

Supplementary material for Toma C, Hervás A, Balmaña N, Salgado M, Maristany M, Vilella E, Aguilera F, Orejuela C, Cuscó I, Gallastegui F, Pérez-Jurado A. L, Caballero-Andaluz R, Diego-Otero de Y, Guzmán-Alvarez G, Ramos-Quiroga A. J, Ribasés M, Bayés M, Cormand B. Neurotransmitter systems and neurotrophic factors in autism: association study of 37 genes suggests involvement of *DDC*. The World J Boil Psychiatry 2011, doi: 10.3109/15622975.2011.602719

Table S1. Description of the 400 SNPs initially selected for the SNPlex genotyping assays in all gene systems.

Gene (cov ^a)	TagSNP_ID	SNPs captured	Genotype call rate (%)	MAF	HWE ^b (p val)	Case/Control (p val) ^c
Serotoninergetic System						
5HT1A (1)	rs878567	rs10042486	99	0.48	0.91	0.431
5HT1B (1)	rs130058	—	99.6	0.35	0.81	0.534
	rs6296	rs6298	95.7	0.23	0.07	0.86
5HT1D (1)	rs676643	—	98.1	0.19	0.62	0.189
	rs604030	rs674386	97.9	0.39	0.5	0.525
5HT1E (0.62)	rs828358	—	97.9	0.21	0.4	0.345
	rs10944288* ¹	—				
	rs2325017* ⁵	—				
	rs1581774	—	98.5	0.17	0.55	0.432
	rs1408449	—	97	0.37	0.82	0.411
	rs942472* ⁴	—				
	rs2209639	rs6935195, rs13340450, rs1886333, rs16878041, rs11964445	97.6	0.16	0.83	0.323
	rs9344666	—	97.8	0.33	1	0.988
5HT1F (1)	rs1503433	rs2016224	99	0.39	0.02	0.414
5HT2A (0.75)	rs17289394* ¹	—				
	rs2070040	—	96.7	0.36	0.73	0.892
	rs9534511	—	99.4	0.42	0.32	0.746
	rs2296973	—	99.7	0.27	0.34	0.941
	rs1328684* ²	—				
	rs2770304	—	95.6	0.34	0.56	0.708
	rs9526246* ¹	rs732821, rs731245, rs6311, rs6313, rs4941573, rs6561336, rs1928040 rs985933, rs985934, rs972979	89.5	0.39	0.82	0.847
	rs1410657	rs2770296	99.1	0.3	0.26	0.393
	rs2770296	rs2770298	94.4	0.46	0.67	0.376
	rs4941570	—	95.9	0.37	0.73	0.34
	rs2770293	—	98.2	0.26	0.68	0.112
	rs6561335	—	99.7	0.23	0.28	0.658
	rs2224721	—				
	rs2760351* ⁴	—				
	rs1885884* ⁴	—				
	rs7984966	—	100	0.29	0.6	0.905
	rs9534495	—	99.1	0.43	0.33	0.291
	rs2770300	rs643627, rs2296972, rs655854, rs655888, rs621494, rs622337, rs632903, rs1745837	93	0.29	0.42	0.333
	rs1923887	rs9316232, rs9567739	97.9	0.35	0.63	0.604
	rs6561333	rs1923886, rs9567737	91	0.41	0.22	0.826
	rs6561332	rs7330636, rs7330461, rs1923885	99.7	0.46	0.04	0.484
	rs7997012	—	97.8	0.35	0.06	0.24
	rs7322347	rs977003	95.9	0.48	0.07	0.187
	rs1058576* ³	—				
5HT2B (0.75)	rs6437000* ⁴	rs1549339				
	rs10194776	—	100	0.4	1	0.293

(Continued)

Table S1. (Continued).

