Add'l file 4_Differentially expressed genes within or across twin sets mapped within or close to autism candidate genes or quantitative trait loci

GenBank #	Gene	Physical map	Band	Reported QTL or ACG*	Map Location[Δ]	Refs.
H99699	ACO2	chr22:40,249,136-40,249,479	22q13.2			
AA779727	**ADAM19**[¶]	chr5:156,836,890-156,839,743	5q33.3	Language QTL	chr5: 125 (98-152)[¥]	59
T49652	**ALOX5AP**	chr13:30,207,643-30,236,962	13q12.3	AUTS3, HTR2A-2	13q14-q22. 13q14-q21	64, 65
AA147170	**ALS4**	chr9:132,168,835-132,169,190	9q34.13	dopamine beta-hydroxylase	chr9:135,574,213-135,774,497; 9q34	60
R01732	AMPD3	chr11:10,433,286-10,485,260	11p15.4			
AA991590	APOC1	chr19:50,110,006-50,114,439	19q13.31	APOE	19q13.2	66
AA478589	**APOE**	chr19:50,103,783-50,104,362	19q13.31	APOE	19q13.2	
AA676466	**ASS**	chr9:130,384,688-130,405,958	9q34.11	dopamine beta-hydroxylase	chr9:135,574,213-135,774,497; 9q34	60
H21041	**ATF3**	chr1:209,181,152-209,181,560	1q32.3			
AI017382	ATXN7L1	chr7:105,109,492-105,111,716	7q22.3	AUTS 1 on chromosome 7q; RELN	chr7:100,270,094-100,470,368; 7q22	61, 62
AA702350	**AUTS2**	chr7:69,701,671-69,702,124	7q11.22	AUTS2	chr7:69,701,671-69,702,124	68
AI341427	BCAT1	chr12:24,880,649-24,894,152	12p12.1			
AA984646	C7orf2	chr7:156,090,884-156,091,208	7q36.3	EN2	7q36	71
AA430367	CBS	chr21:43,346,369-43,369,493	21q22.3			
R47893	CCL3L1	chr17:31,647,966-31,648,404	17q12	Language QTL	chr17: 45 (13-96)	59
R00276	CD38	chr4:15,456,170-15,527,338	4p15.32	HLN2	4p15.3	73
AA111969	CD83	chr6:14,244,635-14,244,846	6p23			
AA283949	CDC14A	chr1:100,697,433-100,697,853	1p21.2			
N67039	CDK6	chr7:91,879,642-91,880,092	7q21.2	CMT2F	7q11-21	74
H15267	**CHL1**	chr3:274,882-275,218	3p26.3	KIAA0121	3p25.2	61
AA682637	CHST2	chr3:144,324,253-144,324,489	3q23	Language QTL	chr3: 147 (126-170)	59
R78530	COTL1	chr16:83,156,719-83,157,052	16q24.1	Language QTL	chr16: 134 (127) (78)	59
AA521362	CR2	chr1:204,051,081-204,051,632	1q32.2			
AA884403	**CTF1**	chr16:30,822,197-30,822,382	16p11.2	Nonverbal communication QTL	16p12-13	63
AI400399	CYP7B1	chr8:65,671,716-65,679,901	8q12.3			
AI371096	**DAPK1**	chr9:87,552,642-87,553,099	9q21.33			
W00789	**DST**	chr6:56,636,931-56,637,351	6p12.1			
AA933744	ECAT11	chr1:62,388,845-62,389,499	1p31.3			
AA446027	**EGR2**	chr10:64,241,762-64,242,293	10q21.3	Language QTL	chr10: 107 (72-126)	59
AA450353	ELMOD1	chr11:107,042,443-107,042,715	11q22.3			
AA448599	**F13A1**	chr6:6,089,901-6,090,339	6p25.1			
AA149640	**FLT1**	chr13:27,859,860-27,860,230	13q12.3	AUTS3, HTR2A-2	13q14-q22. 13q14-q21	64, 65
AA070902	GGA2	chr16:23,386,296-23,388,914	16p12.1	RP22	16p12.3-p12.1	73
N58443	GPR55	chr2:231,599,868-231,600,296	2q37.1			
AA149096	HCK	chr20:30,145,453-30,153,082	20q11.21			
AI375302	**HMGB1**	chr13:29,930,931-29,931,301	13q12.3	AUTS3, HTR2A-2	13q14-q22. 13q14-q21	64, 65
AA620511	HSPA8	chr11:122,433,412-122,433,823	11q24.1			
W73790	IGLL1	chr22:22,239,869-22,241,827	22q11.23			
AA458965	IL32, NK4	chr16:3,055,381-3,059,572	16p13.3	Language QTL	chr16: 8 (0-20)	59
AA406546	**IL6ST**	chr5:55,271,809-55,272,305	5q11.2	Language QTL	chr5: 40 (0-67)	59
AI539460	IL7	chr8:79,808,141-79,814,872	8q21.12			
