

MEMORY B CELL, PLASMA CELL, PLASMABLAST, CPG, TLR-9

Functionally Distinct Subpopulations of CpG-Activated Memory B Cells

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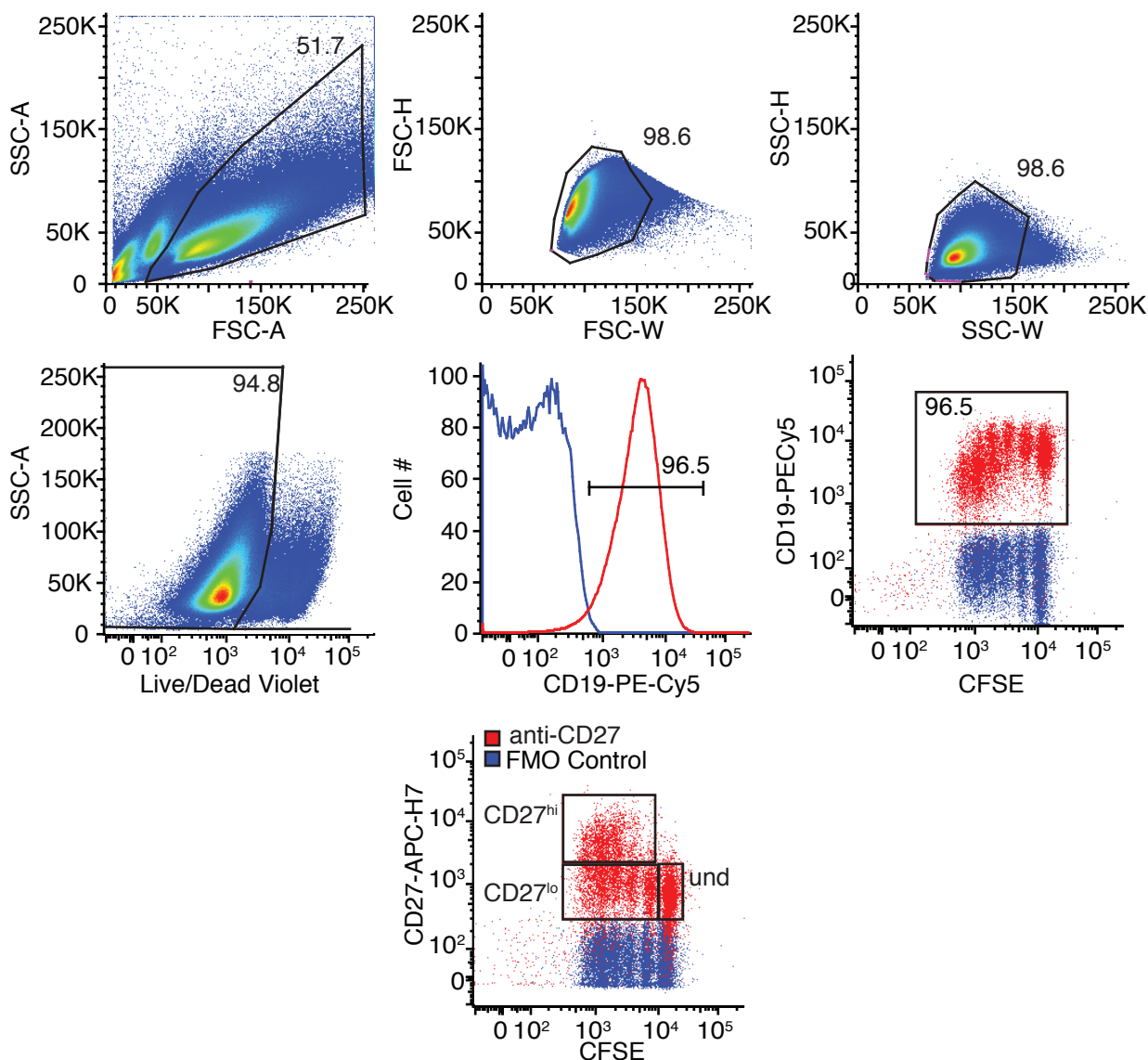
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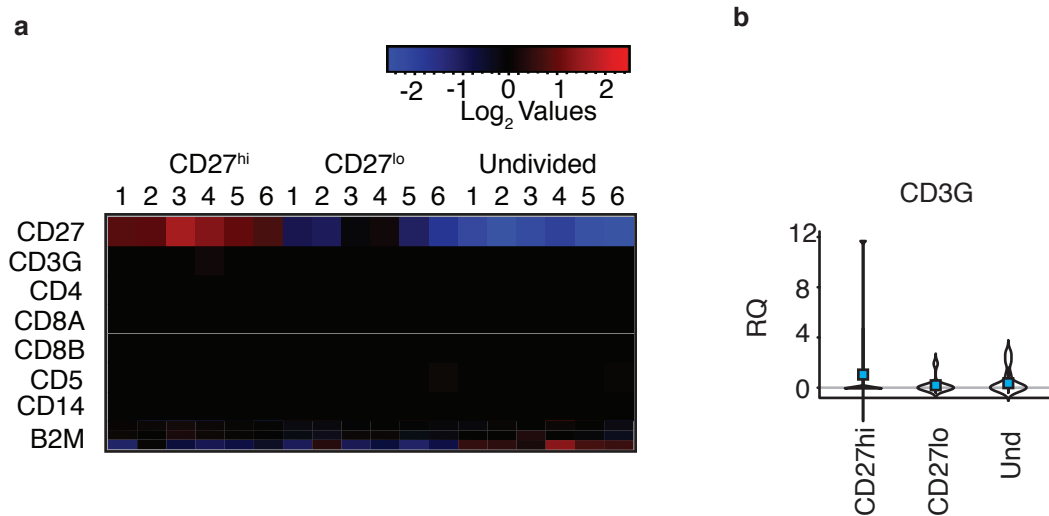


Supplementary Figure 1 FACS-sort gating

Normal human memory B cells were CFSE-stained and cultured with CpG ODN, IL-2, IL-10, IL-15 and BAFF for 96 hours. The cells were stained with Live/Dead Violet, anti-CD19-PE-Cy5 and anti-CD27-APC-H7. The above strategy was used for FACS-sorting, first performing doublet exclusion, then gating on CD19⁺ cells, and finally sorting cells into three populations based upon CD27 expression and CFSE staining: Undivided, CD27^{hi} proliferating, and CD27^{lo} proliferating cells. Greater than 95% of cells were typically found to be CD19⁺. While CD19 levels decreased with proliferation, this did not affect the sorted subpopulations.

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Supplementary Figure S2: Relative Expression Levels of Control Genes.

(a) Gene expression data (row normalized) from Affymetrix gene arrays of human memory B cells FACS-sorted based on anti-CD27 and CFSE staining show expected levels of CD27 expression (n=6 subjects in 3 separate experiments). Little evidence is seen of mRNA for markers of T cells, naive B cells or monocytic cell types. (b) Lack of expression of the T cell marker CD3 was confirmed by qRT-PCR (n=10 subjects, including 6 used for gene array). The square indicates the median RQ value. Cq values were normalized to total RNA content using 18S RNA and re-normalized to the mean of 4 control genes. A paired t-test was used to compare qRT-PCR data. Data sets containing negative (zero) values were analyzed with an independent t-test. One CD27^{hi} sample did show a high RQ value, but this was not seen in the gene array data of the same sample, neither in gene array nor qRT-PCR data from the other cell subsets from the same sample and so was deemed spurious.

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Supplementary Table S1: Significantly Differentially Expressed Genes CD27hi:CD27lo

At 96 hours of stimulation with CpG plus a combination of cytokines (IL-2, IL-10, IL-15; CpG + CK), CD19+ human mBc were sorted by CD27 expression and a CFSE-stain for proliferation. Gene expression of three sorted cells was analyzed with Affymetrix U133 human microarrays. Using a paired SAM analysis at an FDR=0.03, 2,771 probe sets (2,033 genes) were significantly different between CD27hi and CD27lo proliferating human mBc.

Affymetrix ID	Gene Symbol	mean CD27hi/ mean CD27lo	Fold-change	d value	standard	Unadjusted p	q value
200907 s at	PALLD	0.025298099	-39.52866123	6.361369574	0.724349554	0.001445166	0.023060626
39318 at	TCL1A	0.028677791	-34.87018915	13.94901862	0.341495513	6.54323E-05	0.018862319
1553369 at	FAM129C	0.034214414	-29.22744743	9.535678376	0.471661596	0.000332009	0.019573215
209995 s at	TCL1A	0.037361671	-26.76539805	9.981437817	0.438179398	0.000278693	0.019573215
202191 s at	GAS7	0.038678549	-25.85412422	6.869104984	0.594045776	0.001113158	0.021908757
203386 at	TBC1D4	0.049897282	-20.0411717	10.13694306	0.405981143	0.000256883	0.019497752
223836 at	FGFBP2	0.058563909	-17.07536295	5.673398471	0.589935387	0.002111607	0.024827305
200906 s at	PALLD	0.063311108	-15.79501658	6.363655199	0.545796498	0.001442743	0.023044962
215925 s at	CD72	0.064641468	-15.46994561	16.57439979	0.229362711	3.23123E-05	0.018783212
204897 at	PTGER4	0.073109869	-13.67804394	13.6270651	0.269785532	7.35104E-05	0.018862319
227198 at	AFF3	0.073721455	-13.5645722	11.58862122	0.313663564	0.000148636	0.018862319
230110 at	MCOLN2	0.076402267	-13.08861689	22.13714471	0.163581162	8.07807E-06	0.016554695
234284 at	GNG8	0.076684948	-13.0403688	6.666415924	0.51294118	0.001222211	0.022121632
226264 at	SUSD1	0.079607786	-12.56158539	12.17188837	0.287350919	0.000115516	0.018862319
207861 at	CCL22	0.087555379	-11.42134277	12.37900411	0.291234372	0.000107438	0.018862319
230983 at	FAM129C	0.088407823	-11.31121615	20.33852324	0.171428675	1.45405E-05	0.017274465
205790 at	SKAP1	0.088719921	-11.27142571	12.20803949	0.27748149	0.000112285	0.018862319
235085 at	PRAGMIN	0.093068158	-10.74481345	8.902535529	0.360569747	0.000440255	0.01973829
204440 at	CD83	0.093644976	-10.67862941	12.69121039	0.2787847	0.000101784	0.018862319
227336 at	DTX1	0.100606028	-9.939762229	8.650713364	0.340846335	0.000497609	0.019976615
239287 at		0.104199528	-9.596972481	10.25561655	0.309137394	0.000239919	0.019346271
209959 at	NR4A3	0.105121611	-9.512791837	5.129105886	0.586901097	0.002914566	0.027075857
241791 at	TTN	0.106069603	-9.427771655	7.637132832	0.391270246	0.000799729	0.021235971
1554966 a at	FILIP1L	0.106200947	-9.416111852	11.72798319	0.265166933	0.000135712	0.018862319
206337 at	CCR7	0.107232206	-9.325556514	9.571661492	0.339531486	0.000327969	0.019573215
228055 at	NAPSB	0.110781962	-9.026740301	13.21763019	0.246135577	8.32041E-05	0.018862319
212560 at	SORL1	0.111848311	-8.940680362	12.24069692	0.26476102	0.00011067	0.018862319
203881 s at	DMD	0.112905884	-8.856934345	8.830464267	0.336812434	0.000456411	0.019754342
228532 at	Clorf162	0.115801424	-8.635472383	5.535665365	0.497802385	0.002286093	0.025337906
221234 s at	BACH2	0.116727246	-8.566980187	7.743670217	0.360520211	0.000766609	0.020997277
236796 at	BACH2	0.118446606	-8.44262266	5.721712325	0.46221847	0.002046174	0.024725551
205681 at	BCL2A1	0.12155975	-8.226407201	24.03211597	0.123499015	4.84684E-06	0.016554695
205505 at	GCNT1	0.12176318	-8.212663323	8.167558586	0.344056604	0.000625242	0.020660046
203233 at	IL4R	0.122572361	-8.158446088	13.8481467	0.210229796	6.7048E-05	0.018862319
228056 s at	NAPSB	0.123701491	-8.08397695	22.7281044	0.132084269	6.46245E-06	0.016554695
238480 at	TTC39C	0.124909139	-8.005819336	10.55486504	0.279340708	0.000206799	0.018999481
213293 s at	TRIM22	0.125267877	-7.982892548	10.89518283	0.272117134	0.000182564	0.018991681
1554413 s at		0.127808289	-7.824218648	20.70427701	0.141289146	1.13093E-05	0.016554695
205859 at	LY86	0.129791472	-7.704666441	9.819080154	0.317113703	0.000299696	0.019573215
212190 at	SERPINE2	0.13269395	-7.536138633	6.93899965	0.392090137	0.001090539	0.021858627
206126 at	CXCR5	0.133403224	-7.496070708	9.58634273	0.292178072	0.000326354	0.019573215
236198 at		0.134027422	-7.461159675	8.58125388	0.346104547	0.000515381	0.019976615
210279 at	GPR18	0.134330103	-7.444347771	9.080586619	0.332136503	0.000400672	0.019641818
226818 at	MPEG1	0.134423855	-7.439155771	8.575397243	0.332474902	0.000517804	0.019976615
224499 s at	AICDA	0.136327385	-7.335283355	15.47691324	0.185815832	4.6045E-05	0.018783212
1553196 a at	FCRL3	0.143161965	-6.985095534	5.831845147	0.425897021	0.001924195	0.024416894
225269 s at	RBMS1	0.143698234	-6.959027764	16.10845376	0.169950627	3.79669E-05	0.018783212
1552307 a at	TTC39C	0.146275812	-6.836400264	12.50562043	0.221324767	0.000105015	0.018862319
210925 at	CHIITA	0.146691918	-6.817008128	8.218868051	0.320850316	0.000616356	0.020639269
226841 at	MPEG1	0.148725535	-6.723794938	13.37374523	0.203521879	7.91651E-05	0.018862319
205735 s at	AFF3	0.148875197	-6.7170356	6.513248434	0.382824157	0.00132965	0.022650896
228153 at	RNF144B	0.150649792	-6.637911568	5.61600062	0.488852766	0.00218754	0.025002853
204135 at	FILIP1L	0.155164423	-6.444776322	11.46280454	0.224279011	0.000154291	0.018878161
210105 s at	FYN	0.155165014	-6.444751796	7.622049795	0.33428289	0.000805383	0.021235971
219517 at		0.156612483	-6.385187067	11.58973738	0.233634876	0.000147829	0.018862319
215127 s at	RBMS1	0.157230453	-6.360091086	6.17502474	0.416437513	0.00158007	0.0236013

222920	s at	KIAA0748	0.158196292	-6.321260695	5.635897164	0.427609813	0.002161691	0.024925047
219841	at	AICDA	0.160618594	-6.225929239	13.97640617	0.189742516	6.46245E-05	0.018862319
228617	at	XAF1	0.163958565	-6.099101947	9.331773873	0.28573441	0.000367552	0.0196267
1557994	at	TTN	0.165265753	-6.050860414	7.752401615	0.343855381	0.000763377	0.02097076
237444	at		0.166527461	-6.005015603	10.08824131	0.254219522	0.000260114	0.019532158
235574	at	GBP4	0.168123044	-5.948024596	8.213732496	0.297746492	0.000619588	0.020646567
205249	at	EGR2	0.171089199	-5.844904328	9.277960834	0.289979575	0.000373207	0.019641818
208438	s at	FGR	0.171137961	-5.843238956	6.42817126	0.37365029	0.00138862	0.022751145
206115	at	EGR3	0.171199538	-5.841137259	8.258260211	0.327563432	0.000605047	0.020494986
244741	s at		0.171266756	-5.838844747	5.970945632	0.384062622	0.001770712	0.023911127
204352	at	TRAF5	0.173309763	-5.770015384	8.749290441	0.295496308	0.000473375	0.019947051
215051	x at	AIF1	0.173866758	-5.751530721	8.344998588	0.294649456	0.000574351	0.020372818
205861	at	SPIB	0.174789769	-5.721158657	9.634414078	0.246097232	0.000321507	0.019573215
204959	at	MNDA	0.179466077	-5.572083683	7.755754268	0.279519416	0.000761762	0.02097076
219836	at	ZBED2	0.180095837	-5.552599212	7.917745874	0.309294738	0.000706831	0.020928903
1557797	a at		0.180392116	-5.543479521	18.39027064	0.129200515	2.34264E-05	0.02273212
209198	s at	SYT11	0.180831531	-5.530009028	6.359817762	0.384309431	0.00144759	0.023063817
206693	at	IL7	0.181380732	-5.513264775	9.853316494	0.244411585	0.000295657	0.019573215
220674	at	CD22	0.183709146	-5.443387138	7.771034972	0.328118392	0.000753684	0.020928903
226034	at		0.187637452	-5.329426464	12.88678054	0.184614838	9.69368E-05	0.018862319
227844	at	FMNL3	0.19446936	-5.142198235	8.199022079	0.264286093	0.000620396	0.020646567
1570552	at	C18orf50	0.194771664	-5.134217071	14.37351668	0.166374384	5.49309E-05	0.018862319
218113	at	TMEM2	0.19548818	-5.115398787	5.224079456	0.464346404	0.002746543	0.026625338
200934	at	DEK	0.196885174	-5.079102608	11.43167206	0.197659024	0.000157522	0.018878161
205306	x at	KMO	0.198179567	-5.045928883	6.609399827	0.309678282	0.0012521	0.022296703
1566427	at		0.199296715	-5.017644167	6.003731122	0.334547485	0.001735169	0.023911127
229453	at		0.199349523	-5.016314993	5.034354393	0.428759781	0.003107632	0.027672662
204083	s at	TPM2	0.201421867	-4.964704257	9.809836015	0.229825879	0.00030212	0.019573215
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203603	s at	ZEB2	0.204075264	-4.90015291	7.625361006	0.290353841	0.000803768	0.021235971
226879	at	HVCN1	0.208575064	-4.794436986	8.596082825	0.264930765	0.000510534	0.019976615
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229383	at	39141	0.210765839	-4.744601892	7.785344052	0.303966537	0.000749645	0.020928903
204014	at	DUSP4	0.211225263	-4.734282183	9.067193914	0.265064979	0.000404711	0.019641818
209682	at	CBLB	0.211849684	-4.720328033	6.721210054	0.310251624	0.001195554	0.022053059
228974	at		0.214263086	-4.667159507	5.14392976	0.362558676	0.00288387	0.027026221
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203408	s at	SATB1	0.21753268	-4.597010425	5.584552774	0.390949944	0.002223084	0.0251134
1557719	at	PIKFYVE	0.220188125	-4.541570982	8.097853515	0.265224993	0.000639783	0.02066734
209771	x at	CD24	0.220711817	-4.530795011	5.714461264	0.347679407	0.002056676	0.024725551
226497	s at	FLT1	0.220985346	-4.525186937	4.785501356	0.422410838	0.003677136	0.029162915
225800	at	JAZF1	0.222138739	-4.501691161	9.41069909	0.226642872	0.000360282	0.019620379
232739	at	SPIB	0.222350894	-4.497395898	9.26596324	0.232067495	0.00037563	0.019641818
225798	at	JAZF1	0.223440744	-4.475459497	5.73255451	0.342068671	0.002031634	0.024665319
208651	x at	CD24	0.223519615	-4.473880294	7.141071696	0.275891015	0.000996833	0.021571799
215933	s at	HHEX	0.226731405	-4.410505018	5.12350657	0.483563933	0.002923452	0.027096989
203932	at	HLA-DMB	0.232824103	-4.295087957	6.828103401	0.303028716	0.001134968	0.021927983
219213	at	JAM2	0.235676591	-4.243102786	4.827491917	0.36917121	0.00357616	0.028918494
238569	at	GABBR1	0.236565919	-4.227151593	6.79046351	0.313159939	0.001155971	0.022007113
209318	x at	PLAGL1	0.237939987	-4.202740408	5.057608505	0.406727363	0.003051086	0.027540199
242899	at		0.239752138	-4.170974266	15.72487145	0.134969349	4.11981E-05	0.018783212
218284	at	SMAD3	0.239856121	-4.169166064	9.561418087	0.215589787	0.000330393	0.019573215
1558742	at		0.240152923	-4.164013451	15.72307364	0.133002752	4.20059E-05	0.018783212
208086	s at	DMD	0.240180834	-4.16352955	5.021655893	0.370830705	0.003132674	0.02776778
229584	at	LRRK2	0.242330351	-4.126598238	16.74658899	0.12138171	3.06976E-05	0.018783212
203865	s at	ADARB1	0.242712893	-4.120094275	6.536313149	0.291232737	0.001314301	0.022558199
1569095	at	LOC731424	0.24300287	-4.115177729	4.674102329	0.372847424	0.003966331	0.029834902
223343	at	MS4A7	0.244710064	-4.086468628	7.00753718	0.268145566	0.001059842	0.021777307
223287	s at	FOXP1	0.246377231	-4.058816626	10.81246747	0.181965654	0.000188219	0.018999481
229344	x at	RIMKB	0.246515334	-4.056542788	10.49430355	0.183478573	0.000213261	0.018999481
232249	at	FMNL3	0.247109091	-4.046795665	11.5755636	0.169771988	0.000149444	0.018862319
220358	at	BATF3	0.249463679	-4.00859958	14.02977471	0.145165649	6.38167E-05	0.018862319
201302	at	ANXA4	0.251114654	-3.982244692	6.958990447	0.300184103	0.001080037	0.02180653
233261	at	EBF1	0.251423105	-3.977359197	6.733346357	0.288764807	0.001187476	0.02203797
1552386	at	GAPT	0.252067557	-3.967190423	5.737439171	0.395424005	0.002027595	0.024640687
216379	x at	CD24	0.25219377	-3.965205002	5.150931199	0.347329283	0.002870137	0.027004704
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211138	s at	KMO	0.25891001	-3.862345833	6.483101401	0.302819715	0.001347421	0.022718964
205379	at	CBR3	0.259514338	-3.853351638	7.045981003	0.288724926	0.001037224	0.021777307
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221563	at	DUSP10	0.26060616	-3.837207834	7.149164532	0.263402114	0.000993602	0.021570207
205101	at	CHTA	0.263295245	-3.798017698	19.97226434	0.097829617	1.53483E-05	0.017274465
1554519	at	CD80	0.264148302	-3.785752141	10.84805593	0.181414839	0.00018418	0.018999481
225978	at	RIMKLB	0.264648299	-3.778599767	5.387951481	0.342280935	0.002484813	0.025861982
239012	at	RNF144B	0.265876879	-3.761139384	9.894151183	0.190873665	0.000290003	0.019573215
232485	at	RUNDC2A	0.266866379	-3.747193642	7.262173354	0.257890935	0.000943518	0.021561303
228826	at		0.267947463	-3.732074899	5.607683421	0.338080744	0.002201273	0.025043106
215501	s at	DUSP10	0.269360051	-3.712503012	5.244281933	0.354186958	0.002713423	0.02651744
211105	s at	NFATC1	0.270594699	-3.695563889	5.487737594	0.332979147	0.00234587	0.02545865
226147	s at	PIGR	0.270599638	-3.695496443	8.346205711	0.215657567	0.000572735	0.020372818
218986	s at	DDX60	0.271263667	-3.686450199	6.982646343	0.254099724	0.001069536	0.021777307
214574	x at	LST1	0.271721626	-3.68023707	8.980789632	0.199444563	0.000423291	0.01973829
215921	at		0.272277963	-3.672717352	19.12388847	0.094705122	1.85796E-05	0.017274465
205611	at	TNFSF12	0.27362187	-3.654678627	12.34408959	0.155037342	0.000109054	0.018862319
213111	at	PIKFYVE	0.274712844	-3.640164706	5.712313187	0.350960668	0.002061523	0.024725551
228812	at		0.277341947	-3.605657241	10.56210762	0.171046362	0.000205183	0.018999481
219518	s at		0.277645592	-3.601713944	6.421607605	0.278452106	0.001396698	0.022770937
235385	at	39141	0.277764212	-3.600175826	15.50669628	0.122446619	4.44294E-05	0.018783212
202270	at	GBP1	0.277773081	-3.600060877	8.010261929	0.227318816	0.000672903	0.020874397
213095	x at	AIF1	0.277912605	-3.598253488	7.045006234	0.237544895	0.001039647	0.021777307
217422	s at	CD22	0.279426209	-3.578762362	7.347055208	0.260295288	0.000907975	0.021431567
235242	at		0.28177552	-3.548924337	9.265793374	0.183977653	0.000376438	0.019641818
204627	s at	ITGB3	0.282790917	-3.536181472	7.44721286	0.248204276	0.000867584	0.021383976
214181	x at	LST1	0.283520578	-3.527080845	40.73583076	0.0442381	8.07807E-07	0.016554695
223834	at	CD274	0.28425243	-3.517999827	8.390438178	0.215839199	0.000560618	0.020326287
239486	at		0.284511442	-3.514797131	10.36322768	0.1687383	0.000226186	0.019132885
206035	at	REL	0.285997777	-3.496530672	10.50825968	0.16349008	0.000211645	0.018999481
223422	s at	ARHGAP24	0.286097148	-3.495316217	13.66443889	0.135165059	7.18948E-05	0.018862319
230345	at	SEMA7A	0.28650682	-3.490318309	8.780042683	0.212603404	0.000466104	0.018958751
204249	s at	LMO2	0.286972614	-3.484653071	9.525884993	0.199993786	0.000334432	0.019573215
235458	at	HAVCR2	0.287383149	-3.479675143	5.519735931	0.339269859	0.002306288	0.025359629
211962	s at	ZFP36L1	0.290366323	-3.44392555	8.21906769	0.208766768	0.000615549	0.020639269
204581	at	CD22	0.290856346	-3.43812337	5.808042616	0.315099888	0.001954084	0.021473037
204689	at	HHEX	0.292600171	-3.417632998	6.545532585	0.292874568	0.001307031	0.022546715
205153	s at	CD40	0.294836097	-3.39171496	9.323507763	0.19968961	0.000369168	0.0196267
210164	at	GZMB	0.294881863	-3.391188563	4.649535526	0.327038642	0.00403661	0.030069958
213618	at	ARAP2	0.297671501	-3.359407929	11.11212079	0.158145606	0.000168832	0.018919652
218032	at	SNN	0.298731885	-3.347483314	8.954231453	0.193721587	0.000428138	0.01973829
203509	at	SORL1	0.298992284	-3.344567911	6.136190512	0.277988824	0.001619652	0.023691766
235683	at	SESN3	0.299188406	-3.342375504	5.860739484	0.341018379	0.00189673	0.02429188
231247	s at	LOC727820	0.299895061	-3.334499735	8.016550548	0.214837944	0.000669672	0.020874397
211597	s at	HOPX	0.303653599	-3.293226235	13.19778252	0.131825196	8.48197E-05	0.018862319
203186	s at	SI00A4	0.304299405	-3.286237118	9.061987935	0.201034182	0.000405519	0.019641818
38521	at	CD22	0.304301982	-3.286209286	6.783257852	0.258271211	0.001159203	0.022007113
209496	at	RARRES2	0.305359567	-3.274827808	5.308368045	0.298063099	0.00261487	0.02628798
218076	s at	ARHGAP17	0.306265803	-3.265137631	8.66158797	0.193910721	0.00049357	0.019976615
219574	at	39141	0.306510542	-3.262530526	6.058263777	0.315832332	0.001689124	0.023850562
206114	at	EPHA4	0.307364514	-3.253466011	5.107372887	0.360086205	0.002960611	0.027195409
226757	at	IFIT2	0.308769957	-3.238657058	10.31851945	0.163059838	0.000231841	0.019302641
230747	s at	TTC39C	0.308875078	-3.237554828	6.885607283	0.230248282	0.001109119	0.021887217
1552807	a at		0.309141864	-3.234760854	9.700320708	0.172510761	0.000311813	0.019573215
216615	s at	HTR3A	0.309181853	-3.234342471	6.246883785	0.250672515	0.0015211	0.023382268
206133	at	XAF1	0.310862914	-3.216852042	7.298877861	0.22105211	0.000924939	0.021539916
224428	s at	CDCA7	0.311170792	-3.21366923	6.673952667	0.243080887	0.001218172	0.022107111
214933	at	CACNA1A	0.31197022	-3.205434155	5.577690227	0.309204258	0.002231162	0.0251134
205613	at	SYT17	0.31232142	-3.201829706	6.411221999	0.245628753	0.00140316	0.02281686
214452	at	BCAT1	0.312623749	-3.198733315	10.95744683	0.154242675	0.000179333	0.018919652
225285	at	BCAT1	0.312996965	-3.194919158	6.586880519	0.283081685	0.001269872	0.022328269
244561	at		0.3133185	-3.191640452	5.083580804	0.325081233	0.003003425	0.027367878
203010	at	STAT5A	0.313802403	-3.186718748	7.017167285	0.232242011	0.001052572	0.021777307
221011	s at	LBH	0.314014565	-3.184565664	13.77937627	0.120476055	6.94714E-05	0.018862319
228762	at	LFNG	0.315722644	-3.16733696	10.25386507	0.16794876	0.000240726	0.0219346271
202269	x at	GBP1	0.316901539	-3.155554257	8.061525315	0.211483592	0.000650284	0.020796193
207339	s at	LTB	0.317876418	-3.145876651	7.398462022	0.231452144	0.000886164	0.021431567
211582	x at	LST1	0.317926192	-3.145384135	9.134370331	0.169339865	0.000392594	0.019641818
1566428	at		0.318368047	-3.141018735	12.77074989	0.122648995	0.000100168	0.018862319

