEAF1
234	12	ENSG00000139726	DENR
235	22	ENSG00000100150	DEPDC5
236	X	ENSG00000274588	DGKK
237	11	ENSG00000149091	DGKZ
238	11	ENSG00000172893	DHCR7
239	5	ENSG00000067248	DHX29
240	13	ENSG00000139734	DIAPH3
241	21	ENSG00000160305	DIP2A
242	10	ENSG00000151240	DIP2C
243	1	ENSG00000162946	DISC1
244	11	ENSG00000150764	DIXDC1
245	3	ENSG00000075711	DLG1
246	17	ENSG00000132535	DLG4
247	18	ENSG00000170579	DLGAP1
248	8	ENSG00000198010	DLGAP2
249	1	ENSG00000116544	DLGAP3
250	2	ENSG00000144355	DLX1
251	2	ENSG00000115844	DLX2
252	7	ENSG00000006377	DLX6
253	X	ENSG00000198947	DMD
254	19	ENSG00000104936	DMPK
255	15	ENSG00000104093	DMXL2
256	12	ENSG00000197653	DNAH10
257	5	ENSG00000039139	DNAH5
258	10	ENSG00000136770	DNAJC1
259	3	ENSG00000205981	DNAJC19
260	2	ENSG00000187957	DNER
261	12	ENSG00000087470	DNM1L
262	2	ENSG00000119772	DNMT3A
263	10	ENSG00000150760	DOCK1
264	2	ENSG00000135905	DOCK10
265	7	ENSG00000128512	DOCK4
266	9	ENSG00000107099	DOCK8
267	9	ENSG00000175283	DOLK
268	2	ENSG00000175497	DPP10
269	2	ENSG00000197635	DPP4
270	7	ENSG00000130226	DPP6
271	1	ENSG00000188641	DPYD
272	5	ENSG00000184845	DRD1
273	11	ENSG00000149295	DRD2
274	3	ENSG00000151577	DRD3
275	11	ENSG00000069696	DRD4
276	21	ENSG00000171587	DSCAM
277	6	ENSG00000151914	DST
278	17	ENSG00000276023	DUSP14
279	20	ENSG00000149599	DUSP15
280	6	ENSG00000112679	DUSP22

281	1	ENSG00000107404	DVL1
282	3	ENSG00000161202	DVL3
283	10	ENSG00000170788	DYDC1
284	10	ENSG00000133665	DYDC2
285	14	ENSG00000197102	DYNC1H1
286	2	ENSG00000077380	DYNC1I2
287	21	ENSG00000157540	DYRK1A
288	20	ENSG00000101210	EEF1A2
289	8	ENSG00000132294	EFR3A
290	10	ENSG00000122877	EGR2
291	9	ENSG00000181090	EHMT1
292	19	ENSG00000130811	EIF3G
293	4	ENSG00000151247	EIF4E
294	10	ENSG00000148730	EIF4EBP2
295	9	ENSG00000107105	ELAVL2
296	19	ENSG00000196361	ELAVL3
297	1	ENSG00000066322	ELOVL1
298	11	ENSG00000109911	ELP4
299	14	ENSG00000066629	EML1
300	7	ENSG00000164778	EN2
301	22	ENSG00000100393	EP300
302	12	ENSG00000183495	EP400
303	2	ENSG00000135999	EPC2
304	3	ENSG00000080224	EPHA6
305	1	ENSG00000133216	EPHB2
306	7	ENSG00000106123	EPHB6
307	12	ENSG00000151491	EPS8
308	5	ENSG00000112851	ERBB2IP
309	2	ENSG00000178568	ERBB4
310	21	ENSG00000157554	ERG
311	2	ENSG00000136541	ERMN
312	6	ENSG00000091831	ESR1
313	14	ENSG00000140009	ESR2
314	14	ENSG00000119715	ESRRB
315	19	ENSG00000105379	ETFB
316	5	ENSG00000180104	EXOC3
317	14	ENSG00000070367	EXOC5
318	10	ENSG00000138190	EXOC6
319	2	ENSG00000144036	EXOC6B
320	8	ENSG00000182197	EXT1
321	6	ENSG00000124491	F13A1
322	1	ENSG00000117525	F3
323	1	ENSG00000121769	FABP3
324	8	ENSG00000164687	FABP5
325	6	ENSG00000164434	FABP7
326	8	ENSG00000147724	FAM135B
327	X	ENSG00000185448	FAM47A
328	6	ENSG00000137414	FAM8A1