Gene (cov ^a)	TagSNP_ID	SNPs captured	Genotype call rate (%)	MAF	HWE ^b (p val)	Case/Control (p val) ^c
5HT2C (0.88)	rs16827801	–	99.4	0.32	0.72	0.246
	rs4973377	–	98.4	0.18	0.7	0.304
	rs475717	rs543229, rs539748, rs556677, rs12558624, rs6579490, rs17326436, rs2041675, rs7881868, rs5987797, rs7890593, rs2069237, rs5987801, rs7877304, rs5987802, rs5988087, rs11167435, rs11167436, rs6643889, rs5987810, rs5988105, rs2497551, rs2248440, rs2497548, rs2497542, rs2497540, rs2497538, rs2497537, rs2428722, rs2497535, rs2428716	98.8	0.15	1	0.835
	rs3813928	rs12688871, rs3795182, rs17260565, rs17326429, rs11798460, rs12846241, rs12837651, rs11797955, rs12860460, rs12690355	98.8	0.15	0.42	0.761
	rs518147	rs478209, rs547536, rs539023, rs498207, rs569959, rs498177, rs12838742, rs9698290, rs7055144, rs7887868, rs2192371, rs5988072, rs11798698, rs12847225, rs7890739, rs12688102	98.8	0.31	0.79	0.576
	rs6579495	rs12855702	97.3	0.31	0.55	0.501
	rs6318 ^{&}	–	98.9	0.14	1	0.957
	rs2428721	rs2428720	97.7	0.19	0.49	0.568
	rs4911871	rs6643897, rs12381959	95.2	0.17	0.85	0.771
	rs2497503	–	99.8	0.13	1	0.511
	rs4537474 ^{*5}	–	–	–	–	–
	rs1150222	rs1176722, rs1176720, rs10891611, rs948983, rs1182457	99.4	0.17	0.69	0.463
	rs1985242	rs2276302	99.9	0.35	0.47	0.256
	rs1176717	rs11214796, rs1176713	99.7	0.22	0.34	0.376
	rs10160548	–	99.6	0.35	0.34	0.31
5HT3B (0.7)	rs11214763	rs7943062, rs7945926	97.9	0.18	0.72	0.546
	rs12270070	rs2276307, rs4938059	86.4	0.25	0.39	0.829
	rs1176746 ^{*5}	–	–	–	–	–
	rs1176744	rs3758987, rs11214769	99.7	0.39	0.82	0.941
	rs1176743 ^{*1}	rs7103572	–	–	–	–
	rs11214775	–	99	0.29	0.38	0.128
	rs3782025 ^{*4}	–	–	–	–	–
	rs1672717	rs1185027	97.8	0.32	0.61	0.301
5HT4 (0.82)	rs7129190	–	97.9	0.46	0.16	0.121
	rs6865654	rs10477387	100	0.36	0.73	0.417
	rs9686886	–	97.8	0.29	0.59	0.331
	rs7721747	rs6580561, rs11956922, rs2068190	99.6	0.44	0.51	0.229
	rs10223307	rs5028114, rs7701432	97.3	0.47	0.33	0.628
	rs7711800	–	92.2	0.44	0.38	0.699
	rs2910098	rs10078551, rs13166230, rs13165109, rs13182913, rs6580558, rs1816067, rs11955434, rs13159629, rs2964276, rs9	87.4	0.32	0.52	0.588
	rs888957 ^{*5}	–	–	–	–	–
	rs1820071 ^{*5}	–	–	–	–	–
	rs6873382	rs4343830, rs1833708, rs1345697, rs7718022, rs1363545	97.5	0.47	0.59	0.822
	rs13166761	rs4336354, rs1777511,	–	–	–	–
	–	–	–	–	–	–

(Continued)

Table S1. (Continued).