AI380522	**ITGB7**	chr12:51,871,374-51,872,549	12q13.13	arginine vasopressin receptor, 1A	12q14-q15	67
AA679503	**KIF1B**	chr1:10,301,980-10,302,404	1p36.22	Language QTL	chr1: 30 (9-41)	59

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AA029283	LARGE	chr22:31,993,629-31,994,110	22q12.3			
T83159	LSP1	chr11:1,865,114-1,869,808	11p15.5			
AI351740	**LTB**	chr6:31,656,328-31,656,552	6p21.33			
H09062	MLSTD1	chr12:29,375,639-29,375,879	12p11.22			
W07099	**NAGLU**	chr17:37,948,670-37,949,193	17q21.2	Language QTL; 17q21 fine map	chr17: 45 (13-96)	59, 67
AA917693	NR3C1	chr5:142,768,749-142,794,477	5q31.3	Language QTL	chr5: 125 (98-152)	59
AA598611	**NR4A2**	chr2:157,007,118-157,007,513	2q24.1	cAMP-GEFII, DLX1, DLX2, HOXD1, NE	2q21-q33	70
AA707195	**NTRK2**	chr9:84,655,356-84,655,789	9q21.33			
AA044267	P2RX5	chr17:3,523,268-3,546,395	17p13.2	FIMG1	17p13	73
N50114	**PAG**	chr8:82,048,965-82,049,320	8q21.13			
AA972337	PAWR	chr12:78,488,215-78,488,615	12q21.2			
AA489629	PBEF1	chr7:105,482,685-105,483,083	7q22.3	AUTS 1 on chromosome 7q; RELN	chr7:100,270,094-100,470,368; 7q22	61,62
AA022886	PITPNC1	chr17:63,119,259-63,119,494	17q24.2			
H95977	**PLA1A, Nmd**	chr3:120,819,670-120,830,364	3q13.33	Language QTL	chr3: 147 (126-170)	59
AI016039	PLXNB2	chr22:49,015,865-49,016,311	22q13.33			
R80217	**PTGS2**	chr1:183,372,637-183,372,865	1q31.1	Reanalysis of whole genome scan	chr1:183,000,000	76
AI126054	PTK2	chr8:141,958,441-141,958,919	8q24.3	Nonverbal communication QTL	8q23-24	63
R79082	PTPRK	chr6:128,332,083-128,332,365	6q22.33			
AA173755	**ROBO1**	chr3:78,729,082-78,729,496	3p12.3			
AA495950	RRM2B	chr8:103,285,907-103,286,293	8q22.3	Nonverbal communication QTL	8q23-24	63
AA630734	SARS	chr1:109,491,951-109,492,822	1p13.3	Nonverbal communication QTL	1p13-q12	63
AA457700	**SCD**	chr10:102,112,573-102,112,966	10q24.31	Language QTL	chr10: 107 (72-126)	59
AA708955	SCHIP1	chr3:161,097,412-161,097,852	3q25.33	Language QTL	chr3: 147 (126-170)	59
R27457	SLC38A2	chr12:45,040,635-45,040,927	12q13.11	arginine vasopressin receptor, 1A	12q14-q15	67
AI091460	SOS1	chr7:127,471,196-127,495,720	7q32.1	GMR8	7q31-33	72
AI091671	Spidroin 1	chr15:72,454,484-72,454,905	15q24.1	SLP-1, hUNC-24	15q24-25	77
N63153	SPRED1	chr15:36,433,411-36,433,545	15q14			
AI040821	TERE1	chr1:11,281,557-11,281,945	1p36.22	Language QTL	chr1: 30 (9-41)	59
AA504211	TNFSF11	chr13:42,079,796-42,080,148	13q14.11	AUTS3, HTR2A-2	13q14-q22. 13q14-q21	64, 65
AA970358	TSLP	chr5:110,440,005-110,440,383	5q22.1	Language QTL	chr5: 125 (98-152)¨	59
N68465	UAP1	chr1:159,290,229-159,300,829	1q23.3			
H24011	Unknown	chr7:140,628,082-140,628,452	7q34	OTSC2, Language QTL	7q34-36; chr7:139465749 - 154005714	74, 78
AI275120	Unknown	chr2:149,896,904-149,897,281	2q23.2	cAMP-GEFII, DLX1, DLX2, HOXD1, NE	2q21-q33	70
AA040389	Unknown	chr4:100,348,265-100,348,631	4q23			
AA682565	Unknown	chr4:185,630,597-185,630,964	4q35.1			
H17800	Unknown	chr9:3,208,297-3,208,697	9p24.2			
		¶Genes in **bold** are involved in		*ACG = autism candidate gene	ΔIdentified by genetic analysis	
		nervous system development				
		and function			¥Peak and (region)	