329	16	ENSG00000153789	FAM92B
330	15	ENSG00000198690	FAN1
331	4	ENSG00000083857	FAT1
332	15	ENSG00000166147	FBN1
333	4	ENSG00000118564	FBXL5
334	18	ENSG00000141665	FBXO15
335	14	ENSG00000165355	FBXO33
336	3	ENSG00000163833	FBXO40
337	19	ENSG00000186431	FCAR
338	1	ENSG00000181036	FCRL6
339	5	ENSG00000151422	FER
340	7	ENSG00000128610	FEZF1
341	3	ENSG00000153266	FEZF2
342	4	ENSG00000171560	FGA
343	X	ENSG00000102302	FGD1
344	10	ENSG00000174721	FGFBP3
345	3	ENSG00000189283	FHIT
346	13	ENSG00000102755	FLT1
347	X	ENSG00000102081	FMR1
348	11	ENSG00000086205	FOLH1
349	14	ENSG00000176165	FOXG1
350	3	ENSG00000114861	FOXP1
351	7	ENSG00000128573	FOXP2
352	4	ENSG00000183090	FREM3
353	6	ENSG00000111816	FRK
354	X	ENSG00000169933	FRMPD4
355	X	ENSG00000068438	FTSJ1
356	7	ENSG00000188763	FZD9
357	5	ENSG00000022355	GABRA1
358	X	ENSG00000011677	GABRA3
359	4	ENSG00000109158	GABRA4
360	15	ENSG00000186297	GABRA5
361	4	ENSG00000163288	GABRB1
362	15	ENSG00000166206	GABRB3
363	15	ENSG00000182256	GABRG3
364	X	ENSG00000268089	GABRQ
365	2	ENSG00000128683	GAD1
366	19	ENSG00000099860	GADD45B
367	2	ENSG00000144278	GALNT13
368	2	ENSG00000158089	GALNT14
369	19	ENSG00000130005	GAMT
370	16	ENSG00000261609	GAN
371	3	ENSG00000172020	GAP43
372	11	ENSG00000148935	GAS2
373	15	ENSG00000171766	GATM
374	9	ENSG00000119125	GDA
375	11	ENSG00000178795	GDPD4
376	7	ENSG00000146830	GIGYF1

377	2	ENSG00000204120	GIGYF2
378	1	ENSG00000174332	GLIS1
379	6	ENSG00000124767	GLO1
380	X	ENSG00000101958	GLRA2
381	X	ENSG00000182890	GLUD2
382	6	ENSG00000112312	GMNN
383	9	ENSG00000156049	GNA14
384	20	ENSG00000087460	GNAS
385	22	ENSG00000185838	GNB1L
386	3	ENSG00000173230	GOLGB1
387	X	ENSG00000076716	GPC4
388	13	ENSG00000183098	GPC6
389	2	ENSG00000115159	GPD2
390	14	ENSG00000171723	GPHN
391	8	ENSG00000020181	GPR124
392	16	ENSG00000180269	GPR139
393	7	ENSG00000170775	GPR37
394	7	ENSG00000164604	GPR85
395	X	ENSG00000158301	GPRASP2
396	3	ENSG00000233276	GPX1
397	X	ENSG00000125675	GRIA3
398	10	ENSG00000182771	GRID1
399	4	ENSG00000152208	GRID2
400	7	ENSG00000215045	GRID2IP
401	6	ENSG00000164418	GRIK2
402	1	ENSG00000163873	GRIK3
403	11	ENSG00000149403	GRIK4
404	19	ENSG00000105737	GRIK5
405	9	ENSG00000176884	GRIN1
406	16	ENSG00000183454	GRIN2A
407	12	ENSG00000273079	GRIN2B
408	19	ENSG00000116032	GRIN3B
409	12	ENSG00000155974	GRIP1
410	6	ENSG00000152822	GRM1
411	6	ENSG00000124493	GRM4
412	11	ENSG00000168959	GRM5
413	3	ENSG00000196277	GRM7
414	7	ENSG00000179603	GRM8
415	X	ENSG00000126010	GRPR
416	3	ENSG00000082701	GSK3B
417	9	ENSG00000148180	GSN
418	1	ENSG00000134184	GSTM1
419	7	ENSG00000263001	GTF2I
420	11	ENSG00000152402	GUCY1A2
421	X	ENSG00000172534	HCFC1
422	12	ENSG00000111727	HCFC2
423	5	ENSG00000164588	HCN1
424	5	ENSG00000171720	HDAC3