212561	at	DENND5A	0.318431628	-3.140391574	7.103655583	0.240379091	0.001012182	0.021615457
224735	at	CYBASC3	0.318744157	-3.137312411	9.161178035	0.175182021	0.000389363	0.019641818
204137	at	GPR137B	0.318961578	-3.13517385	4.945693896	0.316297234	0.003298275	0.028214779
244335	at		0.319908352	-3.125895257	9.276460776	0.168205185	0.000374014	0.019641818
205398	s at	SMAD3	0.324264609	-3.083901152	8.040097936	0.201954711	0.000658362	0.020814532
209795	at	CD69	0.324451257	-3.082127063	6.998441256	0.23851438	0.001061458	0.021777307
231577	s at	GBP1	0.325482443	-3.07236234	7.9216154	0.202311163	0.000706023	0.020928903
238432	at	FLJ35776	0.325578669	-3.071454293	12.04685902	0.132823531	0.000122787	0.020982319
211474	s at	SERPINB6	0.32567656	-3.07053108	7.909996458	0.204067938	0.000710062	0.020928903
35150	at	CD40	0.326296561	-3.064696723	8.150785356	0.197369701	0.000628474	0.02066047
211965	at	ZFP36L1	0.328866875	-3.040744069	7.095842943	0.220704241	0.001017029	0.021615457
212268	at	SERPINB1	0.329260979	-3.037104498	8.890188476	0.177507009	0.00044187	0.01973829
218312	s at	ZSCAN18	0.329554912	-3.034395675	5.525387972	0.268035839	0.002302249	0.025359629
202748	at	GBP2	0.331745034	-3.014363136	6.776277885	0.235995459	0.001166473	0.022007113
227458	at		0.337323848	-2.964510239	5.386454022	0.256479033	0.002486429	0.025863566
235150	at		0.337932446	-2.959171312	5.171961062	0.306418919	0.002834594	0.0218862319
210943	s at	LYST	0.338210011	-2.956742758	7.943481265	0.205711253	0.000700368	0.020928903
204866	at	PHF16	0.340431651	-2.937447202	6.415638997	0.241442828	0.001398313	0.022774211
240718	at	LRMP	0.340503944	-2.936823547	5.164781112	0.29729437	0.002845903	0.026974909
226269	at	GDAP1	0.34271546	-2.917872455	7.851818318	0.198614815	0.00072541	0.020928903
231929	at	IKZF2	0.343555406	-2.910738657	7.576143693	0.20407188	0.000820732	0.021257734
214390	s at	BCAT1	0.34410767	-2.906067161	6.367483044	0.265517601	0.00143628	0.023044962
226878	at	HLA-DOA	0.344310069	-2.904358865	7.296794678	0.207900437	0.000927362	0.021561303
232556	at		0.344413304	-2.903488303	6.125758117	0.281698071	0.001630154	0.021272996
215630	at		0.344487667	-2.902861544	4.833031937	0.287775799	0.003556773	0.028878892
231042	s at		0.34458105	-2.902074856	5.911431788	0.250176452	0.001839376	0.024143147
201324	at	EMP1	0.344633713	-2.901631391	13.5728558	0.118844289	7.5126E-05	0.018862319
219670	at	BEND5	0.345112271	-2.897607776	5.645552361	0.303891282	0.002151997	0.024925047
217696	at	FU17	0.345218767	-2.896713901	9.286623649	0.174277035	0.000371591	0.0196267
201850	at	CAPG	0.346679711	-2.884506845	8.456184814	0.181140076	0.000543654	0.020074432
224403	at	FCRL4	0.347242898	-2.879828518	6.907914198	0.202504435	0.001100233	0.021869539
205128	x at	PTGS1	0.347623823	-2.876672807	4.723029248	0.469814278	0.003842736	0.029447722
201259	s at	SYPL1	0.347972083	-2.873793756	6.93933187	0.224244326	0.001088923	0.021856738
214508	x at	CREM	0.34918818	-2.863785366	5.16672412	0.274410379	0.002843479	0.026965538
215415	s at	LYST	0.351329015	-2.846334795	17.36634613	0.088317195	2.66576E-05	0.018783212
204174	at	ALOX5AP	0.353184204	-2.831383709	6.751206137	0.224236122	0.00117859	0.022022852
210347	s at	BCL11A	0.353461435	-2.829162958	6.326000162	0.241135676	0.001461322	0.023107595
203146	s at	GABBR1	0.353480757	-2.829008311	10.84010952	0.135398832	0.000185796	0.018999481
218338	at	PHC1	0.353514811	-2.828735797	9.491439865	0.155579484	0.000340894	0.019620379
226164	x at	RIMKLB	0.353750896	-2.826847966	6.192931933	0.237869173	0.001567145	0.023518082
211751	at	PDE4DIP	0.354338707	-2.822158515	10.17733756	0.150961782	0.000252843	0.02468818
214022	s at	IFITM1	0.355328847	-2.814294448	8.3389103	0.187823224	0.000576774	0.020372818
230509	at	SNX22	0.359916513	-2.778422115	8.630618349	0.168301412	0.000501648	0.019976615
208206	s at	RASGRP2	0.360395088	-2.774732599	12.93089971	0.116126592	9.53212E-05	0.018862319
210360	s at	MTSS1	0.360595515	-2.773190345	7.474221546	0.211072388	0.000857891	0.021383976
202796	at	SYNPO	0.362820953	-2.756180403	7.172587565	0.221429638	0.000982293	0.021570207
235684	s at	SESN3	0.362962279	-2.755107234	6.994798694	0.216569506	0.001063074	0.021777307
202388	at	RGS2	0.365455524	-2.73631108	6.073675471	0.243656907	0.001677007	0.02380024
203879	at	PIK3CD	0.366908221	-2.725477228	7.118955457	0.205327248	0.001004911	0.021604398
1558569	at	UNQ6228	0.367059059	-2.724357228	4.80186023	0.274382953	0.003635938	0.02906584
206569	at	IL24	0.3673984	-2.721840923	4.774930355	0.299591754	0.00370137	0.029196926
228726	at		0.370241694	-2.700938377	9.420982631	0.15525098	0.000357051	0.019620379
230788	at	GCNT2	0.370631967	-2.69809431	5.665911049	0.237578815	0.002119685	0.024827316
219753	at	STAG3	0.370742527	-2.697289704	8.636882813	0.162637205	0.000499225	0.019976615
230803	s at	ARHGAP24	0.373091832	-2.680305259	10.79787953	0.130164891	0.000189835	0.018999481
224401	s at	FCRL4	0.373916742	-2.674392153	4.865240251	0.281360901	0.003482454	0.028730793
242906	at		0.377006	-2.65247768	8.020455915	0.181197723	0.000664017	0.020871103
241015	at		0.377209892	-2.651043946	13.18934361	0.10562066	8.56275E-05	0.018862319
209994	s at		0.377264978	-2.650656853	4.975184334	0.304415811	0.003230419	0.028022635
238669	at	PTGS1	0.377329647	-2.650202571	5.060986577	0.334640814	0.003046239	0.027525465
1559263	s at		0.377827412	-2.646711089	7.864429942	0.172048538	0.000719756	0.020928903
223162	s at	KIAA1147	0.378326761	-2.643217721	5.027433328	0.283365691	0.003119749	0.027713148
203036	s at	MTSS1	0.379723648	-2.633494138	5.02394651	0.273589452	0.003128635	0.027743979
202732	at	PKIG	0.382364702	-2.615304172	4.853900369	0.284520043	0.003509112	0.028765438
221969	at		0.382615254	-2.613591564	5.952645053	0.222071562	0.001792523	0.024025421
207900	at	CCL17	0.3829907	-2.611029458	7.116788024	0.203145243	0.001007335	0.021615457
201331	s at	STAT6	0.383590278	-2.60694824	9.738312837	0.135285071	0.000307774	0.019573215
224838	at	FOXP1	0.38422753	-2.602624541	6.602157619	0.196404752	0.001255332	0.022296703
212364	at	MYO1B	0.385347022	-2.59506352	4.700667497	0.246062674	0.003894436	0.029588681
209967	s at	CREM	0.385848856	-2.591688387	6.43074002	0.213679805	0.001386196	0.022751145

204385	at	KYNU	0.388311527	-2.575251909	13.78616091	0.100945776	6.86636E-05	0.018862319
209573	s at	C18orf1	0.388789564	-2.572085497	5.447515619	0.236885954	0.002398378	0.025626116
213572	s at	SERPINB1	0.389667435	-2.566290917	5.706587892	0.239065468	0.002068793	0.024764354
204057	at	IRF8	0.389935561	-2.564526298	5.827208925	0.228714765	0.001928234	0.024453006
239104	at		0.391334837	-2.555356447	7.92881186	0.162300232	0.0007036	0.020928903
208807	s at	CHD3	0.39165034	-2.553297927	8.937583335	0.145019986	0.000436216	0.01973829
226431	at	FAM117B	0.392189903	-2.549785171	5.183869722	0.302718141	0.002816014	0.0268619
230363	s at	INPP5F	0.392288358	-2.549145237	6.982872494	0.194752199	0.001068728	0.021777307
210201	x at	BIN1	0.393411624	-2.541866935	4.841340391	0.30467331	0.003538193	0.028852281
202931	x at	BIN1	0.394000124	-2.538070269	5.197918284	0.282861756	0.002792588	0.026817213
1564310	a at	PARP15	0.394256087	-2.536422473	9.339629406	0.150450496	0.000366744	0.0196267
206519	x at	SIGLEC6	0.394477622	-2.534998044	10.79115932	0.128639869	0.000190642	0.018999481
217838	s at	EVL	0.395276651	-2.529873689	10.81579877	0.125468767	0.000187411	0.018999481
1561899	at	CLECL1	0.395494634	-2.528479311	19.44652867	0.069503864	1.77717E-05	0.017274465
224046	s at	PDE7A	0.395605879	-2.5277683	6.563444555	0.195270658	0.001290875	0.022471102
213387	at	ATAD2B	0.395926528	-2.525721138	5.578167219	0.228705676	0.002229546	0.0251134
1553380	at	PARP15	0.39756087	-2.515338092	11.53501806	0.116871887	0.000150252	0.018862319
223377	x at	CISH	0.400078344	-2.499510444	7.49798624	0.172809652	0.000849005	0.021383976
235408	x at	ZNF117	0.400510511	-2.496813373	11.45571587	0.121802427	0.000155099	0.018878161
224994	at	CAMK2D	0.400643585	-2.495984053	8.574417884	0.143026321	0.000518612	0.018996615
227052	at		0.401262844	-2.492132066	8.309477759	0.155189665	0.00058566	0.020398752
219681	s at	RAB11FIP1	0.401704202	-2.489393928	9.948436652	0.135040632	0.000281117	0.019573215
230252	at	LPAR5	0.402184773	-2.486419347	6.215889727	0.214352854	0.001546142	0.023431073
203140	at	BCL6	0.402587858	-2.483929854	5.262928127	0.246025051	0.002677071	0.026420625
210184	at	ITGAX	0.404605742	-2.471541789	7.097135922	0.199554326	0.001015413	0.021615457
224837	at	FOXP1	0.406248467	-2.46154775	5.369612583	0.23278704	0.002509047	0.025951281
205786	s at	ITGAM	0.407050914	-2.456695133	4.656148776	0.28095989	0.004014799	0.029995201
211581	x at	LST1	0.407614027	-2.453301243	5.30105791	0.224099217	0.002621333	0.026288468
219546	at	BMP2K	0.407899582	-2.451583782	10.59806423	0.119727105	0.000200336	0.018999481
1555963	x at	B3GNT7	0.408539705	-2.447742506	5.034928906	0.248380674	0.003106824	0.027672662
244799	s at		0.408700412	-2.446780015	4.676436056	0.288410928	0.003955829	0.029811836
201260	s at	SYPL1	0.408910553	-2.445522606	14.71543097	0.087957801	5.33152E-05	0.018862319
228599	at	MS4A1	0.409023893	-2.444844949	5.648956402	0.219794142	0.002144727	0.024916506
231584	s at		0.409653231	-2.441089007	11.62379341	0.111276431	0.000144597	0.018862319
204115	at	GNG11	0.410304658	-2.437213371	14.91429762	0.085508373	5.0084E-05	0.018862319
206341	at	IL2RA	0.411008124	-2.433041935	7.823422416	0.162792285	0.000739951	0.020928903
226055	at	ARRDC2	0.412040323	-2.426946936	5.803978229	0.231621608	0.001960547	0.024494089
225019	at	CAMK2D	0.412112648	-2.426521011	8.12942028	0.14520006	0.00063332	0.02066047
223358	s at	PDE7A	0.412781597	-2.422588623	8.975037359	0.137272059	0.000424906	0.01973829
243780	at		0.415199437	-2.408481106	6.757159699	0.190274514	0.001174551	0.022022852
235982	at	FCRL1	0.415930471	-2.404247992	10.03850159	0.129542743	0.000270615	0.019573215
205987	at	CD1C	0.416545158	-2.400700092	11.05353011	0.114279872	0.000170447	0.018919652
229214	at		0.41792222	-2.392789742	5.506811362	0.243470097	0.002320021	0.025375037
203313	s at	TGIF1	0.421645476	-2.371660691	4.721230201	0.240900735	0.003850814	0.029447722
1553220	at	FAM117B	0.422314219	-2.367905116	5.272453188	0.220550733	0.002664146	0.026420625
220560	at	C11orf21	0.422873267	-2.364774693	5.247765676	0.277171184	0.002706152	0.026515973
1556209	at	CLEC2B	0.423492482	-2.361317004	5.802527871	0.18010028	0.00196297	0.024499336
203607	at	INPP5F	0.424411359	-2.35620461	6.797809095	0.184778811	0.00115274	0.022007113
225123	at		0.425638203	-2.34941317	24.14318363	0.051051337	4.03903E-06	0.016554695
240232	at		0.427021485	-2.341802546	21.29021145	0.058564613	1.05015E-05	0.016554695
243968	x at	FCRL1	0.430924816	-2.320590419	6.589894654	0.175283121	0.001265025	0.022328269
59644	at	BMP2K	0.431638635	-2.316752763	4.755364413	0.244124826	0.00375307	0.029317709
244180	at	ZNF793	0.432111163	-2.314219316	6.449550257	0.216111657	0.001371656	0.02272423
203037	s at	MTSS1	0.432434485	-2.312489024	5.238319304	0.232417176	0.002727963	0.026548797
1558185	at	CLLU1	0.432638723	-2.311397354	6.753673384	0.196707408	0.001176166	0.022022852
200787	s at	PEA15	0.43291384	-2.309928462	9.40256411	0.129760892	0.000361897	0.019620379
224175	s at		0.433122359	-2.308816386	5.037404252	0.252680564	0.003100362	0.027670402
224990	at	C4orf34	0.433266042	-2.308050721	11.6908288	0.104016502	0.000138943	0.018862319
224701	at	PARP14	0.433413497	-2.30726548	5.170324598	0.236552818	0.002837825	0.026961819
208018	s at	HCK	0.434008415	-2.30410279	6.688571004	0.189905501	0.001210902	0.022077836
202974	at	MPP1	0.434234863	-2.302901232	7.274000748	0.153290855	0.000938671	0.021561303
209295	at	TNFRSF10B	0.434493947	-2.301528037	11.52462825	0.102420025	0.00015106	0.02462319
215346	at	CD40	0.435669721	-2.29531673	5.09996092	0.236057534	0.00297596	0.027238721
218387	s at	PGLS	0.437113801	-2.287733759	6.215712397	0.194739478	0.00154695	0.023431073
218611	at	IER5	0.437747232	-2.284423353	29.33713917	0.040858034	2.42342E-06	0.016554695
210796	x at	SIGLEC6	0.438218896	-2.281964583	9.99795032	0.117442804	0.000275462	0.019573215
235512	at	CDKL1	0.438501419	-2.280494331	9.302200866	0.134842347	0.000370783	0.0196267
31845	at	ELF4	0.440476401	-2.270269187	7.276605498	0.16277339	0.000936248	0.021561303
242104	at		0.440477141	-2.270265373	5.670401823	0.219985947	0.002114838	0.024827305
225175	s at	SLC44A2	0.44176915	-2.263625697	5.682909001	0.193242172	0.002101913	0.024808216

239606	at		0.546134931	-1.831049332	5.77813363	0.146994676	0.001984781	0.024547649
237005	at	LOC442075	0.546686068	-1.829203373	5.344309159	0.154639122	0.002553477	0.026125507
226853	at	BMP2K	0.548144585	-1.824336183	5.930249854	0.14229243	0.001819988	0.024073731
203241	at	UVRAG	0.548333139	-1.823708851	6.193425752	0.134240233	0.001566337	0.023518082
216944	s at	ITPR1	0.548941438	-1.821687945	5.927242494	0.155838662	0.001824835	0.024092138
226074	at	PPM1M	0.550768292	-1.815645552	4.935266753	0.197844937	0.003322509	0.028229462
208119	s at	ZNF93	0.552280839	-1.810672993	9.302295606	0.091939246	0.000369975	0.0196267
204184	s at	ADRBK2	0.553620308	-1.806292119	4.984650623	0.163728496	0.003205377	0.027926378
226223	at		0.554572349	-1.803191235	5.654189059	0.143045606	0.002135841	0.024869667
218486	at	KLF11	0.554655064	-1.802922328	8.72960554	0.097232059	0.000479029	0.019976615
207605	x at	ZNF117	0.554791762	-1.802478098	8.514669919	0.097735104	0.000530729	0.02003358
217513	at	C17orf60	0.556287977	-1.797630079	5.862668714	0.138949019	0.001892691	0.02429188
235027	at		0.556658282	-1.796434245	7.162217062	0.111751606	0.00098714	0.021570207
204881	s at	UGCG	0.557236459	-1.7945703	6.256360729	0.131003812	0.001517061	0.023375728
219807	x at	RAB4B	0.557924415	-1.792357483	5.427175566	0.158621568	0.002427459	0.025716612
223492	s at	LRRFIP1	0.55818691	-1.791514603	7.496521163	0.114267171	0.000849813	0.021383976
218145	at	TRIB3	0.558804462	-1.789534743	5.368845905	0.141664185	0.002509855	0.025951281
212547	at	BRD3	0.560712093	-1.783446464	5.00115613	0.164715525	0.003171449	0.027890909
213337	s at	SOCS1	0.561961271	-1.779482059	6.649569163	0.123525883	0.001233521	0.022193097
233543	s at	FAM175A	0.562679982	-1.777209128	4.920942559	0.165930555	0.003548821	0.028403869
230260	s at	RFTN1	0.563023979	-1.776123288	5.274908271	0.153913659	0.002660915	0.026420625
217763	s at	RAB31	0.563663324	-1.774108687	6.242194945	0.137859103	0.001523523	0.023382268
224967	at	UGCG	0.56389812	-1.773369983	5.580332789	0.14010925	0.002227123	0.0251134
210612	s at	SYNJ2	0.564247836	-1.772270863	4.937619204	0.160615167	0.003316854	0.028227438
229393	at	L3MBTL3	0.564815846	-1.770488571	5.239272533	0.156252158	0.002723924	0.026531574
228521	s at	RAB4B	0.56630223	-1.765841535	6.254713838	0.130235959	0.001518676	0.023382268
222001	x at	LOC728855	0.56659371	-1.764933111	5.19830708	0.168633472	0.00279178	0.026817213
226456	at	C16orf75	0.566907641	-1.763955763	6.784021876	0.13324372	0.001158395	0.022007113
222915	s at	BANK1	0.567568783	-1.76190099	9.904076697	0.082325135	0.000287579	0.019573215
226763	at	SESTD1	0.567645323	-1.761663418	4.770537087	0.161590152	0.003715103	0.029234347
219947	at	CLEC4A	0.567726196	-1.761412468	5.056275894	0.153778424	0.003055125	0.027540199
202625	at	LYN	0.568260684	-1.75975574	9.79784481	0.081675152	0.000304543	0.019573215
236561	at	TGFBFR1	0.568492107	-1.759039374	5.313182584	0.202984822	0.002609215	0.026258331
1568609	s at		0.569880056	-1.754755216	8.849621876	0.094953805	0.000452372	0.019746384
203964	at	NMI	0.569886979	-1.754733898	6.200902806	0.132935143	0.001560682	0.023517405
234168	at	TAF15	0.570023873	-1.75431249	4.671378452	0.159881714	0.003974409	0.029851834
213045	at	MAST3	0.570476727	-1.752919888	4.940712752	0.166306149	0.003088776	0.028218074
229429	x at	LOC728855	0.571633359	-1.749373063	5.183732006	0.166800362	0.002816822	0.0268619
229937	x at	LILRB1	0.571954012	-1.748392317	6.425450254	0.126139033	0.001392659	0.022754462
203569	s at	OFD1	0.57242447	-1.746955367	7.448637604	0.109261992	0.000866777	0.021383976
222512	at	NUB1	0.572845844	-1.74567034	6.114130315	0.131400138	0.001639847	0.023734205
1560156	at		0.572999802	-1.745201302	7.295882718	0.103732648	0.00092817	0.021561303
81737	at	NPIPL3	0.573578198	-1.74344144	16.49841718	0.049651444	3.39279E-05	0.018783212
232210	at		0.57589235	-1.736435636	5.491401051	0.154043925	0.002339408	0.025433633
218992	at	C9orf46	0.576583797	-1.734353281	7.664658137	0.104190067	0.000789227	0.021197821
203130	s at	KIF5C	0.578566537	-1.728409673	5.42280751	0.151779599	0.002432306	0.025719511
243601	at	LOC285957	0.578687289	-1.728049016	6.000673155	0.13797805	0.001735976	0.023911127
221581	s at	LAT2	0.58110031	-1.720873286	19.74651054	0.039517407	1.61561E-05	0.017274465
232486	at	LRFN1	0.581698728	-1.71910295	4.919939546	0.152895121	0.003358052	0.028403869
225363	at	PTEN	0.582227578	-1.717541453	6.452262633	0.116227004	0.001368424	0.022720816
241849	at		0.582546186	-1.716602088	9.353436284	0.081351691	0.000365936	0.0196267
236419	at		0.583017083	-1.715215607	6.230963917	0.145100773	0.00153564	0.023421828
233385	x at	RAB4B	0.583903175	-1.712612712	9.499871099	0.080237658	0.000339279	0.019620379
223220	s at	PARP9	0.584432192	-1.711062487	8.624751473	0.093289828	0.000504071	0.019976615
1562364	at		0.586070102	-1.706280523	6.789932887	0.11648202	0.001156779	0.022007113
1555407	s at	FGD3	0.586172213	-1.705983289	4.774549006	0.172343886	0.003703793	0.029204801
209307	at	SWAP70	0.586943506	-1.703741485	5.250762455	0.139666097	0.002698074	0.026479591
226474	at	NLR5	0.587279894	-1.702765599	7.192656093	0.10674506	0.00096856	0.021570207
223583	at	TNFAIP8L2	0.587560401	-1.701952683	5.645266118	0.146502757	0.002153613	0.024925047
226867	at	DENND4C	0.58798017	-1.700737629	4.771392941	0.165448481	0.003713487	0.029234347
1556346	at		0.588190076	-1.700130691	8.748817852	0.089343847	0.000474182	0.019947051
226459	at	PIK3AP1	0.588942102	-1.697959777	4.996322951	0.149958733	0.00318195	0.027890909
226633	at	RAB8B	0.589693449	-1.695796354	6.012375258	0.124278084	0.001725475	0.023908606
243874	at	LPP	0.590031286	-1.694825384	4.670295839	0.165089064	0.003978448	0.029865155
239715	at		0.590204911	-1.694326803	4.996554206	0.16214316	0.003181143	0.027890909
201058	s at	MYL9	0.59024888	-1.69420059	4.679220353	0.15454212	0.003948559	0.028804549
229490	s at		0.590489428	-1.693510422	6.364691257	0.114975042	0.001440319	0.023044962
240964	at		0.590888855	-1.692365649	6.045893683	0.124430514	0.001699625	0.02385094
244871	s at	USP32	0.590960644	-1.692160062	4.973056005	0.154180682	0.003234458	0.028022635
210849	s at	VPS41	0.591628015	-1.690251263	7.715159649	0.093418426	0.000771455	0.021051576

1553861	at	TCP11L2	0.594736068	-1.681418118	4.987392758	0.164239067	0.003198107	0.027926378
224583	at	COTL1	0.594979082	-1.680731357	6.564612171	0.12048718	0.001290067	0.022471102
223981	at	NIN	0.595971583	-1.677932351	5.69438138	0.128026557	0.002084949	0.024774495
230699	at	PGLS	0.59695481	-1.675168679	4.829848173	0.149023699	0.00356889	0.02888572
229814	at		0.597633132	-1.673267338	4.942326432	0.155063641	0.003306353	0.028218074
201963	at	ACSL1	0.598184661	-1.671724578	6.444633669	0.114637056	0.001374887	0.022740994
1563357	at		0.598370758	-1.671204662	4.82465744	0.177032287	0.003585046	0.028925093
201700	at	CCND3	0.599560137	-1.667889405	9.500595914	0.078556748	0.000338471	0.019620379
227167	s at		0.599788439	-1.667254544	10.97060109	0.067016098	0.00017691	0.018919652
224666	at	NSMCE1	0.600047295	-1.666535302	7.664784894	0.093658107	0.000788419	0.021197821
211676	s at	IFNGR1	0.600231939	-1.666022639	6.060852189	0.130490333	0.001685892	0.023850562
209191	at	TUBB6	0.600712305	-1.664690387	5.154232389	0.178468533	0.002862059	0.026999466
38149	at	ARHGAP25	0.601009621	-1.663866875	6.171243282	0.1173175	0.001588148	0.023622322
219062	s at	ZCCHC2	0.601083952	-1.663661118	7.522164604	0.100631983	0.00083608	0.021337621
202693	s at	STK17A	0.601529365	-1.662429231	7.010090354	0.106376783	0.001057419	0.021777307
212646	at	RFTN1	0.602299053	-1.660304784	9.210877321	0.079919178	0.0003829	0.019641818
212799	at	STX6	0.602831194	-1.658839174	6.360386485	0.119159239	0.001445974	0.023060626
218600	at	LIMD2	0.603081613	-1.65815037	5.482178807	0.133740121	0.002350717	0.025488975
218913	s at	GMIP	0.60397295	-1.655703288	5.586823422	0.134352103	0.002221468	0.0251134
229129	at		0.605642643	-1.651138691	5.180485508	0.154031982	0.002823284	0.026889946
202524	s at	SPOCK2	0.606988175	-1.647478552	6.590394602	0.110292442	0.001264217	0.022328269
204882	at	ARHGAP25	0.60711194	-1.647122461	5.455388911	0.128580467	0.002388684	0.025622212
1555989	at		0.607185024	-1.64694444	13.32094691	0.053725098	8.15885E-05	0.018862319
208944	at	TGFBR2	0.608617017	-1.643069405	9.161850608	0.07895543	0.000388555	0.019641818
225408	at	MBP	0.608879032	-1.642362352	6.092732049	0.113954756	0.001659235	0.023741856
227410	at	FAM43A	0.608920085	-1.642251626	6.5712311	0.109591626	0.001282797	0.022392552
224811	at		0.609468727	-1.640773275	6.548490809	0.113112597	0.001304608	0.022523869
212543	at	AIM1	0.610036851	-1.639245232	5.058001759	0.150001646	0.003050278	0.027540199
218781	at	SMC6	0.610969945	-1.636741721	5.541117568	0.122451868	0.002280438	0.025325276
202564	x at	ARL2	0.612401843	-1.632914746	4.8480023	0.151763094	0.003522845	0.028805698
213693	s at	MUC1	0.612801242	-1.631850479	4.88754953	0.159639102	0.003436409	0.028618275
203185	at	RASSF2	0.612881225	-1.631637517	10.51431673	0.066089278	0.00021003	0.018999481
232521	at	PCSK7	0.613412323	-1.63022483	7.101609092	0.104002708	0.00101299	0.021615457
218404	at	SNX10	0.613574355	-1.629794322	6.463683208	0.111004955	0.001359539	0.022718964
230466	s at		0.614385808	-1.627641762	9.531724571	0.073552484	0.000332816	0.019573215
202252	at	RAB13	0.614461953	-1.627440065	5.434909416	0.126106719	0.002413726	0.025682102
223159	s at	NEK6	0.614548497	-1.62721088	5.152669864	0.140107463	0.002866098	0.027000282
227900	at	CBLB	0.615322924	-1.625162919	5.670683918	0.119400751	0.002113222	0.024827305
225176	at		0.616431783	-1.622239519	6.769276767	0.10136584	0.001170512	0.022007113
228369	at	CNPY3	0.616716568	-1.621490408	5.416319375	0.127126946	0.002441999	0.025750803
218305	at	IPO4	0.619048295	-1.615382851	8.39729168	0.082245808	0.000558194	0.020318462
201825	s at	SCCPDH	0.619076839	-1.615308372	5.683484177	0.123753956	0.002100297	0.024808216
225746	at	RAB11FIP4	0.619570773	-1.614020615	7.242334535	0.098656262	0.000951596	0.021561303
243140	at	ACTA2	0.619787931	-1.613455104	8.006814375	0.083553814	0.000673711	0.020874397
205231	s at	EPMA2	0.619989009	-1.612931818	11.18511241	0.062675178	0.0001656	0.001919652
209670	at	TRAC	0.620456914	-1.61171546	5.924729836	0.119745961	0.001826451	0.024092138
1554518	at	GSTCD	0.62329914	-1.604366084	6.076316096	0.12062269	0.001675391	0.023793789
222145	at		0.623705117	-1.603321783	7.289110888	0.106759093	0.000929785	0.021561303
210218	s at	SP100	0.624352005	-1.601660588	7.166715462	0.095389656	0.000983908	0.021570207
215787	at	ACTA2	0.624601507	-1.601020793	5.824642632	0.141669845	0.001933889	0.024456722
217494	s at		0.625234906	-1.599398866	5.052437727	0.128224072	0.003063203	0.027557245
201015	s at	JUP	0.625608483	-1.598443798	5.493081004	0.127333241	0.002335369	0.025420771
202464	s at	PFKFB3	0.626202727	-1.596926932	5.797553367	0.120258415	0.001968625	0.024500949
205173	x at	CD58	0.629586686	-1.588343627	4.869145957	0.133383203	0.003475992	0.028722363
206663	at	SP4	0.629660347	-1.588157814	5.640553119	0.12057855	0.002158459	0.024925047
214784	x at	XPO6	0.630426882	-1.586226774	4.830113001	0.135697039	0.003567274	0.02888572
200921	s at	BTG1	0.630812549	-1.585256985	5.364832649	0.123700775	0.002517933	0.025969293
231866	at	LNPEP	0.631609148	-1.583257626	8.427188235	0.07664328	0.000549309	0.02024675
235008	at		0.632223509	-1.581719101	6.146954861	0.106711834	0.001610766	0.023680102
241887	at		0.632299488	-1.581529036	6.551317957	0.097763328	0.001301377	0.022500985
201137	s at	HLA-DPB1	0.633254477	-1.579143987	6.549941027	0.099074606	0.001302184	0.022500985
243893	at	KCNC3	0.63400521	-1.577274105	4.722141783	0.135061789	0.00384516	0.029447722
219303	at	RNF219	0.634147376	-1.576920503	6.407142242	0.105659881	0.001409623	0.022849405
239835	at	KBTBD8	0.634908323	-1.575030541	10.44127503	0.062760919	0.000218108	0.018999481
234212	at	ACTR2	0.635453639	-1.573678926	8.300715147	0.089276242	0.000589699	0.020413729
226438	at	SNTB1	0.636151893	-1.571951621	4.763168134	0.139695852	0.003732067	0.029281276
238089	at	MAN2C1	0.636573348	-1.570910884	7.60534266	0.083939091	0.00081023	0.021248364
238668	at		0.638119034	-1.567105739	6.510893505	0.096111136	0.001334497	0.022675414
228119	at	LRCH3	0.639205097	-1.564443095	5.852812935	0.112556783	0.001905616	0.02429188
226080	at	SSH2	0.641263618	-1.559421073	6.982563828	0.091393656	0.001070344	0.021777307