Gene (cov ^a)	TagSNP_ID	SNPs captured	Genotype call rate (%)	MAF	HWE ^b (p val)	Case/Control (p val) ^c
5HT5A (0.71)		rs7715569, rs7726693, rs17108421, rs13173317, rs1820075, rs17720660, rs2895768, rs1368391, rs13159589, rs17777298, rs12152801, rs13173328, rs13179862, rs1973878	97.9	0.31	0.9	0.988
	rs10515616 ^{*1}	rs17720691				
	rs1368384	rs1422636	98.7	0.25	0.56	0.913
	rs2005953	rs9325104, rs891962, rs6580555, rs1432913, rs1368388, rs1368386, rs13154725, rs7723153, rs1883074	100	0.41	0.32	0.741
	rs4597955	–	91.4	0.44	0.91	0.56
	rs3995090	rs7733088, rs11168049, rs6887366, rs3995091, rs1985524, rs6889822, rs7735184, rs11168048, rs10463406	97.9	0.38	0.73	0.642
	rs13156542	rs10037493, rs12717975, rs12374521	97.8	0.41	0.44	0.472
	rs4274967	rs2037997, rs7733401, rs7727320, rs7727161, rs1971431, rs1984789, rs9325098, rs6884076, rs4274968, rs4574533	100	0.24	0.12	0.38
	rs1800883 ^{*5}	–				
	rs6320	–	98.2	0.29	0.79	0.44
	rs2241859	–	99.6	0.3	0.2	0.859
	rs2581841	rs1079515, rs2581838, rs731107, rs732050, rs1657269, rs1730208, rs1631327	99.7	0.32	0.39	0.836
	rs6597455	–	97.9	0.34	0.47	0.483
	rs1657268	–	97.3	0.4	0.18	0.443
	rs1440449 ^{*5}	–				
	rs4912138	–	97.8	0.21	0.74	0.616
	rs9659997	–	97.2	0.37	0.24	0.117
	rs1298056	rs11596518, rs11599921, rs11592512, rs3740046	96.4	0.16	0.04	0.726
	rs11817364	rs4933195, rs1935351, rs11594548, rs12766851, rs11186309, rs4272713, rs12412496, rs4933607, rs7091039, rs7086484, rs7072526, rs7912164, rs11812708	97.5	0.2	0.47	0.086
	rs1274446	rs7919103, rs6583736, rs7082558, rs10881832, rs7476323, rs2420367, rs11186300, rs7916848, rs4933194, rs1935347, rs11186297	100	0.47	0.05	0.374
	rs7904560	–	98.1	0.24	0.02	0.277
	rs7916403	rs1573935	97.9	0.45	0.33	0.748
SLC6A4 (0.5)	rs11186320	rs4520504, rs11599902, rs11597471, rs12259401, rs10785972, rs10881838, rs7087400	98.4	0.29	0.41	0.1
	rs12261011	rs11186341, rs11186338, rs12264160, rs12249377, rs12246118	97.9	0.15	0.24	0.144
	rs10785973	–	99.6	0.28	0.6	0.613
	rs2226116	–	99.9	0.14	0.83	0.591
	rs7084468	–	96.4	0.22	0.87	0.861
	rs12259062	rs12254390	98.2	0.37	0.48	0.331
	rs12150214 ^{*5}	rs8071667, rs2020936, rs25528, rs6354				
	rs2020942	rs2066713	97.3	0.35	0.55	0.928
	rs2228673 ^{&*3}	–				
	rs140701	–	96.7	0.47	0.45	0.847

(Continued)

Table S1. (Continued).

Gene (cov ^a)	TagSNP_ID	SNPs captured	Genotype call rate (%)	MAF	HWE ^b (p val)	Case/Control (p val) ^c
TPH1 (1)	rs11080121 ^{*4}	rs2020939, rs4583306, rs2054847, rs3794808, rs1042173, rs3813034, rs7224199				
	rs10488683	–	94.8	0.43	0.32	0.251
	rs172423	rs10488682, rs10832876, rs11024449	96.7	0.3	0.12	0.932
	rs1800532	rs508924, rs685657, rs684302, rs169806, rs2111107, rs2056246, rs1607395, rs10741734	99.4	0.38	0.09	0.509
	rs2111102	rs591556	100	0.13	0.21	0.234
Serotonergic and Dopaminergic Systems						
DDC (0.8)	rs7803788	rs7807335, rs10265930, rs10249420	90.8	0.2	0.52	0.517
	rs2329340	rs1966839, rs921451, rs921450, rs1451374, rs1451373, rs6962356, rs6949897, rs10250513, rs2329341	96.2	0.29	0.29	0.622
	rs10499695	–	96.2	0.48	0.83	0.451
	rs11974297	rs10278338, rs6593010, rs3829897, rs6969081	93.6	0.35	0.23	0.114
	rs10499694 ^{*1}	rs4947644, rs11765748, rs7786398, rs998850, rs11575334				
	rs2044859	–	96	0.37	0.64	0.447
	rs1982406	rs10244632	95.3	0.28	0.21	0.037
	rs7809758 ^{*5}	rs2198144, rs1817074, rs4947584, rs2167364, rs1037351				
	rs6944090	rs3735274, rs12690481, rs11238178, rs2100280	96.6	0.26	0.56	0.085
	rs6592961	–	96.4	0.19	0.14	0.001
	rs3823674	–	95.9	0.44	0.83	0.006
	rs2876827 ^{*5}	rs6592952, rs1451372, rs2122822, rs12718541, rs11980368, rs13311361, rs4947577, rs11575457, rs10899734, rs1349492, rs4579483, rs4579483, rs4433100, rs4329234, rs11238138, rs12718529, rs12718528, rs4992502, rs2329365, rs7803247, rs730092				
	rs732215 ^{*1}	rs1470750, rs12718574, rs12718572, rs1451371, rs10899736				
	rs11761683	rs11238133	91.3	0.29	0.43	0.473
	rs11238131	rs7785224, rs4947535	96.4	0.29	1	0.568
	rs3027400	rs3027401, rs2235186, rs2235185, rs2205718, rs979606, rs979605, rs2239448, rs1801291, rs3027407, rs3027410, rs2064070	89.3	0.27	0.77	0.964
	rs2072743	rs2072744	97.3	0.31	0.91	0.884
	rs5906213	–	97.7	0.45	0.62	0.812
	rs5905512	–	98.3	0.47	0.9	0.987
MAOB (0.8)	rs10521432 ^{*2}	rs6651806, rs2283729, rs3027456				
	rs1799836	–	94.3	0.43	0.3	0.35
	rs3027415	rs5905449, rs3027450	91.4	0.22	0.05	0.228
Dopaminergic System						
DRD1 (0.87)	rs4867798 ^{*4}	–				
	rs251937	rs703748	92.5	0.28	0.21	0.017
	rs11749676	rs686, rs265978	96.9	0.36	1	0.983
	rs835540	–	95.4	0.25	1	0.324
	rs835616	–	91.3	0.29	0.29	0.392
	rs835541	–	95.1	0.46	0.2	0.517

