Supplementary Table S1: 109 genes whose expression was altered by exercise in early pubertal boys

Probe set	Gene symbol	t-test p-value	Fold Change
202581_at	HSPA1B	0.0000001	3.2
211333_s_at	FASLG	0.0000074	3.2
226479_at	KBTBD6	0.0000027	2.3
206098_at	ZBTB6	0.0001117	2.2
230097_at	GART	0.0000288	2.1
236128_at	ZNF91	0.000021	1.8
205094_at	PEX12	0.0000431	1.8
229732_at	HSZFP36	0.0000079	1.7
214132_at	ATP5C1	0.0000184	1.7
214706_at	ZNF200	0.0000018	1.7
231776_at	EOMES	0.0000196	1.7
214193_s_at	C1orf107	0.0000449	1.6
213625_at	ZKSCAN4	0.0000513	1.6
1554455_at	LINS1	0.0000171	1.6
210279_at	GPR18	0.0000173	1.6
230075_at	RAB39B	0.0000149	1.6
212731_at	ANKRD46	0.000003	1.6
214820_at	BRWD1	0.0000009	1.6
201111_at	CSE1L	0.0000019	1.5
225539_at	ZNF295	0.0000458	1.5
239439_at	AFF4	0.0000036	1.5
227693_at	WDR20	0.0000073	1.5
1552312_a_at	MFAP3	0.0000067	1.5
205928_at	ZNF443	0.0000957	1.5
229723_at	TAGAP	0.0000089	1.5
1556821_x_at	DLEU2	0.0000434	1.5
203406_at	MFAP1	0.0000163	1.5
239377_at	EIF1AD	0.0000576	1.5
213694_at	RSBN1	0.0000557	1.5
212367_at	FEM1B	0.0000222	1.5
222662_at	PPP1R3B	0.0000266	1.5
200811_at	CIRBP	0.0000872	1.5
213021_at	GOSR1	0.0000048	1.5
226321_at	LYSMD3	0.0000507	1.4
223240_at	FBXO8	0.0000173	1.4
213341_at	FEM1C	0.0000487	1.4
222763_s_at	WDR33	0.0000764	1.4
224310_s_at	BCL11B	0.0000895	1.4
207753_at	ZNF304	0.0000336	1.4
218247_s_at	MEX3C	0.000085	1.4
239482_x_at	ZNF708	0.0001132	1.4
235151_at	LOC283357	0.0001115	1.4
226541_at	FBXO30	0.000034	1.4
226481_at	VPRBP	0.0000497	1.4
204642_at	EDG1	0.0000019	1.4
227638_at	KIAA1632	0.0000915	1.4
227689_at	ZNF227	0.0000018	1.4
226015_at	ZNF12	0.0000069	1.4
212453_at	KIAA1279	0.0000317	1.4
226323_at	CCDC16	0.0000017	1.4
220924_s_at	SLC38A2	0.000006	1.4
225644_at	CCDC117	0.0001022	1.4
210971_s_at	ARNTL	0.0000737	1.4
226317_at	PPP4R2	0.0000336	1.4
230226_s_at	JARID1A	0.000052	1.4
1554449_at	MIER3	0.000076	1.4
214583_at	RSC1A1	0.0000926	1.4
225970_at	DDHD1	0.0000961	1.4
222471_s_at	KCMF1	0.0000676	1.4
225416_at	RNF12	0.0000217	1.4
201703_s_at	PPP1R10	0.0000635	1.4
203810_at	DNAJB4	0.000056	1.4
218501_at	ARHGEF3	0.0000058	1.3
1553725_s_at	ZNF644	0.000103	1.3
218113_at	TMEM2	0.0000344	1.3
238077_at	KCTD6	0.000041	1.3
222656_at	UBE2W	0.0000454	1.3
201363_s_at	IVNS1ABP	0.0000664	1.3
223081_at	PHF23	0.0000641	1.3
212366_at	ZNF292	0.0000437	1.3
202970_at	DYRK2	0.0000487	1.3
218131_s_at	GATAD2A	0.0000962	1.3
206943_at	TGFBR1	0.0000365	1.3
235175_at	GBP4	0.0000804	1.3
226077_at	RNF145	0.0000773	1.3
1568665_at	RNF103	0.000114	1.3
221702_s_at	TM2D3	0.0000305	1.3
1552516_a_at	HIPK1	0.0000733	1.2
229711_s_at	MGC5370	0.0000737	1.2
202168_at	TAF9	0.0001018	0.8
217783_s_at	YPEL5	0.0000241	0.8
224734_at	HMGB1	0.0000269	0.8
209911_x_at	HIST1H2BD	0.0000505	0.8
217825_s_at	UBE2J1	0.0000067	0.8
229812_at	USP48	0.0000576	0.8
227189_at	CPNE5	0.0000385	0.7
242304_at	WIBG	0.0001159	0.7
235173_at	hCG_1806964	0.0000966	0.7
227414_at	RHBDD1	0.0000565	0.7
201559_s_at	CLIC4	0.0000114	0.7
219551_at	EAF2	0.000012	0.7
232441_at	KRR1	0.0000238	0.7
1559399_s_at	ZCCHC10	0.0000671	0.6
228381_at	ATF7IP2	0.0001017	0.6
211998_at	H3F3B	0.0000061	0.6
231990_at	USP15	0.0000287	0.6

Probe set	Gene symbol	t-test p-value	Fold Change
212531_at	LCN2	0.0000092	**0.6**
236244_at	HNRNPU	0.0000717	**0.6**
1565651_at	ARF1	0.0000554	**0.6**
242146_at	SNRPA1	0.0000203	**0.6**
212225_at	EIF1	0.0000985	**0.6**
238738_at	PSMD7	0.000016	**0.6**
238633_at	EPC1	0.0000195	**0.6**
1560274_at	WTAP	0.000002	**0.6**
232216_at	YME1L1	0.0000927	**0.5**
1559975_at	BTG1	0.0000918	**0.5**
232529_at	SP3	0.0000023	**0.5**
241843_at	SNORA28	0.0000141	**0.4**
1565716_at	FUS	0.0000492	**0.2**

Supplementary Table S2: 1246 genes whose expression was altered by exercise in late pubertal boys

Probe set	Gene symbol	t-test p-value	Fold Change
202581_at	HSPA1B	< 1E-07	4.7
211333_s_at	FASLG	< 1E-07	4.2
207314_x_at	KIR3DL2	< 1E-07	3.7
205767_at	EREG	0.0000309	3.6
208179_x_at	KIR2DL3	< 1E-07	3.1
225202_at	RHOBTB3	0.0000007	3.0
209160_at	AKR1C3	< 1E-07	3.0
1553176_at	SH2D1B	0.0000001	3.0
211687_x_at	KIR3DL1	< 1E-07	2.9
234165_at	PTGDR	0.0000007	2.8
219304_s_at	PDGFD	0.0000025	2.8
238478_at	BNC2	0.0005807	2.7
227394_at	NCAM1	0.000074	2.7
200907_s_at	PALLD	0.0000001	2.7
230464_at	EDG8	0.0000002	2.6
222071_s_at	SLCO4C1	0.0000066	2.5
206582_s_at	GPR56	0.0000041	2.5
218638_s_at	SPON2	0.0000005	2.5
202458_at	PRSS23	0.0000004	2.5
219529_at	CLIC3	0.0000001	2.5
227803_at	ENPP5	0.0000094	2.5
227819_at	LGR6	0.0000007	2.4
213395_at	MLC1	0.0000001	2.4
206233_at	B4GALT6	0.0000126	2.4
219383_at	FLJ14213	0.0000001	2.4
206170_at	ADRB2	0.0000005	2.4
204790_at	SMAD7	< 1E-07	2.3
210164_at	GZMB	< 1E-07	2.3
205826_at	MYOM2	0.0004147	2.2
202933_s_at	YES1	0.0000023	2.2
220684_at	TBX21	0.0000002	2.2
223836_at	FGFBP2	0.0000002	2.2
223126_s_at	C1orf21	0.0000032	2.2
207351_s_at	SH2D2A	< 1E-07	2.2
220646_s_at	KLRF1	0.0000007	2.1
225688_s_at	PHLDB2	0.0000818	2.1
230179_at	LOC285812	< 1E-07	2.1
216748_at	PYHIN1	0.0000034	2.1
1553681_a_at	PRF1	0.0000003	2.1
204066_s_at	CENTG2	0.0000021	2.1
204103_at	CCL4	0.0000026	2.1
203908_at	SLC4A4	0.0000427	2.1
207509_s_at	LAIR2	0.0000065	2.0
206999_at	IL12RB2	0.0000032	2.0
210321_at	GZMH	0.0000001	2.0
204614_at	SERPINB2	0.0000131	2.0
210140_at	CST7	0.0000001	2.0
235458_at	HAVCR2	0.0000002	2.0
213849_s_at	PPP2R2B	0.0000057	1.9
216836_s_at	ERBB2	0.000007	1.9
219821_s_at	GFOD1	< 1E-07	1.9
207840_at	CD160	0.0000017	1.9
204161_s_at	ENPP4	0.0001567	1.9
209198_s_at	SYT11	0.0000258	1.9
228373_at	C16orf72	0.0000007	1.9
1562255_at	SYTL3	0.0000425	1.9
204731_at	TGFBR3	0.0000001	1.9
231776_at	EOMES	0.0000032	1.9
210606_x_at	KLRD1	0.0000032	1.9
203921_at	CHST2	< 1E-07	1.9
207072_at	IL18RAP	0.0000026	1.9
211597_s_at	HOPX	0.0000015	1.9
206366_x_at	XCL2	0.0000048	1.9
220603_s_at	MCTP2	0.0000082	1.9
223740_at	RIPPLY2	0.0000004	1.9
201163_s_at	IGFBP7	0.0000113	1.9
1553962_s_at	RHOB	0.0000586	1.9
204170_s_at	CKS2	0.0001698	1.8
205495_s_at	GNLY	0.0000052	1.8
201169_s_at	BHLHB2	0.0000423	1.8
215761_at	DMXL2	0.0000145	1.8
209967_s_at	CREM	0.0000389	1.8
211748_x_at	PTGDS	0.0000036	1.8
226003_at	KIF21A	0.0000082	1.8
205839_s_at	BZRAP1	0.0000575	1.8
204566_at	PPM1D	0.0000088	1.8
206618_at	IL18R1	0.0000925	1.8
213915_at	NKG7	0.0000005	1.8
227410_at	FAM43A	0.0003931	1.8
204256_at	ELOVL6	0.0002781	1.8
205898_at	CX3CR1	0.0000034	1.8
201340_s_at	ENC1	0.0000052	1.8
204811_s_at	CACNA2D2	0.0000002	1.8
205291_at	IL2RB	0.0000004	1.8
220613_s_at	SYTL2	0.0000175	1.8
228296_at	YPEL1	0.0000461	1.8
205692_s_at	CD38	0.000027	1.8
209815_at	PTCH1	0.0000152	1.7
202679_at	NPC1	< 1E-07	1.7
212599_at	AUTS2	0.0000002	1.7
207723_s_at	KLRC3	0.0000021	1.7
203060_s_at	PAPSS2	0.0002253	1.7
222786_at	CHST12	0.000001	1.7
227124_at	LOC221710	0.0000134	1.7
213906_at	MYBL1	0.0000012	1.7
211685_s_at	NCALD	0.0000115	1.7