208960	s at	KLF6	0.716548583	-1.395578783	4.724912938	0.108132515	0.003838697	0.029441584
203023	at	NOP16	0.716725324	-1.395234641	4.73325067	0.103873401	0.00381204	0.029391124
232160	s at	TNIP2	0.716989802	-1.394719977	6.193496749	0.077722021	0.001565529	0.023518082
209131	s at	SNAP23	0.717014295	-1.394672333	7.636442582	0.062209089	0.000801344	0.021235971
225763	at	RCSD1	0.717060515	-1.394582436	5.311953472	0.090206823	0.002610023	0.026258331
222548	s at	MAP4K4	0.717374167	-1.393972694	4.777709676	0.099449792	0.003698139	0.029189045
217789	at	SNX6	0.717810635	-1.393125083	6.533610804	0.074372003	0.001317533	0.022589684
208753	s at	NAP1L1	0.717927075	-1.392899133	5.658013126	0.085884617	0.002128571	0.024855625
203567	s at	TRIM38	0.718354474	-1.392070399	10.32318124	0.046116026	0.000231033	0.019302641
236488	s at		0.718361294	-1.392057184	4.932165181	0.105303349	0.003329779	0.028256088
226610	at	CENPV	0.718428573	-1.391926821	4.855817382	0.098002559	0.003501034	0.028756733
220499	s at	SLC2A3	0.718618279	-1.39155937	5.172021133	0.090930983	0.002833786	0.023759907
203481	at	FAM178A	0.718868856	-1.391074313	7.677994001	0.061712703	0.000782765	0.021197821
204436	at	PLEKHO2	0.719122918	-1.390582854	6.788149579	0.068535625	0.001157587	0.022007113
230066	at	SNX25	0.719174597	-1.390482929	5.207665006	0.093870745	0.002774008	0.026778738
209689	at	CCDC93	0.719601678	-1.389657681	8.002418381	0.060504971	0.000676942	0.020882823
214857	at		0.720373494	-1.388168789	4.888082464	0.100475192	0.003433986	0.028618275
231038	s at		0.720396195	-1.388125044	7.301601419	0.063736864	0.000923323	0.021539916
218069	at	DCTPP1	0.721747359	-1.385526372	5.266259061	0.090346521	0.00267384	0.026420625
223217	s at	NFKBIZ	0.721974353	-1.391559753	6.088235457	0.076355324	0.001664889	0.023759907
201954	at	ARPC1B	0.722171398	-1.38471283	5.413327497	0.088400934	0.002450078	0.025765897
212430	at	RBM38	0.722413206	-1.384249335	5.716879575	0.083008072	0.002055506	0.024725551
202860	at	DENND4	0.722567041	-1.383954627	10.65252304	0.043780762	0.000197105	0.018999481
203923	s at	CYBB	0.722780827	-1.383545278	10.18336909	0.046929619	0.000252036	0.019468818
224606	at	KLF6	0.723756785	-1.38167962	5.330676173	0.092313699	0.002578519	0.026146753
201720	s at	LAPTM5	0.724326182	-1.380593473	5.199831428	0.089367214	0.002787741	0.026817213
216902	s at		0.72646052	-1.376537296	4.755452644	0.096136081	0.003752262	0.029317709
209124	at	MYD88	0.727466243	-1.374634232	4.741651217	0.092599162	0.003789421	0.029383494
202933	s at	YES1	0.72775812	-1.374082916	5.390781507	0.084796269	0.002479966	0.025837781
224621	at	MAPK1	0.728115723	-1.373408057	9.58619505	0.047159301	0.000327162	0.019573215
218973	at	EFTUD1	0.728210543	-1.373229225	8.387322285	0.054362804	0.000563041	0.020326287
218802	at	CCDC109B	0.729458531	-1.370879847	6.266937814	0.075690264	0.001504136	0.023316825
240908	at		0.729781026	-1.370274047	7.469870279	0.061334507	0.000860314	0.021383976
217817	at	ARPC4	0.729984809	-1.36989152	4.715810023	0.097308103	0.003860508	0.029476486
213560	at	GADD45B	0.730317895	-1.369266735	5.641340734	0.080627045	0.002156844	0.024925047
212424	at	PDCD11	0.730450937	-1.369017341	4.735538319	0.094680766	0.003806385	0.029383494
221763	at	JMJD1C	0.730651424	-1.368641691	5.394504858	0.088495785	0.00247512	0.025835102
227263	at		0.731591585	-1.366882862	5.697924279	0.077859957	0.002078486	0.024769518
217445	s at	GART	0.732945412	-1.364358087	6.260204038	0.07231	0.00151383	0.023355947
205668	at	LY75	0.733269886	-1.363754354	4.777633921	0.100611512	0.003698947	0.029189045
212582	at	OSBPL8	0.733786009	-1.362795131	5.188948681	0.085619447	0.002809552	0.026842531
222088	s at		0.73407887	-1.362251443	6.554907769	0.068074843	0.001297337	0.022493097
241344	at		0.734207248	-1.36201325	5.207338241	0.085620671	0.002776431	0.026778738
211971	s at	LRPPRC	0.734309398	-1.36182378	4.913481113	0.091557255	0.003376632	0.028488211
223980	at	SP110	0.734762477	-1.360984034	4.924765591	0.094301064	0.00334432	0.02833255
208296	x at	TNFAIP8	0.735022303	-1.360502935	6.262694476	0.072577911	0.001508983	0.023355947
205677	s at	DLEU1	0.735738881	-1.359177862	5.537311517	0.0822751	0.002284477	0.025337906
200762	at	DPYSL2	0.735848458	-1.358975465	6.683646337	0.068545209	0.001216557	0.022107111
220059	at	STAP1	0.736073498	-1.358559984	8.053008385	0.057761351	0.000653516	0.020796193
221080	s at	DENND1C	0.737352192	-1.356204011	8.250641143	0.053098825	0.000606663	0.020515802
218187	s at	C8orf33	0.737847001	-1.355294524	5.804068035	0.074292697	0.001959739	0.024494089
201421	s at	WDR77	0.738156212	-1.354726795	5.105504179	0.087616994	0.002967074	0.027205993
208754	s at	NAP1L1	0.738183072	-1.354677501	5.305524463	0.086000177	0.002617294	0.02628798
204336	s at	RGS19	0.739046032	-1.353095969	5.432446135	0.07964858	0.002418573	0.025689799
203568	s at	TRIM38	0.739212805	-1.352790418	5.606586045	0.076961751	0.002202081	0.025043106
59999	at	HIF1AN	0.739444052	-1.352367359	5.617197946	0.077659694	0.002185117	0.025002853
200761	s at	ARL6IP5	0.740023227	-1.351308936	10.63207217	0.041060598	0.00019872	0.018999481
212829	at	PIP4K2A	0.741569848	-1.348490641	9.421956341	0.045710315	0.000355435	0.019620379
221865	at	C9orf91	0.741720969	-1.348215895	5.824942113	0.077053658	0.001931466	0.024456722
200946	x at	GLUD1	0.741843422	-1.347799335	7.24014583	0.058762175	0.000953212	0.021561303
225068	at	KLHL12	0.741873812	-1.347938132	6.585775017	0.066082525	0.001271488	0.022328269
200008	s at	GDI2	0.742994724	-1.345904578	6.778310917	0.063056297	0.001164857	0.022007113
202203	s at	AMFR	0.743023871	-1.345851781	4.787285158	0.088303789	0.003671481	0.029140623
206976	s at	HSPH1	0.743343832	-1.345272479	5.934129265	0.074178674	0.001815949	0.024071769
221579	s at	NUDT3	0.743355175	-1.345251952	7.180593915	0.060523944	0.000975023	0.021570207
212998	x at		0.743607296	-1.344795735	4.653775353	0.101043638	0.004023685	0.023003968
200659	s at	PHB	0.743698743	-1.344630483	9.638444054	0.044381322	0.000320699	0.019573215
220946	s at	SETD2	0.743960314	-1.344157721	5.902706666	0.070544285	0.001852301	0.024178291
223320	s at	ABCB10	0.744204409	-1.343716844	5.32006525	0.079181268	0.002595483	0.026202087
204022	at	WWP2	0.744521118	-1.343145246	11.79751173	0.035938381	0.000131672	0.018862319

203217	s at	ST3GAL5	0.745056996	-1.342179196	4.708511958	0.096690177	0.003883127	0.029556247
209337	at	PSIP1	0.745574401	-1.341247767	8.741145804	0.048738646	0.00047499	0.019947051
202100	at	RALB	0.745823466	-1.340799862	5.493022729	0.08090384	0.002336985	0.025420771
203818	s at	SF3A3	0.746540512	-1.339512034	7.385592431	0.058912226	0.00089505	0.021431567
215857	at	NCLN	0.74706995	-1.33856274	5.951039237	0.06964797	0.001794139	0.024031358
202696	at	OXSR1	0.747843306	-1.337178514	5.121170534	0.082305374	0.002930723	0.02711532
212664	at	TUBB4	0.748044497	-1.336818871	7.884812184	0.057198631	0.000714909	0.020928903
205544	s at	CR2	0.748456808	-1.336082442	20.44961485	0.020446789	1.29249E-05	0.016554695
200660	at	S100A11	0.748490975	-1.336021452	6.819207975	0.06379415	0.0011382	0.021927983
1569003	at	TMEM49	0.748916373	-1.335262568	4.840682171	0.085613604	0.003541424	0.028852281
201183	s at	CHD4	0.749114763	-1.334908948	4.79167393	0.084801198	0.003658556	0.029089515
227607	at	STAMBPL1	0.749638139	-1.333976952	9.711715702	0.042150401	0.000310198	0.0219573215
201350	at	FLOT2	0.749928708	-1.333460087	4.789243299	0.087142373	0.003666634	0.029113429
216835	s at	DOK1	0.7499969	-1.333338845	5.264249584	0.080068721	0.002676263	0.026420625
213302	at	PFAS	0.750073976	-1.333201834	4.913408733	0.08528742	0.00337744	0.028488211
218846	at	MED23	0.750118209	-1.333123216	14.17793026	0.029698635	6.05855E-05	0.01862319
1552291	at	PIGX	0.750485605	-1.332470595	8.109063591	0.051536661	0.000638167	0.02066734
201528	at	RPA1	0.750889201	-1.331754404	6.399454563	0.0623439	0.001416085	0.022886736
218710	at	TTC27	0.75090576	-1.331725036	5.606452817	0.07369803	0.002203697	0.025043106
209421	at	MSH2	0.750930513	-1.331681137	5.49307963	0.068701299	0.002336177	0.0219570271
214812	s at	MOBK1B	0.751798701	-1.330143293	5.066806858	0.081558374	0.003035737	0.027466907
226017	at	CMTM7	0.751799452	-1.330141965	7.373729577	0.056780728	0.0009900704	0.021431567
203376	at	CDC40	0.751865062	-1.330025893	5.683384332	0.071841533	0.002101105	0.024808216
224800	at	WDFY1	0.752510004	-1.328885987	6.986648606	0.05869517	0.001067113	0.021777307
225655	at	UHRF1	0.753078065	-1.327883585	8.036959786	0.051052023	0.00065917	0.020814532
220494	s at		0.753947359	-1.326352547	6.102809394	0.065931413	0.001645502	0.023734205
224656	s at		0.754277416	-1.325772161	9.781668879	0.041574463	0.000305351	0.019573215
201089	at	ATP6V1B2	0.75464603	-1.325124575	5.054354217	0.08132491	0.003057548	0.027542647
205212	s at	ACAP1	0.754883708	-1.324707355	5.745854593	0.072062286	0.002022748	0.024640687
209572	s at	EED	0.755169189	-1.324206568	10.97620575	0.036644802	0.000176102	0.018919652
212507	at	TMEM131	0.755432309	-1.323745341	4.695329825	0.084651746	0.003913823	0.029651571
202772	at	HMGCL	0.755572988	-1.323498876	5.384888428	0.07345336	0.002488044	0.025863566
226016	at	CD47	0.756215141	-1.322375004	10.26822831	0.039528259	0.000238303	0.019346271
219000	s at	DSCC1	0.756511678	-1.321856661	6.2040509	0.065559295	0.001557451	0.023498166
213151	s at	39331	0.757233736	-1.320596208	6.221891028	0.065085593	0.001542103	0.023421828
204563	at	SELL	0.75796323	-1.319325214	5.107404194	0.081738698	0.002959804	0.027195409
223738	s at	PGM2	0.758235461	-1.318851532	4.910556713	0.086113366	0.00338471	0.028488211
225010	at	CCDC6	0.758360326	-1.318634383	4.668709946	0.090535233	0.003985718	0.029886888
204119	s at	ADK	0.758704199	-1.318036728	5.041887689	0.080748721	0.003087437	0.027644172
209130	at	SNAP23	0.759272678	-1.317049894	6.203182686	0.064291338	0.001558259	0.023498166
226801	s at	AIDA	0.760085184	-1.315642011	7.204168346	0.054943475	0.000966137	0.021570207
1552664	at	FLCN	0.76049311	-1.314936306	7.253547417	0.055712609	0.000947557	0.021561303
214359	s at	HSP90AB1	0.760644914	-1.31467388	7.947195215	0.049885888	0.000699561	0.020928903
221509	at	DENR	0.760666344	-1.314636842	9.045594987	0.043271568	0.00040875	0.019641818
209229	s at	SAP51	0.761321572	-1.313505405	4.764794036	0.080448039	0.003728028	0.022973469
202329	at	CSK	0.761340155	-1.313473345	5.343817703	0.072750842	0.002556708	0.026145514
202887	s at	DDIT4	0.762878387	-1.310824919	7.384413738	0.055620159	0.000896665	0.021431567
201152	s at	MBNL1	0.763583294	-1.309614823	4.820616067	0.077176951	0.003593932	0.028946324
212709	at	NUP163	0.763649716	-1.309500913	12.15325752	0.031514012	0.000117132	0.018862319
211963	s at	ARPC5	0.763658912	-1.309485144	8.26856325	0.046669651	0.000601008	0.020480601
228095	at	PHF14	0.764968763	-1.307242921	6.106166071	0.063448314	0.001643079	0.023734205
204060	s at		0.765591241	-1.306180042	4.853130956	0.083659905	0.003510728	0.028767175
204661	at	CD52	0.766445588	-1.304724061	4.890197861	0.079892124	0.003425908	0.028609805
203269	at	NSMAF	0.766766012	-1.30417883	5.158771135	0.076409089	0.002856404	0.02698339
201613	s at	APIG2	0.767115265	-1.303585062	7.909898202	0.048687139	0.00071087	0.020928903
34210	at	CD52	0.767913979	-1.302229191	6.580772983	0.05915027	0.001275527	0.022350959
205961	s at	PSIP1	0.767943869	-1.302178506	6.173656631	0.061284181	0.001582493	0.023620283
223246	s at	STRBP	0.768429908	-1.301354866	6.635421637	0.055175075	0.00123756	0.022193097
217961	at	SLC25A38	0.768589986	-1.301083826	7.054613756	0.053257959	0.001033993	0.021767302
238005	s at	SIN3A	0.768751969	-1.300809676	6.505001134	0.058827132	0.001336112	0.022675414
210027	s at	APEX1	0.768782899	-1.300757341	5.138450664	0.07313942	0.002897602	0.027028535
203282	at	GBE1	0.768835003	-1.300669189	6.40605684	0.061862798	0.00141043	0.022849405
223245	at	STRBP	0.769009505	-1.300374044	8.757504731	0.043193841	0.000470951	0.019899768
226670	s at	PABPC1L	0.769467583	-1.299599908	5.635786642	0.06704967	0.002162498	0.024925047
214697	s at	ROD1	0.769787581	-1.299059669	6.533219795	0.056425338	0.00131834	0.022589684
203047	at	STK10	0.770327582	-1.298149025	5.548299408	0.067550212	0.002269129	0.025313127
213940	s at	FNBP1	0.772184854	-1.295026696	4.92663007	0.076807616	0.003337049	0.028294351
212859	x at	MT1E	0.7723745	-1.29470872	5.86521215	0.061440837	0.001891883	0.02429188
1555167	s at	NAMPT	0.773071305	-1.293541739	6.401154326	0.056835362	0.001413662	0.022878667
233252	s at	STRBP	0.773299109	-1.293160677	4.652830969	0.079979221	0.004026108	0.030046832

213446	s at	IQGAP1	0.796711887	-1.255158881	5.384578771	0.059571501	0.002488852	0.025863566
213772	s at	GGA2	0.796913662	-1.254841079	5.681409574	0.060391119	0.002104336	0.024812993
209704	at	MTF2	0.797870459	-1.253336288	5.332814176	0.062776166	0.002575288	0.026146753
227964	at	FRMD8	0.797980077	-1.253164119	5.993990035	0.054135002	0.00174567	0.023911127
203739	at	ZNF217	0.799209995	-1.251235604	4.674251162	0.071546516	0.003964715	0.029834902
218738	s at	RNF138	0.800282599	-1.249558594	8.835414618	0.037042616	0.000454795	0.019746384
222781	s at	C9orf40	0.800541891	-1.249153869	5.295799114	0.061396643	0.002630218	0.026306534
221917	s at	GRSF1	0.801097889	-1.248286899	5.189067037	0.062658304	0.002808744	0.026842531
200877	at	CCT4	0.80129167	-1.247985019	6.167067299	0.053601703	0.001592995	0.023622322
204835	at	POLA1	0.80143837	-1.247756581	6.775868457	0.046765646	0.001167281	0.022007113
208990	s at	HNRNPH3	0.801668218	-1.247398834	13.18163977	0.024262827	8.64353E-05	0.018862319
217931	at	CNPY3	0.801852668	-1.247111895	4.713289102	0.041807279	0.00075126	0.020928903
226151	x at	CRYZL1	0.801855445	-1.247107576	7.314364717	0.043524542	0.000918476	0.021505985
209312	x at		0.802103817	-1.246721408	5.122015547	0.062161959	0.002926683	0.027102422
204064	at	THOC1	0.802906254	-1.245475415	5.036275683	0.062762962	0.003101978	0.027670402
200736	s at	GPX1	0.803612597	-1.244380693	5.399482114	0.05866488	0.002470273	0.0268425102
219065	s at		0.803781437	-1.244119302	5.849379205	0.054025982	0.001907231	0.02429188
200961	at	SEPHS2	0.803881677	-1.243964166	4.960514659	0.061970257	0.003261115	0.02811582
218304	s at	OSBPL11	0.804651617	-1.242773865	6.101882073	0.050568136	0.001647118	0.023734205
203696	s at	RFC2	0.805044556	-1.242167272	4.713289102	0.066088307	0.003870202	0.020928903
221474	at	MYL12B	0.805384051	-1.241643659	5.507864959	0.057297352	0.002317597	0.025375037
222968	at		0.805794127	-1.241011775	7.854883877	0.03974713	0.000722987	0.020928903
202769	at	CCNG2	0.805823486	-1.240966561	4.679933704	0.067076556	0.003946943	0.029804549
226254	s at	KIAA1430	0.805838515	-1.240943417	6.46404377	0.04794297	0.001357923	0.022718964
219363	s at	MTERFD1	0.80594579	-1.240778241	4.699643435	0.067669604	0.003896859	0.029588681
208696	at	CCT5	0.806246299	-1.240315771	5.989901141	0.053047853	0.001752133	0.023911127
1566342	at	SOD2	0.806670593	-1.239663388	12.11550598	0.025797207	0.000121979	0.018862319
217725	x at	SERBP1	0.806770732	-1.239509517	4.876192687	0.062304462	0.003461451	0.028679638
209009	at	ESD	0.807217984	-1.238822747	5.017420986	0.062623224	0.003139137	0.027786452
223058	at	FAM107B	0.807504033	-1.238383908	6.153346731	0.051102087	0.001606727	0.023666554
233827	s at	SUPT16H	0.807833212	-1.237879287	6.433166524	0.046743517	0.001385388	0.022751145
200625	s at	CAP1	0.808138481	-1.237411685	6.451797056	0.047096727	0.001369232	0.022720816
210968	s at	RTN4	0.808140499	-1.237408596	4.814718968	0.064592631	0.003605241	0.028980455
231896	s at	DENR	0.808425708	-1.236972044	10.07089209	0.030550789	0.000263345	0.019532158
219375	at	CEPT1	0.808785491	-1.236421784	4.867479843	0.062071783	0.003479223	0.028722363
208974	x at	KPNB1	0.809184195	-1.23581257	6.824177864	0.04429296	0.001137392	0.021927983
226082	s at	SFRS15	0.809209598	-1.235273776	4.936898573	0.060847511	0.003317662	0.028227438
243052	at	MOBK12C	0.809276148	-1.235672152	4.847370934	0.061102479	0.003525268	0.028805698
225699	at	C7orf40	0.809646915	-1.235106293	4.854342879	0.064504614	0.003507496	0.0287637
225187	at	KIAA1967	0.809650186	-1.235101303	10.07578323	0.029989061	0.000262537	0.019532158
219013	at	GALNT11	0.809724845	-1.234987424	13.0048211	0.023400267	9.28978E-05	0.018862319
201427	s at	SEPP1	0.809778737	-1.234905232	9.383646601	0.032711038	0.000363513	0.0196267
223294	at	CXorf26	0.810700161	-1.233501668	4.668761737	0.066225301	0.003984102	0.029885709
208690	s at	PDLIM1	0.810842927	-1.233284482	8.115289787	0.036986386	0.000636552	0.02066734
1555349	a at	ITGB2	0.810891095	-1.233211224	5.941279213	0.051401019	0.001810295	0.024059061
201709	s at	NIPSNAP1	0.811031723	-1.232997392	5.076358118	0.060064079	0.003020389	0.027437059
203871	at	SEN3	0.811078049	-1.232926968	4.909429573	0.060921651	0.003386325	0.028488211
213113	s at	SLC43A3	0.811451737	-1.232359183	4.820746388	0.065556633	0.003593124	0.028946324
208975	s at	KPNB1	0.811650423	-1.232057511	9.446432582	0.031545366	0.000352204	0.019620379
212200	at	ANKLE2	0.811830287	-1.231784544	5.756568352	0.052459871	0.002012246	0.02460486
201020	at	YWHAH	0.812790415	-1.230329469	10.44163099	0.028950153	0.0002173	0.018999481
217779	s at	PNRC2	0.813098395	-1.229863453	7.073163298	0.041919003	0.001024299	0.021669431
211509	s at	RTN4	0.813264465	-1.229612313	10.2413633	0.02913503	0.000242342	0.019377977
201326	at	CCT6A	0.813420639	-1.229376232	5.817045988	0.05169826	0.001945198	0.024456722
226227	x at	C20orf199	0.81428729	-1.228067799	4.798539022	0.063984464	0.003645631	0.02908832
200729	s at	ACTR2	0.814304207	-1.228042285	5.034988311	0.05849856	0.003105209	0.027672662
214578	s at	ROCK1	0.814528069	-1.227704775	6.367453416	0.046798717	0.001437088	0.023044962
214629	x at	RTN4	0.81480513	-1.227287314	5.29891962	0.056590603	0.002626987	0.026295129
226215	s at	KDM2B	0.815089249	-1.226859514	6.926363883	0.042714057	0.001094578	0.021858627
225932	s at	HNRNPA2B1	0.815109284	-1.226829358	11.73477046	0.02489078	0.000134904	0.018862319
214339	s at	MAP4K1	0.815259194	-1.226603768	6.894111229	0.044036424	0.001105887	0.021887217
225705	at	CCDC45	0.815791604	-1.225803251	4.733220468	0.061373051	0.003813655	0.029392522
222473	s at	ERBB2IP	0.81654838	-1.224667178	7.390070948	0.040781381	0.000891011	0.021431567
224617	at	ROD1	0.816788657	-1.224306914	5.247217727	0.055375865	0.002708576	0.026515973
201811	x at	SH3BP5	0.816909344	-1.22412604	6.438595684	0.045104361	0.001378926	0.022751145
213310	at	EIF2C2	0.816921613	-1.224107655	5.415950279	0.051211456	0.002444423	0.025750803
1563431	x at		0.817261324	-1.223598829	6.452657603	0.044171532	0.001366809	0.022720816
213850	s at	SFRS2IP	0.817340574	-1.223480189	5.231549145	0.055085235	0.002735233	0.026586417
209376	x at	SFRS2IP	0.817406485	-1.223381535	4.676284758	0.060879887	0.003957445	0.029811836
212144	at	SUN2	0.817731921	-1.222894661	5.300002022	0.055475849	0.002622948	0.026288468