425	2	ENSG00000068024	HDAC4
426	X	ENSG00000094631	HDAC6
427	2	ENSG00000138411	HECW2
428	11	ENSG00000165478	HEPACAM
429	15	ENSG00000128731	HERC2
430	6	ENSG00000197409	HIST1H3D
431	6	ENSG00000278705	HIST1H4B
432	6	ENSG00000206503	HLA-A
433	6	ENSG00000234745	HLA-B
434	6	ENSG00000196126	HLA-DRB1
435	21	ENSG00000205581	HMGN1
436	X	ENSG00000126945	HNRNPH2
437	5	ENSG00000152413	HOMER1
438	7	ENSG00000105991	HOXA1
439	17	ENSG00000120094	HOXB1
440	11	ENSG00000174775	HRAS
441	6	ENSG00000249853	HS3ST5
442	1	ENSG00000117594	HSD11B1
443	6	ENSG00000135312	HTR1B
444	13	ENSG00000102468	HTR2A
445	11	ENSG00000166736	HTR3A
446	3	ENSG00000178084	HTR3C
447	10	ENSG00000148680	HTR7
448	X	ENSG00000086758	HUWE1
449	16	ENSG00000157423	HYDIN
450	7	ENSG00000003147	ICA1
451	12	ENSG00000111537	IFNG
452	6	ENSG00000027697	IFNGR1
453	11	ENSG00000167244	IGF2
454	15	ENSG00000172349	IL16
455	6	ENSG00000112115	IL17A
456	2	ENSG00000115590	IL1R2
457	X	ENSG00000169306	IL1RAPL1
458	X	ENSG00000189108	IL1RAPL2
459	7	ENSG00000136244	IL6
460	1	ENSG00000143621	ILF2
461	7	ENSG00000184903	IMMP2L
462	1	ENSG00000132849	INADL
463	2	ENSG00000151689	INPP1
464	13	ENSG00000102786	INTS6
465	X	ENSG00000124313	IQSEC2
466	14	ENSG00000119669	IRF2BPL
467	2	ENSG00000115232	ITGA4
468	12	ENSG00000161638	ITGA5
469	17	ENSG00000259207	ITGB3
470	1	ENSG00000142856	ITGB3BP
471	12	ENSG00000139626	ITGB7
472	4	ENSG00000152969	JAKMIP1

473	6	ENSG00000008083	JARID2
474	10	ENSG00000171988	JMJD1C
475	9	ENSG00000107104	KANK1
476	3	ENSG00000114166	KAT2B
477	8	ENSG00000083168	KAT6A
478	18	ENSG00000167216	KATNAL2
479	7	ENSG00000184408	KCND2
480	1	ENSG00000177807	KCNJ10
481	17	ENSG00000184185	KCNJ12
482	21	ENSG00000157551	KCNJ15
483	17	ENSG00000123700	KCNJ2
484	10	ENSG00000156113	KCNMA1
485	20	ENSG00000075043	KCNQ2
486	8	ENSG00000184156	KCNQ3
487	9	ENSG00000107147	KCNT1
488	8	ENSG00000164794	KCNV1
489	16	ENSG00000174943	KCTD13
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491	1	ENSG00000117139	KDM5B
492	X	ENSG00000126012	KDM5C
493	X	ENSG00000147050	KDM6A
494	17	ENSG00000132510	KDM6B
495	6	ENSG00000112232	KHDRBS2
496	8	ENSG00000131773	KHDRBS3
497	17	ENSG00000007202	KIAA0100
498	18	ENSG00000134444	KIAA1468
499	6	ENSG00000168116	KIAA1586
500	X	ENSG00000050030	KIAA2022
501	8	ENSG00000197892	KIF13B
502	2	ENSG00000168280	KIF5C
503	11	ENSG00000149571	KIRREL3
504	4	ENSG00000157404	KIT
505	11	ENSG00000174996	KLC2
506	1	ENSG00000117009	KMO
507	11	ENSG00000118058	KMT2A
508	7	ENSG00000055609	KMT2C
509	7	ENSG00000005483	KMT2E
510	19	ENSG00000118162	KPTN
511	12	ENSG00000133703	KRAS
512	12	ENSG00000111615	KRR1
513	X	ENSG00000198910	L1CAM
514	18	ENSG00000101680	LAMA1
515	7	ENSG00000091136	LAMB1
516	9	ENSG00000050555	LAMC3
517	7	ENSG00000174697	LEP
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1024	10	ENSG00000189180	ZNF33A
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1026	18	ENSG00000215421	ZNF407
1027	14	ENSG00000119725	ZNF410
1028	9	ENSG00000148143	ZNF462
1029	8	ENSG00000197363	ZNF517
1030	19	ENSG00000188321	ZNF559
1031	7	ENSG00000178665	ZNF713
1032	15	ENSG00000196391	ZNF774
1033	19	ENSG00000278129	ZNF8
1034	2	ENSG00000170396	ZNF804A
1035	4	ENSG00000151612	ZNF827
1036	1	ENSG00000162415	ZSWIM5
1037	15	ENSG00000174442	ZWILCH

Intellectual Disability

Gene Number	Chromosome	Gene ID	Gene Name
1	12	ENSG00000094914	AAAS
2	15	ENSG00000103591	AAGAB
3	6	ENSG00000124608	AARS2
4	7	ENSG00000008311	AASS
5	9	ENSG00000165029	ABCA1