(Continued)

Table S1. (Continued).

Gene (cov ^a)	TagSNP_ID	SNPs captured	Genotype call rate (%)	MAF	HWE ^b (p val)	Case/Control (p val) ^c
DRD2 (1)	rs863126	—	97	0.35	0.25	0.641
	rs265977	—	96.2	0.19	0.74	0.637
	rs4630328	rs17601612	94.7	0.44	0.83	0.013
	rs7131056	—	96.3	0.38	0.64	0.111
	rs4245146	rs4245147, rs4274224	96.2	0.48	0.45	0.028
	rs17529477	—	95.6	0.38	0.91	0.03
	rs2002453	rs1076562, rs2005313, rs2245805, rs4586205, rs4648318	93.9	0.21	0.86	0.17
	rs12363125	rs1076563, rs12364051, rs12800853, rs2587548, rs2734833, rs2734837, rs2734838, rs2734839, rs4587762, rs4938017, rs7122246, rs7131440	97	0.32	0.46	0.365
	rs2283265	—	96.2	0.12	0.45	0.778
	rs2242592	rs2734841, rs2734842, rs6275, rs6279	97.6	0.26	1	0.489
DRD3 (0.63)	rs1554929	rs10891549	95.6	0.4	0.82	0.477
	rs2234689	—	96.2	0.16	0.44	0.886
	rs9825563	—	96.2	0.31	0.54	0.33
	rs1800828	—	95.6	0.26	0.78	0.748
	rs6280	rs324026, rs7638876	96.3	0.33	0.62	0.578
	rs10934256* ⁴	rs7633291				
	rs167770* ¹	rs226082, rs324030, rs7625282, rs324029, rs324022, rs11721264				
	rs167771	—	96.9	0.17	0.39	0.023
	rs324035* ¹	—				
	rs9880168	—	96.6	0.11	0.37	0.105
DRD4 (0)	rs2134655	—	96.9	0.27	0.67	0.098
	rs3732790	rs963468, rs3773679	95.3	0.39	0.04	0.111
	rs2399496* ⁴	rs9817063				
	rs3758653* ⁵	—				
	rs936465* ⁴	rs4331145, rs11246226				
	rs2227850* ³	—				
	rs10033951	rs2867383	95.6	0.35	0.28	0.78
	rs2020917	rs737866	95.9	0.32	0.91	0.039
	rs933271	rs174675	94.7	0.3	0.58	0.011
	rs1544325	rs5993883	97.3	0.38	0.74	0.612
COMT (0.6)	rs740603* ⁴	—				
	rs740601* ⁴	rs2239393				
	rs4680* ⁴	—				
	rs4646316	—	95.7	0.27	0.42	0.584
	rs174696* ⁵	—				
	rs165774	—	94.7	0.31	0.38	0.832
	rs9332377	—	97.5	0.16	0.71	0.478
	rs2007153	—	91.1	0.38	0.91	0.923
	rs2797851	rs2519155, rs279785, rs2797849	96.7	0.34	1	0.336
	rs1548364	rs1611122, rs1611125, rs2873804	95.7	0.47	0.75	0.148
DBH (0.78)	rs2797855	rs1611123	92.8	0.38	0.65	0.805
	rs1541332	—	97	0.48	1	0.326
	rs2519154	—	96.3	0.45	1	0.877
	rs2797853	—	91.6	0.35	0.24	0.701
	rs6479643	—	96	0.41	0.23	0.708
	rs77905	—	96.7	0.5	0.92	0.638
	rs2097628* ⁵	rs2097629				
	rs2073833	—	92.5	0.4	0.27	0.77
	rs1611131* ⁴	—				
	rs129883	—	88.5	0.34	0.19	0.95
SLC6A3(0.55)	rs129915* ⁵	—				
	rs2617605* ⁴	—				

(Continued)

Table S1. (Continued).