Probe set	Gene symbol	t-test p-value	Fold Change
225954_s_at	MIDN	0.00068	1.7
218880_at	FOSL2	0.0002933	1.7
208426_x_at	KIR2DL4	0.0003046	1.7
214450_at	CTSW	0.0000051	1.7
205488_at	GZMA	0.0000005	1.7
206267_s_at	MATK	0.0000043	1.7
229215_at	ASCL2	0.0000053	1.7
238121_at	GK5	0.0000479	1.7
213348_at	CDKN1C	0.0002172	1.7
220416_at	ATP8B4	0.0006783	1.7
240061_at	tcag7.1314	0.0001906	1.6
207860_at	NCR1	0.0000169	1.6
222838_at	SLAMF7	0.0000212	1.6
236717_at	LOC165186	0.0000025	1.6
228846_at	MXD1	0.0010581	1.6
212509_s_at	MXRA7	0.0000046	1.6
212589_at	RRAS2	0.0003494	1.6
226489_at	TMCC3	0.0000497	1.6
205171_at	PTPN4	0.00001	1.6
203502_at	BPGM	0.0000046	1.6
220924_s_at	SLC38A2	0.0000004	1.6
210690_at	KLRC4	0.0002277	1.6
228904_at	HOXB3	0.0002058	1.6
203397_s_at	GALNT3	0.000014	1.6
230206_at	DOCK5	0.0000751	1.6
1562368_at	CARD11	0.000567	1.6
201218_at	CTBP2	0.0000339	1.6
204007_at	FCGR3B	0.0000006	1.6
207224_s_at	SIGLEC7	0.0001189	1.6
1552678_a_at	USP28	0.0000511	1.6
221679_s_at	ABHD6	0.0002792	1.6
225005_at	PHF13	0.000067	1.6
215375_x_at	LRRFIP1	0.0000522	1.6
229971_at	GPR114	0.0000908	1.6
227312_at	SNTB2	0.0000042	1.6
207460_at	GZMM	0.0000014	1.6
204529_s_at	TOX	0.0000173	1.6
226372_at	CHST11	0.0000011	1.6
242224_at	GPATCH2	0.000164	1.6
201818_at	LPCAT1	0.0000012	1.6
202786_at	STK39	0.0000047	1.6
202068_s_at	LDLR	0.0001166	1.6
206098_at	ZBTB6	0.0011813	1.6
209993_at	ABCB1	0.0005441	1.6
228774_at	CEP78	0.0000001	1.5
210031_at	CD247	0.0000003	1.5
1555878_at	RPS24	0.0000674	1.5
219210_s_at	RAB8B	0.0000568	1.5
222693_at	FNDC3B	0.0000069	1.5
239963_at	FLJ43276	0.0002941	1.5

Probe set	Gene symbol	t-test p-value	Fold Change
217078_s_at	CD300A	0.0000095	1.5
1559051_s_at	C6orf150	0.0001779	1.5
238551_at	FUT11	0.0000331	1.5
1559101_at	FYN	0.0000472	1.5
201392_s_at	IGF2R	0.0000004	1.5
209927_s_at	C1orf77	0.0005495	1.5
209457_at	DUSP5	0.0007314	1.5
206943_at	TGFBR1	0.0000376	1.5
207008_at	IL8RB	0.0000868	1.5
233734_s_at	OSBPL5	0.0000028	1.5
204897_at	PTGER4	0.0000004	1.5
1555766_a_at	GNG2	0.0000301	1.5
205232_s_at	PAFAH2	0.0001839	1.5
1553423_a_at	SLFN13	0.000609	1.5
209362_at	MED21	0.0000086	1.5
219540_at	ZNF267	0.0000065	1.5
203713_s_at	LLGL2	0.0001592	1.5
228283_at	C3orf68	0.000009	1.5
242463_x_at	ZNF600	0.0000638	1.5
214467_at	GPR65	0.000004	1.5
204841_s_at	EEA1	0.0010867	1.5
1565754_x_at	FGD2	0.0008594	1.5
204554_at	PPP1R3D	0.0000324	1.5
204198_s_at	RUNX3	0.0000023	1.5
232945_at	CCDC139	0.0005334	1.5
223490_s_at	EXOSC3	0.0003796	1.5
228964_at	PRDM1	0.0010963	1.5
238560_at	CALCOCO2	0.0008024	1.5
212665_at	TIPARP	0.0000274	1.5
221563_at	DUSP10	0.0000013	1.5
227948_at	FGD4	0.0002484	1.5
223474_at	C14orf4	0.0000159	1.5
205410_s_at	ATP2B4	0.0001709	1.5
224956_at	NUFIP2	0.0000167	1.5
222872_x_at	OBFC2A	0.0001635	1.5
200799_at	HSPA1A	0.0000042	1.5
1552312_a_at	MFAP3	0.0010818	1.5
223081_at	PHF23	0.000031	1.5
206118_at	STAT4	0.0000568	1.5
202150_s_at	NEDD9	0.0000031	1.5
202336_s_at	PAM	0.0000192	1.5
204735_at	PDE4A	0.0002039	1.5
226518_at	KCTD10	0.0000695	1.5
228654_at	SPIN4	0.000473	1.5
225116_at	HIPK2	0.0000111	1.5
220307_at	CD244	0.0000139	1.5
1552263_at	MAPK1	0.0000039	1.5
1556009_at	PEX13	0.0009341	1.5
221808_at	RAB9A	0.0000028	1.5
214061_at	WDR67	0.0010224	1.5

Probe set	Gene symbol	t-test p-value	Fold Change
213418_at	HSPA6	0.0000873	1.5
218113_at	TMEM2	0.0000115	1.5
236692_at	LOC729839	0.0000554	1.4
222243_s_at	TOB2	0.0007341	1.4
228201_at	ARL13B	0.0004053	1.4
225644_at	CCDC117	0.0000624	1.4
205018_s_at	MBNL2	0.0000856	1.4
206656_s_at	C20orf3	0.0000038	1.4
200952_s_at	CCND2	0.0004077	1.4
225177_at	RAB11FIP1	0.0000016	1.4
204497_at	ADCY9	0.0006261	1.4
202388_at	RGS2	0.0000222	1.4
222763_s_at	WDR33	0.0000066	1.4
226021_at	RDH10	0.0004295	1.4
221485_at	B4GALT5	0.0000221	1.4
57715_at	FAM26B	0.0000087	1.4
235451_at	SMAD5	0.0000923	1.4
204205_at	APOBEC3G	0.0000642	1.4
215285_s_at	PHTF1	0.0004898	1.4
208869_s_at	GABARAPL1	0.0010611	1.4
219885_at	SLFN12	0.0009877	1.4
236782_at	SAMD3	0.000234	1.4
1568964_x_at	SPN	0.0000003	1.4
218904_s_at	C9orf40	0.0000636	1.4
205467_at	CASP10	0.0000213	1.4
202540_s_at	HMGCR	0.00013	1.4
203406_at	MFAP1	0.0000105	1.4
213280_at	GARNL4	0.0000032	1.4
221978_at	HLA-F	0.0001198	1.4
210279_at	GPR18	0.0001294	1.4
230226_s_at	JARID1A	0.0000096	1.4
201942_s_at	CPD	0.0000558	1.4
222603_at	ERMP1	0.0001304	1.4
219017_at	ETNK1	0.000421	1.4
239431_at	TICAM2	0.0008878	1.4
1558826_at	C20orf174	0.0008834	1.4
206631_at	PTGER2	0.0000024	1.4
223615_at	ABI3	0.0000084	1.4
226576_at	ARHGAP26	0.000026	1.4
213164_at	SLC5A3	0.0000509	1.4
225099_at	FBXO45	0.0000062	1.4
227013_at	LATS2	0.0000046	1.4
212731_at	ANKRD46	0.0003447	1.4
240070_at	VSTM3	0.0001421	1.4
223394_at	SERTAD1	0.0000428	1.4
218739_at	ABHD5	0.0007816	1.4
35671_at	GTF3C1	0.0001615	1.4
228073_at	NANP	0.0004097	1.4
203823_at	RGS3	0.0011312	1.4
203989_x_at	F2R	0.0000559	1.4

Probe set	Gene symbol	t-test p-value	Fold Change
212367_at	FEM1B	0.0000874	1.4
210763_x_at	NCR3	0.0005172	1.4
212959_s_at	GNPTAB	0.0001233	1.4
205179_s_at	ADAM8	0.0000203	1.4
218472_s_at	PELO	0.0006767	1.4
208010_s_at	PTPN22	0.0002565	1.4
205016_at	TGFA	0.0000996	1.4
238909_at	S100A10	0.0009125	1.4
223240_at	FBXO8	0.0009635	1.4
202208_s_at	ARL4C	0.0000033	1.4
207643_s_at	TNFRSF1A	0.0000324	1.4
210360_s_at	MTSS1	0.0010061	1.4
212565_at	STK38L	0.000325	1.4
217992_s_at	EFHD2	0.0000139	1.4
1565818_s_at	IKZF1	0.0002013	1.4
210540_s_at	B4GALT4	0.0000155	1.4
209205_s_at	LMO4	0.0004404	1.4
221430_s_at	RNF146	0.000088	1.4
204226_at	STAU2	0.0003172	1.4
228410_at	GAB3	0.0000238	1.4
1556698_a_at	GPRIN3	0.0000209	1.4
240037_at	KIAA1754L	0.0002071	1.4
200881_s_at	DNAJA1	0.0000084	1.4
231152_at	FLJ20309	0.0002758	1.4
226175_at	TTC9C	0.000127	1.4
212772_s_at	ABCA2	0.0005351	1.4
46665_at	SEMA4C	0.0000919	1.4
203603_s_at	ZEB2	0.0004532	1.4
210971_s_at	ARNTL	0.0000031	1.4
202910_s_at	CD97	0.0000194	1.4
239629_at	CFLAR	0.0001626	1.4
208116_s_at	MAN1A1	0.0005561	1.4
200885_at	RHOC	0.0005606	1.4
222757_s_at	ZAK	0.0003996	1.4
1556821_x_at	DLEU2	0.0001765	1.4
221803_s_at	NRBF2	0.0000208	1.4
218247_s_at	MEX3C	0.0003011	1.4
1558304_s_at	TSEN54	0.0000165	1.4
205566_at	ABHD2	0.0006831	1.4
1557236_at	APOL6	0.0006718	1.4
219558_at	ATP13A3	0.000386	1.4
230012_at	C17orf44	0.0002354	1.4
231769_at	FBXO6	0.0000916	1.4
225582_at	KIAA1754	0.0000661	1.4
200796_s_at	MCL1	0.0003948	1.4
225043_at	SLC15A4	0.0000427	1.4
242943_at	ST8SIA4	0.0006362	1.4
226991_at	NFATC2	0.0001061	1.4
1552812_a_at	SENP1	0.0000413	1.4
211791_s_at	KCNAB2	0.0001122	1.4

Probe set	Gene symbol	t-test p-value	Fold Change
230634_x_at	ADAT3	0.0000524	1.4
229723_at	TAGAP	0.0000049	1.3
1553725_s_at	ZNF644	0.0001021	1.3
202794_at	INPP1	0.0000546	1.3
238649_at	PITPNC1	0.0010605	1.3
205928_at	ZNF443	0.0000461	1.3
223542_at	ANKRD32	0.0003141	1.3
206099_at	PRKCH	0.0004678	1.3
203810_at	DNAJB4	0.0000142	1.3
204137_at	GPR137B	0.0002597	1.3
203313_s_at	TGIF1	0.0004771	1.3
200827_at	PLOD1	0.0000563	1.3
209340_at	UAP1	0.0000281	1.3
206247_at	MICB	0.0000129	1.3
224571_at	IRF2BP2	0.0001666	1.3
204204_at	SLC31A2	0.0001906	1.3
1559044_at	EXOSC1	0.0009181	1.3
231956_at	KIAA1618	0.000738	1.3
214706_at	ZNF200	0.0002529	1.3
206474_at	PCTK2	0.0000162	1.3
202925_s_at	PLAGL2	0.0003179	1.3
215990_s_at	BCL6	0.0002103	1.3
223983_s_at	C19orf12	0.0004851	1.3
223441_at	SLC17A5	0.0001317	1.3
1554397_s_at	UEVLD	0.0011511	1.3
227693_at	WDR20	0.0006846	1.3
211250_s_at	SH3BP2	0.0002851	1.3
201703_s_at	PPP1R10	0.000044	1.3
227236_at	TSPAN2	0.0000186	1.3
201920_at	SLC20A1	0.0000095	1.3
243786_at	ZDHHC20	0.0002114	1.3
1554449_at	MIER3	0.0004041	1.3
223065_s_at	STARD3NL	0.0000085	1.3
209357_at	CITED2	0.0001182	1.3
214470_at	KLRB1	0.000048	1.3
226541_at	FBXO30	0.0000722	1.3
1552623_at	HSH2D	0.0001283	1.3
222235_s_at	GALNACT-2	0.0000682	1.3
238581_at	GBP5	0.0002428	1.3
214440_at	NAT1	0.0000898	1.3
208092_s_at	FAM49A	0.0002211	1.3
213023_at	UTRN	0.0000283	1.3
230265_at	SEL1L	0.0002976	1.3
1552516_a_at	HIPK1	0.0000684	1.3
211810_s_at	GALC	0.0001138	1.3
206038_s_at	NR2C2	0.0005428	1.3
223228_at	LDOC1L	0.0000435	1.3
203761_at	SLA	0.0003193	1.3
1557562_at	GRIPAP1	0.0005276	1.3
218126_at	FAM82C	0.0007288	1.3