6	7	ENSG00000179869	ABCA13
7	1	ENSG00000198691	ABCA4
8	2	ENSG00000073734	ABCB11
9	7	ENSG00000004846	ABCB5
10	X	ENSG00000131269	ABCB7
11	17	ENSG00000108846	ABCC3
12	16	ENSG00000091262	ABCC6
13	11	ENSG00000006071	ABCC8
14	12	ENSG00000069431	ABCC9
15	X	ENSG00000101986	ABCD1
16	12	ENSG00000173208	ABCD2
17	14	ENSG00000119688	ABCD4
18	4	ENSG00000118777	ABCG2
19	3	ENSG00000011198	ABHD5
20	17	ENSG00000278540	ACACA
21	12	ENSG00000076555	ACACB
22	3	ENSG00000177646	ACAD9
23	1	ENSG00000117054	ACADM
24	12	ENSG00000122971	ACADS
25	10	ENSG00000196177	ACADSB
26	17	ENSG00000072778	ACADVL
27	3	ENSG00000114331	ACAP2
28	11	ENSG00000075239	ACAT1
29	22	ENSG00000100412	ACO2
30	17	ENSG00000161533	ACOX1
31	19	ENSG00000102575	ACP5
32	19	ENSG00000142513	ACPT
33	22	ENSG00000100312	ACR
34	16	ENSG00000176715	ACSF3
35	X	ENSG00000068366	ACSL4
36	7	ENSG00000075624	ACTB
37	15	ENSG00000159251	ACTC1
38	17	ENSG00000184009	ACTG1
39	7	ENSG00000077080	ACTL6B
40	14	ENSG00000072110	ACTN1
41	19	ENSG00000130402	ACTN4
42	1	ENSG00000169717	ACTRT2
43	2	ENSG00000115170	ACVR1
44	3	ENSG00000243989	ACY1
45	20	ENSG00000196839	ADA
46	1	ENSG00000134249	ADAM30
47	19	ENSG00000142303	ADAMTS10
48	3	ENSG00000163638	ADAMTS9
49	9	ENSG00000178031	ADAMTSL1
50	9	ENSG00000197859	ADAMTSL2
51	1	ENSG00000160710	ADAR
52	19	ENSG00000213638	ADAT3
53	1	ENSG00000163050	ADCK3

54	8	ENSG00000173137	ADCK5
55	5	ENSG00000078295	ADCY2
56	2	ENSG00000138031	ADCY3
57	3	ENSG00000173175	ADCY5
58	4	ENSG00000087274	ADD1
59	4	ENSG00000198099	ADH4
60	10	ENSG00000156110	ADK
61	20	ENSG00000101126	ADNP
62	2	ENSG00000274286	ADRA2B
63	22	ENSG00000239900	ADSL
64	4	ENSG00000196526	AFAP1
	X	ENSG00000155966	
65	X	ENSG00000281817	AFF2
66	2	ENSG00000144218	AFF3
67	5	ENSG00000072364	AFF4
68	18	ENSG00000141385	AFG3L2
69	4	ENSG00000038002	AGA
70	2	ENSG00000157985	AGAP1
71	6	ENSG00000204305	AGER
72	7	ENSG00000006530	AGK
73	1	ENSG00000162688	AGL
74	9	ENSG00000169692	AGPAT2
75	2	ENSG00000018510	AGPS
76	X	ENSG00000180772	AGTR2
77	20	ENSG00000101444	AHCY
78	1	ENSG00000126705	AHDC1
79	6	ENSG00000135541	AHI1
80	X	ENSG00000156709	AIFM1
81	22	ENSG00000183773	AIFM3
82	4	ENSG00000164022	AIMP1
83	11	ENSG00000110711	AIP
84	17	ENSG00000129221	AIPL1
85	9	ENSG00000106992	AK1
86	1	ENSG00000004455	AK2
87	9	ENSG00000106948	AKNA
88	1	ENSG00000162482	AKR7A3
89	14	ENSG00000142208	AKT1
90	1	ENSG00000117020	AKT3
91	10	ENSG00000059573	ALDH18A1
92	15	ENSG00000184254	ALDH1A3
93	9	ENSG00000137124	ALDH1B1
94	3	ENSG00000144908	ALDH1L1
95	17	ENSG00000072210	ALDH3A2
96	1	ENSG00000159423	ALDH4A1
97	6	ENSG00000112294	ALDH5A1
98	5	ENSG00000164904	ALDH7A1
99	1	ENSG00000143149	ALDH9A1
100	16	ENSG00000149925	ALDOA