Gene (cov ^a)	TagSNP_ID	SNPs captured	Genotype call rate (%)	MAF	HWE ^b (p val)	Case/Control (p val) ^c
TH (0.66)	rs460700	rs464061, rs456082, rs409588, rs458860, rs464528, rs463379, rs456774, rs460000	88.3	0.21	0.5	0.271
	rs37020	rs464049, rs458334	94.7	0.43	0.15	0.639
	rs13161905	—	91.9	0.44	0.07	0.338
	rs27048	—	94.4	0.38	0.11	0.85
	rs6347 ^{*4}	—	—	—	—	—
	rs11133767 ^{*4}	—	—	—	—	—
	rs40184	—	96	0.46	0.45	0.634
	rs2975292 ^{*5}	—	—	—	—	—
	rs10770140 ^{*4}	rs10770141	—	—	—	—
	rs6356	—	95.4	0.37	0.82	0.402
	rs2070762	—	93.3	0.49	0.24	0.798
Neurotrophic Factors and their Receptors						
NGF (0.7)	rs3811014 ^{*5}	—	—	—	—	—
	rs17540656	—	100	0.13	0.67	0.705
	rs6673867	rs10776800, rs4634908	97.6	0.47	1	0.585
	rs17033706 ^{*4}	—	—	—	—	—
	rs10858075 ^{*5}	—	—	—	—	—
	rs11102929	—	98.2	0.21	0.63	0.543
	rs4332358	rs11102925	99.7	0.28	0.43	0.833
	rs4320778	—	99.9	0.18	0.86	0.996
	rs10776799	—	99.6	0.19	0.16	0.817
	rs4839436 ^{*4}	—	—	—	—	—
	rs7530686	rs7523654, rs7535026, rs7516191, rs10442682, rs4565713	99.3	0.27	0.8	0.157
	rs7513144	rs10776798, rs4348722, rs11102924	99.7	0.17	0.07	0.784
	rs6537860	rs7544068	100	0.28	0.42	0.521
	rs11102922	rs4454548, rs4644491, rs12145726	100	0.28	0.27	0.636
	rs4240542 ^{*4}	rs4573519, rs4839434, rs10776797, rs4146585, rs4382725, rs7555016, rs4567277, rs4406631	—	—	—	—
	rs7520839	rs4076018, rs4076194, rs12058927	99.9	0.17	0.27	0.449
	rs6686615 ^{*5}	—	—	—	—	—
	rs11102920	—	99.6	0.15	0.15	0.548
	rs2856811	—	99.9	0.37	0.57	0.627
	rs2856813	—	99.9	0.42	0.16	0.414
	rs719452	rs2254527, rs2747058, rs6678898	99.9	0.24	0.88	0.946
	rs910330	rs6678788	99	0.29	0.51	0.847
	rs2254404	rs1318345, rs2239622	98.7	0.29	1	0.646
	rs6327 ^{*2}	rs6330, rs2747063	—	—	—	—
	rs6328	—	98.7	0.35	0.63	0.649
	rs6329 ^{*4}	rs1555207, rs2179926, rs11466102, rs4623700, rs4626883, rs10858073	—	—	—	—
BDNF (0.75)	rs1491851	—	99.1	0.48	0.2	0.012
	rs1491850	—	98.2	0.43	1	0.272
	rs908867 ^{*3}	—	—	—	—	—
	rs12273363	—	98.8	0.19	0.73	0.859
	rs6265	rs2049045	99.3	0.2	0.88	0.103
	rs10501087 ^{*1}	rs11030104, rs7103411	—	—	—	—
	rs925946	rs1519480, rs7124442, rs1401635, rs7127507, rs11030121	99.3	0.27	0.17	0.975
NTF3 (1)	rs11030096	rs1519479, rs2203877, rs2049046, rs2030324, rs7934165	97.9	0.48	0.83	0.546
	rs7484401	—	99.1	0.41	0.37	0.435
	rs4074967	—	98.7	0.11	0.24	0.208
	rs6332	—	98.2	0.48	0.33	0.226
	rs6489630	—	97.8	0.18	0.62	0.04
	—	—	—	—	—	—

(Continued)

Table S1. (Continued).