Probe set	Gene symbol	t-test p-value	Fold Change
201111_at	CSE1L	0.0004157	1.3
214551_s_at	CD7	0.0000955	1.3
202351_at	ITGAV	0.0003276	1.3
201146_at	NFE2L2	0.0000629	1.3
221830_at	RAP2A	0.0000778	1.3
226743_at	SLFN11	0.0006197	1.3
230405_at	LOC441108	0.0001037	1.3
202761_s_at	SYNE2	0.0005694	1.3
219490_s_at	DCLRE1B	0.000969	1.3
218869_at	MLYCD	0.0010062	1.3
223434_at	GBP3	0.0005458	1.3
219326_s_at	B3GNT2	0.0007756	1.3
205277_at	PRDM2	0.0001216	1.3
226752_at	TMEM157	0.0010101	1.3
213916_at	ZNF20	0.0005728	1.3
201140_s_at	RAB5C	0.0008631	1.3
208961_s_at	KLF6	0.0000406	1.3
211139_s_at	NAB1	0.0009762	1.3
205453_at	HOXB2	0.0007692	1.3
240757_at	CLASP1	0.0001409	1.3
225841_at	C1orf59	0.0000567	1.3
231929_at	IKZF2	0.0000268	1.3
225408_at	MBP	0.0003817	1.3
225647_s_at	CTSC	0.0000454	1.3
205687_at	UBFD1	0.0002975	1.3
227687_at	HYLS1	0.0004269	1.3
238077_at	KCTD6	0.000511	1.3
1564053_a_at	YTHDF3	0.0002668	1.3
212856_at	DIP	0.000724	1.3
1555691_a_at	KLRK1	0.0002103	1.3
209682_at	CBLB	0.0000653	1.3
201363_s_at	IVNS1ABP	0.0000163	1.3
212502_at	ADO	0.0000125	1.3
208325_s_at	AKAP13	0.0003761	1.3
213387_at	ATAD2B	0.0002605	1.3
220023_at	APOB48R	0.0005965	1.3
219889_at	FRAT1	0.0001121	1.3
226157_at	TFDP2	0.0011563	1.3
203474_at	IQGAP2	0.0000455	1.3
209348_s_at	MAF	0.0005703	1.3
210053_at	TAF5	0.0002701	1.3
226605_at	DGKQ	0.0003067	1.3
225414_at	RNF149	0.0002465	1.3
225127_at	TMEM181	0.0002457	1.3
223174_at	BTBD10	0.0003481	1.3
226464_at	C3orf58	0.0007849	1.3
203252_at	CDK2AP2	0.000077	1.3
242136_x_at	MGC70870	0.0008541	1.3
212723_at	JMJD6	0.0009028	1.3
203518_at	LYST	0.0010872	1.3

Probe set	Gene symbol	t-test p-value	Fold Change
1558942_at	ZNF765	0.0000873	1.3
219933_at	GLRX2	0.0000571	1.3
210613_s_at	SYNGR1	0.0008064	1.3
220319_s_at	MYLIP	0.0000868	1.3
219186_at	ZBTB7A	0.0005294	1.3
200670_at	XBP1	0.0000302	1.3
226669_at	USP42	0.0001308	1.3
222654_at	IMPAD1	0.0002398	1.3
210951_x_at	RAB27A	0.0003106	1.3
221002_s_at	TSPAN14	0.000219	1.3
207246_at	ZFY	0.0008468	1.3
209296_at	PPM1B	0.0001015	1.3
203291_at	CNOT4	0.0003699	1.3
236487_at	SCLT1	0.0003234	1.3
204847_at	ZBTB11	0.0004525	1.3
204079_at	TPST2	0.0001992	1.3
225621_at	ALG2	0.0000501	1.3
202552_s_at	CRIM1	0.0000621	1.3
225091_at	ZCCHC3	0.0008915	1.3
203470_s_at	PLEK	0.0002044	1.3
222635_s_at	MED28	0.0004231	1.3
214683_s_at	CLK1	0.0010224	1.3
202531_at	IRF1	0.0005899	1.3
224708_at	KIAA2013	0.0011653	1.3
223466_x_at	COL4A3BP	0.0000885	1.3
200617_at	KIAA0152	0.0000498	1.3
225648_at	STK35	0.0001822	1.3
208774_at	CSNK1D	0.0003241	1.3
218251_at	MID1IP1	0.0006888	1.3
201866_s_at	NR3C1	0.0000762	1.2
218501_at	ARHGEF3	0.0001525	1.2
221006_s_at	SNX27	0.0005005	1.2
213446_s_at	IQGAP1	0.0001124	1.2
223343_at	MS4A7	0.0010506	1.2
212646_at	RFTN1	0.0000613	1.2
213021_at	GOSR1	0.0001127	1.2
224927_at	KIAA1949	0.0003364	1.2
224962_at	C9orf69	0.0002568	1.2
224963_at	SLC26A2	0.0004418	1.2
201582_at	SEC23B	0.0011604	1.2
203231_s_at	ATXN1	0.0002746	1.2
218643_s_at	CRIPT	0.0011427	1.2
220005_at	P2RY13	0.000079	1.2
206369_s_at	PIK3CG	0.0005373	1.2
220933_s_at	ZCCHC6	0.0011907	1.2
212548_s_at	FRYL	0.0007244	1.2
201087_at	PXN	0.0000622	1.2
202195_s_at	TMED5	0.0003905	1.2
200759_x_at	NFE2L1	0.0000879	1.2
223639_s_at	ZNRD1	0.0002218	1.2
214895_s_at	ADAM10	0.0005357	1.2
222000_at	C1orf174	0.0003904	1.2
219777_at	GIMAP6	0.0011184	1.2
200704_at	LITAF	0.0007058	1.2
226887_at	HSPA14	0.0003388	1.2
213501_at	ACOX1	0.0006596	1.2
205786_s_at	ITGAM	0.0003086	1.2
214911_s_at	BRD2	0.0004096	1.2
204224_s_at	GCH1	0.0001031	1.2
231101_at	PPP2R5E	0.0009851	1.2
212306_at	CLASP2	0.0010683	1.2
222620_s_at	DNAJC1	0.000245	1.2
51146_at	PIGV	0.000868	1.2
227638_at	KIAA1632	0.0005648	1.2
217299_s_at	NBN	0.0009461	1.2
203141_s_at	AP3B1	0.0009279	1.2
224624_at	LRRC8A	0.000613	1.2
222077_s_at	RACGAP1	0.0009754	1.2
224813_at	WASL	0.0002249	1.2
202211_at	ARFGAP3	0.0008191	1.2
214649_s_at	MTMR2	0.0009979	1.2
225039_at	RPE	0.000409	1.2
201060_x_at	STOM	0.0004678	1.2
201202_at	PCNA	0.0006414	1.2
224909_s_at	PREX1	0.0011136	1.2
204070_at	RARRES3	0.0007446	1.2
226178_at	SOCS4	0.0010672	1.2
217788_s_at	GALNT2	0.0006708	1.2
35265_at	FXR2	0.000364	1.2
209380_s_at	ABCC5	0.0009398	1.2
222132_s_at	AGK	0.0001854	1.2
219495_s_at	ZNF180	0.001193	1.2
213475_s_at	ITGAL	0.0011185	1.2
225602_at	C9orf19	0.0004493	1.2
204642_at	EDG1	0.0011826	1.2
228330_at	C6orf113	0.0009264	1.2
221652_s_at	C12orf11	0.0009277	1.2
226843_s_at	PAPD5	0.0005357	1.2
219492_at	CHIC2	0.0005033	1.2
225263_at	HS6ST1	0.0009186	1.2
202256_at	CD2BP2	0.0007281	1.2
210465_s_at	SNAPC3	0.0002893	1.2
219266_at	ZNF350	0.0007828	1.2
1554365_a_at	PPP2R5C	0.0004751	1.2
225024_at	C20orf77	0.0004697	1.2
217957_at	C16orf80	0.0003937	1.2
200699_at	KDELR2	0.0011552	1.2
204346_s_at	RASSF1	0.0011811	1.2
202307_s_at	TAP1	0.0008533	1.2
200601_at	ACTN4	0.0005128	1.2

Probe set	Gene symbol	t-test p-value	Fold Change
219033_at	PARP8	0.0002395	1.2
203730_s_at	ZKSCAN5	0.0002636	1.2
201315_x_at	IFITM2	0.0003053	1.2
202610_s_at	MED14	0.0004865	1.2
225929_s_at	RNF213	0.0008251	1.2
235440_at	SPTY2D1	0.0010388	1.2
222543_at	DERL1	0.0005992	1.2
225564_at	SPATA13	0.0010964	1.2
201012_at	ANXA1	0.0002165	1.2
218474_s_at	KCTD5	0.0006947	1.2
226748_at	LYSMD2	0.0006505	1.2
232229_at	SETX	0.0010317	1.2
208093_s_at	NDEL1	0.0004719	1.2
218055_s_at	WDR41	0.0010988	1.2
201807_at	VPS26A	0.0009043	1.2
225434_at	DEDD2	0.0005367	1.2
202814_s_at	HEXIM1	0.0008534	1.2
209879_at	SELPLG	0.0011604	1.2
207319_s_at	CDC2L5	0.0009571	1.2
202187_s_at	PPP2R5A	0.001141	1.2
200046_at	DAD1	0.0011852	0.9
204215_at	C7orf23	0.001	0.9
221774_x_at	FAM48A	0.0009547	0.9
225170_at	WDR5	0.0009174	0.9
213593_s_at	TRA2A	0.0009622	0.9
218505_at	WDR59	0.001114	0.9
229686_at	P2RY8	0.0007739	0.9
229119_s_at	ZSWIM7	0.00098	0.9
225435_at	SSR1	0.0010908	0.9
223421_at	CYHR1	0.000982	0.9
207522_s_at	ATP2A3	0.0008972	0.8
213340_s_at	KIAA0495	0.000138	0.8
201421_s_at	WDR77	0.0001175	0.8
224821_at	ABHD14B	0.0008749	0.8
227677_at	JAK3	0.0002518	0.8
223598_at	RAD23B	0.0009673	0.8
218495_at	UXT	0.0011408	0.8
207625_s_at	CBFA2T2	0.000481	0.8
218953_s_at	PCYOX1L	0.001099	0.8
200779_at	ATF4	0.0008771	0.8
206707_x_at	C6orf32	0.0001667	0.8
231896_s_at	DENR	0.0006525	0.8
203580_s_at	SLC7A6	0.0003582	0.8
208622_s_at	EZR	0.0005002	0.8
221691_x_at	NPM1	0.0010233	0.8
203537_at	PRPSAP2	0.0010666	0.8
221726_at	RPL22	0.0010683	0.8
204978_at	SFRS16	0.000434	0.8
201770_at	SNRPA	0.0005516	0.8
1557053_s_at	UBE2G2	0.0009094	0.8