209143	s at	CLNS1A	0.838168359	-1.193077726	5.242641349	0.048641933	0.002717462	0.02651744
208908	s at	CAST	0.838565453	-1.192512757	4.869460142	0.052010875	0.003474376	0.028722363
209026	x at	TUBB	0.838985536	-1.191915661	5.948612914	0.043041629	0.001799793	0.024042445
212748	at	MKL1	0.839231768	-1.191565951	5.600587531	0.045546752	0.002210159	0.025083982
211452	x at	LRRFIP1	0.839551931	-1.191111548	7.772851739	0.032380266	0.000752876	0.020928903
201376	s at	HNRNPF	0.839974073	-1.190512936	7.241269099	0.034826233	0.000952404	0.021561303
201037	at	PFKP	0.840449629	-1.189839303	4.903317787	0.052171553	0.003402482	0.028530432
223411	at	MIF4GD	0.841393669	-1.188504308	6.915635301	0.036478303	0.001097001	0.021858627
1555851	s at	SEPW1	0.841427972	-1.188455856	6.772545469	0.037009009	0.001169704	0.022007113
212627	s at	EXOSC7	0.841631425	-1.188168561	5.356749031	0.045869869	0.002529243	0.026020457
213390	at	ZC3H4	0.841863911	-1.187840442	7.25722637	0.033873396	0.000945942	0.021561303
212363	x at	ACTG1	0.84209406	-1.187515798	5.430240289	0.045725011	0.002422612	0.025063817
1560854	s at	ZNF107	0.842177761	-1.187397776	5.034017234	0.046653971	0.00310844	0.027672662
221269	s at	SH3BGR13	0.842208417	-1.187354555	4.764604172	0.051860173	0.003728835	0.029273469
204670	x at		0.842389401	-1.187099456	4.813029872	0.051435112	0.003607664	0.028982073
209435	s at	ARHGEF2	0.84241053	-1.187069682	7.182874141	0.033912154	0.000973407	0.021570207
243304	at	LOC286109	0.842422337	-1.187053045	5.224762563	0.049291856	0.002744119	0.026614434
209829	at	FAM65B	0.842462944	-1.186995829	4.673976917	0.053325368	0.003967138	0.029834902
218403	at	TRIAP1	0.842582443	-1.186827483	4.890565462	0.051566501	0.003422677	0.028606135
211995	x at	ACTG1	0.842730798	-1.186618553	6.352405721	0.038966677	0.001450821	0.02569748
200848	at	AHCYL1	0.84385507	-1.185037616	6.366036047	0.038110313	0.001438704	0.023044962
207040	s at	ST13	0.843855608	-1.18503686	6.006010922	0.040409018	0.001730322	0.023911097
226032	at	CASP2	0.843949933	-1.184904413	5.408109769	0.046719758	0.00245654	0.025790383
204528	s at	NAP1L1	0.844106154	-1.184685119	7.994572695	0.030939664	0.000680173	0.020928903
201327	s at	CCT6A	0.84446128	-1.184186917	5.54041289	0.045120267	0.002281246	0.025325276
219994	at	APBB1IP	0.844465687	-1.184180738	5.116959661	0.050044454	0.002939608	0.027136277
229424	s at		0.845156482	-1.183212839	4.830373442	0.049184442	0.003564043	0.02888572
218238	at	GTPBP4	0.845290391	-1.183025397	7.180818522	0.033276811	0.000974215	0.021570207
225844	at	POLE4	0.845294344	-1.183019864	6.623804623	0.037054456	0.001242407	0.022193097
223154	at	MRPL1	0.846019113	-1.182006393	10.92835889	0.021894703	0.000180141	0.018919652
202031	s at	WIP1	0.846150436	-1.181822944	6.277074562	0.037750083	0.001496866	0.023294552
211993	at	WNK1	0.84616576	-1.181801542	4.864017771	0.047864439	0.003484878	0.028739217
200881	s at	DNAJA1	0.846381916	-1.181499723	14.11755734	0.017097237	6.30089E-05	0.018862319
213406	at	WSB1	0.847237455	-1.180306647	8.509742337	0.028213825	0.000532345	0.02003358
205061	s at	EXOSC9	0.847694407	-1.179670399	5.401935612	0.044166566	0.002467849	0.025835102
228992	at	MED28	0.847864568	-1.179433647	4.741671117	0.055330888	0.003788613	0.029383494
208676	s at	PA2G4	0.847967922	-1.179289893	6.031002247	0.040264805	0.001714166	0.018881076
218672	at	SCNM1	0.848410477	-1.178674742	4.717629855	0.050989853	0.003854853	0.029455259
202401	s at	SRF	0.848572232	-1.178450063	7.184158599	0.033050577	0.000972599	0.021570207
226715	at	FOXK1	0.848665594	-1.178320421	5.509623414	0.04361799	0.002315174	0.025375037
223700	at	MND1	0.848766922	-1.17817975	5.40403652	0.044992758	0.002465426	0.025830741
202546	at	VAMP8	0.849043064	-1.177796559	5.478072245	0.042007587	0.002357988	0.025500346
200704	at	LITAF	0.849664139	-1.176935632	7.101564039	0.033367267	0.001013797	0.021615457
200042	at	C22orf28	0.850261242	-1.176109118	5.075501708	0.045085759	0.003022812	0.027437264
212299	at	NEK9	0.850582366	-1.175665098	6.72411726	0.034829754	0.001193938	0.020053059
200090	at	FNTA	0.850843488	-1.175304289	8.874809392	0.026260469	0.000447525	0.01973829
212587	s at	PTPRC	0.851071107	-1.174989953	5.87178456	0.039489295	0.001882189	0.024254553
211714	x at	TUBB	0.85123877	-1.174758523	5.200150513	0.045393706	0.002786933	0.026817213
211684	s at	DYNCH12	0.851763732	-1.174034491	8.344246041	0.028031554	0.000575966	0.020372818
225701	at	AKNA	0.851991568	-1.173720536	8.706968182	0.026645432	0.000482261	0.019976615
204538	x at	NPIP	0.85230971	-1.17328242	5.961906817	0.040086555	0.001779598	0.023946155
201930	at	MCM6	0.852529171	-1.17298039	5.362008376	0.043223298	0.002525204	0.026005014
209669	s at	SERBP1	0.852625671	-1.172847632	10.20297327	0.022446803	0.000248804	0.019468818
217970	s at	CNOT6	0.852657821	-1.172803411	12.56601227	0.018179363	0.000102591	0.018862319
225821	s at	BOD1L	0.853632597	-1.171464168	5.206702318	0.045595104	0.002777239	0.026778738
213322	at	C6orf130	0.85369535	-1.171378057	7.966094536	0.028379454	0.000689867	0.020928903
200041	s at	BAT1	0.853973504	-1.170996518	6.859239667	0.032784287	0.001118812	0.021925493
218757	s at	UPF3B	0.854028682	-1.170920861	5.34066398	0.042940795	0.002560747	0.026146753
218239	s at	GTPBP4	0.854708448	-1.169989606	7.40249606	0.030823978	0.00088374	0.021431567
207168	s at	H2AFY	0.855543625	-1.168847468	4.988704773	0.044146554	0.003192452	0.027926378
240344	x at	LYRM7	0.855686032	-1.168652943	5.97457763	0.038622824	0.001766673	0.023911127
208752	x at	NAP1L1	0.855982873	-1.168247673	8.679845782	0.025725352	0.000488723	0.019976615
205452	at	PIGB	0.855996527	-1.168229038	5.106051454	0.045340726	0.002966266	0.027205993
242866	x at		0.856217492	-1.167927553	4.94415036	0.045185193	0.003300698	0.028214779
210561	s at	WSB1	0.856451418	-1.167608552	5.496661424	0.040919697	0.00233133	0.025420771
222837	s at	NAA15	0.856738875	-1.16721679	5.889852058	0.038807744	0.001861994	0.024192096
238704	at		0.85685784	-1.167054736	5.323134098	0.04116329	0.00258902	0.026187112
218134	s at	RBM22	0.857057452	-1.166782925	4.689182205	0.047974277	0.003927556	0.029722647
218111	s at	CMAS	0.857397015	-1.166320832	5.994895754	0.037107155	0.001743247	0.023911127
209027	s at	ABI1	0.858216537	-1.165207097	4.972485053	0.046203725	0.003236881	0.028024784

214943	s at	RBM34	0.858735242	-1.164503273	4.906675682	0.044609394	0.003395211	0.028522926
210211	s at	HSP90AA1	0.859385312	-1.163622401	8.876967023	0.024725347	0.000446717	0.019738229
223124	s at	C1orf128	0.859849019	-1.162994872	6.104708741	0.035300832	0.001644694	0.023734205
204328	at	TMC6	0.860069194	-1.16269715	5.990767773	0.035771671	0.001750517	0.023911127
200657	at	SLC25A5	0.860144173	-1.162595797	6.090356062	0.035912014	0.001661658	0.023741856
210466	s at	SERBP1	0.860338751	-1.162332859	7.214297225	0.030633206	0.000960482	0.021570207
226054	at	BRD4	0.860570327	-1.162020079	5.463858377	0.039697195	0.002376567	0.025552945
208306	x at	HLA-DRB4	0.86099577	-1.161445892	4.899582898	0.044812243	0.003412175	0.028564964
204178	s at		0.861083046	-1.161328172	4.656364921	0.046098271	0.004013991	0.029995201
209608	s at	ACAT2	0.86116218	-1.161221455	7.159987108	0.030589946	0.000988755	0.021570207
201518	at	CBX1	0.861509462	-1.160753356	5.471756177	0.039243356	0.002366873	0.025552945
217941	s at	ERBB2IP	0.861644064	-1.16057203	5.147542771	0.041693013	0.002879023	0.023911508
214035	x at	LOC399491	0.862182097	-1.15984779	6.773134777	0.032641407	0.001168896	0.022007113
222036	s at	MCM4	0.863524667	-1.15804451	4.740921964	0.044925586	0.00379346	0.029383494
1558015	s at	ACTR2	0.864224559	-1.157106668	6.455039773	0.033420795	0.001363578	0.022718964
213864	at	NAPIL1	0.864361739	-1.156923027	5.934656818	0.035091384	0.001815142	0.02391769
218249	at	ZDHHC6	0.864895468	-1.156209088	6.312660466	0.033002802	0.001471824	0.023161327
224634	at	GPATCH4	0.86513448	-1.15588966	4.913150165	0.043889808	0.003379863	0.028488211
208934	s at	LGALS8	0.865207494	-1.155792116	7.814739627	0.026665945	0.000742374	0.020928903
201695	s at	PNP	0.865243638	-1.155743835	5.974433792	0.035230188	0.001767481	0.023911127
216962	at	RPAIN	0.865244903	-1.155742144	11.67738567	0.017777163	0.000140558	0.018862319
212330	at	TFDP1	0.865806519	-1.154992459	7.911228893	0.026150583	0.000709254	0.020928903
211761	s at	CACYBP	0.866290632	-1.154347009	5.328147728	0.039295251	0.002580134	0.026150196
226052	at	BRD4	0.866740535	-1.153747816	6.167833785	0.033072248	0.001591379	0.02362322
201381	x at	CACYBP	0.866796402	-1.153673456	4.735522012	0.04409022	0.003807193	0.029383494
218396	at	VPS13C	0.866862417	-1.153585598	4.728447934	0.044209	0.003824964	0.029413314
225065	x at	NCRNA00188	0.86713588	-1.1532218	7.467151462	0.027993813	0.000861122	0.021383976
201285	at	MKRN1	0.867356699	-1.152928203	5.334248309	0.038585771	0.002572056	0.026146753
201970	s at	NASP	0.867413002	-1.152853367	7.560402003	0.027280176	0.000824771	0.021266081
218605	at	TFB2M	0.867792784	-1.152348831	6.450331595	0.031690073	0.001370848	0.02272423
212924	s at	LSM4	0.867805397	-1.152332083	6.152813093	0.033835715	0.001607535	0.023666554
216438	s at		0.867921255	-1.152178259	11.50564716	0.017757093	0.000151868	0.018862319
230925	at	APBB1IP	0.868465156	-1.151456675	4.906785471	0.043447142	0.003394404	0.028522926
225638	at	C1orf31	0.868590844	-1.151290054	4.656868715	0.042937581	0.004013183	0.029995201
221931	s at	SEH1L	0.868610502	-1.151263999	6.696546492	0.030185873	0.001206863	0.022077836
205053	at	PRIM1	0.868984477	-1.150768542	8.184290178	0.024922807	0.000622011	0.020646567
221580	s at	TAF1D	0.869794085	-1.149697402	5.363463239	0.03765624	0.002521972	0.025993119
210691	s at	CACYBP	0.869869564	-1.149597642	9.916153864	0.020353542	0.000285964	0.019573215
200641	s at	YWHAZ	0.870093052	-1.149302363	6.171601571	0.032649897	0.00158734	0.02362322
204005	s at	PAWR	0.870602829	-1.148629394	5.532924713	0.036745911	0.00229094	0.025359629
214205	x at	GLRX3	0.870824999	-1.148336349	6.321287903	0.031624688	0.001464553	0.023123006
208623	s at	EZR	0.870844386	-1.148310785	5.689790975	0.034680537	0.002091411	0.024798531
214280	x at	HNRNPA1	0.871057427	-1.148029933	5.853461156	0.03415274	0.001904808	0.02429188
202158	s at	CELF2	0.871077083	-1.148004029	5.781853498	0.034689486	0.001982358	0.024547649
211970	x at	ACTG1	0.871175857	-1.147873867	5.674939258	0.035005776	0.002109991	0.024827305
214214	s at	C1QBP	0.871961019	-1.146840258	7.392809032	0.026549314	0.00088778	0.021431567
226641	at		0.872060855	-1.146708964	6.27427416	0.032930954	0.001498481	0.023294552
226544	x at	MUTED	0.872238819	-1.146474999	4.810653421	0.041770865	0.003612511	0.028996624
227740	at	UHMK1	0.872538638	-1.146081052	5.717666408	0.035176529	0.002052637	0.024725551
213513	x at	ARPC2	0.873143021	-1.145287743	5.332706253	0.036398829	0.002576095	0.026146753
225614	at	SAAL1	0.874047995	-1.144101933	5.655969963	0.034944897	0.002134225	0.024869667
202420	s at	DHX9	0.874632646	-1.143337153	5.182956525	0.037220774	0.002819245	0.026867708
224664	at	C10orf104	0.874686328	-1.143266983	7.959775388	0.024819174	0.000693098	0.020928903
228332	s at	C11orf31	0.874834302	-1.143073606	6.496154756	0.02949649	0.001339343	0.022678976
209233	at	EMG1	0.875346882	-1.142404252	4.943194416	0.037865385	0.003303121	0.028216819
210648	x at	SNX3	0.875379797	-1.142361297	5.121355744	0.037602038	0.002929107	0.027112613
214870	x at		0.875927027	-1.141647613	4.806485988	0.040833991	0.003622205	0.029007915
224919	at	MRPS6	0.876193558	-1.141300333	5.078850603	0.038288931	0.003013119	0.027407463
213101	s at	ACTR3	0.877000788	-1.140249831	5.812226185	0.032320614	0.001949237	0.024457181
219110	at	GAR1	0.877015735	-1.140230398	6.434545235	0.029888189	0.001382965	0.022751145
201575	at	SNW1	0.877466537	-1.1396446	4.741924037	0.039305294	0.003786998	0.029383494
212609	s at	AKT3	0.877522526	-1.139571886	6.162395669	0.030495914	0.001597034	0.02362322
203011	at	IMPA1	0.877981147	-1.138976621	6.840970592	0.027227687	0.001126082	0.021927983
210840	s at	IQGAP1	0.87822896	-1.138655231	5.049560785	0.036854714	0.003072896	0.027576675
213064	at	ZC3H14	0.878350973	-1.13849706	5.23130934	0.036265113	0.002736041	0.026586417
201550	x at	ACTG1	0.878389814	-1.138446716	5.070182785	0.036658129	0.003033314	0.027464415
217964	at	TTC19	0.878757086	-1.137970909	5.612377706	0.035358008	0.002194811	0.02503011
242335	at	SLC25A37	0.878853103	-1.137846583	5.119761281	0.036256156	0.002935569	0.027126125
226395	at	HOOK3	0.878895435	-1.137791779	5.213862405	0.036267904	0.002762699	0.026718762
223151	at	DCUN1D5	0.8795846	-1.136900304	8.656169412	0.021482803	0.000495993	0.019976615

218603	at	HECA	0.879809607	-1.136609548	5.259421964	0.035454784	0.002684341	0.026435008
200996	at	ACTR3	0.87993299	-1.136450175	8.791840462	0.020972484	0.000463681	0.019837985
225475	at	MIER1	0.880714306	-1.135441985	4.879715038	0.03828743	0.003455797	0.028672464
208778	s at	TCP1	0.880724106	-1.135429351	6.05141104	0.030776613	0.001690739	0.023850562
212967	x at	NAP1L1	0.880754895	-1.13538966	4.738581341	0.038682593	0.003797499	0.029383494
211939	x at	BTF3	0.880862245	-1.13525129	6.55610251	0.027857485	0.00129653	0.022493097
221891	x at	HSPA8	0.881808823	-1.134032654	9.570683999	0.019115699	0.000328777	0.019573215
201856	s at	ZFR	0.881814411	-1.134025467	5.050914269	0.036861029	0.003067242	0.027576675
209861	s at	METAP2	0.881913127	-1.133898531	5.645352445	0.032608102	0.002152805	0.024925047
202266	at	TTRAP	0.881973442	-1.133820989	6.599065556	0.028042504	0.001257755	0.022296703
224603	at		0.881975147	-1.133818796	7.491704048	0.024356048	0.000851428	0.021383976
200594	x at	HNRNPU	0.882202755	-1.133526272	5.043248801	0.035773544	0.003085014	0.0276044172
208517	x at	BTF3	0.882370101	-1.133311293	5.199646277	0.034536674	0.002788549	0.026817213
204405	x at	DIMT1L	0.882472165	-1.133180217	9.097538752	0.020291233	0.000397441	0.019641818
212414	s at		0.882490925	-1.133156129	4.856855858	0.039166161	0.003498611	0.028754988
1567105	at		0.882784496	-1.132779296	9.406061664	0.019235451	0.000361109	0.027560379
201947	s at	CCT2	0.883083697	-1.132395494	5.05655778	0.035989183	0.003053509	0.027540199
202544	at	GMFB	0.883372528	-1.132025242	8.699074897	0.020308751	0.000483876	0.019976615
208687	x at	HSPA8	0.883543965	-1.131805592	6.319277615	0.028649134	0.001466169	0.023130694
213179	at	RQCD1	0.883552234	-1.131794999	5.148447769	0.034096322	0.002876599	0.027604704
203046	s at	TIMELESS	0.884148077	-1.131032263	4.742763385	0.037042095	0.003782151	0.029383494
212018	s at	RSL1D1	0.884269438	-1.130877035	4.876913019	0.037232667	0.003459028	0.028679638
211277	x at	APP	0.884617441	-1.130432155	5.237712645	0.031679396	0.002728771	0.026548797
208660	at	CS	0.885117415	-1.12979361	5.335630746	0.032827856	0.002568825	0.026146753
224571	at	IRF2BP2	0.885668656	-1.129090426	6.618385303	0.026178591	0.001245638	0.022217006
200812	at	CCT7	0.885722472	-1.129021823	5.16409589	0.034369159	0.002847518	0.026974909
224187	x at	HSPA8	0.886184405	-1.128433309	9.159129853	0.019259756	0.000390171	0.019641818
207988	s at	ARPC2	0.886423275	-1.128129223	12.12047141	0.014362163	0.000121171	0.018862319
211594	s at	MRPL9	0.886441068	-1.128106578	4.85482642	0.035857308	0.0030505073	0.0287637
208966	x at	IFI16	0.886467844	-1.128072504	5.701890816	0.030796664	0.002075255	0.024769518
221501	x at	LOC339047	0.887341496	-1.126961834	4.88009212	0.036496681	0.003454989	0.028672464
208910	s at	C1QBP	0.888277678	-1.125774096	10.50437958	0.016167202	0.000212453	0.018999481
40189	at	SET	0.888554066	-1.125423919	10.67120714	0.01601796	0.000196297	0.018999481
206332	s at	IFI16	0.889202015	-1.124603839	8.049991243	0.021107058	0.000655939	0.020802113
208113	x at	PABPC3	0.889415454	-1.12433396	4.801718905	0.034952217	0.003636746	0.02906584
217106	x at	DIMT1L	0.889952154	-1.123655913	5.040888064	0.034135602	0.003089053	0.027644172
214662	at	WDR43	0.890025753	-1.123562995	5.211293631	0.033488174	0.002765122	0.027629586
211075	s at	CD47	0.890077743	-1.123497366	5.413300967	0.031510084	0.002450885	0.025765897
45687	at	PRR14	0.890200771	-1.123342096	4.82054241	0.034397387	0.00359474	0.028946324
224585	x at	ACTG1	0.890418573	-1.123067319	4.988438975	0.033448637	0.00319326	0.027926378
216977	x at	SNRPA1	0.89079261	-1.122595752	5.020434275	0.03370793	0.00313429	0.02777009
228183	s at	RPAIN	0.89099698	-1.122338259	4.731421473	0.035459615	0.003817694	0.029396711
200014	s at	HNRNPC	0.891100522	-1.122207849	4.984159044	0.033853625	0.003206992	0.027926378
224623	at		0.892380769	-1.120597883	4.829945825	0.03303748	0.003568082	0.02888572
202577	s at	DDX19A	0.893116151	-1.119675195	5.399899508	0.029693518	0.002469465	0.025835102
201030	x at	LDHB	0.893531049	-1.11915529	5.469871547	0.029683514	0.002369297	0.025552945
205036	at	LSM6	0.893633571	-1.119026894	7.326842188	0.022067388	0.000912822	0.021471743
200005	at	EIF3D	0.894632151	-1.117777847	4.648088613	0.034978951	0.004041457	0.030069958
201773	at	ADNP	0.894926722	-1.117409924	6.036240438	0.026367002	0.001707703	0.02385094
240155	x at		0.895001135	-1.117317018	5.353576097	0.029877804	0.002535705	0.026056011
200910	at	CCT3	0.895019868	-1.117293634	6.391091072	0.025484176	0.001420124	0.02289784
201899	s at	UBE2A	0.897138736	-1.114654802	5.989360458	0.026367786	0.001753748	0.023911127
219819	s at	MRPS28	0.898127308	-1.113427897	5.363098107	0.029134943	0.00252278	0.025993119
208881	x at	ID11	0.898882729	-1.112492172	5.866025852	0.026500484	0.00188946	0.02429188
1555844	s at	HNRNPM	0.899136908	-1.11217768	4.825590415	0.031654438	0.00358343	0.028923445
214328	s at	HSP90AA1	0.899769548	-1.111395693	4.851338346	0.031959321	0.003514767	0.028777259
229733	s at		0.900367209	-1.110657951	6.159267191	0.024490653	0.001601073	0.023622322
225136	at	PLEKHA2	0.90044106	-1.110566859	6.73968943	0.022364445	0.001184245	0.022022852
222417	s at	SNX5	0.900657667	-1.11029977	5.895887098	0.025870552	0.001857147	0.024190469
227447	at	SKIV2L2	0.901029078	-1.109842096	9.926178527	0.01502111	0.000285156	0.019573215
200750	s at	RAN	0.902597218	-1.107913896	5.695552679	0.026327911	0.002083333	0.024774495
212481	s at	TPM4	0.904266006	-1.105869283	4.755553689	0.031011394	0.003751454	0.023917709
213564	x at	LDHB	0.904610078	-1.105448662	6.048289032	0.024019556	0.001697202	0.023850562
225419	at	C7orf11	0.904646462	-1.105404202	5.512919535	0.026056212	0.002310327	0.025359629
1557227	s at	TPR	0.904764644	-1.105259812	5.684349557	0.025500873	0.002097874	0.024808216
211968	s at	HSP90AA1	0.904961404	-1.105019502	5.039722865	0.029128716	0.003093092	0.027656164
211983	x at	ACTG1	0.905375532	-1.104514054	8.06852201	0.017761029	0.000649477	0.020796193
214182	at	ARF6	0.905701841	-1.104116118	6.456210021	0.02225008	0.001361962	0.022718964
208152	s at	DDX21	0.906349625	-1.103326986	9.041601418	0.01591884	0.000409558	0.019641818
221691	x at	NPM1	0.907743581	-1.101632687	10.55399711	0.013257582	0.000207606	0.018999481

203401	at	PRPS2	0.908059697	-1.101249184	5.389060917	0.026369229	0.00248239	0.025849887
200626	s at	MATR3	0.908345599	-1.100902565	4.751396711	0.029159125	0.003761148	0.029352118
229980	s at	SNX5	0.908921389	-1.100205157	4.757551158	0.029138873	0.003744184	0.029309019
208679	s at	ARPC2	0.909225523	-1.099837141	8.683456241	0.015750416	0.0004863	0.019976615
213857	s at	CD47	0.909552852	-1.099441333	8.85873266	0.015495606	0.000450756	0.01973829
35201	at	HNRNP1	0.909718565	-1.09924106	7.187069769	0.019043913	0.000970984	0.021570207
212317	at	TNPO3	0.910693332	-1.09806448	5.000278965	0.026784992	0.00317468	0.027890909
202021	x at	EIF1	0.910958223	-1.097745182	6.082999024	0.022327665	0.001668929	0.023767895
208697	s at	EIF3E	0.911589449	-1.096985053	6.572782427	0.020334312	0.001281181	0.022392552
202231	at	EIF3M	0.91261088	-1.095757263	4.72665299	0.027783477	0.00383385	0.029437461
209199	s at	MEF2C	0.913820236	-1.09430713	11.29611382	0.011437387	0.000163985	0.018919652
200016	x at	HNRNP1	0.914449125	-1.093554548	5.036660622	0.025457171	0.00310117	0.021561042
201751	at	JOSD1	0.914535332	-1.093451466	13.02848493	0.009831904	8.96665E-05	0.018862319
215136	s at	EXOSC8	0.914543645	-1.093441527	5.437588542	0.023410901	0.002408879	0.025680008
202069	s at	IDH3A	0.91480307	-1.093131443	5.068581514	0.0245288	0.003034122	0.027464415
214042	s at	RPL22	0.914932748	-1.092976508	7.034775532	0.018291979	0.001045302	0.021773707
214800	x at	BTF3	0.915639088	-1.092133366	5.943357266	0.02132175	0.001807063	0.024042445
200668	s at	UBE2D3	0.915949353	-1.091763422	4.908171644	0.025271298	0.003390364	0.028510487
201091	s at	CBX3	0.916562767	-1.091032754	9.4397544	0.013333112	0.000353012	0.019620379
1555105	a at	MIER1	0.917452677	-1.089974475	7.257825685	0.01751466	0.000945134	0.021561303
222047	s at	SRRT	0.918259427	-1.089016862	7.348174945	0.016845273	0.000907167	0.021431567
225547	at	SNHG6	0.918618806	-1.08859082	9.530494096	0.012895438	0.000333624	0.019573215
200801	x at	ACTB	0.919121689	-1.087995216	5.257644389	0.023180144	0.002686765	0.026446165
207941	s at	RBM39	0.919487877	-1.087561927	5.557554864	0.021854771	0.002254588	0.025220608
AFFX-HSAC072		ACTB	0.920891574	-1.08590417	5.776329752	0.020606491	0.001986397	0.024547649
208739	x at	SUMO2	0.921159486	-1.085588343	4.671500616	0.025523123	0.003973601	0.029851834
202829	s at	VAMP7	0.921329316	-1.085388235	7.602952799	0.015593343	0.000811846	0.021248364
1555495	a at	CWC27	0.921721954	-1.084925878	9.000490485	0.013222587	0.000418444	0.01973829
200610	s at	NCL	0.922461382	-1.084056221	6.493783789	0.017903988	0.001340151	0.022678976
202462	s at	DDX46	0.922488781	-1.084024023	6.236241668	0.018503513	0.001531601	0.023421828
208864	s at	TXN	0.923183363	-1.083208429	5.543114774	0.020562536	0.002278823	0.025325276
209579	s at	MBD4	0.923187816	-1.083203203	7.996500042	0.014344666	0.000678558	0.020911194
201680	x at	SRRT	0.924293935	-1.081906915	4.951655305	0.022960205	0.00328535	0.028194282
224714	at	MKI67IP	0.924421296	-1.081757857	14.20870443	0.007954049	5.89699E-05	0.018862319
200863	s at	RAB11A	0.924575083	-1.081577925	18.86138315	0.005998456	1.93874E-05	0.017274465
224594	x at	ACTB	0.924853161	-1.081252724	9.027254675	0.012480739	0.000413597	0.019651532
218053	at	PRPF40A	0.926728506	-1.079064681	5.923552989	0.018755423	0.001827259	0.024092138
213356	x at		0.927075212	-1.078661135	11.83959586	0.009202237	0.000128441	0.018862319
200030	s at	SLC25A3	0.928449534	-1.077064464	6.433232683	0.01651604	0.001384581	0.022751145
213528	at	C1orf156	0.929699682	-1.075616158	5.050053804	0.020319416	0.003072089	0.027576675
200060	s at	RNP51	0.93014773	-1.075098039	5.184981407	0.020052527	0.002815206	0.0268619
203316	s at	SNRPE	0.933740547	-1.07096131	5.450708395	0.018229026	0.002395147	0.025622212
224867	at	C1orf151	0.935106153	-1.069397305	5.322356216	0.018142121	0.002590636	0.026187112
202469	s at	CPSF6	0.93535959	-1.06910755	5.950786418	0.016218684	0.001795754	0.024032403
207127	s at	HNRNP3	0.93669296	-1.06758569	7.816884239	0.012022551	0.000741566	0.020928903
216088	s at	PSMA7	0.936769198	-1.067498805	6.729482932	0.013922633	0.001191515	0.022053059
202428	x at	DBI	0.93846072	-1.0655747	5.340111063	0.017181048	0.002561555	0.026146753
213867	x at	ACTB	0.939189729	-1.06474759	5.700702771	0.015855638	0.002076871	0.024769518
209067	s at	HNRPD1	0.939295338	-1.064627875	8.130435263	0.011098465	0.000632513	0.02066047
201812	s at		0.939753153	-1.064109225	10.45486831	0.008551846	0.000216492	0.018999481
221637	s at	C1orf48	0.940963411	-1.062740579	5.118273575	0.016856763	0.002937185	0.027126125
218003	s at	FKBP3	0.94110276	-1.062583219	5.162257059	0.016950903	0.002849942	0.026974909
216387	x at	LOC399804	0.94319499	-1.060226157	6.109402076	0.01384226	0.001641463	0.023734205
200674	s at	RPL32	0.944830438	-1.058390966	4.903406309	0.01682207	0.003401674	0.028530432
213588	x at	RPL14	0.945073032	-1.058119284	8.722546228	0.00929375	0.000479837	0.019976615
200949	x at	RPS20	0.945560348	-1.057573958	5.270081758	0.015285337	0.002668185	0.026420625
200886	s at	PGAM1	0.945908053	-1.057185206	5.166906646	0.015409332	0.002842672	0.026965538
201993	x at	HNRPD1	0.946464085	-1.056564128	6.712164308	0.011843239	0.001201208	0.022058093
200028	s at	STARD7	0.946466064	-1.056561918	4.830340979	0.016323275	0.003564851	0.02888572
224935	at	EIF2S3	0.949792236	-1.052861839	4.721862877	0.016478801	0.003845967	0.029447722
213757	at	EIF5A	0.950019344	-1.052610146	4.783992446	0.015495749	0.003681983	0.029165666
200963	x at	RPL31	0.950615752	-1.051949747	5.287435315	0.013950394	0.002643951	0.026366675
200036	s at	RPL10A	0.950793696	-1.051752871	4.732420188	0.015638284	0.003816079	0.029396711
208770	s at	EIF4EBP2	0.952124068	-1.050283291	4.904541954	0.013984984	0.00339925	0.028526682
217848	s at	PPA1	0.952516296	-1.049850805	5.954412997	0.012030027	0.0017901	0.024024364
212038	s at	VDAC1	0.952540361	-1.049824282	6.46453015	0.010829313	0.001356307	0.022718964
204489	s at	CD44	0.955156804	-1.046948518	7.400372142	0.008782892	0.000885356	0.021431567
201167	x at	ARHGDIA	0.955925789	-1.04610631	8.374986353	0.007747713	0.000566272	0.020326287
214003	x at	RPS20	0.956422366	-1.045563169	9.905450203	0.00647696	0.000286771	0.019573215
213377	x at	RPS12	0.956954397	-1.044981875	6.064047861	0.010506164	0.001682661	0.023842422

