

chr	base position (GRCh37/hg 19)	SNP ID	Locus #	Variant	Opa	Forward Primer Sequence	Reverse Primer Sequence	Extended Primer Sequence	Publication (PMID, unless otherwise stated)	
1	72811654	rs11209948	NEGR1---[]---	-	Intergenic	opa1	ACGTTGGAT GGACTTAATC TCTTGAACCA C	ACGTTGGAT GTGGCACAT TGAATCCCCT TA	cccTTCTGCA ACTAGCCAA	27479909
1	72825394	rs6699744	NEGR1---[]---	-	Intergenic	opa1	ACGTTGGAT GGCATTCAA CATGAGAGT CC	ACGTTGGAT GAGGGGAAT GAAATCTCT AC	ctccTTCAACA TGAGAGTCC TTAAATAT	29662059
2	57987593	rs11682175	---[]---VRK2		intergenic	opa1	ACGTTGGAT GATCTGCTTC TGAAGGCAT GG	ACGTTGGAT GCAAGAAGA AAATAACCT GCCC	ctccAATAACC TGCCCTAAA GTAAAT	29700475
2	167099408	rs6746030	[SCN9A]	W>R (Tgg>Cgg)		opa1	ACGTTGGAT GGGTTTTCT GATGTTCCAC C	ACGTTGGAT GTGCATGTCT TTCTTGTCAG G	TTCTTGTCAG GTTGTGTA	20212137
3	8802478	rs2254298	[OXTR]		intronic	opa1	ACGTTGGAT GATTCAGAG GAAGAAGCC CCG	ACGTTGGAT GGCCTGAAC AGCTGAACA TGG	GAAACCATC CCTGTTTTTC	ISBN: 978-0-12-397267-5 Neural Circuit Development and Function in the Brain; Chapter 34 – Autisms by A.M. Persico; 2013, Pages 651–694
4	69961589	rs7438135	UGT2B10--- []-UGT2B7		intergenic	opa1	ACGTTGGAT GACAGCCAA ATAACTGTG AGG	ACGTTGGAT GCCAAGCTT GTAGTACATT CAG	acTCATTAGG TTAGCTTGTT CTC	29205277

5	10169573	rs13361160	----[ ]--- FAM173B	intergenic	opa1	ACGTTGGAT GTCACAGAC GCTCAGAGC CTT	ACGTTGGAT GAGTGATGG CCCTCTTTAC AG	gggatGCCAG GAGAGGGGC CA	22956598
5	88003153	rs454214	LINC00461-- [ ]-MEF2C	Intergenic	opa1	ACGTTGGAT GGCCTCCTA GTAGATACT ATC	ACGTTGGAT GTGGAATTCT ATTCACAGA GG	CATCAGTGA GCTAGGC	27479909
5	148206723	rs1042714	[ADRB2]	Q>E (Caa>Gaa)	opa1	ACGTTGGAT GCCTTCTTGC TGGCACCCA AT	ACGTTGGAT GAGACATGA CGATGCCCAT GC	ctACACCTCG TCCCTTT	16571957; 21600547
5	166992078	rs4869056	[TENM2]	intronic	opa1	ACGTTGGAT GAAACAATT GAGAGGCGC TAC	ACGTTGGAT GTGTTAGCA CTCTGTTGCA GT	aagcgACAAA ATCCAGAAA AGAAATG	29700475
6	154331055	rs1294094	[ ]-OPRM1	intergenic	opa1	ACGTTGGAT GTTCTCCAC ATGTGAGAG AC	ACGTTGGAT GTCCCATTCC CTCATCTAAG C	agCTAAGCTT ATTTATCTGT CCTTTG	
6	154331434	rs1319339	[ ]-OPRM1	intergenic	opa1	ACGTTGGAT GACATAGGC TAGGAAGCA GAC	ACGTTGGAT GACTTGAC AAGTTTACA GAG	aTAGGAAGC AGACTACGC AA	
6	154348855	rs7776341	[OPRM1]	intronic	opa1	ACGTTGGAT GTGGGTCTT ACTCAAGAC CTG	ACGTTGGAT GTGATTGAA GAGCCCCAA GTC	gatatGCCACA GCCAGGGAA T	
6	154408217	rs563649	[OPRM1]	5' UTR variant and intronic	opa1	ACGTTGGAT GGTCTTTAGA TCATGCAGG TC	ACGTTGGAT GATAAGAAG AAGTTTCTCC CC	ggggaATGCA GGTCTATAAC CAA	19103668, 26902643
7	1983679	rs1554505	[MAD1L1]	intronic	opa1	ACGTTGGAT GTGGATAAC TAGAGGGTT CGG	ACGTTGGAT GAGCGACTT TTATGTCCAC GG	aGGCTAGTG CAACCAC	29662059 and 29700475
7	12268918	rs5011432	[TMEM106B]	intronic	opa1	ACGTTGGAT GGATTATAA	ACGTTGGAT GCAGTCATA	ACAAAATCC ATAGACACT AAA	29662059