Probe set	Gene symbol	t-test p-value	Fold Change
225866_at	BXDC1	0.000782	0.8
205285_s_at	FYB	0.0004159	0.8
225704_at	KIAA1545	0.0004785	0.8
226382_at	LOC283070	0.0008826	0.8
214219_x_at	MAP4K1	0.0002752	0.8
202259_s_at	RP11-298P3.3	0.0009496	0.8
212914_at	CBX7	0.0002051	0.8
1555960_at	HINT1	0.0005744	0.8
217736_s_at	EIF2AK1	0.0010204	0.8
228674_s_at	EML4	0.0010732	0.8
228106_at	C4orf30	0.0011808	0.8
201377_at	UBAP2L	0.0005852	0.8
235005_at	DIS3L	0.0006257	0.8
213357_at	GTF2H5	0.000598	0.8
214009_at	MSL3L1	0.0002725	0.8
211009_s_at	ZNF271	0.0005509	0.8
224664_at	C10orf104	0.0005171	0.8
228131_at	ERCC1	0.0007289	0.8
222894_x_at	C20orf7	0.0003748	0.8
226017_at	CMTM7	0.0004311	0.8
1568658_at	LOC339804	0.0008806	0.8
213587_s_at	ATP6V0E2	0.0007766	0.8
228736_at	HEL308	0.0008814	0.8
231713_s_at	ELP2	0.0003111	0.8
223063_at	C1orf198	0.0011147	0.8
201161_s_at	CSDA	0.0009498	0.8
200940_s_at	RERE	0.0007294	0.8
226923_at	SCFD2	0.0011083	0.8
224666_at	NSMCE1	0.000282	0.8
210006_at	ABHD14A	0.0008413	0.8
202144_s_at	ADSL	0.0011807	0.8
226801_s_at	C1orf80	0.0006081	0.8
212611_at	DTX4	0.0011802	0.8
213189_at	MINA	0.0005903	0.8
203655_at	XRCC1	0.0005421	0.8
217783_s_at	YPEL5	0.0000815	0.8
206848_at	HOXA7	0.0010173	0.8
223389_s_at	ZNF581	0.0009747	0.8
204650_s_at	APBB3	0.0003337	0.8
210113_s_at	NLRP1	0.0005576	0.8
218951_s_at	PLCXD1	0.0003669	0.8
225273_at	WWC3	0.0003541	0.8
1553218_a_at	ZNF512	0.0001126	0.8
219767_s_at	CRYZL1	0.0010052	0.8
218802_at	CCDC109B	0.0005326	0.8
227847_at	EPM2AIP1	0.0011003	0.8
211930_at	HNRPA3	0.0004282	0.8
213564_x_at	LDHB	0.0005938	0.8
201708_s_at	NIPSNAP1	0.0010327	0.8
214146_s_at	PPBP	0.0005641	0.8

Probe set	Gene symbol	t-test p-value	Fold Change
235116_at	TRAF1	0.0008707	0.8
201892_s_at	IMPDH2	0.0008459	0.8
231828_at	LOC253039	0.0003287	0.8
224719_s_at	C12orf57	0.0004515	0.8
210097_s_at	NOL7	0.0001755	0.8
201528_at	RPA1	0.0001357	0.8
227580_s_at	DKFZP434B0335	0.000095	0.8
227722_at	RPS23	0.0002824	0.8
202813_at	TARBP1	0.0002002	0.8
225982_at	UBTF	0.0008263	0.8
210875_s_at	ZEB1	0.0006868	0.8
212573_at	ENDOD1	0.0002638	0.8
225909_at	tcag7.1196	0.0009585	0.8
1555981_at	C17orf65	0.0003467	0.8
224712_x_at	C19orf42	0.0005941	0.8
226413_at	LOC400027	0.00058	0.8
226482_s_at	hCG_20857	0.0001467	0.8
202168_at	TAF9	0.0007182	0.8
232488_at	AGXT2L2	0.0001802	0.8
220942_x_at	C3orf28	0.0000731	0.8
205988_at	CD84	0.0000674	0.8
234339_s_at	GLTSCR2	0.0001402	0.8
223247_at	MED10	0.000324	0.8
202519_at	MLXIP	0.0006749	0.8
202900_s_at	NUP88	0.0009941	0.8
205641_s_at	TRADD	0.0001908	0.8
224076_s_at	WHSC1L1	0.0002467	0.8
202500_at	DNAJB2	0.0010828	0.8
207023_x_at	KRT10	0.0001468	0.8
218117_at	RBX1	0.0008351	0.8
226713_at	CCDC50	0.0007541	0.8
217988_at	CCNB1IP1	0.00027	0.8
210749_x_at	DDR1	0.0011387	0.8
202165_at	PPP1R2	0.0000266	0.8
201259_s_at	SYPL1	0.0002077	0.8
213039_at	ARHGEF18	0.0001617	0.8
200622_x_at	CALM3	0.000726	0.8
205213_at	CENTB1	0.0002135	0.8
224735_at	CYBASC3	0.000113	0.8
213598_at	KIF2A	0.0006296	0.8
214369_s_at	RASGRP2	0.0000783	0.8
32836_at	AGPAT1	0.0011338	0.8
213539_at	CD3D	0.0009269	0.8
225507_at	SFRS18	0.0001168	0.8
223251_s_at	ANKRD10	0.0005274	0.8
219698_s_at	METTL4	0.001026	0.8
210336_x_at	MZF1	0.0009731	0.8
201577_at	NME1	0.0005111	0.8
203802_x_at	NSUN5	0.0002896	0.8
238480_at	C18orf50	0.0009206	0.8

Probe set	Gene symbol	t-test p-value	Fold Change
235276_at	EPSTI1	0.0002512	0.8
40446_at	PHF1	0.0000975	0.8
221216_s_at	SCMH1	0.0010672	0.8
201605_x_at	CNN2	0.0000194	0.8
210268_at	NFX1	0.0011277	0.8
202690_s_at	SNRPD1	0.0001355	0.8
223218_s_at	NFKBIZ	0.0002958	0.8
200972_at	TSPAN3	0.0001306	0.8
212018_s_at	RSL1D1	0.0001861	0.8
218316_at	TIMM9	0.0003441	0.8
225693_s_at	CAMTA1	0.0001269	0.8
203620_s_at	FCHSD2	0.0006741	0.8
218425_at	RNF216	0.0008699	0.8
1554661_s_at	C1orf71	0.000217	0.8
212739_s_at	NME4	0.0002692	0.8
217734_s_at	WDR6	0.0007753	0.8
203305_at	F13A1	0.000583	0.8
205353_s_at	PEBP1	0.0002514	0.8
226732_at	RBM33	0.000076	0.8
208804_s_at	SFRS6	0.0006092	0.8
202747_s_at	ITM2A	0.0009506	0.8
218253_s_at	LGTN	0.0001705	0.8
228566_at	P15RS	0.0005808	0.8
227146_at	QSOX2	0.0007573	0.8
221764_at	C19orf22	0.0002573	0.8
216305_s_at	C2orf3	0.000367	0.8
220755_s_at	C6orf48	0.0005597	0.8
233500_x_at	CLEC2D	0.000457	0.8
229050_s_at	SNHG7	0.000297	0.8
209670_at	TRAC	0.0000435	0.8
227751_at	PDCD5	0.0006716	0.8
222437_s_at	VPS24	0.000117	0.8
201623_s_at	DARS	0.0001284	0.8
1557966_x_at	MTERFD2	0.0001967	0.8
224610_at	SNHG1	0.0001599	0.8
221039_s_at	DDEF1	0.0002334	0.8
211105_s_at	NFATC1	0.0005048	0.8
206390_x_at	PF4	0.0000324	0.8
212386_at	TCF4	0.0005339	0.8
204192_at	CD37	0.0000817	0.8
204718_at	EPHB6	0.0002541	0.8
227560_at	SFXN2	0.000901	0.8
78383_at	TOPORS	0.0003969	0.8
219563_at	C14orf139	0.0010464	0.8
228298_at	FAM113B	0.0000574	0.8
214093_s_at	FUBP1	0.001186	0.8
229393_at	L3MBTL3	0.0005265	0.8
220609_at	LOC202181	0.0002329	0.8
218999_at	TMEM140	0.0002714	0.8
203725_at	GADD45A	0.000403	0.8

Probe set	Gene symbol	t-test p-value	Fold Change
225657_at	LOC152217	0.0007108	0.8
227852_at	RP9	0.0001159	0.8
219751_at	SETD6	0.0011632	0.8
217825_s_at	UBE2J1	0.0001844	0.8
227262_at	HAPLN3	0.0000636	0.8
213326_at	VAMP1	0.0000587	0.8
218096_at	AGPAT5	0.0002643	0.8
205047_s_at	ASNS	0.0005954	0.8
207777_s_at	SP140	0.000197	0.8
218885_s_at	GALNT12	0.0001627	0.8
206074_s_at	HMGA1	0.0000225	0.8
211138_s_at	KMO	0.0008258	0.8
223211_at	HACL1	0.0008948	0.8
230174_at	LYPLAL1	0.0001092	0.8
225912_at	TP53INP1	0.0001174	0.8
211727_s_at	COX11	0.00011	0.8
210988_s_at	PRUNE	0.0004059	0.8
222747_s_at	SCML1	0.0001358	0.8
225698_at	C5orf26	0.0002073	0.8
203543_s_at	KLF9	0.0009903	0.8
210379_s_at	TLK1	0.0007333	0.8
204352_at	TRAF5	0.0005293	0.8
215440_s_at	BEX4	0.0000389	0.8
202726_at	LIG1	0.0003138	0.8
202263_at	CYB5R1	0.001011	0.8
223423_at	GPR160	0.0001618	0.8
212998_x_at	HLA-DQB1	0.0002754	0.8
206181_at	SLAMF1	0.0010146	0.8
244804_at	SQSTM1	0.000542	0.8
227414_at	RHBDD1	0.00012	0.8
1569868_s_at	EME2	0.000125	0.8
202789_at	PLCG1	0.0000568	0.8
223266_at	ALS2CR2	0.0002952	0.8
224860_at	C9orf123	0.0007818	0.8
214157_at	GNAS	0.0005578	0.8
234710_s_at	PARP6	0.0002331	0.8
223471_at	RAB3IP	0.0011402	0.8
218919_at	ZFAND1	0.0003957	0.8
218312_s_at	ZSCAN18	0.0001828	0.8
224060_s_at	DPH5	0.0002357	0.8
205176_s_at	ITGB3BP	0.0006174	0.8
208403_x_at	MAX	0.0000128	0.8
214482_at	ZBTB25	0.0000848	0.8
1553719_s_at	ZNF548	0.0005807	0.8
224734_at	HMGB1	0.0000478	0.8
208637_x_at	ACTN1	0.0000802	0.8
226635_at	LOC401504	0.0003024	0.8
226475_at	FAM118A	0.0003586	0.8
202729_s_at	LTBP1	0.0006304	0.8
203685_at	BCL2	0.0006331	0.8

Probe set	Gene symbol	t-test p-value	Fold Change
207198_s_at	LIMS1	0.0000815	0.8
231990_at	USP15	0.0002778	0.8
218829_s_at	CHD7	0.0000639	0.8
226106_at	RNF141	0.0009361	0.8
223028_s_at	SNX9	0.0003608	0.8
212071_s_at	SPTBN1	0.0000388	0.8
222696_at	AXIN2	0.0001006	0.8
224693_at	C20orf108	0.000954	0.8
227450_at	ERP27	0.0000378	0.8
222423_at	NDFIP1	0.0001718	0.8
235780_at	PRKACB	0.0001284	0.8
209153_s_at	TCF3	0.0000747	0.8
219359_at	ATHL1	0.0001582	0.8
205101_at	CIITA	0.0000953	0.8
209729_at	GAS2L1	0.0006872	0.8
228238_at	GAS5	0.0004085	0.8
1557737_s_at	NKTR	0.0000796	0.8
242304_at	WIBG	0.0001801	0.8
235466_s_at	DISP1	0.0001443	0.8
203680_at	PRKAR2B	0.0006462	0.8
215111_s_at	TSC22D1	0.0000944	0.8
218012_at	TSPYL2	0.0003453	0.8
208601_s_at	TUBB1	0.0002662	0.8
228555_at	CAMK2D	0.0000957	0.8
225457_s_at	LOC25845	0.0006309	0.8
204081_at	NRGN	0.0000893	0.8
233458_at	POLR3E	0.0010918	0.8
203380_x_at	SFRS5	0.0000105	0.8
208406_s_at	GRAP2	0.0000545	0.8
200811_at	CIRBP	0.000005	0.8
213995_at	ATP5S	0.0000345	0.8
238472_at	FBXO9	0.0004071	0.8
232594_at	LOC440498	0.0001817	0.8
222785_x_at	C11orf1	0.0001897	0.8
226301_at	C6orf192	0.0003589	0.8
210743_s_at	CDC14A	0.0005133	0.8
217602_at	PPIA	0.0008802	0.8
228020_at	PTCD3	0.0000411	0.8
228702_at	FLJ43663	0.0003933	0.8
240344_x_at	LYRM7	0.0000293	0.8
215275_at	TRAF3IP3	0.0000031	0.8
221586_s_at	E2F5	0.0000555	0.8
201952_at	ALCAM	0.0002084	0.8
225397_at	CCDC32	0.0001345	0.8
206254_at	EGF	0.0003425	0.8
223494_at	MGEA5	0.0001557	0.8
217147_s_at	TRAT1	0.0001608	0.8
218918_at	MAN1C1	0.0008033	0.8
231775_at	TNFRSF10A	0.0005085	0.8
226838_at	TTC32	0.0000171	0.8