101	9	ENSG00000136872	ALDOB
102	16	ENSG00000033011	ALG1
103	22	ENSG00000182858	ALG12
104	X	ENSG00000101901	ALG13
105	9	ENSG00000119523	ALG2
106	3	ENSG00000214160	ALG3
107	1	ENSG00000088035	ALG6
108	11	ENSG00000159063	ALG8
109	2	ENSG00000116127	ALMS1
110	2	ENSG00000163295	ALPI
111	1	ENSG00000162551	ALPL
112	3	ENSG00000178038	ALS2CL
113	12	ENSG00000180318	ALX1
114	1	ENSG00000156150	ALX3
115	11	ENSG00000052850	ALX4
116	X	ENSG00000184675	AMER1
117	1	ENSG00000116337	AMPD2
118	3	ENSG00000145020	AMT
119	4	ENSG00000145362	ANK2
120	10	ENSG00000151150	ANK3
121	5	ENSG00000154122	ANKH
122	16	ENSG00000167522	ANKRD11
123	4	ENSG00000132466	ANKRD17
124	4	ENSG00000151458	ANKRD50
125	3	ENSG00000160746	ANO10
126	11	ENSG00000171714	ANO5
127	2	ENSG00000169604	ANTXR1
128	17	ENSG00000131480	AOC2
129	7	ENSG00000106367	AP1S1
130	X	ENSG00000182287	AP1S2
131	5	ENSG00000132842	AP3B1
132	1	ENSG00000134262	AP4B1
133	15	ENSG00000081014	AP4E1
134	7	ENSG00000221838	AP4M1
135	14	ENSG00000100478	AP4S1
136	12	ENSG00000120868	APAF1
137	11	ENSG00000166181	API5
138	19	ENSG00000105290	APLP1
139	22	ENSG00000100336	APOL4
140	14	ENSG00000256053	APOPT1
141	9	ENSG00000137074	APTX
142	12	ENSG00000167580	AQP2
143	11	ENSG00000186635	ARAP1
144	8	ENSG00000066777	ARFGEF1
145	20	ENSG00000124198	ARFGEF2
146	6	ENSG00000118520	ARG1
147	2	ENSG00000075884	ARHGAP15
148	10	ENSG00000213390	ARHGAP19

149	11	ENSG00000137727	ARHGAP20
150	2	ENSG00000163219	ARHGAP25
151	5	ENSG00000145819	ARHGAP26
152	3	ENSG00000031081	ARHGAP31
153	19	ENSG00000160007	ARHGAP35
154	20	ENSG00000124143	ARHGAP40
155	17	ENSG00000141522	ARHGDI A
156	3	ENSG00000114790	ARHGEF26
157	X	ENSG00000129675	ARHGEF6
158	X	ENSG00000131089	ARHGEF9
159	1	ENSG00000117713	ARID1A
160	6	ENSG00000049618	ARID1B
161	3	ENSG00000113966	ARL6
162	10	ENSG00000165309	ARMC3
163	10	ENSG00000169126	ARMC4
164	15	ENSG00000172379	ARNT2
165	17	ENSG00000141480	ARRB2
166	15	ENSG00000140450	ARRDC4
167	22	ENSG00000100299	ARSA
168	5	ENSG00000113273	ARSB
169	X	ENSG00000157399	ARSE
170	X	ENSG00000004848	ARX
171	8	ENSG00000104763	ASAH1
172	2	ENSG00000151693	ASAP2
173	17	ENSG00000161664	ASB16
174	7	ENSG00000126522	ASL
175	17	ENSG00000108381	ASPA
176	8	ENSG00000198363	ASPH
177	1	ENSG00000066279	ASPM
178	11	ENSG00000162174	ASRGL1
179	9	ENSG00000130707	ASS1
180	3	ENSG00000034533	ASTE1
181	20	ENSG00000171456	ASXL1
182	2	ENSG00000119778	ATAD2B
183	12	ENSG00000170653	ATF7
184	16	ENSG00000166669	ATF7IP2
185	5	ENSG00000152348	ATG10
186	2	ENSG00000138363	ATIC
187	14	ENSG00000198513	ATL1
188	11	ENSG00000149311	ATM
189	12	ENSG00000111676	ATN1
190	5	ENSG00000118322	ATP10B
191	X	ENSG00000101974	ATP11C
192	1	ENSG00000163399	ATP1A1
193	1	ENSG00000018625	ATP1A2
194	19	ENSG00000105409	ATP1A3
195	12	ENSG00000174437	ATP2A2
196	12	ENSG00000070961	ATP2B1