						CCGATGCTTA C	CCAAAAGGT AAC		
10	106563924	rs61867293	[SORCS3]	intronic	opa1	ACGTTGGAT GGGGCTTTTC AATTTCCACA G	ACGTTGGAT GGAGATGCT CATCTTCTGG AC	ccctTCATCTT CTGGACACTT GTCA	29700475
11	31850105	rs1806153	PAX6--[RCN1 and DKFZp686K1 684]	intronic	opa1	ACGTTGGAT GGGCATACA AACATTGCTT TC	ACGTTGGAT GGACATTAA CAGGGAGGT ATC	tcccCATTCGT TTCAACTCTG TC	29700475
12	23947737	rs4074723	[SOX5]	intronic	opa1	ACGTTGGAT GACAGCTGA TTACCTTAGG AC	ACGTTGGAT GGATACTATT TTAATGCCAG	gggcATGCCA GTACTATAAA AATGAAAT	29700475
12	84941679	rs2125716	---[]---	intergenic	opa1	ACGTTGGAT GGTGAAATA AACCCAACA CAG	ACGTTGGAT GGCAGCCAC CTGTAAGCTA TC	ggggCACCTG TAAGCTATCA GGGAA	27479909
13	44327799	rs4143229	[ENOX1]--- CCDC122	intronic	opa1	ACGTTGGAT GGAAAGACA CGCTGTGGA AAC	ACGTTGGAT GCAAATATC TAGGCCAAA GG	ggacGGCATA GAAATATAA ATGCTGAG	29700475
13	53626031	rs12552	[OLFM4]	3' UTR variant	opa1	ACGTTGGAT GGGAACTGA TCTAAGATTA G	ACGTTGGAT GGTCACTGC CATCAGATTT TC	AGTCTTAGA GTCATGTAA ATAAAAGT	29700475, 27479909
14	55306207	rs10483639	SAMD4A---[]- GCH1	intergenic	opa1	ACGTTGGAT GAAGGATCC AGGAAAAGG AGG	ACGTTGGAT GAATGCCTG GGTGTGTGT ATG	aTGGGTGTG TGTATGTACA ACTTC	17363416
14	55360389	rs3783641	SAMD4A-- [GCH1]-- WDHD1	intronic	opa1	ACGTTGGAT GACTACTGCA GTCTACTCAA CC	ACGTTGGAT GTTCCATGCC TGGGCATTCC	TTACAGTCCT CATATAGAA ATCAC	17363416
14	55379241	rs8007267	GCH1-[]-- SOCS4	intergenic	opa1	ACGTTGGAT GACAATAGG AGCGTGTGT TTG	ACGTTGGAT GAGGCACAA TCAGAGAAC CAG	GCGTGTGTTT GAACAGTA	17363416

18	53101598	rs12958048	AK093940--- [TCF4]-- MIR4529	intronic	opa1	ACGTTGGAT GGCTGGCTG CATGATAAA ATC	ACGTTGGAT GAAACACAT TACCAGAAC CAG	tggTATTGTG ATATTGTTCA AAACTTCA	29700475
20	43723877	rs734784	STK4-- [KCNS1]- WFDC5	I>V (Att>Gtt)	opa1	ACGTTGGAT GAGAGGTTT CTCGGGATG TCT	ACGTTGGAT GCCAAGAGT TTGAGGACTT GC	CCGACACCCC ATCAA	20724292
22	19950202	rs6269	TXNRD2-- [COMT]- ARVCF	intronic	opa1	ACGTTGGAT GTGACACGT CAGGCAACT GAG	ACGTTGGAT GTTGCTTGG AGTGCCACC ATC	TCGCCCCCTT GTGTT	20570835, 22528689, 16848906, 19094200, 19193196, 20627703, 20842020, 21423693,
22	19950485	rs4633	TXNRD2-- [COMT]- ARVCF	H>H (caC>caT)	opa1	ACGTTGGAT GTCATGGGT GACACCAAG GAG	ACGTTGGAT GAGTAGGTG TCAATGGCCT CC	cccccaAGCGC ATCCTGAACC A	15537663, 20570835, 22528689, 16848906, 19094200, 20627703, 21423693, 22253202], 22612913,
22	19951521	rs4680	TXNRD2-- [COMT]- ARVCF	V>M (Gtg>Atg)	opa1	ACGTTGGAT GCCAGCGGA TGGTGGATTT C	ACGTTGGAT GTTTTCCAGG TCTGACAAC GG	cagGCACACC TTGTCCTCA	16848906, 22612913, 12595695, 20570835, 21120493, 21130573, 22337560, 22528689, 16848906, 19094200, 20627703, 21423693, 22718527, 22722321], 25218601,