Probe set	Gene symbol	t-test p-value	Fold Change
215946_x_at	IGLL3	0.000542	0.8
208753_s_at	NAP1L1	0.0002025	0.8
212706_at	RASA4	0.0000393	0.8
200719_at	SKP1	0.0003958	0.8
228392_at	ZNF302	0.000298	0.8
213670_x_at	NSUN5B	0.0000156	0.8
207017_at	RAB27B	0.0002467	0.8
225143_at	SFXN4	0.0003845	0.8
221602_s_at	FAIM3	0.0000146	0.8
215332_s_at	CD8B	0.0001814	0.7
223809_at	RGS18	0.000058	0.7
238935_at	RPS27L	0.0000597	0.7
201559_s_at	CLIC4	0.0000584	0.7
223522_at	C9orf45	0.0007215	0.7
215492_x_at	PTCRA	0.0002676	0.7
230380_at	THAP2	0.0007976	0.7
232001_at	LOC439949	0.0000966	0.7
1555888_at	UBR5	0.0003619	0.7
218149_s_at	ZNF395	0.0000746	0.7
230489_at	CD5	0.0002639	0.7
215967_s_at	LY9	0.0000095	0.7
238929_at	SFRS2B	0.000057	0.7
221264_s_at	TARDBP	0.0000112	0.7
204773_at	IL11RA	0.0003965	0.7
204119_s_at	ADK	0.0005678	0.7
213502_x_at	LOC91316	0.0009718	0.7
204936_at	MAP4K2	0.0002875	0.7
205135_s_at	NUFIP1	0.0007968	0.7
226122_at	PLEKHG1	0.0007427	0.7
230656_s_at	CIRH1A	0.000016	0.7
227708_at	EEF1A1	0.0002196	0.7
223178_s_at	NT5DC1	0.0003442	0.7
219423_x_at	TNFRSF25	0.0009294	0.7
228630_at	ZNF84	0.0000792	0.7
227451_s_at	CCDC90A	0.0000164	0.7
238669_at	PTGS1	0.0004508	0.7
210357_s_at	SMOX	0.0008447	0.7
223231_at	TATDN1	0.0004751	0.7
228543_at	CSRP2BP	0.0004313	0.7
214933_at	CACNA1A	0.0003901	0.7
236841_at	FAM39DP	0.0004287	0.7
205005_s_at	NMT2	0.0000226	0.7
213460_x_at	NSUN5C	0.0000398	0.7
230509_at	SNX22	0.0000573	0.7
219228_at	ZNF331	0.0001125	0.7
211208_s_at	CASK	0.0007563	0.7
1554250_s_at	TRIM73	0.0000086	0.7
238860_at	C6orf130	0.0000508	0.7
230747_s_at	C18orf17	0.0006221	0.7
224634_at	GPATCH4	0.0010828	0.7

Probe set	Gene symbol	t-test p-value	Fold Change
210253_at	HTATIP2	0.0001577	0.7
214669_x_at	IGK@	0.0000489	0.7
239193_at	LOC158301	0.0001114	0.7
205053_at	PRIM1	0.0009094	0.7
213666_at	6-Sep	0.0002005	0.7
1557384_at	ZNF131	0.0001169	0.7
219915_s_at	SLC16A10	0.0006665	0.7
225220_at	SNHG8	0.0000983	0.7
210538_s_at	BIRC3	0.0001183	0.7
204761_at	USP6NL	0.0003967	0.7
235457_at	MAML2	0.0000139	0.7
209306_s_at	SWAP70	0.0002814	0.7
223298_s_at	NT5C3	0.0000076	0.7
203387_s_at	TBC1D4	0.0000595	0.7
202371_at	TCEAL4	0.0002119	0.7
226879_at	HVCN1	0.0000241	0.7
218640_s_at	PLEKHF2	0.0002246	0.7
214060_at	SSBP1	0.0001035	0.7
224027_at	CCL28	0.0001176	0.7
225237_s_at	MSI2	0.0001429	0.7
232141_at	U2AF1	0.0000423	0.7
219077_s_at	WWOX	0.0002858	0.7
1554522_at	CNNM2	0.000669	0.7
205659_at	HDAC9	0.0003592	0.7
214519_s_at	RLN2	0.0001703	0.7
226650_at	ZFAND2A	0.0000777	0.7
228259_s_at	EPB41L4A	0.0000471	0.7
209806_at	HIST1H2BK	0.0001732	0.7
1553842_at	CXorf20	0.0004353	0.7
201656_at	ITGA6	0.0002282	0.7
221790_s_at	LDLRAP1	0.0000259	0.7
204319_s_at	RGS10	0.0000366	0.7
222573_s_at	SAV1	0.0000087	0.7
208914_at	GGA2	0.0000538	0.7
239272_at	MMP28	0.0011502	0.7
206176_at	BMP6	0.0005119	0.7
225613_at	MAST4	0.0000042	0.7
200665_s_at	SPARC	0.0001201	0.7
218935_at	EHD3	0.000026	0.7
232392_at	SFRS3	0.0001147	0.7
209911_x_at	HIST1H2BD	0.0007177	0.7
228217_s_at	C6orf86	0.0000677	0.7
222858_s_at	DAPP1	0.0000047	0.7
217882_at	TMEM111	0.0000115	0.7
200965_s_at	ABLIM1	0.0000055	0.7
223936_s_at	FOXP1	0.0000351	0.7
229007_at	LOC283788	0.0007438	0.7
39248_at	AQP3	0.0000292	0.7
204115_at	GNG11	0.0001714	0.7
220007_at	METTL8	0.0011782	0.7

Probe set	Gene symbol	t-test p-value	Fold Change
217950_at	NOSIP	0.0000404	0.7
204466_s_at	SNCA	0.0000035	0.7
207078_at	MED6	0.0000083	0.7
225314_at	OCIAD2	0.000018	0.7
204019_s_at	SH3YL1	0.000001	0.7
214823_at	ZNF204	0.0002861	0.7
209765_at	ADAM19	0.0000689	0.7
222141_at	KLHL22	0.0008543	0.7
1558290_a_at	PVT1	0.0003513	0.7
226018_at	C7orf41	0.0000048	0.7
206693_at	IL7	0.0006767	0.7
201120_s_at	PGRMC1	0.0000133	0.7
215346_at	CD40	0.0000615	0.7
214252_s_at	CLN5	0.0008444	0.7
208791_at	CLU	0.0000598	0.7
212400_at	FAM102A	0.0000007	0.7
220485_s_at	SIRPG	0.0003245	0.7
229597_s_at	WDFY4	0.0000109	0.7
208501_at	GFI1B	0.0007462	0.7
214308_s_at	HGD	0.0003009	0.7
221989_at	RPL10	0.000025	0.7
222892_s_at	TMEM40	0.0002193	0.7
227088_at	PDE5A	0.0002973	0.7
209790_s_at	CASP6	0.0000128	0.7
215071_s_at	HIST1H2AC	0.0000073	0.7
1560741_at	SNRPN	0.0000036	0.7
222307_at	LOC282997	0.0000582	0.7
214081_at	PLXDC1	0.0003287	0.7
209321_s_at	ADCY3	0.0001676	0.7
205283_at	FKTN	0.0002946	0.7
206150_at	CD27	0.0000048	0.7
206414_s_at	DDEF2	0.0004237	0.7
226791_at	KIFC2	0.0000988	0.7
237746_at	SFRS11	0.0004652	0.7
203146_s_at	GABBR1	0.0000283	0.7
228109_at	RASGRF2	0.0010102	0.7
200790_at	ODC1	0.0000042	0.7
235662_at	CCDC104	0.0003	0.7
214039_s_at	LAPTM4B	0.0001569	0.7
235587_at	LOC202781	0.0000298	0.7
1556597_a_at	LOC284513	0.0010557	0.7
203123_s_at	SLC11A2	0.000348	0.7
218100_s_at	IFT57	0.0003654	0.7
227686_at	OXNAD1	0.0000039	0.7
212651_at	RHOBTB1	0.0011277	0.7
217235_x_at	RPL14	0.0000885	0.7
210987_x_at	TPM1	0.0005338	0.7
228568_at	Gcom1	0.0000044	0.7
208690_s_at	PDLIM1	0.0000017	0.7
224391_s_at	SIAE	0.0002248	0.7

Probe set	Gene symbol	t-test p-value	Fold Change
232311_at	B2M	0.0002119	0.7
201005_at	CD9	0.0000101	0.7
1559739_at	CHPT1	0.0007118	0.7
214805_at	EIF4A1	0.0000217	0.7
218711_s_at	SDPR	0.0000251	0.7
222030_at	SIVA1	0.0000759	0.7
227156_at	TNRC8	0.0000302	0.7
218510_x_at	FAM134B	0.0004711	0.7
226528_at	MTX3	0.0000052	0.7
227216_at	RLTPR	0.0000859	0.7
233543_s_at	CCDC98	0.0009681	0.7
208051_s_at	PAIP1	0.0003798	0.7
212675_s_at	CEP68	0.0001331	0.7
204993_at	GNAZ	0.0000066	0.7
226496_at	ZCCHC7	0.0000911	0.7
206337_at	CCR7	0.0000015	0.7
208149_x_at	DDX11	0.0000003	0.7
231721_at	JAM3	0.0009173	0.7
1557828_a_at	LOC646916	0.0001633	0.7
216207_x_at	IGKV1D-13	0.0000971	0.7
211355_x_at	LEPR	0.0009263	0.7
238365_s_at	MGC33556	0.0000166	0.7
213093_at	PRKCA	0.0000714	0.7
201689_s_at	TPD52	0.000122	0.7
231863_at	ING3	0.000979	0.7
1569392_at	GPSN2	0.0005326	0.7
228549_at	TMEM63A	0.0000335	0.7
240282_at	WDR1	0.0004879	0.7
223401_at	C17orf48	0.0000026	0.7
237180_at	PSME4	0.000061	0.7
227670_at	ZNF75A	0.0000222	0.7
242600_at	FRMD3	0.0000417	0.7
208523_x_at	HIST1H2BI	0.0000768	0.7
219724_s_at	KIAA0748	0.0003721	0.7
207339_s_at	LTB	0.0000006	0.7
201058_s_at	MYL9	0.0000746	0.7
232618_at	CYorf15A	0.0001211	0.7
210607_at	FLT3LG	0.0000059	0.7
230833_at	ACRBP	0.0000817	0.7
229307_at	ANKRD28	0.0000119	0.7
206857_s_at	FKBP1B	0.0010436	0.7
226419_s_at	FLJ44342	0.0000282	0.7
204805_s_at	H1FX	0.0001033	0.7
211643_x_at	HLA-C	0.000031	0.7
216956_s_at	ITGA2B	0.0003815	0.7
230942_at	CMTM5	0.000091	0.7
1559964_at	FLJ38717	0.0009535	0.7
1552634_a_at	ZNF101	0.0000516	0.7
204026_s_at	ZWINT	0.0002795	0.7
222528_s_at	SLC25A37	0.0000607	0.7