197	X	ENSG00000182220	ATP6AP2
198	12	ENSG00000185344	ATP6V0A2
199	2	ENSG00000116039	ATP6V1B1
200	8	ENSG00000147416	ATP6V1B2
201	X	ENSG00000165240	ATP7A
202	4	ENSG00000124406	ATP8A1
203	13	ENSG00000132932	ATP8A2
204	18	ENSG00000081923	ATP8B1
205	3	ENSG00000175054	ATR
206	X	ENSG00000085224	ATRX
207	6	ENSG00000124788	ATXN1
208	22	ENSG00000130638	ATXN10
209	16	ENSG00000168488	ATXN2L
210	14	ENSG00000066427	ATXN3
211	9	ENSG00000148090	AUH
212	7	ENSG00000158321	AUTS2
213	X	ENSG00000126895	AVPR2
214	1	ENSG00000162885	B3GALNT2
215	1	ENSG00000176022	B3GALT6
216	13	ENSG00000187676	B3GALTL
217	12	ENSG00000139044	B4GALNT3
218	11	ENSG00000182272	B4GALNT4
219	9	ENSG00000086062	B4GALT1
220	5	ENSG00000027847	B4GALT7
221	11	ENSG00000186318	BACE1
222	1	ENSG00000121753	BAI2
223	2	ENSG00000138376	BARD1
224	14	ENSG00000198604	BAZ1A
225	2	ENSG00000123636	BAZ2B
226	10	ENSG00000214413	BBIP1
227	11	ENSG00000174483	BBS1
228	12	ENSG00000179941	BBS10
229	4	ENSG00000181004	BBS12
230	16	ENSG00000125124	BBS2
231	15	ENSG00000140463	BBS4
232	2	ENSG00000163093	BBS5
233	4	ENSG00000138686	BBS7
234	7	ENSG00000122507	BBS9
235	3	ENSG00000114439	BBX
236	19	ENSG00000187244	BCAM
237	X	ENSG00000185825	BCAP31
238	20	ENSG00000064787	BCAS1
239	12	ENSG00000060982	BCAT1
240	19	ENSG00000248098	BCKDHA
241	6	ENSG00000083123	BCKDHB
242	2	ENSG00000119866	BCL11A
243	11	ENSG00000186174	BCL9L
244	6	ENSG00000029363	BCLAF1

245	X	ENSG00000183337	BCOR
246	X	ENSG00000085185	BCORL1
247	2	ENSG00000074582	BCS1L
248	20	ENSG00000125864	BFSP1
249	3	ENSG00000170819	BFSP2
250	3	ENSG00000134107	BHLHE40
251	9	ENSG00000185963	BICD2
252	2	ENSG00000136717	BIN1
253	2	ENSG00000115760	BIRC6
254	15	ENSG00000197299	BLM
255	14	ENSG00000125378	BMP4
256	7	ENSG00000164619	BMPER
257	4	ENSG00000138696	BMPR1B
258	9	ENSG00000173068	BNC2
259	20	ENSG00000167104	BPIFB6
260	7	ENSG00000157764	BRAF
261	13	ENSG00000139618	BRCA2
262	14	ENSG00000185024	BRF1
263	17	ENSG00000136492	BRIP1
264	21	ENSG00000185658	BRWD1
265	X	ENSG00000165288	BRWD3
266	11	ENSG00000168000	BSCL2
267	1	ENSG00000162399	BSND
268	6	ENSG00000183826	BTBD9
269	3	ENSG00000169814	BTD
270	6	ENSG00000124557	BTN1A1
271	5	ENSG00000113303	BTNL8
272	15	ENSG00000156970	BUB1B
273	10	ENSG00000148655	C10orf11
274	10	ENSG00000107815	C10orf2
275	12	ENSG00000111678	C12orf57
276	12	ENSG00000130921	C12orf65
277	17	ENSG00000181013	C17orf47
278	18	ENSG00000206043	C18orf63
279	19	ENSG00000131944	C19orf40
280	19	ENSG00000132016	C19orf57
281	1	ENSG00000162384	C1orf123
282	1	ENSG00000203963	C1orf141
283	20	ENSG00000125531	C20orf195
284	11	ENSG00000168014	C2CD3
285	2	ENSG00000115998	C2orf42
286	2	ENSG00000179270	C2orf71
287	1	ENSG00000123838	C4BPA
288	4	ENSG00000174792	C4orf26
289	4	ENSG00000181215	C4orf50
290	5	ENSG00000197603	C5orf42
291	6	ENSG00000204296	C6orf10
292	8	ENSG00000156172	C8orf37

