

Supplemental Table 2. Autism with Early Onset vs GP

Gene Number	Probeset ID	P-value	Fold Change	Genbank ID	Gene Symbol	Description
Up-regulated						
1	220646_s_at	0.0379	2.465	NM_016523	KLRF1	killer cell lectin-like receptor subfamily F, member 1
2	1553177_at	0.0222	2.381	BC022407	SH2D1B	SH2 domain containing 1B
3	233713_at	0.0182	2.353	AK022181	SMYD2	SET and MYND domain containing 2
4	235919_at	0.0375	2.283	AA227879		Transcribed locus
5	223836_at	0.0375	2.234	AB021123	KSP37	Ksp37 protein
6	219529_at	0.0375	2.176	NM_004669	CLIC3	chloride intracellular channel 3
7	210164_at	0.0375	2.173	J03189	GZMB	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1) ; granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)
8	207840_at	0.0375	2.119	NM_007053	CD160	CD160 antigen
9	1553681_a_at	0.0265	2.096	NM_005041	PRF1	perforin 1 (pore forming protein)
10	228854_at	0.0182	2.094	AI492388		Transcribed locus
11	218638_s_at	0.0319	2.064	NM_012445	SPON2	spondin 2, extracellular matrix protein
12	236988_x_at	0.0375	1.997	W68403	ITGB2	integrin, beta 2 (antigen CD18 (p95), lymphocyte function-associated antigen 1 ; macrophage antigen 1 (mac-1) beta subunit)
13	230464_at	0.0375	1.975	AI814092	EDG8	endothelial differentiation, sphingolipid G-protein-coupled receptor, 8
14	214617_at	0.0341	1.952	AI445650	PRF1	perforin 1 (pore forming protein) ; perforin 1 (pore forming protein)
15	207351_s_at	0.0375	1.933	NM_003975	SH2D2A	SH2 domain protein 2A
16	215894_at	0.0399	1.932	AI460323	PTGDR	prostaglandin D2 receptor (DP)
17	240413_at	0.0182	1.924	AI827431	PYHIN1	pyrin and HIN domain family, member 1
18	213906_at	0.049	1.901	AW592266	MYBL1	v-myb myeloblastosis viral oncogene homolog (avian)-like 1
19	213915_at	0.0408	1.893	NM_005601	NKG7	natural killer cell group 7 sequence
20	214741_at	0.0475	1.889	AW968301	ZNF131	zinc finger protein 131 (clone pHZ-10)
21	211597_s_at	0.0375	1.869	AB059408	HOP	homeodomain-only protein ; homeodomain-only protein
22	1555691_a_at	0.0379	1.859	AF439512	KLRC4 ; KLRK1	killer cell lectin-like receptor subfamily C, member 4 ; killer cell lectin-like receptor subfamily K, member 1
23	202336_s_at	0.0279	1.844	NM_000919	PAM	peptidylglycine alpha-amidating monooxygenase
24	217234_s_at	0.0293	1.839	AF199015	VIL2	villin 2 (ezrin)
25	219304_s_at	0.0458	1.835	NM_025208	PDGFD	platelet derived growth factor D
26	217761_at	0.0319	1.828	NM_018269	MTCBP-1	membrane-type 1 matrix metalloproteinase cytoplasmic tail binding protein-1
27	202786_at	0.0319	1.824	NM_013233	STK39	serine threonine kinase 39 (STE20/SPS1 homolog, yeast)
28	232914_s_at	0.0375	1.813	AB046817	SYTL2	synaptotagmin-like 2
29	202393_s_at	0.0375	1.785	NM_005655	KLF10	Kruppel-like factor 10
30	205898_at	0.0319	1.782	U20350	CX3CR1	chemokine (C-X3-C motif) receptor 1
31	209123_at	0.0375	1.773	BC000576	QDPR	quinoid dihydropteridine reductase
32	206828_at	0.0375	1.765	NM_003328	TXK	TXK tyrosine kinase
33	227361_at	0.0375	1.762	AA780067	HS3ST3B1	heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1
34	205758_at	0.0403	1.742	AW006735	CD8A	CD8 antigen, alpha polypeptide (p32) ; CD8 antigen, alpha polypeptide (p32)
35	243602_at	0.0475	1.727	AI684979	MGC40069	Hypothetical protein MGC40069