Probe set	Gene symbol	t-test p-value	Fold Change
1563498_s_at	SLC25A45	0.0000089	0.7
235526_at	SOX6	0.0000274	0.7
204793_at	GPRASP1	0.0002458	0.7
220936_s_at	H2AFJ	0.0006084	0.7
212966_at	HIC2	0.0001276	0.7
1562831_a_at	LOC283089	0.0000037	0.7
226152_at	TTC7B	0.0006786	0.7
241871_at	CAMK4	0.0003302	0.7
65585_at	FAM86B1	0.0001625	0.7
226452_at	PDK1	0.0000275	0.7
57588_at	SLC24A3	0.0006304	0.7
228999_at	CHD2	0.0000598	0.7
209398_at	HIST1H1C	0.0001705	0.7
206167_s_at	ARHGAP6	0.0003557	0.7
212311_at	KIAA0746	0.0000004	0.7
235594_at	SCYE1	0.0006413	0.7
223777_at	MGC13005	0.0000168	0.7
223565_at	MGC29506	0.0004739	0.7
1555476_at	IREB2	0.0003553	0.7
217080_s_at	HOMER2	0.0009331	0.7
227622_at	PCF11	0.0000039	0.7
336_at	TBXA2R	0.0002172	0.7
1570571_at	CCDC91	0.0000085	0.7
207156_at	HIST1H2AG	0.0005999	0.7
238071_at	LCN10	0.0000415	0.7
233198_at	LOC92497	0.0007924	0.7
225354_s_at	SH3BGRL2	0.0000046	0.7
235020_at	TAF4B	0.000067	0.7
215833_s_at	SPPL2B	0.0001203	0.7
1569136_at	MGAT4A	0.0010144	0.7
202555_s_at	MYLK	0.0000035	0.7
213534_s_at	PASK	0.0000298	0.7
1569484_s_at	MDN1	0.0002164	0.7
207815_at	PF4V1	0.0000528	0.7
233380_s_at	RUFY1	0.0000101	0.7
219551_at	EAF2	0.0000066	0.7
224367_at	BEX2	0.0000018	0.7
223946_at	MED23	0.000979	0.7
221756_at	PIK3IP1	0.0000219	0.7
212531_at	LCN2	0.0000337	0.7
218718_at	PDGFC	0.0000056	0.7
1555659_a_at	TREML1	0.00002	0.7
229778_at	C12orf39	0.0005	0.7
211272_s_at	DGKA	0.0000049	0.7
201539_s_at	FHL1	0.0000032	0.7
207124_s_at	GNB5	0.0000007	0.7
211856_x_at	CD28	0.0002584	0.7
210172_at	SF1	0.0011015	0.7
226258_at	AMN1	0.0000006	0.7
211639_x_at	ARPC1B	0.000372	0.7

Probe set	Gene symbol	t-test p-value	Fold Change
205376_at	INPP4B	0.0001104	0.7
240052_at	ITPR1	0.0003139	0.7
203865_s_at	ADARB1	0.0000001	0.7
236226_at	BTLA	0.0006974	0.7
1554306_at	ITPKB	0.0000826	0.7
240513_at	EIF3M	0.0002234	0.7
201313_at	ENO2	0.0000576	0.7
228003_at	RAB30	0.0002884	0.7
243213_at	STAT3	0.0006038	0.7
225775_at	TSPAN33	0.0000005	0.7
202431_s_at	MYC	0.0000001	0.7
227182_at	SUSD3	0.0000086	0.6
1565651_at	ARF1	0.0000135	0.6
232441_at	KRR1	0.0000015	0.6
215567_at	FCF1	0.000317	0.6
235010_at	LOC729013	0.0000065	0.6
219513_s_at	SH2D3A	0.0000118	0.6
228831_s_at	GNG7	0.0000014	0.6
243880_at	GOSR2	0.0002089	0.6
205861_at	SPIB	0.0000001	0.6
1554918_a_at	ABCC4	0.0010288	0.6
208527_x_at	HIST1H2BE	0.0000181	0.6
210493_s_at	MFAP3L	0.0001021	0.6
202708_s_at	HIST2H2BE	0.0000001	0.6
1559078_at	BCL11A	0.0001648	0.6
204440_at	CD83	0.000327	0.6
211798_x_at	IGLJ3	0.0001283	0.6
229253_at	THEM4	0.0000067	0.6
230285_at	SVIP	0.0000154	0.6
232436_at	ZNF274	0.0000034	0.6
232216_at	YME1L1	0.0000245	0.6
208022_s_at	CDC14B	0.0000014	0.6
202723_s_at	FOXO1	0.0000456	0.6
226433_at	RNF157	0.0000041	0.6
241844_x_at	TMEM156	0.0002469	0.6
206385_s_at	ANK3	0.0002097	0.6
209504_s_at	PLEKHB1	0.000017	0.6
214245_at	RPS14	0.0000663	0.6
206126_at	BLR1	0.0005654	0.6
218948_at	QRSL1	0.000175	0.6
206698_at	XK	0.0007618	0.6
227180_at	ELOVL7	0.0000395	0.6
242518_at	LOC729029	0.0001449	0.6
217963_s_at	NGFRAP1	0.0000013	0.6
227867_at	LOC129293	0.000012	0.6
217148_x_at	IGLV2-14	0.0000125	0.6
203413_at	NELL2	0.0000005	0.6
222557_at	STMN3	0.0000003	0.6
205254_x_at	TCF7	0.0000088	0.6
220496_at	CLEC1B	0.0000002	0.6

Probe set	Gene symbol	t-test p-value	Fold Change
1570585_at	MPZL3	0.0000348	0.6
201502_s_at	NFKBIA	0.0000215	0.6
208195_at	TTN	0.0005197	0.6
232148_at	NSMAF	0.0009202	0.6
227406_at	GABPB2	< 1E-07	0.6
226611_s_at	PRR6	0.0000477	0.6
206110_at	HIST1H3H	0.0000018	0.6
226878_at	HLA-DOA	< 1E-07	0.6
204612_at	PKIA	0.0000116	0.6
217979_at	TSPAN13	0.0000002	0.6
210948_s_at	LEF1	0.0000079	0.6
207808_s_at	PROS1	0.0000549	0.6
213338_at	TMEM158	0.0000072	0.6
211998_at	H3F3B	0.0000002	0.6
209301_at	CA2	0.0000025	0.6
215047_at	TRIM58	0.0000018	0.6
225369_at	ESAM	0.0000012	0.6
227829_at	GYLTL1B	0.0000149	0.6
217506_at	LOC400642	0.0000183	0.6
215850_s_at	NDUFA5	0.0005927	0.6
205878_at	POU6F1	0.0000008	0.6
221211_s_at	C21orf7	0.0000046	0.6
219871_at	FLJ13197	0.0000015	0.6
203233_at	IL4R	0.0000002	0.6
244786_at	SNHG10	0.0006968	0.6
215176_x_at	NTN2L	0.000032	0.6
1560396_at	KLHL6	0.0004894	0.6
1559993_at	SFXN3	0.000034	0.6
1553099_at	TIGD1	0.000004	0.6
227641_at	FBXL16	0.0000001	0.6
205259_at	NR3C2	0.0000299	0.6
230609_at	CLINT1	0.0001998	0.6
242146_at	SNRPA1	0.0000001	0.6
223754_at	MGC13057	0.0000077	0.6
219864_s_at	RCAN3	0.0000524	0.6
204069_at	MEIS1	0.0000064	0.6
205297_s_at	CD79B	0.0000014	0.6
217281_x_at	IL8	0.0000171	0.6
227412_at	PPP1R3E	0.0000025	0.6
1557557_at	MATN1	0.0000418	0.6
230123_at	NECAP2	0.0000347	0.6
211637_x_at	LOC652128	0.0000374	0.6
204838_s_at	MLH3	0.0000032	0.6
220418_at	UBASH3A	0.0002174	0.6
205544_s_at	CR2	0.0000082	0.6
215240_at	ITGB3	0.0002315	0.6
228377_at	KLHL14	0.0005956	0.6
209840_s_at	LRRN3	0.0000048	0.6
244523_at	MMD	0.0000007	0.6
228047_at	SNORA72	0.0000595	0.6

Probe set	Gene symbol	t-test p-value	Fold Change
240456_at	ANKRD55	0.0007165	0.6
215779_s_at	HIST1H2BG	0.0000033	0.6
241425_at	NUPL1	0.0000089	0.6
227189_at	CPNE5	0.0000019	0.6
219471_at	C13orf18	0.0000068	0.6
211478_s_at	DPP4	0.0005945	0.6
222830_at	GRHL1	0.0006022	0.6
202468_s_at	CTNNAL1	0.0000168	0.6
215101_s_at	CXCL5	0.0000198	0.6
215214_at	IGL@	0.0002867	0.6
223681_s_at	INADL	0.0000295	0.6
1569872_a_at	LOC650392	0.0002495	0.6
202016_at	MEST	0.0000012	0.6
233019_at	CNOT7	0.0000029	0.6
208546_x_at	HIST1H2BH	0.0000074	0.6
1562731_s_at	MDS2	0.0000002	0.6
1560703_at	NOS2A	0.0000274	0.6
208490_x_at	HIST1H2BF	0.0000049	0.6
224533_s_at	IFI6	0.0001181	0.6
242201_at	PMS2L5	0.0000004	0.6
219630_at	PDZK1IP1	0.0001298	0.6
227198_at	AFF3	0.0000009	0.6
211635_x_at	IGHV1-69	0.0002476	0.6
207655_s_at	BLNK	0.0000017	0.6
238633_at	EPC1	0.0000204	0.6
214074_s_at	CTTN	0.0000612	0.6
1560274_at	WTAP	0.000005	0.6
205511_at	FLJ10038	0.0000915	0.6
214469_at	HIST1H2AE	0.0002062	0.6
236193_at	HIST1H2BC	0.0000186	0.6
203819_s_at	IGF2BP3	0.0000528	0.5
204419_x_at	HBG2	0.0009827	0.5
232483_at	MED17	0.0000767	0.5
210448_s_at	P2RX5	0.0000001	0.5
204777_s_at	MAL	0.0000016	0.5
215925_s_at	CD72	0.0000554	0.5
212225_at	EIF1	0.0000054	0.5
1568815_a_at	DDX50	0.0000001	0.5
230529_at	HECA	0.0000003	0.5
1559399_s_at	ZCCHC10	0.0000007	0.5
232204_at	EBF1	0.0000257	0.5
232529_at	SP3	0.0000007	0.5
230983_at	FAM129C	< 1E-07	0.5
241762_at	FBXO32	0.0006157	0.5
1568665_at	RNF103	0.0000515	0.5
212077_at	CALD1	0.0007256	0.5
212827_at	IGHM	< 1E-07	0.5
214414_x_at	HBA2	0.0009378	0.5
219410_at	TMEM45A	0.0009479	0.5
205049_s_at	CD79A	0.0000001	0.5

Probe set	Gene symbol	t-test p-value	Fold Change
228381_at	ATF7IP2	< 1E-07	0.5
220059_at	STAP1	0.0000103	0.5
203939_at	NT5E	0.0000003	0.5
236796_at	BACH2	0.0000057	0.5
238738_at	PSMD7	0.0000011	0.5
202732_at	PKIG	0.0000001	0.5
208268_at	ADAM28	0.0000184	0.5
1559975_at	BTG1	< 1E-07	0.5
229513_at	STRBP	0.0000002	0.5
205267_at	POU2AF1	< 1E-07	0.5
219667_s_at	BANK1	0.0000012	0.5
208180_s_at	HIST1H4H	0.0000019	0.5
1554036_at	ZBTB24	0.0000037	0.5
226150_at	PPAPDC1B	0.0000006	0.5
224406_s_at	FCRL5	0.0000019	0.5
225081_s_at	CDCA7L	< 1E-07	0.5
222044_at	C20orf67	0.0009192	0.5
225207_at	PDK4	0.0000012	0.5
241819_at	TNFSF8	0.00004	0.5
206207_at	CLC	0.0004776	0.5
235400_at	FCRLA	0.0000005	0.5
211745_x_at	HBA1	0.0005579	0.5
208650_s_at	CD24	0.0000031	0.5
219073_s_at	OSBPL10	< 1E-07	0.5
204004_at	PAWR	0.0000126	0.5
1556062_at	RPP30	0.0000145	0.5
219983_at	HRASLS	0.0000683	0.5
1555882_at	SPIN3	0.0000975	0.4
219737_s_at	PCDH9	0.0000005	0.4
39318_at	TCL1A	< 1E-07	0.4
231418_at	MS4A1	0.0000018	0.4
223751_x_at	TLR10	0.0001992	0.4
220338_at	RALGPS2	0.000022	0.4
206398_s_at	CD19	0.0000025	0.4
241843_at	SNORA28	0.0000031	0.4
204581_at	CD22	0.0000001	0.4
221239_s_at	FCRL2	0.0000003	0.4
209116_x_at	HBB	0.000672	0.4
235982_at	FCRL1	0.000001	0.4
205671_s_at	HLA-DOB	< 1E-07	0.4
235278_at	MACROD2	0.0000037	0.4
230245_s_at	LOC283663	0.0000003	0.4
220068_at	VPREB3	0.0000004	0.4
209583_s_at	CD200	0.0000235	0.4
206759_at	FCER2	0.0000146	0.4
206478_at	KIAA0125	0.0000166	0.4
206255_at	BLK	0.0000003	0.4
213674_x_at	IGHD	< 1E-07	0.4
229070_at	C6orf105	0.0000128	0.4
1565716_at	FUS	0.0000094	0.2

Supplementary Table S3- Thirteen pathways altered by exercise, in late pubertal boys, classified by Kegg