Gene (cov ^a)	TagSNP_ID	SNPs captured	Genotype call rate (%)	MAF	HWE ^b (p val)	Case/Control (p val) ^c
NTF4/5 (1)	rs7956189	–	98.2	0.14	0.68	0.031
	rs4073543	–	99	0.42	0.66	0.464
	rs17206784	–	99.7	0.42	0.74	0.022
	rs4802546	–	99.4	0.1	1	0.546
CNTF (1)	rs11669977	–	99.9	0.2	0.14	0.408
	rs17489568	–	99.3	0.14	0.82	0.665
	rs550942	rs663721, rs10896796	99.4	0.17	0.22	0.119
	rs11229549	rs7111377, rs12360860, rs11229550	99.3	0.18	1	0.208
NTRK1 (0.6)	rs926103 ^{*4}	–	–	–	–	–
	rs1800601	rs1800600, rs7517728	100	0.33	0.04	0.325
	rs7522395	rs2768764, rs6427332, rs1888862, rs1888861, rs7516856, rs6689750	99.7	0.23	0.28	0.908
	rs1998977	rs7531222, rs7516736, rs12756019, rs11264570	99.7	0.32	0.23	0.199
	rs6674412	rs4661061, rs6427333, rs725424	99.9	0.26	0.18	0.472
	rs4661229	–	99.6	0.22	0.45	0.604
	rs10908521	–	99.6	0.27	0.28	0.519
	rs11590051	–	99.7	0.18	0.55	0.097
	rs11264578 ^{*5}	–	–	–	–	–
	rs1007211 ^{&*4}	–	–	–	–	–
	rs1800879 ^{*4}	–	–	–	–	–
	rs12132885 ^{*5}	–	–	–	–	–
	rs6334	–	97.5	0.21	1	0.297
	rs2768755 ^{*5}	–	–	–	–	–
	rs2644596	–	99.6	0.22	1	0.553
NTRK2 (0.76)	rs1201364	rs1001904, rs1001905, rs1147195, rs1659412	99.3	0.1	0.24	0.625
	rs1201363	rs1659414, rs1212171, rs993315, rs1187327, rs1187329	98.1	0.47	0.83	0.839
	rs1187332	–	99.3	0.13	0.09	0.915
	rs999244	rs3758317	98.8	0.18	0.47	0.983
	rs1147193	rs1147194, rs1147198, rs1147199, rs1307279, rs1187321, rs1187323, rs1211166, rs1187328,	98.2	0.24	0.08	0.516
	rs1439050	–	98.5	0.36	0.42	0.999
	rs893584 ^{*5}	rs1187353, rs1187349	–	–	–	–
	rs1187352	rs1187343, rs1187336	98.7	0.35	0.29	0.693
	rs1187356	rs1187351, rs1187350, rs1619120	–	–	–	–
	–	rs1778912, rs893582, rs1187341, rs1025743, rs1187337, rs1659409, rs1778929, rs177	98.2	0.44	0.38	0.807
	rs1187362	–	98.2	0.31	0.9	0.935
	rs1209068	–	98.2	0.16	0.83	0.213
	rs3780632	rs10746747, rs7048278, rs4877877, rs7023589, rs2378671, rs10746750, rs1573219, rs7038866, rs1778971, rs1778970	98.5	0.35	0.81	0.741
	rs4877880	rs1662696, rs1443441, rs1443440, rs1899641	99.3	0.25	0.11	0.368
	rs1662695	rs4144550	98.4	0.13	0.26	0.642
	rs716893 ^{*1}	rs720141, rs1627784, rs1036915, rs1036914	–	–	–	–
	rs1187274	–	98.1	0.37	0.05	0.222
	rs7816	rs1662699, rs1187287, rs1187280, rs1047896, rs1624327, rs1662701, rs1778913, rs729705, rs10512154, rs9314735	95.6	0.26	0.57	0.986
	rs2083828 ^{*5}	rs2083827	–	–	–	–
	rs1867283	–	99.1	0.49	0.83	0.655
	rs7855888	–	97.8	0.22	0.52	0.577
	rs11140783 ^{*3}	–	–	–	–	–

(Continued)

Table S1. (Continued).