36	201163_s_at	0.0265	1.723	NM_001553	IGFBP7	insulin-like growth factor binding protein 7
37	215743_at	0.0319	1.723	AL134489	NMT2	N-myristoyltransferase 2
38	205006_s_at	0.0205	1.722	NM_004808	NMT2	N-myristoyltransferase 2
39	218538_s_at	0.0182	1.717	NM_020662	MRS2L	MRS2-like, magnesium homeostasis factor (S. cerevisiae)
40	211685_s_at	0.0182	1.715	AF251061	NCALD	neurocalcin delta ; neurocalcin delta
41	205291_at	0.0182	1.704	NM_000878	IL2RB	interleukin 2 receptor, beta ; interleukin 2 receptor, beta
42	223125_s_at	0.0475	1.695	AL563236	C1orf21	chromosome 1 open reading frame 21
43	207313_x_at	0.0321	1.685	L76666	KIR3DL2	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2
44	205005_s_at	0.0285	1.682	AW293531	NMT2	N-myristoyltransferase 2
45	212070_at	0.0399	1.676	AL554008	GPR56	G protein-coupled receptor 56
46	204995_at	0.0375	1.661	AL567411	CDK5R1	cyclin-dependent kinase 5, regulatory subunit 1 (p35)
47	1552610_a_at	0.0495	1.661	NM_002227	JAK1	Janus kinase 1 (a protein tyrosine kinase)

48	219326_s_at	0.0375	1.66	NM_006577	B3GNT1	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 1
49	204427_s_at	0.038	1.655	NM_006815	TMED2	transmembrane emp24 domain trafficking protein 2
50	201624_at	0.0375	1.651	NM_001349	DARS	aspartyl-tRNA synthetase
51	224953_at	0.0403	1.647	AW001618	YIPF5	Yip1 domain family, member 5
52	238438_at	0.0375	1.645	R67226	CNOT6L	CCR4-NOT transcription complex, subunit 6-like
53	219276_x_at	0.0441	1.644	NM_024828	C9orf82	chromosome 9 open reading frame 82
54	226425_at	0.0408	1.642	AU144247	RSNL2	restin-like 2
55	212200_at	0.0241	1.63	AK025933	KIAA0692	KIAA0692 protein
56	200946_x_at	0.0375	1.629	AI339331	GLUD1	glutamate dehydrogenase 1
57	233558_s_at	0.0375	1.628	AK023390	FLJ12716	FLJ12716 protein
58	209231_s_at	0.0182	1.622	AI038068	DCTN5	dynactin 5 (p25)
59	227038_at	0.0375	1.619	AI963083	MGC26963	hypothetical protein MGC26963
60	209025_s_at	0.0475	1.619	AF037448	SYNCRIP	synaptotagmin binding, cytoplasmic RNA interacting protein
61	218477_at	0.0403	1.615	NM_014051	TMEM14A	transmembrane protein 14A
62	201797_s_at	0.0341	1.615	NM_006295	VAR5	valyl-tRNA synthetase
Transcribed locus, weakly similar to XP_513408.1 PREDICTED: similar to origin recognition complex, subunit 1; origin recognition complex, subunit 1, S. cerevisiae, homolog-like; origin recognition complex 1; replication control protein 1; origin recognition complex, subunit 1 (yeast homolog)-like ... [Pan troglodytes]						
63	228812_at	0.046	1.615	AI652899		
64	236782_at	0.0379	1.611	AI129628	SAMD3	sterile alpha motif domain containing 3
65	238423_at	0.0182	1.608	AI674404	SYTL3	synaptotagmin-like 3
66	204426_at	0.0375	1.607	NM_006815	TMED2	transmembrane emp24 domain trafficking protein 2
67	209815_at	0.0375	1.605	BG054916	PTCH	patched homolog (Drosophila)
68	211010_s_at	0.0403	1.604	AF031138	NCR3	natural cytotoxicity triggering receptor 3
69	1559397_s_at	0.048	1.603	BE788667	MGC3121	hypothetical protein MGC3121
70	204197_s_at	0.0375	1.601	NM_004350	RUNX3	runt-related transcription factor 3
71	226472_at	0.0424	1.598	BF515889	PPIL4	peptidylprolyl isomerase (cyclophilin)-like 4
72	202458_at	0.0403	1.594	NM_007173	PRSS23	protease, serine, 23