									26489634, 23302985
1	8504421	rs159963	SLC45A1- [RERE]	intronic	opa2	ACGTTGGAT GGGGAATGT TTATCCAATG CC	ACGTTGGAT GAAGTCCCTT CCACCTATGA G	TTACTTCCAA GATACAATG C	29700475
1	72813218	rs1432639	NEGR1---[]--- -	intergenic	opa2	ACGTTGGAT GTCACCTAA CTACTTGGTG G	ACGTTGGAT GGGTCTAGA TTACCTCAAG TG	ACTTGGTGG AGAGTAGA	29700475
1	80799329	rs2389016	---[]---	intergenic	opa2	ACGTTGGAT GTCTCTGACC TATGACATCT C	ACGTTGGAT GAATATGAA CATGGCAAG CTG	CCCACAGCTT TCTAGTAA	29700475
1	90796053	rs4261101	---[]---	intergenic	opa2	ACGTTGGAT GGCAAATCA ACTAATGTG ATAC	ACGTTGGAT GATCCAATGT TTTTCAGCGT C	tAAATGATCA TATGGTTTT GTC	29700475
1	177026733	rs7548151	MIR488-- [ASTN1]--- FAM5B	intronic	opa2	ACGTTGGAT GTAAGTGCA TTTCACTTCT C	ACGTTGGAT GGCAGCTAT TTGAGGCAT CTG	ccTGCTATCT TCTGGCTTTT	29662059
2	15398714	rs10929355	[NBAS]	intronic	opa2	ACGTTGGAT GGTTCTCCTT TTTGCCCTTT G	ACGTTGGAT GAAGGACTT CAAAGGGG ACG	gggtGGGAGT AGGTCACAA AGATC	29662059
3	8804621	rs53576	CAV3-- [OXTR]- MIR548	intronic	opa2	ACGTTGGAT GTGGAAAGG AAAGGTGTA CGG	ACGTTGGAT GGTAGAATG AGCTTCCCAG CC	gggttTACGG GACATGCCC GAGG	26178189
3	158107180	rs7430565	[RSRC1]--- MLF1	intronic	opa2	ACGTTGGAT GGCATAGTA TATTCAATTG TGG	ACGTTGGAT GAGTTGACA ATATCTAGCT G	GCTGAATATT TTGAAATTAG GTTTTA	29700475
4	69947648	rs4587017	UGT2B10--- []--UGT2B7	intergenic	opa2	ACGTTGGAT GTGTTTCCTT TAGCCACTCT G	ACGTTGGAT GTCAGAAAA AGCTGGTGT GAC	gctggGAGAT GAAAGCTTT GGTAGA	28256933