Gene (cov ^a)	TagSNP_ID	SNPs captured	Genotype call rate (%)	MAF	HWE ^b (p val)	Case/Control (p val) ^c
NTRK3 (0.83)	rs2120266	rs4366158, rs3780634, rs1221	99.1	0.15	0.52	0.92
	rs10735569 ^{*5}	rs1822420				
	rs10868232	rs1838158, rs9314736	91.3	0.17	0.42	0.382
	rs4877289	rs10868229, rs10868235	91.7	0.48	0.34	0.654
	rs1443445	–	98.8	0.23	1	0.186
	rs920776	rs2253891, rs1006446	97.8	0.16	0.84	0.556
	rs995861	rs6559838, rs2586566	95	0.24	0.65	0.289
	rs1545285	rs2808707	99	0.45	0.23	0.705
	rs7045900 ^{*3}	rs1002261, rs3824519				
	rs2289656 ^{*4}	–				
	rs2277192	–	98.8	0.14	0.25	0.315
	rs2277193	–	97.3	0.28	0.51	0.843
	rs4412435	rs4877894, rs4075561, rs4075562, rs4075274	99.1	0.41	0.58	0.686
	rs10868241	–	99.3	0.27	0.33	0.704
	rs4361832	–	99.3	0.16	0.32	0.808
	rs11795386	rs3860945	97.3	0.15	0.69	0.325
	rs12000011	rs4242630, rs4305979, rs4631550, rs1565446, rs4242632, rs1490405, rs1490404, rs4142910, rs7853433, rs729560	99.3	0.26	0.21	0.962
	rs10512159	–	87.3	0.16	0.67	0.603
	rs1948308	s2378676, rs4877900, rs2291506, rrs1387923	98.1	0.42	0.51	0.676
	rs2378672 ^{*3}	–				
	rs1387926	–	99.1	0.14	1	0.635
	rs1387924	–	96.3	0.16	0.23	0.982
	rs3739570 ^{*3}	–				
	rs1490403 ^{*1}	–				
	rs10780695	rs1565448, rs2200968, rs10780697	98.7	0.27	0.79	0.503
	rs1073049	–	99.1	0.15	0.28	0.8
	rs1586681	rs1565451, rs995671	98.7	0.12	0.8	0.341
	rs1187286 ^{*2}	rs1187283				
	rs10116287 ^{*2}	rs10119181, rs7875184, rs12353238				
	rs7164531	–	90.4	0.2	0.12	0.863
	rs998636	rs1365288	98.5	0.25	0.07	0.481
	rs744993	–	99	0.12	0.81	0.78
	rs744994	rs878646	99	0.32	0.9	0.089
	rs4887400 ^{*4}	rs1105693				
	rs7176520	–	97.8	0.42	0.91	0.03
	rs4887210	rs2349054, rs2081556, rs1863482, rs12591252, rs1559824, rs11073768, rs1863484, rs4887391, rs7172664, rs1863487, rs1863488, rs4887394, rs4887395, rs1863489, rs2076864, rs1075891, rs12899792, rs4887399	98.5	0.11	0.39	0.545
	rs1105962 ^{*5}	–				
	rs6496469	–	99.4	0.23	0.15	0.24
	rs1863494	–	99.1	0.19	1	0.497
	rs1346164	rs8042990	99.3	0.3	0.09	0.149
	rs2162266	–	97.9	0.2	0.49	0.558
	rs4887376	–	91.6	0.44	0.15	0.232
	rs8025158	–	89.6	0.23	0.27	0.221
	rs10520676	–	97.9	0.22	0.62	0.116
	rs12594095	–	97.5	0.22	0.62	0.156
	rs12148845 ^{*5}	–				
	rs3784406	rs1991287, rs11073767, rs1529323	99.3	0.43	0.74	0.047
	rs7180942	rs2059588, rs1110306	99.1	0.47	0.45	0.162

(Continued)

Table S1. (Continued).