293	8	ENSG00000104267	CA2
294	X	ENSG00000169239	CA5B
295	8	ENSG00000178538	CA8
296	19	ENSG00000141837	CACNA1A
297	12	ENSG00000151067	CACNA1C
298	3	ENSG00000157388	CACNA1D
299	1	ENSG00000198216	CACNA1E
300	17	ENSG00000006283	CACNA1G
301	16	ENSG00000196557	CACNA1H
302	16	ENSG00000006116	CACNG3
303	14	ENSG00000198668	CALM1
304	15	ENSG00000129007	CALML4
305	5	ENSG00000070808	CAMK2A
306	7	ENSG00000058404	CAMK2B
307	19	ENSG00000076826	CAMSAP3
308	1	ENSG00000171735	CAMTA1
309	17	ENSG00000171302	CANT1
310	1	ENSG00000203697	CAPN8
311	1	ENSG00000116489	CAPZA1
312	17	ENSG00000141527	CARD14
313	12	ENSG00000118307	CASC1
314	15	ENSG00000137812	CASC5
315	X	ENSG00000147044	CASK
316	17	ENSG00000177303	CASKIN2
317	10	ENSG00000165806	CASP7
318	1	ENSG00000132906	CASP9
319	16	ENSG00000129993	CBFA2T3
320	11	ENSG00000110395	CBL
321	7	ENSG00000105879	CBLL1
	21	ENSG00000160200	
322	21	ENSG00000274276	CBS
323	12	ENSG00000094916	CBX5
324	19	ENSG00000132024	CC2D1A
325	4	ENSG00000048342	CC2D2A
326	18	ENSG00000183287	CCBE1
327	17	ENSG00000167131	CCDC103
328	19	ENSG00000105479	CCDC114
329	7	ENSG00000004766	CCDC132
330	1	ENSG00000122483	CCDC18
331	X	ENSG00000101997	CCDC22
332	1	ENSG00000160050	CCDC28B
333	3	ENSG00000173421	CCDC36
334	3	ENSG00000145075	CCDC39
335	17	ENSG00000141519	CCDC40
336	12	ENSG00000139537	CCDC65
337	16	ENSG00000162004	CCDC78
338	2	ENSG00000115355	CCDC88A
339	14	ENSG00000015133	CCDC88C

340	11	ENSG00000179071	CCDC89
341	6	ENSG00000112576	CCND3
342	1	ENSG00000221978	CCNL2
343	12	ENSG00000166226	CCT2
344	1	ENSG00000134256	CD101
345	1	ENSG00000122223	CD244
346	9	ENSG00000120217	CD274
347	17	ENSG00000186074	CD300LF
348	19	ENSG00000117877	CD3EAP
349	20	ENSG00000101017	CD40
350	1	ENSG00000116815	CD58
351	13	ENSG00000102543	CDADC1
352	15	ENSG00000140326	CDAN1
353	1	ENSG00000143776	CDC42BPA
354	14	ENSG00000198752	CDC42BPB
355	17	ENSG00000094804	CDC6
356	16	ENSG00000129910	CDH15
357	10	ENSG00000107736	CDH23
358	16	ENSG00000062038	CDH3
359	16	ENSG00000185324	CDK10
360	7	ENSG00000065883	CDK13
361	20	ENSG00000101391	CDK5RAP1
362	9	ENSG00000136861	CDK5RAP2
363	7	ENSG00000105810	CDK6
364	6	ENSG00000145996	CDKAL1
365	2	ENSG00000205111	CDKL4
366	X	ENSG00000008086	CDKL5
367	11	ENSG00000129757	CDKN1C
368	11	ENSG00000064309	CDON
369	16	ENSG00000167513	CDT1
370	16	ENSG00000166446	CDYL2
371	19	ENSG00000007129	CEACAM21
372	19	ENSG00000105352	CEACAM4
373	19	ENSG00000086548	CEACAM6
374	22	ENSG00000075275	CELSR1
375	1	ENSG00000117724	CENPF
376	13	ENSG00000151849	CENPJ
377	4	ENSG00000174799	CEP135
378	15	ENSG00000103995	CEP152
379	11	ENSG00000110274	CEP164
380	3	ENSG00000174007	CEP19
381	18	ENSG00000101639	CEP192
382	12	ENSG00000198707	CEP290
383	7	ENSG00000106477	CEP41
384	11	ENSG00000166037	CEP57
385	3	ENSG00000182923	CEP63
386	12	ENSG00000173588	CEP83
387	1	ENSG00000130695	CEP85

388	17	ENSG00000258890	CEP95
389	19	ENSG00000223802	CERS1
390	15	ENSG00000128849	CGNL1
391	19	ENSG00000167670	CHAF1A
392	13	ENSG00000198824	CHAMP1
393	10	ENSG00000070748	CHAT
394	15	ENSG00000173575	CHD2
395	17	ENSG00000170004	CHD3
396	12	ENSG00000111642	CHD4
397	8	ENSG00000171316	CHD7
398	11	ENSG00000149554	CHEK1
399	22	ENSG00000100288	CHKB
400	X	ENSG00000188419	CHM
401	16	ENSG00000131165	CHMP1A
402	X	ENSG00000101938	CHRD1
403	11	ENSG00000180720	CHRM4
404	11	ENSG00000129749	CHRNA10
405	20	ENSG00000101204	CHRNA4
406	2	ENSG00000135902	CHRND
407	15	ENSG00000169105	CHST14
408	10	ENSG00000122863	CHST3
409	15	ENSG00000131873	CHSY1
410	10	ENSG00000213341	CHUK
411	15	ENSG00000136425	CIB2
412	12	ENSG00000122966	CIT
413	2	ENSG00000169607	CKAP2L
414	1	ENSG00000016490	CLCA1
415	X	ENSG00000073464	CLCN4
416	1	ENSG00000011021	CLCN6
417	16	ENSG00000103249	CLCN7
418	1	ENSG00000186510	CLCNKA
419	1	ENSG00000184908	CLCNKB
420	21	ENSG00000159261	CLDN14
421	1	ENSG00000164007	CLDN19
422	X	ENSG00000155962	CLIC2
	16	ENSG00000188603	
423	16	ENSG00000261832	CLN3
424	13	ENSG00000102805	CLN5
425	8	ENSG00000182372	CLN8
426	4	ENSG00000109684	CLNK
427	11	ENSG00000162129	CLPB
428	19	ENSG00000125656	CLPP
429	15	ENSG00000166855	CLPX
430	4	ENSG00000249581	CLRN2
431	12	ENSG00000139182	CLSTN3
432	17	ENSG00000141367	CLTC
433	22	ENSG00000070371	CLTCL1
434	16	ENSG00000153815	CMIP