200029	at	RPL19	0.9668151	-1.034323936	4.808184038	0.010124783	0.00361655	0.028996624
213828	x at		1.031171874	1.031171874	-7.466760694	0.005924957	0.000862737	0.021383976
225636	at	STAT2	1.052187104	1.052187104	-5.506805286	0.013036121	0.002320828	0.025375037
201757	at	NDUFS5	1.063054324	1.063054324	-5.260991477	0.016644506	0.002679495	0.026420625
209146	at	SC4MOL	1.066485814	1.066485814	-4.946994108	0.018920146	0.003295043	0.028214779
200713	s at	MAPRE1	1.067324591	1.067324591	-6.605703037	0.014353079	0.001253716	0.022296703
226453	at	RNASEH2C	1.070300082	1.070300082	-5.249755745	0.018908652	0.00269969	0.026479591
212428	at	KIAA0368	1.070798548	1.070798548	-5.074590671	0.019402138	0.003024428	0.027437264
202579	x at	HMGNA4	1.07231805	1.07231805	-7.754863978	0.013147268	0.000762569	0.02097076
208773	s at		1.076360726	1.076360726	-5.351346671	0.020318837	0.00254136	0.026066602
212643	at	MAPK11P1L	1.080258697	1.080258697	-5.560753712	0.020008229	0.002252973	0.0252163
224602	at	C4orf3	1.08208244	1.08208244	-6.217983634	0.018119645	0.001542911	0.023421828
201068	s at	PSMC2	1.082852882	1.082852882	-5.683872107	0.020369751	0.002098682	0.024808216
210975	x at	FASTK	1.083467893	1.083467893	-5.912564923	0.019493894	0.00183776	0.024142264
226193	x at		1.087486857	1.087486857	-5.373119624	0.022194921	0.002505816	0.02594405
201227	s at	NDUFB8	1.087560648	1.087560648	-5.017451658	0.019765248	0.001618037	0.023685039
201026	at	EIF5B	1.088280671	1.088280671	-5.08370139	0.023731622	0.003002617	0.027367878
226048	at	MAPK8	1.08942145	1.08942145	-12.20411008	0.010133675	0.000113093	0.018862319
210792	x at	SIVA1	1.089665042	1.089665042	-8.259151072	0.015034433	0.000604239	0.020494986
217773	s at	NDUFA4	1.090389983	1.090389983	-6.212424612	0.021505153	0.001935505	0.023456722
213980	s at	CTBP1	1.09057194	1.09057194	-6.561968998	0.019116354	0.001291683	0.022471102
210501	x at	EIF3K	1.094423788	1.094423788	-12.17833318	0.010646462	0.000114709	0.018862319
208927	at	SPOP	1.094881389	1.094881389	-4.860463187	0.026874869	0.00349134	0.028752892
206809	s at		1.095843518	1.095843518	-6.893491099	0.019303623	0.001107503	0.021887217
200871	s at	PSAP	1.095993092	1.095993092	-9.662263001	0.013528923	0.00031666	0.019573215
217774	s at	TRMT112	1.096546483	1.096546483	-6.882758966	0.019422343	0.001109926	0.021887217
202298	at	NDUFA1	1.098836173	1.098836173	-5.017321912	0.027451551	0.003139944	0.027786452
201897	s at	CKS1B	1.100192496	1.100192496	-5.759943037	0.024020983	0.0020074	0.024604317
219555	s at	CENPN	1.101277834	1.101277834	-8.134434604	0.017414296	0.000631705	0.02066047
222067	x at	HIST1H2BD	1.103170204	1.103170204	-4.94642343	0.028442718	0.003297467	0.028214779
202562	s at	C14orf1	1.104227102	1.104227102	-6.380702576	0.022578918	0.00142901	0.022986857
201345	s at	UBE2D2	1.104653179	1.104653179	-6.524017447	0.022181645	0.001323187	0.022634884
201891	s at	B2M	1.107058464	1.107058464	-6.175866155	0.023791074	0.001578454	0.023594365
229624	at	OPA3	1.107068831	1.107068831	-6.852253403	0.021043814	0.001122851	0.021925914
208718	at	DDX17	1.107191739	1.107191739	-5.314644746	0.028407284	0.002605984	0.026251598
216484	x at	HDGF	1.107578655	1.107578655	-4.749574098	0.030532017	0.003769226	0.029359258
222616	s at	USP16	1.108813587	1.108813587	-4.72122452	0.031551416	0.003851622	0.029447722
212716	s at	EIF3K	1.112333593	1.112333593	-8.106541315	0.019025413	0.000638975	0.02066734
208091	s at	VOPP1	1.112655097	1.112655097	-6.040839501	0.025814104	0.001702049	0.02385094
1554922	at	ZNF678	1.113170799	1.113170799	-5.843139185	0.026391896	0.001913694	0.024313746
221494	x at	EIF3K	1.113933635	1.113933635	-5.524417392	0.027707347	0.002303865	0.023559629
224948	at	MRPS24	1.114547793	1.114547793	-6.556139476	0.024041251	0.001294914	0.022493097
242941	x at	TBX1	1.115373751	1.115373751	-4.784538899	0.032296594	0.003678751	0.029164442
224334	s at		1.11551824	1.11551824	-4.815262593	0.033221724	0.003602818	0.028977214
202983	at	HLTF	1.115885885	1.115885885	-5.349431508	0.030100821	0.002547014	0.026098477
204601	at	N4BP1	1.116204784	1.116204784	-5.025099818	0.03326572	0.00312702	0.027741656
200778	s at	39326	1.116480592	1.116480592	-7.42293698	0.02121591	0.00087647	0.021431567
206445	s at	PRMT1	1.118015251	1.118015251	-5.313863117	0.030651562	0.002606792	0.026251598
214779	s at	SGSM3	1.119226438	1.119226438	-7.675605458	0.021213021	0.00078438	0.021197821
222936	s at	PPPDE1	1.119287297	1.119287297	-5.618301142	0.028609781	0.002181886	0.025002853
203360	s at	MYCBP	1.120188767	1.120188767	-6.876443431	0.023555002	0.001110734	0.021887217
221263	s at	SF3B5	1.120759626	1.120759626	-4.973022317	0.033403276	0.003235266	0.028022635
212273	x at	GNAS	1.12207925	1.12207925	-9.466133726	0.017458865	0.000348165	0.019620379
216450	x at	HSP90B1	1.123350947	1.123350947	-6.463727251	0.026035466	0.001358731	0.022718964
217758	s at	TM9SF3	1.124278963	1.124278963	-4.727530765	0.036079584	0.003829811	0.0294285
207157	s at	GNF5	1.124706774	1.124706774	-6.041886595	0.027622582	0.001701241	0.02385094
205607	s at	SCYL3	1.125634381	1.125634381	-4.735977983	0.035337415	0.003805577	0.029383494
200981	x at	GNAS	1.126157226	1.126157226	-10.65118873	0.016036347	0.000197913	0.018999481
208900	s at	TOP1	1.126438642	1.126438642	-5.127519843	0.033248293	0.00291699	0.027081322
208829	at	TAPBP	1.126583483	1.126583483	-13.72827283	0.012607218	7.1087E-05	0.018862319
218777	at	REEP4	1.127190905	1.127190905	-5.543935348	0.031495962	0.002275591	0.02531736
200780	x at	GNAS	1.127744439	1.127744439	-7.489852671	0.022935664	0.000852236	0.021383976
201413	at	HSD17B4	1.128488703	1.128488703	-5.698962133	0.030471487	0.002077679	0.024769518
1557029	at		1.129362476	1.129362476	-6.090756078	0.028618715	0.001660043	0.023741856
200039	s at	PSMB2	1.129396712	1.129396712	-6.436299232	0.027157269	0.001381349	0.022751145
208546	x at	HIST1H2BH	1.130223363	1.130223363	-4.779289674	0.036631295	0.003693292	0.029178129
226006	at	LOC100131801	1.130257015	1.130257015	-17.50713672	0.010087876	2.5042E-05	0.018783212
238034	at	CANX	1.130698119	1.130698119	-5.718672325	0.031491676	0.002050213	0.024725551
217811	at	SELT	1.131037581	1.131037581	-9.859335263	0.01796654	0.000294849	0.019573215
222845	x at	TMBIM4	1.131343265	1.131343265	-6.393627644	0.027745947	0.001419316	0.02289784

207668	x at	PDIA6	1.131956795	1.131956795	-5.19298836	0.034738538	0.002803897	0.026838555
224591	at	HP1BP3	1.132112269	1.132112269	-21.5648634	0.008255034	9.69368E-06	0.016554695
214677	x at		1.133600587	1.133600587	-5.814686212	0.031409157	0.001946814	0.024456722
210434	x at	JTB	1.134113983	1.134113983	-7.150860056	0.025087416	0.000991179	0.021570207
47530	at	C9orf156	1.13442705	1.13442705	-4.954136668	0.035974384	0.003281311	0.028178352
214548	x at	GNAS	1.135430312	1.135430312	-6.697091578	0.027037649	0.001206055	0.022077836
227518	at	SLC35E1	1.135770178	1.135770178	-6.976673801	0.026469302	0.001074383	0.021799747
208716	s at	TMCO1	1.135872267	1.135872267	-5.458022401	0.03350185	0.002383837	0.025604248
226836	at	SFT2D1	1.13717466	1.13717466	-6.435805667	0.029793474	0.001382157	0.022751145
208527	x at	HIST1H2BE	1.138389125	1.138389125	-9.414032089	0.019849001	0.000359474	0.019620379
212250	at	MTDH	1.139543657	1.139543657	-4.897464836	0.03835298	0.003415406	0.028580339
203110	at	PTK2B	1.139755417	1.139755417	-6.100967249	0.031496882	0.001649541	0.023734205
212952	at	CALR	1.139978701	1.139978701	-7.231868014	0.026321369	0.000954827	0.021568507
210966	x at	LARP1	1.140293861	1.140293861	-6.241579754	0.029869122	0.001524331	0.023382268
219286	s at	RBM15	1.140514907	1.140514907	-7.972981461	0.023943676	0.00068502	0.020928903
222118	at	CENPN	1.141009645	1.141009645	-4.901061982	0.037895538	0.003406521	0.028562617
225585	at	RAP2A	1.141123021	1.141123021	-6.518679636	0.029593554	0.001326419	0.022650896
209140	x at	HLA-B	1.141382697	1.141382697	-5.115842486	0.037782457	0.002944455	0.027144338
224878	at	UBFD1	1.141541921	1.141541921	-4.870531996	0.03878322	0.003471145	0.028722363
209059	s at	EDF1	1.142304454	1.142304454	-7.388805589	0.026134348	0.000891819	0.021431567
208579	x at		1.142327311	1.142327311	-5.6739072	0.033611452	0.002110799	0.024827305
224795	x at		1.142849145	1.142849145	-6.019123916	0.032223856	0.00171982	0.023894879
209103	s at	UFD1L	1.142946296	1.142946296	-4.825790341	0.040034498	0.003581815	0.028923445
201077	s at	NHP2L1	1.143388785	1.143388785	-4.946797689	0.037984363	0.003295851	0.028214779
218101	s at	NDUFC2	1.143885325	1.143885325	-7.671718353	0.025104598	0.000785996	0.021197821
204427	s at	TMED2	1.14408833	1.14408833	-5.939180546	0.032690782	0.00181191	0.024064926
221705	s at	SIKE1	1.144311325	1.144311325	-5.613960867	0.035400961	0.002190772	0.025025827
228760	at	SFRS2B	1.145446597	1.145446597	-8.594726154	0.023055562	0.000511342	0.019976615
214836	x at		1.145773895	1.145773895	-6.481522399	0.030475369	0.001348229	0.022718964
204426	at	TMED2	1.146195369	1.146195369	-5.16874179	0.038302672	0.00283944	0.026964668
200782	at	ANXA5	1.146438509	1.146438509	-4.982599752	0.040040396	0.003210224	0.027935609
214056	at	MCL1	1.146806993	1.146806993	-7.311147912	0.027013563	0.000919284	0.021505985
225850	at	SFT2D1	1.147448261	1.147448261	-6.595460084	0.030419857	0.001260986	0.022296703
210101	x at	SH3GLB1	1.1481433	1.1481433	-5.697473785	0.035016207	0.002079294	0.024769518
221651	x at		1.148976389	1.148976389	-5.031456645	0.040378209	0.003111671	0.027689399
202296	s at	RER1	1.149463359	1.149463359	-8.16933652	0.024689488	0.000623627	0.020646567
224233	s at		1.150604598	1.150604598	-4.933309156	0.040711513	0.003328163	0.028254078
222212	s at	LASS2	1.15087399	1.15087399	-6.099862673	0.033753481	0.001650349	0.023734205
213114	at	RER1	1.151003614	1.151003614	-5.929557411	0.03410937	0.001820796	0.024073731
225144	at	BMPR2	1.152299522	1.152299522	-5.741154738	0.035326254	0.002025171	0.024640687
224700	at	STT3B	1.152466812	1.152466812	-5.599813322	0.037482117	0.002211775	0.028503982
228710	at		1.153041988	1.153041988	-4.969628552	0.040027643	0.003242536	0.02804519
209224	s at	NDUFA2	1.153693954	1.153693954	-5.221811419	0.04067432	0.002750582	0.026651885
218726	at	HJURP	1.153723731	1.153723731	-5.887500453	0.035803667	0.001866033	0.024214643
211475	s at	BAG1	1.154638399	1.154638399	-10.39445895	0.019989749	0.000232762	0.019106877
223306	at	EBPL	1.155686873	1.155686873	-4.919549809	0.042287641	0.003359668	0.028403869
201994	at	MORF4L2	1.156175472	1.156175472	-5.824737106	0.035925913	0.001933081	0.024456722
228612	at		1.158279446	1.158279446	-5.86005141	0.037104827	0.001898346	0.02429188
209207	s at	SEC22B	1.15954183	1.15954183	-10.07692266	0.021307574	0.000261729	0.019532158
203554	x at	PTTG1	1.15969501	1.15969501	-5.651403057	0.037839952	0.00213988	0.024888415
200942	s at	HSBP1	1.160560297	1.160560297	-6.689183087	0.031848944	0.001210094	0.022077836
220079	s at	USP48	1.160714309	1.160714309	-6.53705193	0.032243625	0.001313494	0.022558199
201967	at	RBM6	1.161580149	1.161580149	-6.295995241	0.034416833	0.001483941	0.023244866
210821	x at	CENPA	1.16184943	1.16184943	-5.340037398	0.040237266	0.002562363	0.026146753
211858	x at	GNAS	1.162023495	1.162023495	-7.354741224	0.029018339	0.000906359	0.021431567
218671	s at	ATPIF1	1.162261126	1.162261126	-5.971743099	0.034870458	0.001769097	0.023911127
200663	at	CD63	1.162626622	1.162626622	-4.67676817	0.047623699	0.003955021	0.029811836
201226	at		1.163758923	1.163758923	-10.53811253	0.020878593	0.000208414	0.018999481
228970	at	ZBTB8OS	1.164002844	1.164002844	-5.505032938	0.04037528	0.00232406	0.025387984
217918	at	DYNLRB1	1.164141576	1.164141576	-6.12881656	0.035530197	0.001626923	0.02372996
200599	s at	HSP90B1	1.16414743	1.16414743	-6.216036347	0.035519059	0.001545334	0.023431073
214665	s at	CHP	1.164623666	1.164623666	-4.896326648	0.045614653	0.003417022	0.024888218
209138	x at	IGL@	1.165542284	1.165542284	-5.990977577	0.037202982	0.001748901	0.023911127
1556316	s at	LOC284889	1.165923146	1.165923146	-4.849527038	0.047227867	0.003521229	0.028805698
207993	s at	CHP	1.166802955	1.166802955	-7.17757312	0.031420547	0.000976638	0.021570207
201047	x at	RAB6A	1.16738356	1.16738356	-6.774840089	0.033514112	0.001168088	0.020071113
210087	s at	MPZL1	1.167424247	1.167424247	-4.956137734	0.047735015	0.003275656	0.028170075
201568	at	UQCRCQ	1.168105543	1.168105543	-4.83405805	0.046575415	0.003555157	0.028878892
204318	s at	GTSE1	1.16827881	1.16827881	-4.683935053	0.047134904	0.003941289	0.02978258
224972	at	ROMO1	1.1695378	1.1695378	-6.804052017	0.03253763	0.001147085	0.021990334

225794	s at	C22orf32	1.169632401	1.169632401	-5.547276787	0.042300813	0.002270744	0.025313127
222401	s at	TMEM50A	1.169885688	1.169885688	-5.903829041	0.037904938	0.001849877	0.024177457
218163	at	MCTS1	1.171109753	1.171109753	-5.366463682	0.042707702	0.002514702	0.025962099
216550	x at	ANKRD12	1.171439498	1.171439498	-7.644992437	0.029886749	0.000798113	0.021235971
214459	x at	HLA-C	1.17254559	1.17254559	-9.543714811	0.023945953	0.000331201	0.019573215
210927	x at	JTB	1.17414111	1.17414111	-12.94984777	0.017899519	9.45134E-05	0.018862319
221871	s at	TFG	1.17435102	1.17435102	-5.050141366	0.044961436	0.003069665	0.027576675
219449	s at	TMEM70	1.175403399	1.175403399	-5.647497559	0.041990815	0.002147958	0.024921047
213787	s at	EBP	1.175491122	1.175491122	-4.796233011	0.050473007	0.003646439	0.02908832
229653	at	VPS53	1.176476732	1.176476732	-9.029957776	0.025538505	0.000411174	0.019641818
220215	at	ZNF669	1.176602372	1.176602372	-4.981300281	0.047826946	0.00321507	0.027942191
203511	s at	TRAPPC3	1.176646719	1.176646719	-7.520578359	0.031448607	0.000837695	0.021352262
216526	x at	HLA-C	1.178496655	1.178496655	-4.735997462	0.050286937	0.003804769	0.029383494
224692	at	PPP1R15B	1.178574997	1.178574997	-5.906092302	0.040703535	0.001847454	0.024161192
204949	at	ICAM3	1.178930801	1.178930801	-4.800578496	0.047290182	0.003640785	0.02906584
219662	at	C2orf49	1.180385725	1.180385725	-11.59276225	0.020466888	0.000147021	0.018862319
208827	at	PSMB6	1.180503335	1.180503335	-6.17310228	0.037550069	0.001584917	0.023622322
223262	s at	FGFR1OP2	1.181088917	1.181088917	-6.539274626	0.037465226	0.001311107	0.022558199
214949	at		1.181693333	1.181693333	-5.13115867	0.047245855	0.002907296	0.027058105
212260	at	GIGYF2	1.182553629	1.182553629	-5.197093965	0.046549119	0.002794203	0.026817213
224573	at	RNASEK	1.182675813	1.182675813	-5.895777475	0.041116795	0.001857955	0.024190469
206370	at	PIK3CG	1.182720517	1.182720517	-4.894993678	0.048961779	0.003420253	0.028597544
218059	at	ZNF706	1.182799403	1.182799403	-9.607874139	0.025358004	0.00032393	0.019573215
208972	s at	ATP5G1	1.182824164	1.182824164	-6.831659521	0.035107338	0.001129314	0.021927983
225002	s at	SUMF2	1.184166727	1.184166727	-5.424481869	0.045320046	0.00243069	0.025716612
205997	at	ADAM28	1.184817127	1.184817127	-6.101509096	0.041439639	0.001647926	0.023734205
202962	at	KIF13B	1.185624446	1.185624446	-4.983714275	0.048551717	0.0032078	0.027926378
229827	at	BUB3	1.186315402	1.186315402	-7.271062452	0.033195965	0.000940287	0.021561303
205801	s at	RASGRP3	1.186859037	1.186859037	-7.504516614	0.032045578	0.000845774	0.021366158
201516	at	SRM	1.187006123	1.187006123	-8.760542618	0.028678015	0.000470143	0.019899768
225723	at	C6orf129	1.187045056	1.187045056	-10.0231997	0.024941603	0.000273846	0.019573215
212953	x at	CALR	1.18705786	1.18705786	-6.472498586	0.039170127	0.001353076	0.022718964
212292	at	SLC7A1	1.188319621	1.188319621	-4.941060973	0.04953391	0.003307968	0.028218074
1560587	s at	PRDX5	1.188323617	1.188323617	-5.304710356	0.048904021	0.002618101	0.02628798
201702	s at	PPP1R10	1.188438663	1.188438663	-5.871657668	0.043150239	0.001882997	0.024254553
223989	s at	REXO2	1.188455549	1.188455549	-6.153626965	0.040882538	0.00160592	0.023666554
200820	at	PSMD8	1.190670884	1.190670884	-5.139169995	0.049202862	0.002894371	0.027028535
228498	at		1.19140735	1.19140735	-4.834413123	0.053539875	0.003553541	0.028878892
207769	s at	POBPI	1.1923056	1.1923056	-5.15108066	0.050317538	0.002868521	0.027003088
232902	s at	RARS2	1.192598004	1.192598004	-6.427699988	0.03880997	0.001390235	0.022751145
208705	s at	EIF5	1.192759238	1.192759238	-4.731409169	0.051864694	0.003818502	0.029396711
218026	at	CCDC56	1.193338699	1.193338699	-10.19424966	0.025235727	0.00025042	0.019468818
203152	at	MRPL40	1.19395719	1.19395719	-16.52786552	0.015453339	3.31201E-05	0.018783212
201201	at	CSTB	1.194630527	1.194630527	-5.12229688	0.052589975	0.002925068	0.027099707
204820	s at		1.194751108	1.194751108	-5.617920459	0.04676475	0.002182694	0.025002853
225134	at	SPRYD3	1.195804978	1.195804978	-4.854449819	0.050909076	0.003506689	0.0287637
217917	s at	DYNLRB1	1.195843851	1.195843851	-6.664347909	0.039586955	0.001225443	0.022140993
208734	x at	RAB2A	1.197233633	1.197233633	-7.931104178	0.033486159	0.000702792	0.020928903
219703	at	MNS1	1.197515474	1.197515474	-5.56489077	0.048338704	0.002245702	0.025189958
218168	s at	CABC1	1.197756465	1.197756465	-7.38620031	0.035740368	0.000893434	0.021431567
218098	at	ARFGEF2	1.198771878	1.198771878	-6.166074035	0.041991371	0.001593803	0.023622322
211084	x at	PRKD3	1.198866346	1.198866346	-5.688550454	0.044403395	0.002092219	0.024798531
203261	at	DCTN6	1.198877865	1.198877865	-5.138681898	0.050214954	0.002896795	0.027028535
210334	x at	BIRC5	1.19955657	1.19955657	-5.0099157	0.048614386	0.003152869	0.027816732
226153	s at	CNOT6L	1.201231967	1.201231967	-5.377180448	0.049431881	0.002500969	0.025924803
221803	s at	NRBF2	1.201824755	1.201824755	-9.700814532	0.027858307	0.000311006	0.019573215
216563	at	ANKRD12	1.202604547	1.202604547	-5.315987513	0.04973918	0.002605176	0.026251598
212006	at	UBXN4	1.203033072	1.203033072	-5.56323096	0.046956085	0.002248934	0.025211987
214084	x at		1.203215611	1.203215611	-5.758610965	0.051062243	0.002010631	0.02460486
215121	x at		1.203457159	1.203457159	-5.29003479	0.051184002	0.002639104	0.026356817
228711	at	ZNF37A	1.203508815	1.203508815	-5.331297194	0.049186256	0.002577711	0.026146753
201098	at	COPB2	1.203963949	1.203963949	-5.366626465	0.049171177	0.002513894	0.025962099
202265	at	BMI1	1.204048882	1.204048882	-5.225494739	0.051680306	0.002742504	0.026611359
216392	s at	SEC23IP	1.204212652	1.204212652	-4.689264089	0.055639701	0.003926748	0.029722647
209709	s at	HMMR	1.205745691	1.205745691	-5.130809152	0.052564321	0.002908104	0.027058105
221620	s at	APOO	1.206728721	1.206728721	-5.78310963	0.050697307	0.00198155	0.024547649
213577	at	SQLE	1.206965653	1.206965653	-7.162458223	0.038506262	0.000986332	0.021570207
209463	s at	TAF12	1.208684274	1.208684274	-6.232393471	0.043587115	0.001533217	0.023421828
208737	at	ATP6V1G1	1.209433266	1.209433266	-8.82351855	0.031123153	0.000458026	0.019754342
218850	s at	LIMD1	1.209769254	1.209769254	-5.14071596	0.053559471	0.002889524	0.027026994

204725	s at	NCK1	1.210147536	1.210147536	-5.47959728	0.049972076	0.002354756	0.025500346
208812	x at	HLA-C	1.211694916	1.211694916	-8.370864736	0.032612852	0.000568696	0.020326287
201543	s at	SAR1A	1.211793242	1.211793242	-5.210882075	0.053469895	0.002768353	0.026748204
212139	at	GCN1L1	1.212486631	1.212486631	-5.595875915	0.049719268	0.002215814	0.025102006
200976	s at	TAX1BP1	1.212882227	1.212882227	-5.656972669	0.048916091	0.002131802	0.02486502
205267	at	POU2AF1	1.212945751	1.212945751	-5.430598494	0.051377177	0.002420997	0.025693641
202568	s at	MARK3	1.213274009	1.213274009	-5.437462231	0.050576354	0.002409687	0.025680008
212737	at	GM2A	1.213442152	1.213442152	-5.406165915	0.051299068	0.002460579	0.02581855
200065	s at	ARF1	1.214617905	1.214617905	-6.429624767	0.04405147	0.001387004	0.022751145
208289	s at	EI24	1.214930698	1.214930698	-4.981572667	0.056120243	0.003212647	0.027939999
217409	at		1.214975147	1.214975147	-4.848731006	0.059835908	0.003522037	0.028805698
209062	x at	NCOA3	1.216178624	1.216178624	-5.038753531	0.058422614	0.003096323	0.027669518
225970	at	DDHD1	1.216356082	1.216356082	-4.944058773	0.058858558	0.003301506	0.028214779
203800	s at	MRPS14	1.216662356	1.216662356	-5.730814574	0.049637383	0.002034057	0.02468012
203971	at	SLC31A1	1.217008726	1.217008726	-5.640121376	0.050324221	0.002159267	0.024925047
1555037	a at	IDH1	1.217242536	1.217242536	-5.468038655	0.051516936	0.002370912	0.025552945
201622	at	SND1	1.217509562	1.217509562	-6.410492242	0.044355301	0.001403968	0.02281686
1565627	a at		1.217983346	1.217983346	-5.375648157	0.056284121	0.002502585	0.025928436
217236	x at		1.218753579	1.218753579	-8.272871745	0.034728703	0.000598585	0.020479181
213187	x at	FTL	1.218787698	1.218787698	-5.701128194	0.048020211	0.002076063	0.024769518
205077	s at	PIGF	1.219083959	1.219083959	-4.738630051	0.059932889	0.003796691	0.029383494
227407	at	TAPT1	1.220031051	1.220031051	-5.335560965	0.052751865	0.002570441	0.026146753
214669	x at	IGKC	1.220815814	1.220815814	-8.306046505	0.034766187	0.000587275	0.020398752
231193	s at		1.221502063	1.221502063	-4.700262098	0.063175983	0.003895244	0.029588681
208942	s at	SEC62	1.221538947	1.221538947	-5.979876027	0.048643814	0.001761826	0.023911127
201845	s at	RYBP	1.221586056	1.221586056	-6.655307411	0.044424444	0.001229482	0.022160287
225215	s at	MTRFIL	1.222611668	1.222611668	-5.451859243	0.054265865	0.002392723	0.025622212
211373	s at	PSEN2	1.222910627	1.222910627	-5.267940988	0.056159804	0.002673032	0.026420625
220072	at	CSPP1	1.223234173	1.223234173	-7.805418863	0.037753075	0.00074399	0.020928903
209417	s at	IFI35	1.224133779	1.224133779	-8.632361857	0.035267252	0.00050084	0.019976615
212497	at	MAPK1IP1L	1.224859753	1.224859753	-6.185083497	0.045743032	0.001575223	0.023563252
208553	at	HIST1H1E	1.225361076	1.225361076	-11.00633529	0.026450084	0.000172871	0.018919652
209206	at	SEC22B	1.225934993	1.225934993	-4.711017413	0.06250415	0.003877472	0.025850962
211799	x at	HLA-C	1.227395134	1.227395134	-5.764202863	0.051406496	0.002002553	0.024598948
212008	at	UBXN4	1.227581121	1.227581121	-7.390309877	0.039899828	0.000890203	0.021431567
201422	at	IFI30	1.227878799	1.227878799	-7.00771681	0.042694719	0.001059035	0.021777307
218009	s at	PRC1	1.227937364	1.227937364	-5.395196371	0.056368443	0.002474312	0.025835102
227426	at	SOS1	1.228222076	1.228222076	-7.855352313	0.038197389	0.000722179	0.020928903
232118	at	CRLS1	1.228709644	1.228709644	-4.963154291	0.062046742	0.003256269	0.02811582
209075	s at	ISCU	1.228818358	1.228818358	-6.24138677	0.048716348	0.001525947	0.023389543
242919	at		1.229479546	1.229479546	-5.206218249	0.058050913	0.002778047	0.026778738
225641	at	MEF2D	1.229841589	1.229841589	-4.905934273	0.062012667	0.003397635	0.028524805
210788	s at	DHRS7	1.230318229	1.230318229	-5.142021883	0.062338422	0.002887909	0.027026994
1555575	a at	KDELRL1	1.230347111	1.230347111	-5.612481055	0.054456439	0.002194003	0.02503011
235415	at	RPRD2	1.230364872	1.230364872	-4.676325446	0.065752982	0.003956637	0.029811836
200798	x at	MCL1	1.230372189	1.230372189	-5.869127284	0.050621727	0.001885421	0.024270514
218562	s at	TMEM57	1.230686267	1.230686267	-5.885033096	0.051478565	0.001868457	0.024214643
200803	s at	TMBIM6	1.230826982	1.230826982	-7.914119914	0.037603518	0.000708446	0.020928903
217239	x at		1.231600543	1.231600543	-5.465246314	0.055313949	0.002375759	0.025552945
211529	x at	HLA-G	1.232068341	1.232068341	-5.999256467	0.050297367	0.001737592	0.023911127
212333	at	FAM98A	1.232149852	1.232149852	-5.435569162	0.055185239	0.002412918	0.025682102
225373	at	C10orf54	1.232899223	1.232899223	-8.95306854	0.034499551	0.000429753	0.01973829
208706	s at	EIF5	1.233748368	1.233748368	-5.535259121	0.055609137	0.002287708	0.025342106
238604	at		1.233840846	1.233840846	-5.93199469	0.050926601	0.001817565	0.024072751
225633	at	DPY19L3	1.234395474	1.234395474	-6.428071858	0.046989824	0.001389427	0.022751145
221960	s at	RAB2A	1.236088843	1.236088843	-7.450601641	0.04119276	0.000865161	0.021383976
221881	s at	CLIC4	1.237206601	1.237206601	-4.935852469	0.063944368	0.003320085	0.028227438
212397	at	RDX	1.23744112	1.23744112	-5.057012798	0.061771479	0.003052701	0.027540199
224899	s at	MAGT1	1.237768068	1.237768068	-4.750633259	0.066633856	0.003765187	0.029359258
212890	at	SLC38A10	1.237872531	1.237872531	-5.221379411	0.058587977	0.002752197	0.026654937
201858	s at	SRGN	1.238102036	1.238102036	-5.229997341	0.058600683	0.002740888	0.026608281
201765	s at	HEXA	1.239430603	1.239430603	-7.848496554	0.041129406	0.000727834	0.020928903
203201	at	PMM2	1.239702955	1.239702955	-6.159318001	0.052679241	0.001600265	0.023622322
223016	x at	ZRANB2	1.240156719	1.240156719	-4.714315639	0.06625619	0.003866697	0.029510008
207628	s at	WBSR22	1.240455164	1.240455164	-7.336390061	0.042264002	0.000910398	0.02144499
208731	at	RAB2A	1.240737944	1.240737944	-4.742131265	0.066518724	0.00378619	0.029383494
1564962	at	ZNF92	1.240995289	1.240995289	-7.174219187	0.042755898	0.000979869	0.021570207
235067	at	MKLN1	1.241199141	1.241199141	-5.65734612	0.054232046	0.002130186	0.024860325
234863	x at	FBXO5	1.241652993	1.241652993	-6.694143324	0.045565806	0.001208479	0.022077836
215509	s at	BUB1	1.241730624	1.241730624	-4.676117782	0.067855559	0.003958253	0.029811836