Gene (cov ^a)	TagSNP_ID	SNPs captured	Genotype call rate (%)	MAF	HWE ^b (p val)	Case/Control (p val) ^c
NGFR (0.66)	rs1834573	—	99.6	0.29	0.28	0.179
	rs991729	—	99.3	0.22	0.45	0.694
	rs4887364* ⁵	rs3784412, rs994068				
	rs3784416	—	97.8	0.44	0.23	0.37
	rs1461210	rs3784429, , rs8036369, rs4887205, rs2279409, rs3784413,	96.6	0.49	0.83	0.581
	rs10520673* ¹	rs1870736				
	rs3825884	—	98.2	0.36	0.55	0.421
	rs3825885	—	99.3	0.29	0.29	0.571
	rs12595249	—	98.2	0.34	0.09	0.906
	rs4887351	—	90.5	0.25	0.19	0.787
	rs1948066	—	99.7	0.28	0.41	0.136
	rs12594283	—	98.7	0.29	0.59	0.509
	rs12440144	rs4887204, rs7167737	97.9	0.24	0.75	0.043
	rs4887348	—	96.6	0.27	0.89	0.761
	rs1381112	—	97.6	0.12	0.63	0.387
	rs999905	rs1841551, rs10520672	98.1	0.32	0.52	0.28
	rs2009966	—	95	0.39	0.82	0.091
	rs4887346* ⁵	rs8030107, rs898707				
	rs2009853	rs4989257	96.6	0.18	0.7	0.227
	rs4887342	—	99.1	0.45	1	0.501
	rs922231	—	98.1	0.36	0.36	0.08
	rs922232	—	99.3	0.38	0.25	0.407
	rs1461214	—	99	0.18	0.55	0.091
	rs4887339* ⁵	—				
	rs8038245* ⁴	—				
	rs7170215	—	99.3	0.45	0.13	0.051
	rs4887337	—	98.5	0.1	0.12	0.866
	rs1369426	—	97.9	0.49	1	0.485
	rs7164421	rs1007533	99.3	0.4	0.82	0.092
	rs1435399	—	97.8	0.18	0.36	0.866
	rs3784434	—	99	0.12	0.8	0.741
	rs1836592	rs879131	98.1	0.19	0.47	0.751
	rs1347424* ²	—				
	rs1369423* ⁴	—				
	rs3903308	—	97.2	0.44	1	0.219
	rs1435402	—	99.3	0.34	0.39	0.215
	rs1435403	rs3784441	99.4	0.23	0.1	0.004
	rs11638486	—	97.8	0.26	0.3	0.059
	rs1369430	—	98.4	0.32	0.45	0.306
	rs2117655	—	99.3	0.35	0.47	0.341
	rs1560975* ⁴	—				
	rs7176429	—	97.8	0.3	0.29	0.191
	rs1017412	rs6496451	91.1	0.27	0.2	0.075
	rs3743165	rs3743164	98.4	0.36	0.18	0.054
	rs2537710* ⁴	—				
	rs603769	rs575791	100	0.47	0.67	0.262
	rs565042* ⁵	—				
	rs3785931	—	99.9	0.3	0.7	0.533
	rs657770	—	99.7	0.38	0.21	0.549
	rs534561	—	99.6	0.35	0.41	0.335
	rs2072445* ³	rs3785930				
	rs741071* ⁵	rs741072				
CNTFR (08)	rs741073	—	100	0.22	0.76	0.833
	rs7036351	—	98.8	0.18	0.61	0.291
	rs3763613	—	98.5	0.23	0.24	0.571
	rs3763614* ³	rs12001648, rs7037232				
	rs3763615	—	89.8	0.24	0.12	0.277

(Continued)

Table S1. (Continued).

Gene (cov ^a)	TagSNP_ID	SNPs captured	Genotype call rate (%)	MAF	HWE ^b (p val)	Case/Control (p val) ^c
	rs1080750	–	99.3	0.34	0.41	0.087
	rs6476454* ⁴	rs3808873, rs3808871				
	rs12551429	–	98.1	0.4	1	0.222
	rs10758268* ¹	–				
	rs10814123	rs4472605	98.1	0.11	0.27	0.84
	rs1124882	rs2070802	98.7	0.11	0.77	0.189
	rs2381164	–	97.9	0.35	0.14	0.033
	rs2381165	rs2183013	97.5	0.15	1	0.009
	rs4363285	–	97.2	0.13	0.8	0.349
	rs2274592	–	99.4	0.25	0.54	0.016
	rs4395980	–	91.3	0.25	0.78	0.944
	rs10972144	–	97.6	0.23	0.22	0.933

SNP*n: Excluded for one of the following reasons: *¹TagSNP in Linkage Disequilibrium with another one across the gene in our sample of 350 controls; *²Not in Hardy-Weinberg equilibrium in the control sample ($p < 0.01$); *³Monomorphic or MAF < 0.10; *⁴Genotyping Failure; *⁵Not passing through the SNPlex design pipeline.

SNP*: Non-synonymous SNPs additionally included in the tagSNPs list.

^aGene Coverage= tag SNPs analyzed/total of tag SNPs per gene.

^bHWE test performed in the control sample.

^cp value calculated using the Cochran-Armitage Trend Test (ATT).

Table S2. Assessment of population stratification using 46 unlinked SNPs in our sample of 326 cases and 350 controls with the STRUCTURE v2.3 software.

Number of subpopulations (K)	LnP(D) ^a	SD [Ln(P)] ^b	Posterior probability of K ^c
1	–39269.7	0.05	1
2	–39328.2	40.9	3.9e-26
3	–39399.9	157.1	2.9e-57
4	–39573.0	256.6	1.9e-132
5	–39455.0	72.9	1.6e-81

^aLn of the probability of the data, calculated as an average of five independent iterations, with burning period and number of MCMC repeats set to 100,000. An admixture ancestry model with correlated allele frequencies ($I=1$) was assumed.

^bStandard Deviation of the five LnP(D) iterations.

^cCalculated using Bayes' rule.