4	69964088	rs7439366	UGT2B10--- [UGT2B7]--- UGT2B11	Y>H (Tat>Cat)	opa2	ACGTTGGAT GGCTGACGT ATGGCTTATT CG	ACGTTGGAT GTGGAGTCC TCCAACAAAA TC	ACATTTGGTA AGAGTGGAT	28256933
4	69970937	rs10028494	UGT2B10--- [UGT2B7]--- UGT2B11	intronic	opa2	ACGTTGGAT GACTCCTCCC AATGGAGGA AG	ACGTTGGAT GATCTGAAG TTGTTTCTGT GC	gacGGGAGTC AAACAGAAG G	28256933
5	164523472	rs11135349	----[]----	intergenic	opa2	ACGTTGGAT GGCATTTCAT CTAAGTGTA AGC	ACGTTGGAT GCAACATCTT TTACTTTGC	ATTCCCAATC TGCCCC	29700475
6	154349059	rs1074287	[OPRM1]--- IPCEF1	intronic	opa2	ACGTTGGAT GAAGAGCCA CGTTCTAGA GTC	ACGTTGGAT GGGAAGGAC TGCATTTTGT GG	CTATTGTA GTGGCTGA	28300812
7	12250652	rs3807865	----[]- TMEM106B	intergenic	opa2	ACGTTGGAT GACTAGCAC CAGAGTTAA GGG	ACGTTGGAT GGGCAAGGC CGTAGTTTTT GT	TTGCTCGGTT TCGTTT	29662059
7	109105611	rs12666117	----[]----	intergenic	opa2	ACGTTGGAT GAAATGCTA TGCACATCA GAC	ACGTTGGAT GGGACAGCC AGTGTCTTCT AC	TCAAGTCATG GCTAAATTCA AATA	29700475
9	2983774	rs1354115	MIR548---[]-- --	intergenic	opa2	ACGTTGGAT GACAGCGTC CAGAAAGAA CAG	ACGTTGGAT GACTTTACAA CTCTGGAGG TC	TCTGCAACAT CTTCATTTT	29700475
9	11544964	rs10959913	----[]----	intergenic	opa2	ACGTTGGAT GGCACACGT ATGTTTATTG TGG	ACGTTGGAT GCCAGTCTAT CATTGATGAT GC	gaACATTTGG GTTGGTTCC	29700475
9	126682068	rs7029033	[DENND1A]-- -LHX2	intronic	opa2	ACGTTGGAT GACACCTGT AATCCCAGCT AC	ACGTTGGAT GTGATGCAA TCTCGGCAC GCT	gaCCAGGTT AAGTGATTCT C	29700475
10	106611089	rs1021363	[SORCS3]	intronic	opa2	ACGTTGGAT GATAGGGAG	ACGTTGGAT GGAGGGCCC	AAACTCATTT CTCATTCTAT TTTT	29662059

						CATCATGCAA TC	AATATTTAGA GC		
11	88747912	rs10501696	[GRM5]--- TYR	intronic	opa2	ACGTTGGAT GACTAGGGC TGATTCATAG GG	ACGTTGGAT GATGTAAGC AGCAAGCTA TGG	AGCAGCAAG CTATGGTTCT AAA	29662059
12	118375736	rs7973260	[KSR2]--- RFC5	intronic	opa2	ACGTTGGAT GTGTGGTCT ATCCCTTTGT C	ACGTTGGAT GAAAGTGCT GGGATTACA GGG	GTGAGCCAC TGTGCC	27089181
14	42179732	rs4904738	SNORA31--- [LRFN5]	intronic	opa2	ACGTTGGAT GGAGTAACA GCATAAGAT AC	ACGTTGGAT GCCCTTTTC AATCTAAAGT AG	cTAAGATACT GTTTTATGAA GATAATAG	29700475
14	64686207	rs915057	[SYNE2]--- ESR2	intronic	opa2	ACGTTGGAT GTGAACGCA TTGCTATGCT GG	ACGTTGGAT GGAGTGACC TCTACATACA CC	cctaGCCTATG CCACGAATA CA	29700475
14	104017953	rs10149470	TRMT61A--[]- -BAG5	intergenic	opa2	ACGTTGGAT GTCTCACTCT GATGAAGCT CC	ACGTTGGAT GAGGAGTTC GTCTCTCCCC AG	ctccAGACCG TAGTGGTGA ACACAC	29700475
15	37648402	rs8025231	----[]----	intergenic	opa2	ACGTTGGAT GAGGGCATC TGAAAGAAG CAC	ACGTTGGAT GCACTCCTGT AGTGTTTCCT C	AGCACATAA ATAACTATAG TACAATATA	29700475
15	88945628	rs28541419	NTRK3---[]--- MRPL46	intergenic	opa2	ACGTTGGAT GAAGTGACA GTTGACAGC CCG	ACGTTGGAT GGATGGCTT CAGACTGCTT TG	gacaGAGAGC ACAGAAAGA GA	29662059
18	36883737	rs62099069	[LINC00669]	intronic	opa2	ACGTTGGAT GCCTTGAGC CAACTTCTTT TC	ACGTTGGAT GAGTCTCCTT TGCAAGTTG GG	ccccGTTTTAT TTCATTTTCT GTTGCTA	29700475
18	50754883	rs62100776	[DCC]	intronic	opa2	ACGTTGGAT GGGCATTTA AAGAAAACG TTG	ACGTTGGAT GACCTTCCAA ATTAAGAGA GC	cGCATCTGGA TTTTTTATTTT TTATTT	27089181

20	43727405	rs13043825	STK4-- [KCNS1]- WFDC5	E>E (gaG>gaA)	opa2	ACGTTGGAT GTCGTCGTA GTCGTCGCA CAG	ACGTTGGAT GTGGCGCGC TTCCCGGGC AC	CGCGGCGTC GGAGGA	20724292
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