201779	s at	RNF13	1.241736841	1.241736841	-5.246883777	0.060172714	0.002709383	0.026515973
225621	at	ALG2	1.242149271	1.242149271	-5.220339266	0.063064214	0.002753813	0.026657986
209013	x at	TRIO	1.243138506	1.243138506	-5.4534325	0.05609444	0.002391915	0.025622212
200971	s at	SERP1	1.243441503	1.243441503	-18.63638425	0.016917456	2.26186E-05	0.018783212
234464	s at	EME1	1.24399394	1.24399394	-5.286267399	0.059983494	0.002647182	0.026386058
200902	at	39339	1.244103019	1.244103019	-5.108893973	0.063261945	0.002954149	0.027184787
219329	s at	C2orf28	1.244454347	1.244454347	-6.79370926	0.046551976	0.001154356	0.022007113
220742	s at	NGLY1	1.244696222	1.244696222	-5.372905249	0.059630557	0.002506624	0.02594405
203208	s at	MTFR1	1.24489427	1.24489427	-5.028837537	0.065433437	0.003116518	0.027713148
201678	s at	C3orf37	1.247702661	1.247702661	-4.952902819	0.065301877	0.003282118	0.028178352
213777	s at	CREBZF	1.248210635	1.248210635	-6.311660655	0.051370784	0.001472632	0.023161327
206369	s at	PIK3CG	1.248339531	1.248339531	-5.914198855	0.054510935	0.001834529	0.024141378
200789	at	ECH1	1.248353654	1.248353654	-7.788302646	0.041279504	0.000748837	0.020928903
230621	at		1.249802135	1.249802135	-5.640614935	0.056951593	0.002157652	0.024925047
212811	x at	SLC1A4	1.249844329	1.249844329	-5.025549215	0.062950411	0.003125404	0.027739331
216275	at	BUB1	1.250898139	1.250898139	-9.189480189	0.035249209	0.000384516	0.024814181
208729	x at	HLA-B	1.251135549	1.251135549	-9.254671042	0.036694726	0.000379669	0.019641818
202655	at	MANF	1.251152385	1.251152385	-5.16133326	0.064534851	0.002851557	0.026974909
201531	at	ZFP36	1.251169666	1.251169666	-13.41797068	0.024236682	7.83572E-05	0.018862319
218213	s at	C11orf10	1.251815986	1.251815986	-8.576706215	0.037777055	0.000516996	0.0219976615
218320	s at	NDUFB11	1.251964869	1.251964869	-7.660011168	0.042946828	0.000793266	0.02122286
220864	s at	NDUFA13	1.252041834	1.252041834	-7.266467013	0.044771884	0.000941095	0.021561303
227133	at	FAM199X	1.252126137	1.252126137	-8.049552515	0.040665071	0.000656747	0.020802113
216986	s at	IRF4	1.252354716	1.252354716	-7.964039019	0.040689912	0.000691482	0.020928903
223900	s at	PBRM1	1.253068359	1.253068359	-6.964076429	0.045356139	0.001078422	0.02180653
218498	s at	ERO1L	1.253547052	1.253547052	-5.420874976	0.062881276	0.002434729	0.025719511
217787	s at	GALNT2	1.253828096	1.253828096	-8.672017644	0.038183726	0.000491146	0.019976615
218628	at	CCDC53	1.253917629	1.253917629	-5.546357958	0.058400643	0.00227236	0.025313127
224607	s at	SRP68	1.253976965	1.253976965	-4.760396369	0.071565128	0.003736914	0.029299785
221488	s at	CUTA	1.254045286	1.254045286	-5.431556322	0.062096764	0.002419381	0.025689799
217871	s at	MIF	1.254185173	1.254185173	-6.693288976	0.048406494	0.001209287	0.022077836
37232	at	KIAA0586	1.254708719	1.254708719	-7.881153549	0.041482183	0.000716524	0.020928903
227063	at	C17orf61	1.25674462	1.25674462	-6.636330179	0.051200934	0.001236752	0.021933097
214537	at	HIST1H1D	1.257018435	1.257018435	-7.325298743	0.044054713	0.000913629	0.021471743
214430	at	GLA	1.257148653	1.257148653	-6.117616933	0.054301263	0.00163904	0.023734205
201625	s at	INSIG1	1.25850226	1.25850226	-7.249924847	0.046305388	0.000949173	0.021561303
203327	at	IDE	1.258837835	1.258837835	-5.982108839	0.055297562	0.001759403	0.023911127
216557	x at		1.259561185	1.259561185	-5.552139922	0.06104373	0.002262666	0.02528337
225795	at	C22orf32	1.259627966	1.259627966	-5.728012069	0.058261624	0.002038096	0.024695065
217839	at	TFG	1.26026059	1.26026059	-5.107756656	0.067413607	0.002958188	0.027195409
212237	at	ASXL1	1.261101808	1.261101808	-5.67530443	0.059810238	0.002190183	0.0214827305
205732	s at	NCOA2	1.261261792	1.261261792	-7.672223852	0.044217357	0.000785188	0.021197821
204324	s at	GOLIM4	1.261370426	1.261370426	-5.390920504	0.061548578	0.002478351	0.025837781
226372	at	CHST11	1.261648147	1.261648147	-4.857780122	0.071753765	0.003494572	0.028754988
201989	s at	CREBL2	1.262514887	1.262514887	-6.173056745	0.056404422	0.001585724	0.02362322
214527	s at	PQBPI	1.26281856	1.26281856	-9.567968082	0.035060087	0.000329585	0.019573215
201097	s at	ARF4	1.263326201	1.263326201	-5.408195158	0.063034075	0.002455732	0.025790383
233955	x at	CXXC5	1.26434178	1.26434178	-4.959547407	0.070241001	0.003265962	0.028145068
235434	at		1.264681231	1.264681231	-7.377318811	0.045372494	0.000899897	0.021431567
32540	at	PPP3CC	1.264787893	1.264787893	-11.47601415	0.029112059	0.000153483	0.018878161
222155	s at	GPR172A	1.264940493	1.264940493	-5.729314226	0.068366177	0.002035673	0.024685108
214916	x at		1.26553825	1.26553825	-6.260653603	0.054042337	0.001512214	0.023355947
207966	s at	GLG1	1.265555394	1.265555394	-5.808721314	0.058256806	0.001953276	0.024473037
212352	s at	TMED10	1.265740795	1.265740795	-7.774193155	0.044170306	0.000752068	0.020928903
1555889	a at	CRTAP	1.265793865	1.265793865	-4.746269089	0.074482442	0.003773265	0.029368394
202605	at	GUSB	1.2661864	1.2661864	-4.667417512	0.076654949	0.003987334	0.029888067
200889	s at	SSR1	1.26627258	1.26627258	-5.196434256	0.067099879	0.002795011	0.026817213
208073	x at	TTC3	1.266561284	1.266561284	-5.805356089	0.058931212	0.001956508	0.02447831
217898	at	C15orf24	1.266870255	1.266870255	-5.907597145	0.059555375	0.00184503	0.024161192
201831	s at	USO1	1.267110116	1.267110116	-13.03038845	0.026087095	8.88587E-05	0.018862319
215773	x at	PARP2	1.267415631	1.267415631	-5.384461285	0.063277981	0.002490468	0.025863566
213206	at	GOSR2	1.267465491	1.267465491	-6.262092774	0.053347806	0.001510598	0.023355947
221844	x at	SPCS3	1.268640867	1.268640867	-5.712043873	0.062491068	0.00206233	0.024725551
217927	at	SPCS1	1.26955131	1.26955131	-8.214461919	0.041664577	0.00061878	0.020646567
208684	at	COPA	1.270350019	1.270350019	-8.486323649	0.040199018	0.000537999	0.02003358
205037	at	RABL4	1.271263652	1.271263652	-4.71677972	0.074326639	0.003857277	0.029462791
205745	x at	ADAM17	1.271723104	1.271723104	-4.696110289	0.074331189	0.003910592	0.029649012
213224	s at	NCRNA00081	1.271835377	1.271835377	-4.721629119	0.076519163	0.003848391	0.029447722
78047	s at		1.271959967	1.271959967	-5.305817138	0.068434731	0.002616486	0.02628798
217849	s at	CDC42BPB	1.272210734	1.272210734	-4.77341942	0.075010488	0.003707025	0.029207803

237333	at	RBBP4	1.272783532	1.272783532	-5.289286647	0.064065396	0.00264072	0.026360106
226370	at	KLHL15	1.272850389	1.272850389	-5.39084811	0.062332275	0.002479159	0.025837781
225070	at	NUS1	1.273345268	1.273345268	-9.054759187	0.038261235	0.000406327	0.019641818
204522	at	DOM3Z	1.273790781	1.273790781	-5.758409915	0.059953901	0.002011439	0.02460486
201502	s at	NFKBIA	1.27434522	1.27434522	-6.571478531	0.050629378	0.001281989	0.022392552
202545	at	PRKCD	1.274424849	1.274424849	-5.11095395	0.06800883	0.002952533	0.027182125
218226	s at	NDUFB4	1.274595554	1.274595554	-10.35374287	0.034146177	0.000227801	0.019132885
211911	x at	HLA-B	1.274689744	1.274689744	-9.44845282	0.037772836	0.000351396	0.019620379
228124	at	ABHD12	1.27496198	1.27496198	-5.056144806	0.071641196	0.003055933	0.027540199
212887	at	SEC23A	1.275664391	1.275664391	-6.750522148	0.053397419	0.001179398	0.022022852
224535	s at	MRP63	1.275794084	1.275794084	-11.60755956	0.029929891	0.000146213	0.018862319
220941	s at	C21orf91	1.276542342	1.276542342	-6.036196856	0.058868854	0.001708511	0.02385094
212860	at	ZDHC18	1.277749651	1.277749651	-5.664832864	0.065311285	0.0021213	0.024827316
212167	s at	SMARCB1	1.277757511	1.277757511	-4.909766796	0.074067396	0.003385518	0.028488211
230265	at	SEL1L	1.277923984	1.277923984	-4.861570278	0.074021843	0.003488917	0.028749388
220195	s at	TMED5	1.278834021	1.278834021	-6.197144778	0.058845177	0.001563106	0.021531802
218140	x at	SRPRB	1.279223791	1.279223791	-6.585988987	0.055794991	0.00127068	0.022328269
221937	at	SYNRG	1.279562448	1.279562448	-6.829756839	0.052979901	0.001132545	0.021927983
224949	at	YIPF5	1.280353535	1.280353535	-5.861366884	0.062254171	0.001895114	0.02429188
208722	s at	ANAPC5	1.281202923	1.281202923	-4.733328741	0.075787053	0.003757109	0.029331767
212205	at	H2AFV	1.281719488	1.281719488	-5.787263025	0.06152003	0.001978318	0.024547649
204278	s at	EBAG9	1.282325307	1.282325307	-4.783341969	0.076245777	0.00368279	0.029165666
222590	s at	NLK	1.283230861	1.283230861	-6.170894817	0.057344154	0.001588956	0.023622322
218875	s at	FBXO5	1.283609941	1.283609941	-6.037388628	0.060982398	0.001706088	0.02385094
222422	s at	NDFIP1	1.283706681	1.283706681	-6.07941145	0.063459195	0.001673775	0.023793789
201126	s at	MGAT1	1.284794891	1.284794891	-6.947323276	0.05370362	0.001084077	0.021818406
211048	s at	PDIA4	1.285037462	1.285037462	-4.72812425	0.07883094	0.00382658	0.0294147
216510	x at		1.286081026	1.286081026	-5.085113677	0.072950356	0.002998578	0.027367878
207707	s at	SEC13	1.286559705	1.286559705	-5.996888363	0.061634192	0.0017384	0.023911127
219080	s at	CTPS2	1.286685269	1.286685269	-4.866697735	0.079239676	0.003480031	0.028722363
210785	s at	C1orf38	1.286915608	1.286915608	-7.547074255	0.050541268	0.000827194	0.021296492
79005	at	SLC35E1	1.287815455	1.287815455	-4.950523573	0.073166612	0.003286965	0.028196339
209398	at	HIST1H1C	1.287883883	1.287883883	-9.863396463	0.037258045	0.000294042	0.019573215
208577	at	HIST1H3C	1.288565767	1.288565767	-7.31939251	0.049558664	0.000917668	0.021505985
209177	at	NDUFAF3	1.288585775	1.288585775	-6.498804704	0.057680497	0.001337728	0.022675414
201883	s at	B4GALT1	1.289122061	1.289122061	-9.421843454	0.039638469	0.000356243	0.019620379
225157	at	MLXIP	1.289738011	1.289738011	-5.91265869	0.072132875	0.002805512	0.026841483
212007	at	UBXN4	1.29004651	1.29004651	-6.849211088	0.053722666	0.001123659	0.021925914
218257	s at	UGGT1	1.290062884	1.290062884	-9.236819907	0.039513072	0.000380477	0.019641818
209831	x at	DNASE2	1.290771107	1.290771107	-5.352015469	0.06561484	0.002539744	0.026066602
201894	s at		1.291075012	1.291075012	-7.598827267	0.048892531	0.000815885	0.021257734
224887	at	GNPTG	1.291532707	1.291532707	-6.541723001	0.056215264	0.001310262	0.022558199
226843	s at	PAPD5	1.291837761	1.291837761	-5.332818107	0.072704124	0.00257448	0.026146753
201618	x at	GPAAL	1.292279267	1.292279267	-5.298844009	0.069006075	0.002627795	0.026295129
222632	s at	LZTFL1	1.292942048	1.292942048	-5.478483752	0.067871446	0.00235718	0.025500346
201900	s at	AKR1A1	1.293185255	1.293185255	-6.112914999	0.060985624	0.001640655	0.023734205
224464	s at	NUDT22	1.293447786	1.293447786	-6.190159697	0.063799221	0.001568761	0.023518082
208872	s at	REEP5	1.293732952	1.293732952	-5.710727349	0.067647786	0.002063138	0.024725551
204752	x at	PARP2	1.294523827	1.294523827	-5.072985454	0.073584106	0.003029275	0.027456925
208925	at	CLDN1	1.294968178	1.294968178	-5.417449181	0.073287495	0.002441192	0.025750803
212603	at	MRPS31	1.29501291	1.29501291	-5.992040576	0.06238142	0.001747286	0.023911127
225071	at	NUS1	1.295514668	1.295514668	-7.827145326	0.047725991	0.000737527	0.020928903
208715	at	TMCO1	1.295918897	1.295918897	-4.920119682	0.076564261	0.003357244	0.028403869
224629	at	LMAN1	1.29626726	1.29626726	-8.01847828	0.047293491	0.00066644	0.020874397
212622	at	TMEM41B	1.297052233	1.297052233	-4.830996214	0.077268309	0.003560812	0.02888572
202825	at	SLC25A4	1.297507806	1.297507806	-4.962113156	0.076846609	0.0032595	0.02811582
200714	x at	OS9	1.297535478	1.297535478	-7.864915927	0.048297513	0.00071814	0.020928903
218217	at	SCPEP1	1.298901617	1.298901617	-5.92255507	0.044120733	0.000512149	0.019976615
221824	s at	39148	1.298924283	1.298924283	-5.620245765	0.068444741	0.002178655	0.024984898
203189	s at	NDUFS8	1.299240872	1.299240872	-6.466620613	0.05878457	0.0013555	0.022718964
232032	x at	SDF4	1.299765946	1.299765946	-4.91218925	0.07710825	0.003383094	0.028488211
214516	at	HIST1H4B	1.300056041	1.300056041	-5.271711735	0.071089565	0.002665762	0.026420625
203342	at	TIMM17B	1.302594013	1.302594013	-5.501312288	0.068338061	0.002327291	0.025409737
227254	at	POU2F1	1.303284265	1.303284265	-4.774142631	0.081184048	0.003705409	0.029206303
228924	s at	UBE2J1	1.3039543	1.3039543	-5.65185979	0.069473498	0.002139072	0.024888415
222411	s at	SSR3	1.304302206	1.304302206	-5.326875948	0.073205474	0.002583366	0.026152331
212810	s at	SLC1A4	1.305083744	1.305083744	-7.188077689	0.055553625	0.000970176	0.021570207
222235	s at		1.305885916	1.305885916	-4.67132463	0.084390032	0.003975216	0.029851834
211650	x at		1.305955889	1.305955889	-6.86171165	0.056380685	0.001117197	0.021925493
200652	at	SSR2	1.308514031	1.308514031	-9.419862773	0.041927757	0.000357858	0.019620379

200710	at	ACADVL	1.308949869	1.308949869	-11.9674637	0.033047562	0.000123594	0.018862319
232382	s at	PCMTD1	1.309315609	1.309315609	-4.83336182	0.081117153	0.003555965	0.028878892
200969	at	SERP1	1.30947686	1.30947686	-5.820966356	0.068469073	0.001938736	0.024456722
201559	s at	CLIC4	1.309671619	1.309671619	-5.507480465	0.072172233	0.002319213	0.025375037
222654	at	IMPAD1	1.309851313	1.309851313	-14.87822852	0.026447877	5.08918E-05	0.018862319
200046	at	DAD1	1.309905475	1.309905475	-6.475431934	0.061716604	0.001349845	0.022718964
218025	s at	PECI	1.311186298	1.311186298	-5.041241517	0.073890121	0.003088245	0.027644172
213627	at	MAGED2	1.311770337	1.311770337	-4.882709355	0.080291303	0.003446911	0.028633516
214264	s at	C14orf143	1.311851579	1.311851579	-16.79540098	0.023469787	2.98888E-05	0.018783212
212207	at	MED13L	1.312049862	1.312049862	-9.899585735	0.039474795	0.000288387	0.019573215
201844	s at	RYBP	1.312170168	1.312170168	-5.713515852	0.069778314	0.002058291	0.024725551
200654	at	P4HB	1.312365428	1.312365428	-6.706625508	0.059909903	0.001203632	0.022077836
232617	at	CTSS	1.312437811	1.312437811	-5.151919478	0.073822865	0.002866906	0.027000282
202475	at	TMEM147	1.312733905	1.312733905	-4.78298318	0.079546889	0.003684406	0.029165666
212220	at	PSME4	1.312787016	1.312787016	-4.934469374	0.077670868	0.003324124	0.028231484
221274	s at	LMAN2L	1.31292622	1.31292622	-4.735008347	0.08457741	0.003808001	0.028383494
218563	at	NDUFA3	1.31300519	1.31300519	-11.7110606	0.034683652	0.000137327	0.018862319
201439	at	GBF1	1.313559888	1.313559888	-5.454863738	0.072368227	0.002389492	0.025622212
227537	s at	SP3	1.313597259	1.313597259	-6.989587519	0.054697735	0.001065497	0.021777307
202857	at	CNPY2	1.314060844	1.314060844	-7.833383486	0.050584706	0.000734296	0.020928903
217906	at	KLHDC2	1.314380854	1.314380854	-4.930060475	0.081999029	0.003332202	0.028264949
222667	s at	ASH1L	1.314548082	1.314548082	-4.713959444	0.086192726	0.003867778	0.029510008
218319	at	PELI1	1.314684841	1.314684841	-5.744628998	0.066986309	0.002024363	0.024640687
200967	at	PP1B	1.314796917	1.314796917	-6.778911167	0.059815547	0.001163242	0.022077113
218333	at	DERL2	1.315274984	1.315274984	-5.712727695	0.070482297	0.002059907	0.024725551
212398	at	RDX	1.315316681	1.315316681	-5.247408186	0.077823768	0.002707768	0.026515973
218927	s at	CHST12	1.315515886	1.315515886	-5.498248052	0.071948005	0.002329714	0.025420771
217436	x at	HLA-J	1.316032167	1.316032167	-5.762725614	0.074070876	0.002004976	0.024604044
212206	s at	H2AFV	1.316649724	1.316649724	-6.285728685	0.061501984	0.001490403	0.023294552
208576	s at	HIST1H3B	1.316784164	1.316784164	-9.143839465	0.042650783	0.000391786	0.019641818
202143	s at	COP8S	1.317024674	1.317024674	-4.862472709	0.078564942	0.003487301	0.028747634
230172	at	IFI27L1	1.317094097	1.317094097	-4.829088046	0.084522025	0.003571313	0.028893923
217168	s at	HERPUD1	1.317354642	1.317354642	-4.942589372	0.082416553	0.003305545	0.028218074
226860	at	TMEM19	1.317451252	1.317451252	-9.776854271	0.041091989	0.000306159	0.019573215
228016	s at		1.318333152	1.318333152	-4.741229452	0.085449475	0.003791844	0.029383494
223042	s at	FUNDC2	1.319344489	1.319344489	-7.502429422	0.053701221	0.000846581	0.021366158
209205	s at	LMO4	1.319944008	1.319944008	-4.856970242	0.086656451	0.003497803	0.028754988
200929	at	TMED10	1.320191328	1.320191328	-10.30973099	0.039162006	0.000232648	0.019302641
212289	at	ANKRD12	1.320615014	1.320615014	-5.526512547	0.073137769	0.002300633	0.025359629
219976	at	HOOK1	1.320843916	1.320843916	-5.634521539	0.07110484	0.002164114	0.024925047
232924	at		1.321124901	1.321124901	-5.269628631	0.07593213	0.002671417	0.024620625
208943	s at	SEC62	1.323001243	1.323001243	-8.783231016	0.045550984	0.000465297	0.019858751
224702	at	TMEM167A	1.324727421	1.324727421	-4.744745354	0.081751031	0.00377488	0.029369814
221704	s at	VPS37B	1.326304756	1.326304756	-5.07136866	0.086643187	0.003032506	0.027464415
215690	x at	GPA1	1.326420569	1.326420569	-5.608977476	0.072058308	0.002199657	0.025043106
1553102	a at	CCDC69	1.326519198	1.326519198	-10.42784933	0.039706536	0.000221339	0.019058767
223450	s at	COG3	1.32693915	1.32693915	-4.996858449	0.08121585	0.003179527	0.027890909
226005	at	UBE2G1	1.32741196	1.32741196	-8.418771921	0.048746904	0.000553348	0.020272862
202749	at	WRB	1.327711699	1.327711699	-6.024792905	0.070631879	0.001719013	0.023894879
221734	at	PRRC1	1.328149745	1.328149745	-5.666566687	0.072586508	0.002118069	0.024827316
217281	x at		1.328438833	1.328438833	-7.166164826	0.058292774	0.000985524	0.021570207
209626	s at	OSBPL3	1.329368524	1.329368524	-5.451542296	0.074809093	0.002393531	0.025622212
235643	at	SAMD9L	1.329959142	1.329959142	-4.855592068	0.085930916	0.00350265	0.028758477
225304	s at	NDUFA11	1.331380391	1.331380391	-5.581896469	0.077837257	0.002226315	0.0251134
202064	s at	SEL1L	1.332557553	1.332557553	-6.144804232	0.068567428	0.001613998	0.023685039
226345	at		1.3328772	1.3328772	-5.945411182	0.070578956	0.001806256	0.024042445
201924	at	AFF1	1.332940406	1.332940406	-8.703747582	0.047637126	0.000483068	0.019976615
233632	s at	XRN1	1.333054771	1.333054771	-6.537477217	0.063927929	0.001312686	0.022558199
238035	at	SP3	1.333129062	1.333129062	-5.806444118	0.071641333	0.001954892	0.024473037
232591	s at	TMEM30A	1.33314134	1.33314134	-6.941273902	0.060413085	0.0010865	0.021829476
206770	s at	SLC35A3	1.333153751	1.333153751	-5.852388003	0.074125856	0.001906424	0.02429188
231302	at		1.333376234	1.333376234	-5.384166421	0.079149339	0.002491276	0.025863566
203884	s at	RAB11FIP2	1.333692229	1.333692229	-5.903247996	0.070441969	0.001851493	0.024178291
223043	at	TMEM85	1.333930074	1.333930074	-7.299462866	0.0589757	0.000924131	0.021539916
220656	at	NAA16	1.33425611	1.33425611	-6.951399728	0.058984048	0.001082461	0.021812479
215779	s at	HIST1H2BG	1.334513266	1.334513266	-7.756681341	0.053214753	0.000760146	0.02097076
201732	s at	CLCN3	1.334741085	1.334741085	-7.972530482	0.052176049	0.000686636	0.020928903
234874	at	ATE1	1.335407435	1.335407435	-5.159261897	0.08083613	0.002855596	0.02698339
224637	at	LOC100128731	1.336009404	1.336009404	-11.95275561	0.034430278	0.000124402	0.018862319
201078	at	TM9SF2	1.336201294	1.336201294	-5.913110738	0.072634231	0.001836952	0.024142264