73	209754_s_at	0.0375	1.594	AF113682	TMPO	thymopoietin
74	213645_at	0.048	1.592	AF305057	ENOSF1	enolase superfamily member 1
75	203177_x_at	0.0375	1.592	NM_003201	TFAM	transcription factor A, mitochondrial
76	218764_at	0.0375	1.589	NM_024064	PRKCH	protein kinase C, eta
77	224685_at	0.0375	1.584	AI675354	MLLT4	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 4
78	225460_at	0.0403	1.578	BG432489	SEC22L3	SEC22 vesicle trafficking protein-like 3 (S. cerevisiae)
79	220416_at	0.0219	1.574	NM_024837	ATP8B4	ATPase, Class I, type 8B, member 4
80	218882_s_at	0.0403	1.571	NM_006784	WDR3	WD repeat domain 3
81	219256_s_at	0.0375	1.57	NM_018986	SH3TC1	SH3 domain and tetratricopeptide repeats 1
82	206118_at	0.0375	1.57	NM_003151	STAT4	signal transducer and activator of transcription 4
83	209814_at	0.0379	1.567	BC004421	ZNF330	zinc finger protein 330
84	207216_at	0.0375	1.566	NM_001244	TNFSF8	tumor necrosis factor (ligand) superfamily, member 8
85	221517_s_at	0.0375	1.564	AF105421	CRSP6	cofactor required for Sp1 transcriptional activation, subunit 6, 77kDa
86	218885_s_at	0.0375	1.564	NM_024642	GALNT12	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 12 (GalNAc-T12)
87	1557302_at	0.0375	1.564	BU689502		CDNA FLJ33255 fis, clone ASTRO2005553
88	227022_at	0.0475	1.563	AI817388	GNPDA2	glucosamine-6-phosphate deaminase 2
89	1558093_s_at	0.0375	1.559	BI832461	MATR3	matrin 3
90	213986_s_at	0.0375	1.558	AI805266	C19orf6	chromosome 19 open reading frame 6
91	216133_at	0.0469	1.557	AA284903		T cell receptor V alpha gene segment V-alpha-w23, clone IGRa01
92	211090_s_at	0.0375	1.556	Z25435	PRPF4B	PRP4 pre-mRNA processing factor 4 homolog B (yeast) ; PRP4 pre-mRNA processing factor 4 homolog B (yeast)
93	212486_s_at	0.0469	1.555	N20923	FYN	FYN oncogene related to SRC, FGR, YES
94	230230_at	0.0319	1.555	AI379691		CDNA: FLJ21893 fis, clone HEP03412
95	218501_at	0.0424	1.553	NM_019555	ARHGEF3	Rho guanine nucleotide exchange factor (GEF) 3

96	216676_x_at	0.0375	1.551 AC006293	KIR3DL3	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 3
97	224407_s_at	0.0375	1.547 AF344882	MASK	Mst3 and SOK1-related kinase ; Mst3 and SOK1-related kinase
98	218989_x_at	0.0403	1.546 NM_022902	SLC30A5	solute carrier family 30 (zinc transporter), member 5
99	207891_s_at	0.0182	1.544 NM_017518	TREX2 ; UIP1	three prime repair exonuclease 2 ; 26S proteasome-associated UCH interacting protein 1
100	219193_at	0.0321	1.544 NM_018034	WDR70	WD repeat domain 70
101	232383_at	0.0403	1.542 AL110232	TFEC	transcription factor EC
102	227093_at	0.0375	1.54 AU152298	USP36	Ubiquitin specific peptidase 36
103	214995_s_at	0.0375	1.532 BF508948	APOBEC3G ; APOBEC3F	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G ; apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F
104	206618_at	0.0379	1.532 NM_003855	IL18R1	interleukin 18 receptor 1
105	226348_at	0.0375	1.532 AK026764		Homo sapiens cDNA: FLJ23111 fis, clone LNG07835
106	228826_at	0.0375	1.53 AK000271	SUPT4H1	Suppressor of Ty 4 homolog 1 (S. cerevisiae)
107	202012_s_at	0.0182	1.529 AA196245	EXT2	exostoses (multiple) 2
108	229249_at	0.0375	1.529 BF511212		Transcribed locus, weakly similar to NP_997349.1 FLJ46489 protein [Homo sapiens]