Natural killer cell mediated cytotoxicity (27 genes)

Affy ID	Gene Name	Gene Symbol	t-test p-value	FC
213475_s_at	integrin, alpha l (antigen cd11a (p180), lymphocyte function-associated antigen 1; alpha polypeptide)	ITGAL	0.0011185	1.2
204007_at	fc fragment of igg, low affinity iiib, receptor (cd16b)	FCGR3B	6e-007	1.6
1552263_at	mitogen-activated protein kinase 1	MAPK1	3.9e-006	1.5
213093_at	protein kinase c, alpha	PRKCA	7.14e-005	0.7
1553681_a_at	perforin 1 (pore forming protein)	PRF1	3e-007	2.1
210164_at	granzyme b (granzyme 2, cytotoxic t-lymphocyte-associated serine esterase 1)	GZMB	< 1E-07	2.3
207723_s_at	killer cell lectin-like receptor subfamily c, member 3	KLRC3	2.1e-006	1.7
211333_s_at	fas ligand (tnf superfamily, member 6)	FASLG	< 1E-07	4.2
220307_at	cd244 natural killer cell receptor 2b4	CD244	1.39e-005	1.5
210031_at	cd3z antigen, zeta polypeptide (tit3 complex)	CD247	3e-007	1.5
210763_x_at	natural cytotoxicity triggering receptor 3	NCR3	0.0005172	1.4
1559101_at	fyn oncogene related to src, fgr, yes	FYN	4.72e-005	1.5
206247_at	mhc class i polypeptide-related sequence b	MICB	1.29e-005	1.3
208426_x_at	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 4	KIR2DL4	0.0003046	1.7
208179_x_at	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 3	KIR2DL3	< 1E-07	3.1
207314_x_at	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2	KIR3DL2	< 1E-07	3.7
1553176_at	sh2 domain containing 1b	SH2D1B	1e-007	3.0
1555691_a_at	killer cell lectin-like receptor subfamily c, member 4	KLRK1	0.0002103	1.3
211105_s_at	nuclear factor of activated t-cells, cytoplasmic, calcineurin-dependent 1	NFATC1	0.0005048	0.8
206369_s_at	phosphoinositide-3-kinase, catalytic, gamma polypeptide	PIK3CG	0.0005373	1.2
211250_s_at	sh3-domain binding protein 2	SH3BP2	0.0002851	1.3
226991_at	nuclear factor of activated t-cells, cytoplasmic, calcineurin-dependent 2	NFATC2	0.0001061	1.4
202789_at	phospholipase c, gamma 1	PLCG1	5.68e-005	0.8
210606_x_at	killer cell lectin-like receptor subfamily d, member 1	KLRD1	3.2e-006	1.9
211687_x_at	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 1	KIR3DL1	< 1E-07	2.9

231775_at	tumor necrosis factor receptor superfamily, member 10a	TNFRSF10A	0.0005085	0.8
207860_at	natural cytotoxicity triggering receptor 1	NCR1	1.69e-005	1.6

Hematopoietic cell lineage (21 genes)

Affy ID	Gene Name	Gene Symbol	t-test p-value	FC
205692_s_at	cd38 antigen (p45)	CD38	2.7e-005	1.8
208650_s_at	cd24 antigen (small cell lung carcinoma cluster 4 antigen)	CD24	3.1e-006	0.5
204773_at	interleukin 11 receptor, alpha	IL11RA	0.0003965	0.7
215332_s_at	cd8 antigen, beta polypeptide 1 (p37)	CD8B	0.0001814	0.7
230489_at	cd5 antigen (p56-62)	CD5	0.0002639	0.7
213539_at	cd3d antigen, delta polypeptide (tit3 complex)	CD3D	0.0009269	0.8
216956_s_at	integrin, alpha 2b (platelet glycoprotein iib of iib/iiia complex, antigen cd41)	ITGA2B	0.0003815	0.7
204581_at	cd22 antigen	CD22	1e-007	0.4
201656_at	integrin, alpha 6	ITGA6	0.0002282	0.7
201005_at	cd9 antigen (p24)	CD9	1.01e-005	0.7
206398_s_at	cd19 antigen	CD19	2.5e-006	0.4
215240_at	integrin, beta 3 (platelet glycoprotein iiia, antigen cd61)	ITGB3	0.0002315	0.6
203233_at	interleukin 4 receptor	IL4R	2e-007	0.6
206693_at	interleukin 7	IL7	0.0006767	0.7
210607_at	fms-related tyrosine kinase 3 ligand	FLT3LG	5.9e-006	0.7
231418_at	membrane-spanning 4-domains, subfamily a, member 1	MS4A1	1.8e-006	0.4
206759_at	fc fragment of ige, low affinity ii, receptor for (cd23a)	FCER2	1.46e-005	0.4
214551_s_at	cd7 antigen (p41)	CD7	9.55e-005	1.3
204192_at	cd37 antigen	CD37	8.17e-005	0.8
205786_s_at	integrin, alpha m (complement component 3 receptor 3 subunit)	ITGAM	0.0003086	1.2
205544_s_at	complement component (3d/epstein barr virus) receptor 2	CR2	8.2e-006	0.6

Antigen processing and presentation (16 genes)

Affy ID	Gene Name	Gene Symbol	t-test p-value	FC
208426_x_at	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 4	KIR2DL4	0.0003046	1.7
215332_s_at	cd8 antigen, beta polypeptide 1 (p37)	CD8B	0.0001814	0.7
208179_x_at	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 3	KIR2DL3	< 1E-07	3.1
207314_x_at	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2	KIR3DL2	< 1E-07	3.7
1555691_a_at	killer cell lectin-like receptor subfamily c, member 4	KLRK1	0.0002103	1.3

221978_at	major histocompatibility complex, class i, f	HLA-F	0.0001198	1.4
205671_s_at	major histocompatibility complex, class ii, do beta	HLA-DOB	< 1E-07	0.4
207723_s_at	killer cell lectin-like receptor subfamily c, member 3	KLRC3	2.1e-006	1.7
202307_s_at	transporter 1, atp-binding cassette, sub-family b (mdr/tap)	TAP1	0.0008533	1.2
200799_at	heat shock 70kda protein 1a	HSPA1A	0.0000042	1.5
210606_x_at	killer cell lectin-like receptor subfamily d, member 1	KLRD1	3.2e-006	1.9
211687_x_at	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 1	KIR3DL1	< 1E-07	2.9
226878_at	major histocompatibility complex, class ii, do alpha	HLA-DOA	< 1E-07	0.6
212998_x_at	major histocompatibility complex, class ii, dq beta 1	HLA-DQB1	0.0002754	0.8
232311_at	beta-2-microglobulin	B2M	0.0002119	0.7
205101_at	class ii, major histocompatibility complex, transactivator	CIITA	9.53e-005	0.8

Cell adhesion molecules (CAMs) (20 genes)

Affy ID	Gene Name	Gene Symbol	t-test p-value	FC
211856_x_at	cd28 antigen (tp44)	CD28	0.0002584	0.7
215332_s_at	cd8 antigen, beta polypeptide 1 (p37)	CD8B	0.0001814	0.7
213475_s_at	integrin, alpha l (antigen cd11a (p180), lymphocyte function-associated antigen 1; alpha polypeptide)	ITGAL	0.0011185	1.2
201952_at	activated leukocyte cell adhesion molecule	ALCAM	0.0002084	0.8
221978_at	major histocompatibility complex, class i, f	HLA-F	0.0001198	1.4
205671_s_at	major histocompatibility complex, class ii, do beta	HLA-DOB	< 1E-07	0.4
204581_at	cd22 antigen	CD22	1e-007	0.4
201656_at	integrin, alpha 6	ITGA6	0.0002282	0.7
227394_at	neural cell adhesion molecule 1	NCAM1	7.4e-005	2.7
209879_at	selectin p ligand	SELPLG	0.0011604	1.2
215346_at	cd40 antigen (tnf receptor superfamily member 5)	CD40	6.15e-005	0.7
204581_at	myelin associated glycoprotein	CD22	1e-007	0.4
202351_at	integrin, alpha v (vitronectin receptor, alpha polypeptide, antigen cd51)	ITGAV	0.0003276	1.3
212998_x_at	major histocompatibility complex, class ii, dq beta 1	HLA-DQB1	0.0002754	0.8
226878_at	major histocompatibility complex, class ii, do alpha	HLA-DOA	< 1E-07	0.6
205786_s_at	integrin, alpha m (complement component 3 receptor 3 subunit)	ITGAM	0.0003086	1.2
226482_s_at	f11 receptor	hCG_20857	0.0001467	0.8

231721_at	junctional adhesion molecule 3	JAM3	0.0009173	0.7
225369_at	huel (c4orf1)-interacting protein	ESAM	1.2e-006	0.6
1568964_x_at	sialophorin (gpl115, leukosialin, cd43)	SPN	3e-007	1.4

Cytokine-cytokine receptor interaction (31 genes)

Affy ID	Gene Name	Gene Symbol	t-test p-value	FC
204773_at	interleukin 11 receptor, alpha	IL11RA	0.0003965	0.7
224027_at	chemokine (c-c motif) ligand 28	CCL28	0.0001176	0.7
206618_at	interleukin 18 receptor 1	IL18R1	9.25e-005	1.8
241819_at	tumor necrosis factor (ligand) superfamily, member 8	TNFSF8	4e-005	0.5
211355_x_at	leptin receptor	LEPR	0.0009263	0.7
211333_s_at	fas ligand (tnf superfamily, member 6)	FASLG	< 1E-07	4.2
206126_at	burkitt lymphoma receptor 1, gtp binding protein (chemokine (c-x-c motif) receptor 5)	BLR1	0.0005654	0.6
215346_at	cd40 antigen (tnf receptor superfamily member 5)	CD40	6.15e-005	0.7
206150_at	tumor necrosis factor receptor superfamily, member 7	CD27	4.8e-006	0.7
219423_x_at	tumor necrosis factor receptor superfamily, member 25	TNFRSF25	0.0009294	0.7
206366_x_at	chemokine (c motif) ligand 2	XCL2	4.8e-006	1.9
206390_x_at	platelet factor 4 (chemokine (c-x-c motif) ligand 4)	PF4	3.24e-005	0.8
218718_at	spinal cord-derived growth factor; secretory growth factor-like protein fallotein	PDGFC	5.6e-006	0.7
207643_s_at	tumor necrosis factor receptor superfamily, member 1a	TNFRSF1A	3.24e-005	1.4
204103_at	chemokine (c-c motif) ligand 4	CCL4	2.6e-006	2.1
207815_at	platelet factor 4 variant 1	PF4V1	5.28e-005	0.7
215101_s_at	chemokine (c-x-c motif) ligand 5	CXCL5	1.98e-005	0.6
206999_at	interleukin 12 receptor, beta 2	IL12RB2	3.2e-006	2.0
206254_at	epidermal growth factor (beta-urogastrone)	EGF	0.0003425	0.8
207339_s_at	lymphotoxin beta (tnf superfamily, member 3)	LTB	6e-007	0.7
207008_at	interleukin 8 receptor, beta	IL8RB	8.68e-005	1.5
207072_at	interleukin 18 receptor accessory protein	IL18RAP	2.6e-006	1.9
206337_at	chemokine (c-c motif) receptor 7	CCR7	1.5e-006	0.7
205291_at	interleukin 2 receptor, beta	IL2RB	4e-007	1.8
203233_at	interleukin 4 receptor	IL4R	2e-007	0.6
206693_at	interleukin 7	IL7	0.0006767	0.7
214146_s_at	pro-platelet basic protein (chemokine (c-x-c motif) ligand 7)	PPBP	0.0005641	0.8
210607_at	fms-related tyrosine kinase 3 ligand	FLT3LG	0.0000059	0.7
206943_at	transforming growth factor, beta receptor i (activin a receptor type ii-like kinase, 53kda)	TGFBR1	0.0000376	1.5

231775_at	tumor necrosis factor receptor superfamily, member 10a	TNFRSF10A	0.0005085	0.8
205898_at	chemokine (c-x3-c motif) receptor 1	CX3CR1	0.0000034	1.8

B cell receptor signaling pathway (12 genes)