205012	s at	HAGH	1.336351097	1.336351097	-5.931084963	0.070795421	0.001818373	0.024072751
219373	at	DPM3	1.33692942	1.33692942	-6.328072513	0.069528956	0.001459707	0.023099872
222482	at		1.336941004	1.336941004	-6.860155797	0.064549439	0.001118004	0.021925493
214658	at		1.337687718	1.337687718	-6.161928606	0.070877293	0.001597842	0.023622322
209477	at	EMD	1.337951284	1.337951284	-6.713494847	0.063548267	0.001200401	0.022058093
203952	at	ATF6	1.337973181	1.337973181	-5.300312594	0.080452173	0.002622214	0.026288468
213410	at	C10orf137	1.338084472	1.338084472	-5.091030869	0.081233477	0.002988077	0.027288689
209546	s at	APOL1	1.338321346	1.338321346	-6.30465435	0.070993193	0.001475863	0.023189259
225272	at	SAT2	1.33865491	1.33865491	-7.184462463	0.059242743	0.000971791	0.021570207
200918	s at	SRPR	1.338717186	1.338717186	-6.730211537	0.063034265	0.001190707	0.022053059
202909	at	EPM2AIP1	1.33917932	1.33917932	-5.608834233	0.074226496	0.002200465	0.025043106
223336	s at	RAB18	1.340015292	1.340015292	-6.804269758	0.059917572	0.00114547	0.021979923
201176	s at	ARCN1	1.340228644	1.340228644	-5.722676231	0.073753743	0.002045366	0.024725551
208662	s at	TTC3	1.340762384	1.340762384	-9.717437219	0.043293663	0.00030939	0.019573215
201096	s at	ARF4	1.340796052	1.340796052	-5.365036893	0.081422522	0.002517126	0.025969293
218459	at	TOR3A	1.34182749	1.34182749	-6.76441514	0.073790254	0.001874111	0.0231821478
218361	at	GOLPH3L	1.341920004	1.341920004	-6.210163577	0.068964451	0.001551797	0.023469793
234462	at		1.342617914	1.342617914	-5.471760332	0.075549794	0.002366066	0.025552945
211908	x at		1.34272182	1.34272182	-7.833549494	0.055123487	0.000733488	0.020928903
222421	at	UBE2H	1.343015587	1.343015587	-16.44636914	0.026186964	3.47357E-05	0.021873212
227442	at	COX18	1.343261369	1.343261369	-5.996021808	0.072003346	0.001740823	0.023911127
213002	at	MARCKS	1.343632676	1.343632676	-6.963491165	0.06233886	0.00107923	0.02180653
217732	s at	ITM2B	1.343760716	1.343760716	-9.599620532	0.045034002	0.000324738	0.019573215
239838	at		1.344002447	1.344002447	-5.913899985	0.072566973	0.001835337	0.024141378
217022	s at		1.344249454	1.344249454	-6.422894843	0.068301667	0.001395082	0.022762706
240222	at		1.344511556	1.344511556	-6.663166233	0.064096672	0.001227866	0.022150649
227125	at		1.344542848	1.344542848	-6.915832552	0.062652273	0.001096194	0.021858627
202785	at	NDUFA7	1.344810341	1.344810341	-6.600624456	0.064407388	0.001256947	0.022296703
218236	s at	PRKD3	1.344912976	1.344912976	-5.433595269	0.07964211	0.00241615	0.025682102
208939	at	SEPHS1	1.344924692	1.344924692	-6.74832736	0.064165183	0.001181013	0.022022852
223626	x at	IFI27L2	1.345298206	1.345298206	-8.560650666	0.049813337	0.000523459	0.019976615
222597	at	SNAP29	1.345465205	1.345465205	-6.351038052	0.065034559	0.001452436	0.023063817
201240	s at		1.345593591	1.345593591	-6.626073988	0.066709453	0.001240791	0.022193097
200617	at	MLEC	1.345885083	1.345885083	-11.81840219	0.036820567	0.000130057	0.018862319
222578	s at	UBA5	1.345996469	1.345996469	-6.340626759	0.06804261	0.001456475	0.023079343
57082	at	LDLRAP1	1.346779548	1.346779548	-5.260289738	0.08802076	0.002681918	0.02642384
207812	s at	GORASP2	1.346932339	1.346932339	-7.616405251	0.058530817	0.000807807	0.021248364
239441	at	ZNF780A	1.347030877	1.347030877	-6.279553498	0.073206004	0.001493634	0.023294552
220169	at	TMEM156	1.34776376	1.34776376	-6.050068584	0.078035207	0.001693163	0.023850562
64418	at	SYNRG	1.348356018	1.348356018	-4.956706281	0.090635177	0.00327404	0.028168002
217685	at	SLC16A3	1.348946443	1.348946443	-7.250453487	0.061163059	0.000948365	0.021561303
211631	x at	B4GALT1	1.348953467	1.348953467	-8.996231758	0.046272788	0.000419252	0.01973829
225406	at	TWSG1	1.34948395	1.34948395	-4.912859765	0.08635066	0.003381479	0.028488211
217826	s at	UBE2J1	1.349615575	1.349615575	-8.400931042	0.051994016	0.000556579	0.020295703
235765	at	TLE4	1.349879186	1.349879186	-8.286431839	0.053264151	0.000594546	0.020436868
225390	s at	KLF13	1.351056267	1.351056267	-11.02739309	0.039499876	0.000171255	0.018919652
1563792	at		1.351560703	1.351560703	-5.626457898	0.077806851	0.002170576	0.024962102
223070	at	SELK	1.351908205	1.351908205	-6.718759894	0.066430112	0.001197169	0.022058093
221654	s at	USP3	1.352038718	1.352038718	-7.482351312	0.059591207	0.000854659	0.021383976
216627	s at	B4GALT1	1.3529081	1.3529081	-6.794542586	0.061268857	0.001153548	0.022007113
209509	s at	DPAGT1	1.352908524	1.352908524	-4.836848236	0.092884045	0.003549502	0.028878892
212886	at	CCDC69	1.353261081	1.353261081	-8.938816276	0.048596626	0.000435408	0.01973829
235330	at	CCDC117	1.355620808	1.355620808	-6.566516725	0.06730451	0.001286028	0.022429851
208959	s at	ERP44	1.355950473	1.355950473	-5.448302789	0.082673207	0.002396762	0.025622212
202211	at	ARFGAP3	1.357653485	1.357653485	-5.472403898	0.080481513	0.002365258	0.025552945
210293	s at	SEC23B	1.357701206	1.357701206	-5.457692535	0.082373776	0.002385453	0.02560818
226935	s at	CLPTM1L	1.357723142	1.357723142	-4.974339453	0.090022589	0.003232842	0.028022635
208658	at	PDIA4	1.358737081	1.358737081	-7.840346804	0.057948136	0.000731873	0.020928903
227175	at		1.359103411	1.359103411	-7.932967472	0.05660157	0.000701984	0.020928903
224745	x at	OTUD5	1.359266228	1.359266228	-7.167182769	0.061670991	0.000983101	0.021570207
201689	s at	TPD52	1.359341446	1.359341446	-7.636761595	0.058390395	0.000800536	0.021235971
219075	at	YIPF2	1.35969982	1.35969982	-6.363867943	0.06887499	0.001441935	0.023044962
219203	at	FAM158A	1.360157925	1.360157925	-7.481205614	0.059327867	0.000855467	0.021383976
201239	s at		1.360615607	1.360615607	-6.456781056	0.070815436	0.001361154	0.022718964
206478	at	KIAA0125	1.360808752	1.360808752	-4.695649875	0.106194361	0.003912208	0.029650292
207485	x at	BTN3A1	1.361649935	1.361649935	-6.225862209	0.073674324	0.001539679	0.023421828
217225	x at		1.362936221	1.362936221	-7.231640079	0.063873164	0.000955635	0.021568507
219387	at	CCDC88A	1.364073057	1.364073057	-6.897654085	0.066031631	0.001103464	0.021887217
212439	at	IP6K1	1.364323598	1.364323598	-4.886756997	0.092254387	0.003438833	0.028618275
203642	s at	COBL1	1.364888382	1.364888382	-6.048798901	0.07882252	0.001695586	0.023850562

214083	at	PPP2R5C	1.365198095	1.365198095	-5.411906346	0.085320542	0.002451693	0.025765897
222386	s at	COPZ1	1.365461143	1.365461143	-6.427609111	0.068722358	0.001391043	0.022751145
1729	at	TRADD	1.365842406	1.365842406	-7.505276798	0.062940493	0.000844966	0.021366158
236415	at	DENND5B	1.36608821	1.36608821	-4.883896332	0.099601695	0.003442872	0.028618275
226622	at	MUC20	1.36632304	1.36632304	-6.597499842	0.066342635	0.001260178	0.022296703
218681	s at	SDF2L1	1.36644305	1.36644305	-4.913199523	0.094334963	0.003379055	0.028488211
225858	s at	XIAP	1.367688818	1.367688818	-4.706591716	0.097191042	0.003886358	0.029563711
224250	s at	SECISBP2	1.367721654	1.367721654	-9.12131944	0.050111455	0.00039421	0.019641818
201914	s at	SEC63	1.367956961	1.367956961	-13.35174666	0.034048375	8.07807E-05	0.018862319
1554556	a at	ATP11B	1.368989673	1.368989673	-4.955354177	0.093335578	0.003278079	0.028174217
227535	at	C15orf24	1.369150874	1.369150874	-4.98762783	0.095176704	0.003195683	0.027926378
213818	x at	TMEM179B	1.369835317	1.369835317	-5.95667865	0.073653514	0.001786868	0.02401245
225820	at	PHF17	1.370973998	1.370973998	-5.967127793	0.078190642	0.001775559	0.023938961
222821	s at	GEMIN7	1.37180162	1.37180162	-8.953490709	0.052187989	0.000428945	0.01973829
208661	s at	TTC3	1.372196472	1.372196472	-5.686762238	0.078691117	0.002096258	0.024808216
1553338	at	C1orf55	1.373807947	1.373807947	-8.98123846	0.093323337	0.003267578	0.028415068
225476	at	BAT4	1.373989061	1.373989061	-5.202093969	0.084946614	0.002783702	0.026817213
202108	at	PEPD	1.374079788	1.374079788	-5.479116357	0.085030403	0.002356372	0.025500346
219576	at	MAP7D3	1.37434005	1.37434005	-5.798602643	0.077853497	0.001967817	0.024500949
207761	s at	METTL7A	1.374530159	1.374530159	-8.679802308	0.053965075	0.000489531	0.019976615
228003	at	RAB30	1.374796923	1.374796923	-5.512782099	0.083574934	0.002311943	0.025363778
203777	s at	RPS6KB2	1.375388015	1.375388015	-5.99080833	0.076439531	0.001749709	0.023911127
220295	x at	DEPDC1	1.375414412	1.375414412	-5.947843241	0.081773982	0.001801409	0.024042445
222753	s at	SPCS3	1.375629217	1.375629217	-7.045058094	0.066023761	0.001038839	0.021777307
208941	s at	SEPHS1	1.376419284	1.376419284	-5.975297722	0.077299355	0.001765058	0.023911127
206543	at	SMARCA2	1.37655011	1.37655011	-5.319570464	0.083703648	0.002597098	0.026205487
224391	s at	SIAE	1.376819834	1.376819834	-4.743829323	0.093218964	0.003776496	0.029371233
233819	s at	RNF160	1.377336295	1.377336295	-5.00862036	0.091703872	0.003157716	0.0278284
201998	at	ST6GAL1	1.377869596	1.377869596	-8.627775419	0.053778907	0.000503264	0.019976615
225593	at	LSM10	1.378136479	1.378136479	-4.830136839	0.091069301	0.003566466	0.02888572
218817	at	SPCS3	1.378138882	1.378138882	-7.204583456	0.06511656	0.000965329	0.021570207
225352	at	SEC62	1.378783598	1.378783598	-5.40537802	0.088240033	0.002462195	0.02581855
201889	at	FAM3C	1.379035179	1.379035179	-4.987453589	0.092502031	0.003197299	0.027926378
221253	s at	TXNDC5	1.379903714	1.379903714	-6.489057283	0.072807509	0.00134419	0.022709821
219634	at	CHST11	1.380050805	1.380050805	-5.253003145	0.08855869	0.002696459	0.026477994
212592	at	IGJ	1.380979226	1.380979226	-4.919789756	0.096488189	0.00335886	0.028403869
221436	s at	CDCA3	1.381051266	1.381051266	-4.975001913	0.096839663	0.003231227	0.028022635
223061	at	CHID1	1.381522102	1.381522102	-6.812145649	0.070712211	0.001140623	0.021927983
202721	s at	GFPT1	1.382683994	1.382683994	-5.139926841	0.090206706	0.002892756	0.027028535
217716	s at	SEC61A1	1.382701127	1.382701127	-5.133727051	0.095188057	0.002904065	0.027051877
1555543	a at	CLCC1	1.383010906	1.383010906	-4.916690774	0.095813267	0.003365322	0.028423327
203605	at	SRP54	1.383415104	1.383415104	-4.800589395	0.10012304	0.003639977	0.02906584
213950	s at	PPP3CC	1.383624963	1.383624963	-13.81289826	0.033509327	6.78558E-05	0.018862319
215543	s at	LARGE	1.383625757	1.383625757	-5.156480721	0.099769383	0.002859636	0.026993837
202722	s at	GFPT1	1.38406949	1.38406949	-6.143694649	0.078737536	0.001614805	0.026865039
222569	at	UGGT1	1.384117845	1.384117845	-7.201648977	0.066881784	0.000966945	0.021570207
217138	x at	IGL@	1.384189238	1.384189238	-6.40792526	0.073494977	0.001408007	0.022846266
217790	s at	SSR3	1.384562506	1.384562506	-9.039382931	0.051827975	0.000410366	0.019641818
219402	s at	DERL1	1.384800471	1.384800471	-9.185118227	0.051694691	0.000385324	0.019641818
222763	s at	WDR33	1.384970376	1.384970376	-5.4220951	0.088320144	0.002433921	0.025719511
203159	at	GLS	1.385638251	1.385638251	-9.184678176	0.051225432	0.000386132	0.019641818
201739	at	SGK1	1.385705204	1.385705204	-4.887953339	0.090286931	0.003434794	0.028618275
202084	s at	SEC14L1	1.386517546	1.386517546	-6.260620923	0.07756297	0.001513022	0.023355947
226422	at	ERGIC2	1.386610393	1.386610393	-10.61829058	0.044252678	0.000199528	0.018999481
228610	at	TM9SF3	1.387706428	1.387706428	-4.739989491	0.102002286	0.003795076	0.029383494
202225	at		1.388619507	1.388619507	-7.070244218	0.06626	0.001025914	0.021669431
209838	at	COPS2	1.388857535	1.388857535	-4.809500237	0.097875631	0.003614127	0.028996624
202433	at	SLC35B1	1.389454404	1.389454404	-7.011687364	0.069315361	0.001054995	0.021777307
212286	at	ANKRD12	1.390094484	1.390094484	-4.747544396	0.099633792	0.003772457	0.029368394
202943	s at	NAGA	1.39031855	1.39031855	-4.69690799	0.102174077	0.003906553	0.029640321
220306	at	FAM46C	1.390645799	1.390645799	-7.581147344	0.064424115	0.000819116	0.021257734
223263	s at	FGFR1OP2	1.390766555	1.390766555	-5.465363144	0.09016534	0.002374952	0.025552945
222444	at	ARMCX3	1.3909244	1.3909244	-4.971333313	0.094255237	0.003238497	0.028026931
221249	s at	FAM117A	1.391318337	1.391318337	-10.23870069	0.046672481	0.00024315	0.019377977
231959	at	LIN52	1.391508561	1.391508561	-6.445002805	0.073393551	0.001374079	0.022740994
203133	at	SEC61B	1.39179567	1.39179567	-8.840638775	0.057306857	0.000554963	0.020272862
235102	x at		1.391939103	1.391939103	-5.028365051	0.100616076	0.003118134	0.027713148
201494	at	PRCP	1.393038058	1.393038058	-5.825593741	0.083477108	0.001930658	0.024456722
202175	at	CHPF	1.393212668	1.393212668	-7.385291908	0.064361318	0.000895858	0.021431567
212498	at		1.393831022	1.393831022	-12.12212277	0.039241819	0.000119555	0.018862319

218437	s at	LZTFL1	1.393897506	1.393897506	-12.12103279	0.038920285	0.000120363	0.018862319
227873	at	TXNDC15	1.394159665	1.394159665	-7.276185595	0.066934925	0.000937056	0.021561303
202062	s at	SEL1L	1.395106483	1.395106483	-8.582416152	0.056752075	0.000513765	0.019976615
213937	s at	FTSJ1	1.396696216	1.396696216	-4.98153961	0.099167296	0.003213455	0.027939999
223023	at	BET1L	1.397277684	1.397277684	-5.426476943	0.084092204	0.002428267	0.025716612
208950	s at	ALDH7A1	1.398972931	1.398972931	-6.085917113	0.075007309	0.001667313	0.023767895
206641	at	TNFRSF17	1.399055287	1.399055287	-4.936844021	0.101532723	0.00331847	0.028227438
211637	x at		1.399379979	1.399379979	-5.113915987	0.095936715	0.002947686	0.027161908
201657	at	ARL1	1.400042456	1.400042456	-4.835225762	0.101891875	0.003551926	0.028878892
216032	s at	ERGIC3	1.401055301	1.401055301	-7.096813694	0.070118092	0.001016221	0.021615457
221773	at	ELK3	1.401055935	1.401055935	-6.832783332	0.070899025	0.001128506	0.021927983
201399	s at	TRAM1	1.401844341	1.401844341	-7.518226103	0.06634162	0.000840119	0.021386087
229419	at	FBXW7	1.404567038	1.404567038	-5.613901094	0.088770836	0.002192387	0.02503011
224847	at	CDK6	1.404857747	1.404857747	-5.32740204	0.092449085	0.00258175	0.026152331
209043	at	PAPSS1	1.404904442	1.404904442	-8.561209729	0.057786901	0.000522651	0.019976615
222620	s at	DNAJC1	1.405197894	1.405197894	-5.712978996	0.089673651	0.002059099	0.024725551
218024	at	BRP44L	1.405429427	1.405429427	-4.841968006	0.107430049	0.003537385	0.028852281
216213	at	NEK1	1.405488026	1.405488026	-8.292038165	0.060864034	0.00059293	0.020436868
221239	s at	FCRL2	1.405953499	1.405953499	-5.893756875	0.081426274	0.001859571	0.024192096
222435	s at	UBE2J1	1.406578048	1.406578048	-6.067899983	0.083665639	0.001681046	0.0213841052
215399	s at	OS9	1.407199059	1.407199059	-5.803819463	0.087995892	0.001961355	0.024494089
212334	at	GNS	1.407883269	1.407883269	-6.093923678	0.085858944	0.001656811	0.023741856
203003	at	MEF2D	1.408578241	1.408578241	-5.747565614	0.087769015	0.002020324	0.024640687
225014	at	C4orf52	1.410463674	1.410463674	-5.11598101	0.097373849	0.002942032	0.027144338
202710	at	BET1	1.410575311	1.410575311	-7.10142163	0.072088182	0.001014605	0.021615457
228363	at	XIAP	1.411258393	1.411258393	-7.406406664	0.068524413	0.000882125	0.021431567
209447	at	SYNE1	1.411963738	1.411963738	-7.257059196	0.069719768	0.000946749	0.021561303
211798	x at	IGLJ3	1.413175352	1.413175352	-7.043330602	0.070997824	0.001042071	0.021777307
219869	s at	SLC39A8	1.413179593	1.413179593	-5.766683464	0.09158113	0.002000937	0.024598668
211228	s at	RAD17	1.413769406	1.413769406	-4.678947299	0.102593851	0.003950982	0.029811836
219565	at	CYP20A1	1.414156151	1.414156151	-5.609576039	0.091551044	0.002198042	0.025043106
222532	at	SRPRB	1.414497802	1.414497802	-6.487168831	0.078005628	0.001345806	0.022718387
1554264	at	CKAP2	1.415565963	1.415565963	-5.237303606	0.092981677	0.002729579	0.026548797
223684	s at	SMUG1	1.417528856	1.417528856	-8.018699499	0.06246598	0.000665633	0.020874397
203675	at	NUCB2	1.41769355	1.41769355	-6.580793465	0.081863538	0.001274719	0.022350959
203391	at	FKBP2	1.418735439	1.418735439	-7.027836103	0.073844515	0.001047725	0.021777307
201383	s at	NBR1	1.419167872	1.419167872	-4.78029338	0.108815906	0.003691676	0.029176613
201670	s at	MARCKS	1.421134474	1.421134474	-5.97772877	0.086520522	0.001763442	0.023911127
204344	s at	SEC23A	1.424634502	1.424634502	-5.622536778	0.091169995	0.002174615	0.02497108
214445	at	ELL2	1.424671728	1.424671728	-7.070150138	0.073530081	0.001026722	0.021669431
200698	at	KDELRL2	1.424725844	1.424725844	-5.872745258	0.088723145	0.001878958	0.02423299
209166	s at	MAN2B1	1.425828469	1.425828469	-15.71825309	0.032355675	4.28138E-05	0.018783212
219143	s at	RPP25	1.425937547	1.425937547	-5.241347345	0.093807731	0.002719885	0.02651744
215451	s at	AFF1	1.426368523	1.426368523	-7.848653704	0.06501426	0.000727026	0.020928903
218573	at	MAGEH1	1.42657234	1.42657234	-5.040075657	0.107464072	0.003091476	0.027653784
223512	at	SAR1B	1.426925363	1.426925363	-5.665760508	0.095224902	0.002120492	0.024827316
201701	s at	PGRMC2	1.427428599	1.427428599	-6.349149149	0.083143678	0.001453244	0.023063817
209276	s at	GLRX	1.428736217	1.428736217	-6.198774625	0.085451269	0.001562298	0.023518082
211934	x at	GANAB	1.429340965	1.429340965	-7.79528091	0.068998211	0.000746413	0.020928903
202061	s at	SEL1L	1.429373259	1.429373259	-4.661803063	0.11593267	0.003997027	0.029949774
236350	at		1.429827672	1.429827672	-5.543135138	0.092971458	0.002278015	0.025325276
205901	at	PNOC	1.430236272	1.430236272	-5.353384604	0.095854908	0.002536513	0.026056011
218774	at	DCPS	1.431491723	1.431491723	-9.487298381	0.055366217	0.000341702	0.019620379
219159	s at	SLAMF7	1.432305251	1.432305251	-7.052479834	0.073800223	0.0010348	0.021767302
212208	at	MED13L	1.432524954	1.432524954	-5.950759156	0.090836849	0.001796562	0.024032403
212195	at	IL6ST	1.433174585	1.433174585	-5.182839524	0.097900247	0.002820053	0.026867708
208675	s at	DDOST	1.433505105	1.433505105	-6.556105652	0.081734836	0.001295722	0.022493097
210826	x at	RAD17	1.433677152	1.433677152	-13.48300545	0.037981381	7.59338E-05	0.018862319
200643	at	HDLBP	1.434159123	1.434159123	-6.634664762	0.07935033	0.001238368	0.022193097
200968	s at	PIIB	1.434632479	1.434632479	-10.28625196	0.052083205	0.000234264	0.019346271
216504	s at	SLC39A8	1.43466473	1.43466473	-5.712459662	0.094862758	0.002060715	0.024725551
205049	s at	CD79A	1.434711965	1.434711965	-5.958676737	0.086615121	0.001784445	0.023995618
38241	at	BTN3A3	1.434764111	1.434764111	-10.4362443	0.050358959	0.000218916	0.018999481
235507	at	PCMTD1	1.43522963	1.43522963	-6.626052044	0.076775876	0.001241599	0.022193097
1555779	a at	CD79A	1.436010903	1.436010903	-4.728777099	0.107536476	0.003823349	0.029413314
200866	s at	PSAP	1.436829061	1.436829061	-9.049646819	0.059084807	0.000407942	0.019641818
244190	at	THAP5	1.436987663	1.436987663	-11.32026432	0.046644311	0.000163177	0.018919652
208906	at	BSCL2	1.437474064	1.437474064	-14.1994346	0.037168519	5.97777E-05	0.018862319
208664	s at	TTC3	1.438209628	1.438209628	-5.351438862	0.09878669	0.002540552	0.026066602
205594	at	ZNF652	1.439389824	1.439389824	-4.887051895	0.115978024	0.003437217	0.028618275

228583	at	LIN52	1.439732442	1.439732442	-4.960634789	0.109671711	0.003260308	0.02811582
225433	at	GTF2A1	1.440084153	1.440084153	-5.162275077	0.10703236	0.002849134	0.026974909
224885	s at	KRTCAP2	1.44057398	1.44057398	-7.246872729	0.075780925	0.000949981	0.021561303
221853	s at		1.440663754	1.440663754	-7.833870984	0.069367176	0.000732681	0.020928903
228022	at		1.441163115	1.441163115	-7.842677567	0.068404488	0.000729449	0.020928903
202241	at	TRIB1	1.441685264	1.441685264	-7.954123724	0.067557698	0.000697137	0.020928903
235694	at	TCFL5	1.442080003	1.442080003	-5.769722633	0.09059901	0.001994475	0.024563427
1552497	a at	SLAMF6	1.44248726	1.44248726	-15.3104997	0.034975676	4.68528E-05	0.018783212
200755	s at	CALU	1.44339276	1.44339276	-5.949439893	0.088816669	0.001798178	0.024038325
223185	s at	BHLHE41	1.443755748	1.443755748	-7.864710027	0.069620442	0.000718948	0.020928903
226440	at	DUSP22	1.443802092	1.443802092	-7.071607146	0.078017755	0.001025107	0.021669431
215217	at	IGKC	1.443940209	1.443940209	-8.321751527	0.064274696	0.000582429	0.020390195
227842	at	RAB30	1.444165938	1.444165938	-4.691905113	0.113296532	0.003919478	0.029683437
200945	s at	SEC31A	1.444230469	1.444230469	-7.149893702	0.075279086	0.000992794	0.021570207
213659	at	ZNF75D	1.444843148	1.444843148	-9.820680365	0.054141683	0.000298888	0.019573215
244519	at	ASXL1	1.444903259	1.444903259	-14.31432618	0.037566826	5.65465E-05	0.018862319
202194	at	TMED5	1.446072883	1.446072883	-7.508194772	0.072775188	0.000844158	0.021366158
224706	at	KIAA2013	1.446130433	1.446130433	-9.611405547	0.054285858	0.000323123	0.019573215
217251	x at	IVD	1.447478783	1.447478783	-7.17714433	0.074553946	0.000978254	0.021570207
222231	s at	LRRC59	1.447842707	1.447842707	-9.328315381	0.058763774	0.00036836	0.0196267
212580	at		1.448568113	1.448568113	-7.800402918	0.071381192	0.000744798	0.020928903
210571	s at	CMAH	1.448661441	1.448661441	-4.685924139	0.121550658	0.003935634	0.029750821
206532	at	SMARCB1	1.449196214	1.449196214	-7.117422848	0.075566025	0.001005719	0.021604398
221689	s at	PIGP	1.449610723	1.449610723	-5.379329421	0.10114151	0.002498546	0.02591279
218556	at	ORMDL2	1.450168338	1.450168338	-9.228986391	0.058665587	0.000381285	0.019641818
242727	at	ARL5B	1.451040697	1.451040697	-5.063436667	0.108556006	0.0030422	0.027501095
201460	at	MAPKAPK2	1.451245199	1.451245199	-7.083124592	0.073891468	0.001019452	0.021627355
201951	at	ALCAM	1.451332557	1.451332557	-5.980091396	0.090224003	0.001761018	0.023911127
1558693	s at	Clorf85	1.452015446	1.452015446	-7.030956438	0.074446622	0.001046917	0.021777307
225965	at	DDHD1	1.453692828	1.453692828	-5.853846097	0.095512267	0.001904	0.02429188
201582	at	SEC23B	1.454083014	1.454083014	-5.050128688	0.110889154	0.003070473	0.027576675
207399	at	BFSP2	1.454450025	1.454450025	-6.047895331	0.08661504	0.00169801	0.023850562
217858	s at	ARMCX3	1.454524505	1.454524505	-4.791788662	0.117127897	0.003657748	0.029089515
203157	s at	GLS	1.455830407	1.455830407	-9.018865167	0.061410548	0.000414405	0.019651532
222621	at	DNAJC1	1.456176431	1.456176431	-5.6965629	0.098783026	0.002081718	0.024774361
218504	at	FAHD2A	1.456423875	1.456423875	-5.727838788	0.096028328	0.002038904	0.024695065
210385	s at	ERAP1	1.456515812	1.456515812	-8.329920287	0.068856331	0.000579197	0.023088115
224851	at	CDK6	1.456585625	1.456585625	-6.038444792	0.090613469	0.001704472	0.02385094
201057	s at	GOLGB1	1.457577878	1.457577878	-6.006592247	0.091257515	0.001729514	0.023911097
242263	at	TMED5	1.457942527	1.457942527	-5.441695879	0.101059601	0.002407264	0.025680008
211881	x at	IGLJ3	1.458557498	1.458557498	-10.06763301	0.053621607	0.000264153	0.02532158
211769	x at	SERINC3	1.458793706	1.458793706	-5.124682589	0.101394002	0.002921029	0.027086777
200757	s at	CALU	1.459345653	1.459345653	-10.56001211	0.052316921	0.000205991	0.018999481
221760	at	MAN1A1	1.459590927	1.459590927	-6.972704957	0.081482491	0.001075998	0.02180653
201583	s at	SEC23B	1.46178128	1.46178128	-6.92500768	0.079260628	0.001095386	0.021858627
233764	s at	LARP1B	1.461850458	1.461850458	-5.66366826	0.100336467	0.002123724	0.024841492
206632	s at	APOBEC3B	1.462501751	1.462501751	-5.271562861	0.113072204	0.00266657	0.026420625
242439	s at	ASXL1	1.462597942	1.462597942	-5.321261307	0.107205881	0.002593059	0.026190523
229399	at	C10orf118	1.465831666	1.465831666	-7.583049953	0.073528359	0.000818308	0.021257734
218751	s at	FBXW7	1.466049054	1.466049054	-15.74470949	0.035100455	4.03903E-05	0.018783212
212248	at	MTDH	1.466342941	1.466342941	-5.798841563	0.100196065	0.001967009	0.024500949
201915	at	SEC63	1.467226412	1.467226412	-4.721797167	0.117405206	0.003846775	0.029447722
207396	s at	ALG3	1.467275325	1.467275325	-6.912131929	0.077879968	0.001098617	0.021858627
225811	at	C11orf58	1.467495409	1.467495409	-6.475111084	0.08886403	0.001351461	0.022718964
206896	s at	GNG7	1.46815494	1.46815494	-5.774731059	0.101997524	0.00198882	0.024547992
210448	s at	P2RX5	1.469261741	1.469261741	-9.661427033	0.056984935	0.000317468	0.019573215
217390	x at		1.469495633	1.469495633	-5.600301653	0.101027276	0.002210967	0.025083982
226603	at	SAMD9L	1.470360209	1.470360209	-7.471636017	0.07600394	0.000859506	0.021383976
214730	s at	GLG1	1.470545241	1.470545241	-5.332451939	0.111278478	0.002576903	0.026146753
210541	s at	TRIM27	1.471523336	1.471523336	-6.828261795	0.081597209	0.001134161	0.021927983
223473	at	MPV17L2	1.47174431	1.47174431	-5.187408961	0.108936321	0.002811975	0.026853166
218503	at	KIAA1797	1.472271489	1.472271489	-6.364308643	0.091362518	0.001441127	0.023044962
214973	x at		1.475188934	1.475188934	-8.006038868	0.069553797	0.000674519	0.020874397
201944	at	HEXB	1.47527118	1.47527118	-5.796083697	0.100887464	0.001971048	0.024500949
227287	at		1.47537037	1.47537037	-4.734904545	0.110156862	0.003808808	0.029383494
221276	s at	SYNC	1.475386986	1.475386986	-5.768191351	0.093587782	0.001997706	0.024588445
1556283	s at	FGFR1OP2	1.475639485	1.475639485	-8.597659172	0.066143954	0.000509726	0.019976615
201186	at	LRPAP1	1.475935612	1.475935612	-7.410606559	0.078572632	0.000880509	0.021431567
227103	s at	ECE2	1.476527546	1.476527546	-6.733614567	0.085186581	0.001186668	0.02203797
214472	at		1.476608463	1.476608463	-4.860020247	0.109296963	0.003492148	0.028752892