435	3	ENSG00000169714	CNBP
436	X	ENSG00000149970	CNKS2R2
437	19	ENSG00000064666	CNN2
438	10	ENSG00000148842	CNNM2
439	2	ENSG00000158158	CNNM4
440	16	ENSG00000125107	CNOT1
441	12	ENSG00000111596	CNOT2
442	19	ENSG00000088038	CNOT3
443	5	ENSG00000155508	CNOT8
444	11	ENSG00000149972	CNTN5
445	7	ENSG00000174469	CNTNAP2
446	16	ENSG00000152910	CNTNAP4
447	2	ENSG00000183513	COA5
448	17	ENSG00000166685	COG1
449	16	ENSG00000103051	COG4
450	13	ENSG00000133103	COG6
451	16	ENSG00000168434	COG7
452	16	ENSG00000213380	COG8
453	6	ENSG00000123500	COL10A1
454	1	ENSG00000060718	COL11A1
455	6	ENSG00000204248	COL11A2
456	21	ENSG00000182871	COL18A1
457	17	ENSG00000108821	COL1A1
458	12	ENSG00000139219	COL2A1
459	2	ENSG00000168542	COL3A1
460	13	ENSG00000187498	COL4A1
461	13	ENSG00000134871	COL4A2
462	13	ENSG00000224821	COL4A2-AS2
463	2	ENSG00000169031	COL4A3
464	5	ENSG00000113163	COL4A3BP
465	2	ENSG00000081052	COL4A4
466	9	ENSG00000130635	COL5A1
467	19	ENSG00000080573	COL5A3
468	3	ENSG00000144810	COL8A1
469	6	ENSG00000112280	COL9A1
470	1	ENSG00000049089	COL9A2
471	20	ENSG00000092758	COL9A3
472	2	ENSG00000118004	COLEC11
473	3	ENSG00000206561	COLQ
474	19	ENSG00000105664	COMP
475	4	ENSG00000173085	COQ2
476	16	ENSG00000088682	COQ9
477	17	ENSG00000006695	COX10
478	17	ENSG00000166260	COX11
479	12	ENSG00000178449	COX14
480	10	ENSG00000014919	COX15
481	1	ENSG00000203667	COX20
482	19	ENSG00000126267	COX6B1

483	X	ENSG00000131174	COX7B
484	4	ENSG00000168993	CPLX1
485	3	ENSG00000196353	CPNE4
486	2	ENSG00000021826	CPS1
487	7	ENSG00000160917	CPSF4
488	1	ENSG00000134376	CRB1
489	3	ENSG00000113851	CRBN
490	2	ENSG00000118260	CREB1
491	16	ENSG00000005339	CREBBP
492	19	ENSG00000006016	CRLF1
493	19	ENSG00000105392	CRX
494	11	ENSG00000121671	CRY2
	21	ENSG00000160202	
495	21	ENSG00000276076	CRYAA
496	17	ENSG00000108255	CRYBA1
497	22	ENSG00000196431	CRYBA4
498	22	ENSG00000100122	CRYBB1
499	22	ENSG00000244752	CRYBB2
500	22	ENSG00000100053	CRYBB3
501	2	ENSG00000163254	CRYGC
502	2	ENSG00000118231	CRYGD
503	20	ENSG00000101266	CSNK2A1
504	8	ENSG00000104218	CSPP1
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Schizophrenia

Gene Number	Chromosome	Gene ID	Gene Name
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35	3	ENSG00000031081	ARHGAP31
36	X	ENSG00000089820	ARHGAP4
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39	11	ENSG00000133794	ARNTL
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65	11	ENSG00000185742	C11orf87
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70	16	ENSG00000167194	C16orf92
71	1	ENSG00000203709	C1orf132
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74	2	ENSG00000178074	C2orf69
75	2	ENSG00000182600	C2orf82
76	3	ENSG00000163632	C3orf49
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177	1	ENSG00000235777	DPYD-AS2
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