109	218701_at	0.0321	1.526 NM_016027	LACTB2	lactamase, beta 2
110	224725_at	0.0375	1.525 AB037744	MIB1	mindbomb homolog 1 (Drosophila)
111	228925_at	0.0375	1.525 AW195586		xn84e02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2701178 3' similar to contains element MER28 repetitive element, mRNA sequence
112	235466_s_at	0.0375	1.522 AI677948		Transcribed locus
113	222315_at	0.0375	1.522 AW972855		Transcribed locus, weakly similar to XP_518244.1 PREDICTED: similar to sirtuin 5 isoform 2; sir2-like 5; silent mating type information regulation 2, S.cerevisiae, homolog 5; sirtuin (silent mating type information regulation 2, S.cerevisiae, homolog) 5; sirtuin silent mating type information regulation 2 h... [Pan troglodytes]
114	226800_at	0.0375	1.52 AL109925	KIAA1799	KIAA1799 protein
115	201657_at	0.0321	1.518 BE890745	ARL1	ADP-ribosylation factor-like 1
116	210667_s_at	0.0375	1.518 D86062	C21orf33	chromosome 21 open reading frame 33
117	216521_s_at	0.0241	1.518 S72931	CXorf53	chromosome X open reading frame 53
118	201582_at	0.0458	1.518 AL121900	SEC23B	Sec23 homolog B (S. cerevisiae)
119	225158_at	0.0321	1.516 BF978647	GFM1	G elongation factor, mitochondrial 1
120	1557078_at	0.0403	1.516 AK054668	MGC19764	likely ortholog of mouse schlafen 5
121	201968_s_at	0.0405	1.515 NM_002633	PGM1	phosphoglucomutase 1
122	241925_x_at	0.0375	1.511 BF207870		Transcribed locus
123	213227_at	0.0403	1.51 BE879873	PGRMC2	progesterone receptor membrane component 2
124	212426_s_at	0.0429	1.51 BF033313	YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide
125	234819_at	0.0279	1.509 AE000660		T cell receptor alpha chain variable region (AV4S1)
126	225972_at	0.0375	1.507 AA524005	EFCBP1	EF-hand calcium binding protein 1
127	219777_at	0.0347	1.507 NM_024711	GIMAP6	GTPase, IMAP family member 6
128	230739_at	0.0475	1.507 AI192379		CAMP-binding guanine nucleotide exchange factor IV (cAMP-GEFIV) mRNA, clone W15, partial sequence
129	230075_at	0.0375	1.506 AV724323	RAB39B	RAB39B, member RAS oncogene family
130	200778_s_at	0.0375	1.506 AI191427	SEPT2	septin 2
131	208310_s_at	0.0375	1.505 NM_007085	C7orf28A ; C7orf28B	chromosome 7 open reading frame 28A ; chromosome 7 open reading frame 28B
132	200595_s_at	0.0375	1.504 NM_003750	EIF3S10	eukaryotic translation initiation factor 3, subunit 10 theta, 150/170kDa
Down-regulated					
1	202201_at	0.0403	0.555 NM_000713	BLVRB	biliverdin reductase B (flavin reductase (NADPH))
2	204419_x_at	0.0403	0.562 NM_000184	HBG1 ; HBG2	hemoglobin, gamma A ; hemoglobin, gamma A ; hemoglobin, gamma G ; hemoglobin, gamma G
3	204848_x_at	0.0424	0.566 NM_000559	HBG1	hemoglobin, gamma A ; hemoglobin, gamma A

4	213515_x_at	0.0375	0.572	AI133353	HBG1 ; HBG2	hemoglobin, gamma A ; hemoglobin, gamma A ; hemoglobin, gamma G ; hemoglobin, gamma G
5	214157_at	0.0375	0.573	AA401492	GNAS	GNAS complex locus
6	231597_x_at	0.0375	0.588	AI371550		ta51a07.x2 NCI_CGAP_Lu25 Homo sapiens cDNA clone IMAGE:2047572 3', mRNA sequence
7	239832_at	0.0375	0.603	AI264135	C9orf42	Chromosome 9 open reading frame 42
8	218394_at	0.0393	0.648	NM_024589	FLJ22386	leucine zipper domain protein