Affy ID	Gene Name	Gene Symbol	t-test p-value	FC
226991_at	nuclear factor of activated t-cells, cytoplasmic, calcineurin-dependent 2	NFATC2	0.0001061	1.4
207655_s_at	b-cell linker	BLNK	0.0000017	0.6
205049_s_at	cd79a antigen (immunoglobulin-associated alpha)	CD79A	0.0000001	0.5
215925_s_at	cd72 antigen	CD72	0.0000554	0.5
1562368_at	caspase recruitment domain family, member 11	CARD11	0.000567	1.6
211105_s_at	nuclear factor of activated t-cells, cytoplasmic, calcineurin-dependent 1	NFATC1	0.0005048	0.8
204581_at	cd22 antigen	CD22	0.0000001	0.4
206369_s_at	phosphoinositide-3-kinase, catalytic, gamma polypeptide	PIK3CG	0.0005373	1.2
201502_s_at	nuclear factor of kappa light polypeptide gene enhancer in b-cells inhibitor, alpha	NFKBIA	0.0000215	0.6
205544_s_at	complement component (3d/epstein barr virus) receptor 2	CR2	0.0000082	0.6
205297_s_at	cd79b antigen (immunoglobulin-associated beta)	CD79B	0.0000014	0.6
206398_s_at	cd19 antigen	CD19	0.0000025	0.4

Glycan structures - biosynthesis 1 (17 genes)

Affy ID	Gene Name	Gene Symbol	t-test p-value	FC
218918_at	mannosidase, alpha, class 1c, member 1	MAN1C1	0.0008033	0.8
208116_s_at	mannosidase, alpha, class 1a, member 1	MAN1A1	0.0005561	1.4
221485_at	udp-gal:betaglcnac beta 1,4-galactosyltransferase, polypeptide 5	B4GALT5	0.0000221	1.4
210540_s_at	udp-gal:betaglcnac beta 1,4-galactosyltransferase, polypeptide 4	B4GALT4	0.0000155	1.4
226372_at	carbohydrate (chondroitin 4) sulfotransferase 11	CHST11	0.0000011	1.6
217788_s_at	udp-n-acetyl-alpha-d-galactosamine:polypeptide n-acetylgalactosaminyltransferase 2 (galnac-t2)	GALNT2	0.0006708	1.2
200046_at	defender against cell death 1	DAD1	0.0011852	0.9
1569136_at	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-n-acetylglucosaminyltransferase, isozyme a	MGAT4A	0.0010144	0.7
219326_s_at	udp-glcnac:betagal beta-1,3-n-acetylglucosaminyltransferase 1	B3GNT2	0.0007756	1.3

225621_at	asparagine-linked glycosylation 2 homolog (yeast, alpha-1,3-mannosyltransferase)	ALG2	0.0000501	1.3
218885_s_at	udp-n-acetyl-alpha-d-galactosamine:polypeptide n-acetylgalactosaminyltransferase 12 (galnac-t12)	GALNT12	0.0001627	0.8
203397_s_at	udp-n-acetyl-alpha-d-galactosamine:polypeptide n-acetylgalactosaminyltransferase 3 (galnac-t3)	GALNT3	0.000014	1.6
222235_s_at	chondroitin sulfate galnact-2	GALNACT-2	0.0000682	1.3
203921_at	carbohydrate (n-acetylglucosamine-6-o) sulfotransferase 2	CHST2	< 1E-07	1.9
238551_at	fucosyltransferase 11 (alpha (1,3) fucosyltransferase)	FUT11	0.0000331	1.5
222786_at	carbohydrate (chondroitin 4) sulfotransferase 12	CHST12	0.000001	1.7
225263_at	heparan sulfate 6-o-sulfotransferase 1	HS6ST1	0.0009186	1.2

T cell receptor signaling pathway (14 genes)

Affy ID	Gene Name	Gene Symbol	t-test p-value	FC
211856_x_at	cd28 antigen (tp44)	CD28	0.0002584	0.7
215332_s_at	cd8 antigen, beta polypeptide 1 (p37)	CD8B	0.0001814	0.7
209682_at	cas-br-m (murine) ecotropic retroviral transforming sequence b	CBLB	0.0000653	1.3
226452_at	pyruvate dehydrogenase kinase, isozyme 1	PDK1	0.0000275	0.7
213539_at	cd3d antigen, delta polypeptide (tit3 complex)	CD3D	0.0009269	0.8
211105_s_at	nuclear factor of activated t-cells, cytoplasmic, calcineurin-dependent 1	NFATC1	0.0005048	0.8
206369_s_at	phosphoinositide-3-kinase, catalytic, gamma polypeptide	PIK3CG	0.0005373	1.2
201502_s_at	nuclear factor of kappa light polypeptide gene enhancer in b-cells inhibitor, alpha	NFKBIA	0.0000215	0.6
226991_at	nuclear factor of activated t-cells, cytoplasmic, calcineurin-dependent 2	NFATC2	0.0001061	1.4
208406_s_at	grb2-related adaptor protein 2	GRAP2	0.0000545	0.8
210031_at	cd3z antigen, zeta polypeptide (tit3 complex)	CD247	0.0000003	1.5
202789_at	phospholipase c, gamma 1	PLCG1	0.0000568	0.8
1559101_at	fyn oncogene related to src, fgr, yes	FYN	0.0000472	1.5
1562368_at	caspase recruitment domain family, member 11	CARD11	0.000567	1.6

Apoptosis (13 genes)

Affy ID	Gene Name	Gene Symbol	t-test p-value	FC

210538_s_at	baculoviral iap repeat-containing 3	BIRC3	0.0001183	0.7
203685_at	b-cell cll/lymphoma 2	BCL2	0.0006331	0.8
206369_s_at	phosphoinositide-3-kinase, catalytic, gamma polypeptide	PIK3CG	0.0005373	1.2
201502_s_at	nuclear factor of kappa light polypeptide gene enhancer in b-cells inhibitor, alpha	NFKBIA	0.0000215	0.6
211333_s_at	fas ligand (tnf superfamily, member 6)	FASLG	< 1E-07	4.2
209790_s_at	caspase 6, apoptosis-related cysteine peptidase	CASP6	0.0000128	0.7
205641_s_at	tnfrsf1a-associated via death domain	TRADD	0.0001908	0.8
203680_at	protein kinase, camp-dependent, regulatory, type ii, beta	PRKAR2B	0.0006462	0.8
207643_s_at	tumor necrosis factor receptor superfamily, member 1a	TNFRSF1A	0.0000324	1.4
205467_at	caspase 10, apoptosis-related cysteine peptidase	CASP10	0.0000213	1.4
231775_at	tumor necrosis factor receptor superfamily, member 10a	TNFRSF10A	0.0005085	0.8
235780_at	protein kinase, camp-dependent, catalytic, beta	PRKACB	0.0001284	0.8
239629_at	casp8 and fadd-like apoptosis regulator	CFLAR	0.0001626	1.4

Type I diabetes mellitus (8 genes)

Affy ID	Gene Name	Gene Symbol	t-test p-value	FC
211856_x_at	cd28 antigen (tp44)	CD28	0.0002584	0.7
1553681_a_at	perforin 1 (pore forming protein)	PRF1	0.0000003	2.1
205671_s_at	major histocompatibility complex, class ii, do beta	HLA-DOB	< 1E-07	0.4
210164_at	granzyme b (granzyme 2, cytotoxic t-lymphocyte-associated serine esterase 1)	GZMB	< 1E-07	2.3
221978_at	major histocompatibility complex, class i, f	HLA-F	0.0001198	1.4
212998_x_at	major histocompatibility complex, class ii, dq beta 1	HLA-DQB1	0.0002754	0.8
226878_at	major histocompatibility complex, class ii, do alpha	HLA-DOA	< 1E-07	0.6
211333_s_at	fas ligand (tnf superfamily, member 6)	FASLG	< 1E-07	4.2

Prostate cancer (13 genes)

Affy ID	Gene Name	Gene Symbol	t-test p-value	FC
210948_s_at	lymphoid enhancer-binding factor 1	LEF1	0.0000079	0.6
1552263_at	mitogen-activated protein kinase 1	MAPK1	0.0000039	1.5
203685_at	b-cell cll/lymphoma 2	BCL2	0.0006331	0.8
205016_at	transforming growth factor, alpha	TGFA	0.0000996	1.4
200779_at	activating transcription factor 4 (tax-responsive enhancer element b67)	ATF4	0.0008771	0.8
206369_s_at	phosphoinositide-3-kinase, catalytic, gamma polypeptide	PIK3CG	0.0005373	1.2

201502_s_at	nuclear factor of kappa light polypeptide gene enhancer in b-cells inhibitor, alpha	NFKBIA	0.0000215	0.6
206254_at	epidermal growth factor (beta-urogastrone)	EGF	0.0003425	0.8
202723_s_at	forkhead box o1a (rhabdomyosarcoma)	FOXO1	0.0000456	0.6
219304_s_at	platelet derived growth factor d	PDGFD	0.0000025	2.8
216836_s_at	v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)	ERBB2	0.000007	1.9
218718_at	spinal cord-derived growth factor; secretory growth factor-like protein fallotein	PDGFC	0.0000056	0.7
205254_x_at	transcription factor 7 (t-cell specific, hmg-box)	TCF7	0.0000088	0.6

Calcium signaling pathway (21 genes)

Affy ID	Gene Name	Gene Symbol	t-test p-value	FC
205692_s_at	cd38 antigen (p45)	CD38	0.000027	1.8
1554306_at	inositol 1,4,5-trisphosphate 3-kinase b	ITPKB	0.0000826	0.7
209321_s_at	adenylate cyclase 3	ADCY3	0.0001676	0.7
203989_x_at	coagulation factor ii (thrombin) receptor	F2R	0.0000559	1.4
213093_at	protein kinase c, alpha	PRKCA	0.0000714	0.7
204497_at	adenylate cyclase 9	ADCY9	0.0006261	1.4
240052_at	inositol 1,4,5-triphosphate receptor, type 1	ITPR1	0.0003139	0.7
336_at	thromboxane a2 receptor	TBXA2R	0.0002172	0.7
210448_s_at	purinergic receptor p2x, ligand-gated ion channel, 5	P2RX5	0.0000001	0.5
216836_s_at	v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)	ERBB2	0.000007	1.9
202789_at	phospholipase c, gamma 1	PLCG1	0.0000568	0.8
214157_at	gnas complex locus	GNAS	0.0005578	0.8
205410_s_at	atpase, ca++ transporting, plasma membrane 4	ATP2B4	0.0001709	1.5
228555_at	calcium/calmodulin-dependent protein kinase (cam kinase) ii delta	CAMK2D	0.0000957	0.8
214933_at	calcium channel, voltage-dependent, p/q type, alpha 1a subunit	CACNA1A	0.0003901	0.7
241871_at	calcium/calmodulin-dependent protein kinase iv	CAMK4	0.0003302	0.7
235780_at	protein kinase, camp-dependent, catalytic, beta	PRKACB	0.0001284	0.8
200622_x_at	calmodulin 1 (phosphorylase kinase, delta)	CALM3	0.000726	0.8
207522_s_at	atpase, ca++ transporting, ubiquitous	ATP2A3	0.0008972	0.8
202555_s_at	myosin, light polypeptide kinase	MYLK	0.0000035	0.7

206170_at	adrenergic, beta-2-, receptor, surface	ADRB2	0.0000005	2.4

Adherens junction (11 genes)

Affy ID	Gene Name	Gene Symbol	t-test p-value	FC
200601_at	actinin, alpha 4	ACTN4	0.0005128	1.2
202933_s_at	v-yes-1 yamaguchi sarcoma viral oncogene homolog 1	YES1	0.0000023	2.2
216836_s_at	v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)	ERBB2	0.000007	1.9
210948_s_at	lymphoid enhancer-binding factor 1	LEF1	0.0000079	0.6
1552263_at	mitogen-activated protein kinase 1	MAPK1	0.0000039	1.5
1559101_at	fyn oncogene related to src, fgr, yes	FYN	0.0000472	1.5
208637_x_at	actinin, alpha 1	ACTN1	0.0000802	0.8
224813_at	wiskott-aldrich syndrome-like	WASL	0.0002249	1.2
206943_at	transforming growth factor, beta receptor i (activin a receptor type ii-like kinase, 53kda)	TGFBR1	0.0000376	1.5
205254_x_at	transcription factor 7 (t-cell specific, hmg-box)	TCF7	0.0000088	0.6
213446_s_at	iq motif containing gtpase activating protein 1	IQGAP1	0.0001124	1.2