212305	s at	MIA3	1.477380494	1.477380494	-6.050176497	0.093237996	0.001692355	0.023850562
209150	s at	TM9SF1	1.477635338	1.477635338	-8.696304013	0.065811605	0.000484684	0.019976615
226321	at	LYSMD3	1.477737526	1.477737526	-6.229656899	0.092762928	0.001537256	0.023421828
201398	s at	TRAM1	1.478132672	1.478132672	-5.6490889	0.103599373	0.002143919	0.024916506
209014	at	MAGED1	1.478853725	1.478853725	-7.264302178	0.074176108	0.000941903	0.021561303
209019	s at	PINK1	1.4794735	1.4794735	-8.050916302	0.071851993	0.000655131	0.020802113
211061	s at	MGAT2	1.479552619	1.479552619	-9.802744563	0.058421783	0.000303735	0.019573215
200701	at	NPC2	1.480139686	1.480139686	-8.928924537	0.065308906	0.000437831	0.01973829
217148	x at		1.481138593	1.481138593	-5.971032869	0.093233796	0.001769904	0.023911127
239077	at	CSGALNACT2	1.48127958	1.48127958	-7.957640588	0.071714353	0.000694714	0.020928903
208663	s at	TTC3	1.481732811	1.481732811	-9.808284623	0.056902431	0.000302927	0.019573215
219201	s at	TWSG1	1.481759951	1.481759951	-8.118607534	0.072878671	0.000635744	0.02066734
218135	at	ERGIC2	1.482526055	1.482526055	-6.915102714	0.084332856	0.001097809	0.021858627
235668	at	PRDM1	1.482686526	1.482686526	-7.794675119	0.073910656	0.000747221	0.020928903
226001	at	KLHL5	1.482920203	1.482920203	-8.128850908	0.068777267	0.000634128	0.02066047
209796	s at	CNPY2	1.483173187	1.483173187	-7.360156123	0.079301471	0.000904743	0.021431567
223020	at	CLPTM1L	1.48350603	1.48350603	-5.880202813	0.099838339	0.001871688	0.024225873
218189	s at	NANS	1.484081574	1.484081574	-5.654963265	0.103800646	0.002135033	0.024869667
211641	x at		1.48434884	1.48434884	-6.637445932	0.087542175	0.001235136	0.022193097
203165	s at	SLC33A1	1.484998779	1.484998779	-5.000715617	0.119044036	0.003172257	0.027890909
224882	at	ACSS1	1.487790093	1.487790093	-9.357730878	0.0603753	0.000365129	0.0196267
217861	s at	PREB	1.487859616	1.487859616	-5.819049837	0.098171795	0.001942775	0.024456722
226333	at	IL6R	1.48886764	1.48886764	-6.509036925	0.092689233	0.001335304	0.022675414
211647	x at		1.489026738	1.489026738	-8.669453791	0.064686268	0.000491954	0.019976615
218241	at	GOLGA5	1.489404451	1.489404451	-4.763662043	0.124775671	0.003729643	0.029273469
223299	at	SEC11C	1.48999735	1.48999735	-11.90360366	0.049159324	0.000126826	0.018862319
219259	at	SEMA4A	1.490661889	1.490661889	-8.543822658	0.069221699	0.00052669	0.020012515
219117	s at	FKBP11	1.490815753	1.490815753	-7.982689763	0.074358847	0.000683404	0.020928903
225216	at	FAM199X	1.491138453	1.491138453	-6.38786241	0.095984788	0.001424163	0.022926887
213397	x at		1.491446474	1.491446474	-5.336213142	0.111368572	0.00256721	0.026146753
223899	at	PBRM1	1.491891937	1.491891937	-5.016243628	0.114664648	0.00314156	0.027786452
200824	at	GSTP1	1.493356962	1.493356962	-6.060460396	0.097428944	0.001687508	0.023850562
216491	x at	IGHM	1.494664571	1.494664571	-10.96261898	0.051830206	0.000178525	0.018919652
211644	x at		1.495109921	1.495109921	-8.309179495	0.071263855	0.000586468	0.020398752
201688	s at	TPD52	1.496039448	1.496039448	-7.529713746	0.077701073	0.000832849	0.021308228
1557021	s at		1.497047162	1.497047162	-5.074913116	0.119875712	0.00302362	0.027437264
227255	at	PD1K1L	1.497069953	1.497069953	-8.054606867	0.072343539	0.000652708	0.020796193
238917	s at	DENND5B	1.49726301	1.49726301	-6.039182411	0.099244827	0.001702856	0.02385094
209432	s at	CREB3	1.498405035	1.498405035	-7.676744543	0.077851753	0.000783572	0.021197821
203328	x at	IDE	1.498687859	1.498687859	-5.292747869	0.108918044	0.002634257	0.026321239
238068	at	ARIH2	1.498968577	1.498968577	-10.27266084	0.05696658	0.000236687	0.029346271
201264	at	COPE	1.499548733	1.499548733	-8.069471113	0.073985897	0.000648669	0.020796193
226743	at	SLFN11	1.499587207	1.499587207	-8.829694506	0.067376622	0.000457219	0.019754342
208116	s at	MAN1A1	1.503264489	1.503264489	-8.501829164	0.072286411	0.000534768	0.02003358
217480	x at		1.504737642	1.504737642	-7.683317778	0.076909064	0.000781957	0.021197821
200620	at	TMEM59	1.505395351	1.505395351	-5.582579018	0.111641096	0.002223892	0.0251134
215585	at	KIAA0174	1.505789113	1.505789113	-8.508462433	0.072347794	0.00053396	0.02003358
201461	s at	MAPKAPK2	1.506635653	1.506635653	-9.48406813	0.062083653	0.000344126	0.019620379
224759	s at	C12orf23	1.506742536	1.506742536	-9.429673989	0.064219494	0.000354627	0.019620379
210046	s at	IDH2	1.506840393	1.506840393	-6.742155411	0.087784327	0.001183437	0.02022852
200983	x at	CD59	1.50877025	1.50877025	-8.945285693	0.068071663	0.000432984	0.01973829
221782	at	DNAJC10	1.509088302	1.509088302	-4.884379294	0.124866066	0.003441256	0.028618275
230999	at	FLJ39051	1.509097518	1.509097518	-6.230956094	0.095384922	0.001536448	0.023421828
209340	at	UAP1	1.509517527	1.509517527	-5.586262125	0.108795962	0.002222276	0.0251134
1554148	a at	SLC33A1	1.510350088	1.510350088	-5.28750056	0.114573249	0.002643143	0.026366675
227697	at	SOCS3	1.511438793	1.511438793	-5.13010641	0.112678789	0.00290972	0.027058105
218203	at	ALG5	1.512318243	1.512318243	-5.772484879	0.107079454	0.001992051	0.024558288
226831	at	SLC25A46	1.512327595	1.512327595	-7.104837562	0.085466847	0.001010566	0.021615457
223622	s at	HY1	1.512617587	1.512617587	-4.7686896	0.168663613	0.003717526	0.029234347
213763	at	HIPK2	1.512954025	1.512954025	-6.23139898	0.096623623	0.001534833	0.023421828
234707	x at	IGLV1-44	1.513756857	1.513756857	-8.77545509	0.068861395	0.00046772	0.019886242
215393	s at	COBLL1	1.51393112	1.51393112	-13.57452612	0.044396754	7.43182E-05	0.018862319
206521	s at	GTF2A1	1.514198071	1.514198071	-5.844152604	0.104991173	0.001911271	0.02430829
203097	s at	RAPGEF2	1.514662818	1.514662818	-4.756559628	0.124322913	0.003747415	0.029317709
222543	at	DERL1	1.515097183	1.515097183	-5.460923324	0.113399114	0.002380606	0.025582951
233496	s at	CFL2	1.516097855	1.516097855	-4.845359081	0.120634461	0.003530115	0.028833806
203293	s at	LMAN1	1.516514459	1.516514459	-4.699752021	0.135593934	0.003896051	0.029588681
215176	x at		1.519105115	1.519105115	-6.867817474	0.087151709	0.001113965	0.021908757
211000	s at	IL6ST	1.519360139	1.519360139	-9.464440313	0.065040886	0.000348972	0.019620379
214845	s at	CALU	1.520389719	1.520389719	-7.535058755	0.080900063	0.000832041	0.021308228

200756	x at	CALU	1.521145347	1.521145347	-6.503803709	0.09406906	0.00133692	0.022675414
211639	x at		1.521227126	1.521227126	-7.539905338	0.08043382	0.000830425	0.021299408
222556	at	ALG5	1.521320818	1.521320818	-4.781731675	0.134520177	0.003687637	0.029167188
202842	s at	DNAJB9	1.521810134	1.521810134	-5.527982252	0.114756902	0.002296594	0.025359629
213399	x at	RPN2	1.522949521	1.522949521	-9.878623097	0.061947571	0.000292426	0.019573215
207980	s at	CITED2	1.523386576	1.523386576	-5.843510372	0.099596858	0.001912078	0.02430829
230011	at	MEI1	1.523534953	1.523534953	-5.715061724	0.111992497	0.002055868	0.024725551
224848	at	CDK6	1.524296436	1.524296436	-10.51266865	0.056645261	0.000210838	0.018999481
200700	s at	KDELRL2	1.524778416	1.524778416	-6.717138172	0.093253751	0.001198785	0.022058093
224241	s at	LOC100132388	1.525919934	1.525919934	-5.571369492	0.105374993	0.002236817	0.025117781
229440	at	RBM47	1.526580049	1.526580049	-4.741339964	0.133097441	0.003791037	0.029383494
208940	at	SEPHS1	1.527867174	1.527867174	-6.380813843	0.098438732	0.001478286	0.023196855
243000	at	CDK6	1.527954336	1.527954336	-7.177440158	0.086320306	0.000977446	0.021570207
217384	x at		1.528095757	1.528095757	-5.756123123	0.106943473	0.002013862	0.024609932
231956	at	RNF213	1.528709409	1.528709409	-5.928527189	0.103158836	0.00182322	0.02409023
225756	at	CSNK1E	1.528787026	1.528787026	-6.387531516	0.074500172	0.000562233	0.020326287
222385	x at	SEC61A1	1.529608109	1.529608109	-9.650259894	0.064921776	0.000319084	0.019573215
207143	at	CDK6	1.534647009	1.534647009	-5.73797812	0.105753097	0.002026787	0.024640687
228089	x at	TMEM179B	1.534936886	1.534936886	-6.123700744	0.101921195	0.001632577	0.02372996
227189	at	CPNE5	1.535109614	1.535109614	-6.663538358	0.094693474	0.00122625	0.022140993
214626	s at	GANAB	1.535844258	1.535844258	-5.195548526	0.128326678	0.002795819	0.026817213
200999	s at	CKAP4	1.536632403	1.536632403	-6.85610506	0.092985467	0.001121236	0.021925493
225240	s at	MSI2	1.536908236	1.536908236	-6.127784764	0.098684401	0.001628538	0.02372996
214252	s at	CLN5	1.537471537	1.537471537	-8.85947961	0.072756218	0.00044914	0.01973829
227565	at		1.538371642	1.538371642	-8.015830261	0.076331865	0.000671287	0.020874397
227687	at	HYLS1	1.53903005	1.53903005	-5.61621739	0.116704672	0.002186733	0.025002853
237863	at	TMPO	1.539174362	1.539174362	-5.129733509	0.107918258	0.002911335	0.027058105
201668	x at	MARCKS	1.540688255	1.540688255	-4.826801735	0.120729202	0.003577776	0.028918494
226150	at	PPAPDC1B	1.541323616	1.541323616	-5.821847516	0.108749689	0.00193712	0.024456722
1566207	at	TCEA1	1.541508659	1.541508659	-5.01462373	0.129338153	0.003146407	0.027814742
204402	at	RHBDD3	1.543943388	1.543943388	-4.73449431	0.128580101	0.003809616	0.029383494
211645	x at		1.544957773	1.544957773	-7.457705387	0.084434019	0.000864353	0.021383976
201691	s at	TPD52	1.546523602	1.546523602	-5.738467944	0.108006843	0.002025979	0.024640687
205467	at	CASP10	1.547631202	1.547631202	-8.889149516	0.072202396	0.000442678	0.01973829
203028	s at	CYBA	1.547976395	1.547976395	-13.65170598	0.04607613	7.27026E-05	0.018862319
216708	x at		1.549478252	1.549478252	-12.93042995	0.049309226	9.6129E-05	0.018862319
222690	s at	TMEM39A	1.549503475	1.549503475	-5.41613079	0.11519926	0.002442807	0.025750803
217198	x at		1.549938073	1.549938073	-4.836338678	0.112238223	0.00355031	0.028878892
204724	s at	COL9A3	1.550091423	1.550091423	-5.735710406	0.118030873	0.002028402	0.024640687
213491	x at	RPN2	1.551058518	1.551058518	-10.03226201	0.063556289	0.000272231	0.019573215
203827	at	WIP1	1.551175918	1.551175918	-4.71062555	0.145450904	0.003879088	0.025452285
217083	at	IGHG1	1.551405154	1.551405154	-7.411689422	0.083455923	0.000879701	0.021431567
239283	at	TMED5	1.55212456	1.55212456	-7.009588707	0.090006597	0.001058227	0.021777307
220926	s at	EDEM3	1.552218417	1.552218417	-5.445673719	0.114527266	0.002399994	0.025630015
235103	at	MAN2A1	1.552687578	1.552687578	-4.724946181	0.146464864	0.003837889	0.029441584
217825	s at	UBE2J1	1.555014145	1.555014145	-8.468419251	0.077029234	0.000542846	0.020074432
208336	s at	TECR	1.555620803	1.555620803	-8.483872907	0.076954666	0.000539615	0.020033358
209112	at	CDKN1B	1.556567988	1.556567988	-6.28152616	0.10518371	0.001492019	0.023294552
211640	x at		1.556774693	1.556774693	-22.57303463	0.028395315	7.27026E-06	0.016554695
218070	s at	GMPPA	1.55754122	1.55754122	-5.380248062	0.124668942	0.002495315	0.025892382
210616	s at	SEC31A	1.558175157	1.558175157	-9.081504908	0.070049205	0.000399864	0.019641818
207809	s at	ATP6AP1	1.559283138	1.559283138	-6.623028953	0.102184234	0.001243214	0.022193097
204132	s at		1.562179361	1.562179361	-6.782857192	0.096062576	0.00116001	0.022007113
224615	x at	HM13	1.562780179	1.562780179	-5.278515778	0.130192447	0.002657684	0.026420625
223243	s at	EDEM3	1.56394764	1.56394764	-4.986722587	0.132244979	0.003199722	0.027926378
231011	at	LARP1B	1.56426595	1.56426595	-7.13699164	0.092309705	0.000998449	0.02158397
217235	x at		1.564553424	1.564553424	-5.717710073	0.11327075	0.002051829	0.024725551
200805	at	LMAN2	1.565270546	1.565270546	-6.58030985	0.101011212	0.001277142	0.022350959
215949	x at		1.56534401	1.56534401	-6.589438725	0.0980795	0.001266641	0.022328269
225090	at	SYVN1	1.565942598	1.565942598	-9.414560917	0.069677321	0.000358666	0.019620379
218615	s at	TMEM39A	1.566708152	1.566708152	-6.278401209	0.103773181	0.001496058	0.023294552
1558761	a at	FAM120AOS	1.566819978	1.566819978	-5.906647484	0.105329556	0.001846646	0.024161192
213902	at	ASAHI	1.56776663	1.56776663	-6.636585168	0.100156983	0.001235944	0.022193097
217157	x at		1.568299685	1.568299685	-7.650052312	0.084605527	0.000796497	0.021235971
1552663	a at	ERC1	1.568645778	1.568645778	-4.711770013	0.136017057	0.003875048	0.029543479
216064	s at	AGA	1.569255046	1.569255046	-5.873683321	0.112972475	0.001876535	0.02423299
240415	at		1.569389824	1.569389824	-5.901933813	0.106498441	0.001853916	0.024183975
239596	at	SLC30A7	1.57049026	1.57049026	-7.848967837	0.083718327	0.000726218	0.020928903
224797	at	ARRDC3	1.570720925	1.570720925	-5.771222826	0.109150494	0.001992859	0.024558288
217193	x at	IGL@	1.572443249	1.572443249	-7.047249025	0.093022739	0.001035608	0.021767302

205372	at	PLAG1	1.727299294	1.727299294	-5.135534418	0.136582081	0.002900026	0.027038833
203560	at	GGH	1.728700792	1.728700792	-8.54593695	0.096676841	0.000525882	0.020012515
1552790	a at	SEC62	1.729530073	1.729530073	-9.899431226	0.083448188	0.000289195	0.019573215
223568	s at	PPAPDC1B	1.729611504	1.729611504	-8.152296318	0.097573514	0.000627666	0.02066047
1598	g at	GAS6	1.73157292	1.73157292	-6.048545703	0.136035071	0.001696394	0.023850562
234350	at		1.732345325	1.732345325	-7.173162245	0.11733449	0.000980677	0.021570207
216401	x at		1.734068049	1.734068049	-6.490132611	0.122806115	0.001343382	0.022709821
224829	at	CPEB4	1.734736864	1.734736864	-4.801421466	0.166328506	0.003638361	0.02906584
230125	at	GUSB	1.735605855	1.735605855	-7.759394828	0.102510392	0.000757723	0.02097076
226526	s at		1.736449619	1.736449619	-4.852108635	0.177991302	0.003513959	0.028777259
1552481	s at	MAN1A2	1.736561283	1.736561283	-5.936719624	0.136722445	0.001814334	0.024071769
227027	at	GFPT1	1.737240569	1.737240569	-4.804080124	0.169335267	0.003542232	0.028852281
201646	at	SCARB2	1.739455023	1.739455023	-5.008292404	0.179142928	0.003158524	0.0278284
203232	s at	ATXN1	1.740988822	1.740988822	-5.253999876	0.147294003	0.002694843	0.026477994
224663	s at	CFL2	1.740998662	1.740998662	-8.146215073	0.099640299	0.000630089	0.02066047
210041	s at	PGM3	1.74299205	1.74299205	-4.880871932	0.172293282	0.003451758	0.028662161
216371	at		1.743865625	1.743865625	-5.709981229	0.131196702	0.002064754	0.024730451
240592	at	LCORL	1.744942329	1.744942329	-8.979275632	0.093686928	0.000424098	0.01973829
227737	at	SRPRB	1.746095061	1.746095061	-5.095639605	0.16728967	0.002981614	0.027266122
205167	s at	CDC25C	1.746683818	1.746683818	-6.03466032	0.128476358	0.001710127	0.028852281
230002	at		1.7470127	1.7470127	-5.44172057	0.144669297	0.002406456	0.025680008
229884	s at	MRPL2	1.747570392	1.747570392	-8.582225718	0.094874242	0.000514573	0.019976615
211635	x at		1.748617294	1.748617294	-12.51121533	0.066577304	0.000104207	0.018862319
210243	s at	B4GALT3	1.750204802	1.750204802	-9.985838902	0.083560894	0.000277885	0.019573215
225219	at	SMAD5	1.754799973	1.754799973	-5.525728567	0.149734745	0.002301441	0.025359629
215214	at	IGL@	1.756452601	1.756452601	-10.22099034	0.086735782	0.000246381	0.019468818
217378	x at		1.757435466	1.757435466	-14.15207683	0.057616269	6.13933E-05	0.018862319
210150	s at	LAMA5	1.757935162	1.757935162	-5.659116563	0.142205541	0.002127763	0.024855625
211634	x at		1.758129995	1.758129995	-11.7041715	0.070206423	0.000138135	0.018862319
224630	at	ERLEC1	1.759025522	1.759025522	-6.895456075	0.119088063	0.001105079	0.021887217
227046	at	SLC39A11	1.759895946	1.759895946	-5.39445759	0.158528432	0.002475927	0.025835102
216277	at	BUB1	1.760829571	1.760829571	-5.859350978	0.127511761	0.001899961	0.02429188
224683	at	FBXO18	1.76223748	1.76223748	-5.970688452	0.138433021	0.00177152	0.023911127
227280	s at	CCNYL1	1.766002854	1.766002854	-7.715435919	0.111549172	0.000770648	0.021051576
217824	at	UBE2J1	1.76649564	1.76649564	-5.767069639	0.155200601	0.002000129	0.024598668
207237	at	KCNA3	1.767245481	1.767245481	-5.253883696	0.164108516	0.002695651	0.026477994
225897	at	MARCKS	1.768238071	1.768238071	-4.976131273	0.168817151	0.00322638	0.028004851
225435	at	SSR1	1.770266907	1.770266907	-5.634047011	0.155139494	0.002164922	0.024925047
229838	at	NUCB2	1.770633745	1.770633745	-7.258252485	0.139837472	0.000944326	0.021561303
1555892	s at	LOC253039	1.772900377	1.772900377	-4.793958273	0.169460876	0.003654517	0.029089515
226384	at	PPAPDC1B	1.773437836	1.773437836	-5.811005501	0.147121616	0.001950045	0.024057181
224676	at	TMED4	1.774044648	1.774044648	-5.575609554	0.141321223	0.002233585	0.0251134
210535	at	B9D1	1.775209474	1.775209474	-4.96300935	0.157097068	0.003258692	0.02811582
219118	at	FKBP11	1.775437289	1.775437289	-8.29129392	0.104096949	0.000593738	0.020436868
234963	s at	FA2H	1.776567018	1.776567018	-9.176455163	0.089257815	0.000386939	0.019641818
212314	at	SEL1L3	1.782146384	1.782146384	-6.587940123	0.131067758	0.001268256	0.022328269
227432	s at	INSR	1.782802227	1.782802227	-4.778365347	0.179340717	0.003695715	0.029186023
226712	at	SSR1	1.782827066	1.782827066	-11.01217751	0.075712994	0.000172063	0.018919652
214971	s at	ST6GAL1	1.782874433	1.782874433	-9.451115288	0.088912814	0.000350588	0.019620379
225383	at	ZNF275	1.783720486	1.783720486	-17.32718056	0.04766987	2.74654E-05	0.018783212
237461	at	NLRP7	1.785015081	1.785015081	-5.888732873	0.134639318	0.001862802	0.024192096
213620	s at		1.785606658	1.785606658	-5.596096403	0.151257235	0.002215006	0.025102006
204547	at	RAB40B	1.786409089	1.786409089	-10.36038922	0.080114506	0.000226994	0.019132885
228897	at	DERL3	1.786529613	1.786529613	-5.914641207	0.145455577	0.001833721	0.024141378
213689	x at	FAM69A	1.786994845	1.786994845	-6.137930465	0.14792593	0.001617229	0.023685039
1555591	at	PIF1	1.789348984	1.789348984	-4.804145439	0.183155259	0.00362786	0.02904185
33304	at	ISG20	1.792136641	1.792136641	-8.246789077	0.10696786	0.000609894	0.020557228
231890	at		1.794334417	1.794334417	-5.009877544	0.164304032	0.003153677	0.027816732
214227	at	GNG7	1.7953091	1.7953091	-10.43356716	0.084515101	0.000219723	0.018999481
211649	x at		1.795536481	1.795536481	-10.26916014	0.083222949	0.000237495	0.019346271
226375	at	LMTK2	1.800385382	1.800385382	-4.7583726	0.190963718	0.003740145	0.029299785
222838	at	SLAMF7	1.802459913	1.802459913	-13.23410474	0.06336202	8.23963E-05	0.018862319
210035	s at		1.802883085	1.802883085	-6.952735087	0.129363912	0.001081653	0.021812479
215910	s at	FNDC3A	1.803788763	1.803788763	-8.423749069	0.099707282	0.000550924	0.020263184
227181	at	LNP1	1.805698063	1.805698063	-6.084646927	0.156241112	0.001668121	0.023767895
217258	x at		1.810878958	1.810878958	-9.817957635	0.088276132	0.000300504	0.019573215
201923	at	PRDX4	1.812589004	1.812589004	-10.05509462	0.085918428	0.000267384	0.019573215
204096	s at	ELL	1.82065599	1.82065599	-11.84658499	0.073675971	0.000127633	0.018862319
226134	s at		1.822511185	1.822511185	-7.515620562	0.118075222	0.000841735	0.021366158
203420	at	FAM8A1	1.824971121	1.824971121	-5.637548259	0.152776011	0.002160883	0.024925047

243613	at	DENND5B	1.829379144	1.829379144	-4.992474139	0.174105208	0.003184374	0.027900217
204698	at	ISG20	1.831054619	1.831054619	-8.069504566	0.113901605	0.000647861	0.020796193
1554462	a at	DNAJB9	1.831661349	1.831661349	-4.947330199	0.195636312	0.003294235	0.028214779
204702	s at	NFE2L3	1.838460094	1.838460094	-6.424691602	0.131155583	0.001393466	0.022754462
234364	at	IGL@	1.840062227	1.840062227	-5.955489919	0.155362583	0.001789292	0.024024364
216430	x at		1.840383045	1.840383045	-15.52617378	0.05650631	4.36216E-05	0.018783212
205662	at	B9D1	1.844578138	1.844578138	-4.737629916	0.174002987	0.003799922	0.029383494
224983	at	SCARB2	1.84759579	1.84759579	-5.86613253	0.170589911	0.001888652	0.02429188
209149	s at	TM9SF1	1.848762687	1.848762687	-5.993485204	0.155872454	0.001746478	0.023911127
216495	x at	IVD	1.849432497	1.849432497	-7.372001141	0.122115781	0.000901512	0.021431567
225777	at	C9orf140	1.849492617	1.849492617	-4.709351957	0.179789272	0.003881511	0.029556247
221523	s at	RRAGD	1.849583392	1.849583392	-4.795294925	0.210679745	0.003650478	0.029089515
227247	at	PLEKHA8	1.852609099	1.852609099	-7.903049127	0.109530935	0.000713293	0.020928903
216366	x at		1.852871576	1.852871576	-8.499149411	0.106448672	0.000536384	0.02003358
212902	at	SEC24A	1.856353802	1.856353802	-6.095512331	0.152222315	0.001654388	0.023741856
227525	at	GLCCI1	1.860337239	1.860337239	-5.56748083	0.16710876	0.002297402	0.025359629
203857	s at	PDIA5	1.860385206	1.860385206	-6.030022476	0.153366794	0.001717397	0.023893606
224595	at	SLC44A1	1.863600738	1.863600738	-5.911002306	0.163983034	0.001840184	0.024143147
219646	at	DEF8	1.865361015	1.865361015	-6.397215581	0.13839478	0.001417701	0.022894791
227210	at	SFMBT2	1.866442773	1.866442773	-5.467939367	0.169885943	0.00237172	0.029552945
233859	at	C14orf145	1.867911327	1.867911327	-5.945946212	0.155797618	0.00180464	0.024042445
209692	at	EYA2	1.86839096	1.86839096	-5.269664693	0.158749134	0.002670609	0.026420625
203231	s at	ATXN1	1.869575614	1.869575614	-6.206358778	0.144770841	0.001555028	0.023498166
202636	at	RNF103	1.870846317	1.870846317	-17.44004412	0.051605907	2.58498E-05	0.018783212
205698	s at	MAP2K6	1.872710573	1.872710573	-5.856235836	0.157524557	0.001902385	0.02429188
228759	at	CREB3L2	1.874922529	1.874922529	-10.2196057	0.090617632	0.000247189	0.019468818
202746	at	ITM2A	1.875165059	1.875165059	-4.806667046	0.184830019	0.003621397	0.029007915
221282	x at	RUNX2	1.875756369	1.875756369	-7.273725178	0.122861453	0.000939479	0.021561303
225327	at	KIAA1370	1.875963456	1.875963456	-13.01676699	0.070038642	9.209E-05	0.018862319
241611	s at	FNDC3A	1.878203074	1.878203074	-10.79845485	0.084360592	0.000189027	0.018999481
201235	s at	BTG2	1.879379329	1.879379329	-7.605055253	0.118875638	0.000811038	0.021248364
204076	at	ENTPD4	1.879685665	1.879685665	-6.078703947	0.147313466	0.001674583	0.023793789
217179	x at		1.880450675	1.880450675	-6.934025821	0.137639104	0.001092155	0.021858627
217922	at		1.881049687	1.881049687	-5.242217382	0.184369884	0.002718269	0.02651744
212900	at	SEC24A	1.882021565	1.882021565	-4.757908978	0.195591847	0.003742568	0.029307567
221004	s at	ITM2C	1.882600758	1.882600758	-8.035046573	0.117375577	0.000661594	0.020826875
230483	at		1.884405882	1.884405882	-5.335705454	0.161515731	0.002568017	0.026146753
1559003	a at	CCDC163P	1.886391514	1.886391514	-7.446866054	0.128057715	0.000868392	0.021383976
226719	at		1.889304227	1.889304227	-5.5753554	0.160752467	0.002234393	0.0251134
202304	at	FNDC3A	1.891712611	1.891712611	-5.90683725	0.156986946	0.001845838	0.024161192
204683	at	ICAM2	1.892742631	1.892742631	-4.769766441	0.220067292	0.003716718	0.020234347
212345	s at	CREB3L2	1.892795519	1.892795519	-8.286396494	0.113298903	0.000595353	0.020436868
214242	at	MAN1A2	1.894601161	1.894601161	-8.261463179	0.108964508	0.000601816	0.020480601
223569	at	PPAPDC1B	1.895151779	1.895151779	-8.322877954	0.114270868	0.000581621	0.020390195
217180	at		1.895259879	1.895259879	-6.746030632	0.147153619	0.001181821	0.02022852
1559561	at	FBXO18	1.896307236	1.896307236	-5.335586409	0.174941973	0.002569633	0.026146753
222805	at	MANEA	1.89758883	1.89758883	-6.703582608	0.149536383	0.001205248	0.022077836
228482	at		1.900479963	1.900479963	-4.876619566	0.184640563	0.003459836	0.028679638
236557	at	ZBTB38	1.901358225	1.901358225	-8.736724324	0.113014943	0.000476606	0.01996699
205352	at	SERPINI1	1.906252448	1.906252448	-4.749759775	0.215621818	0.00376761	0.029359258
226601	at	SLC30A7	1.906416909	1.906416909	-10.12299284	0.093212584	0.000258498	0.019532158
203136	at	RABAC1	1.907940468	1.907940468	-8.32633	0.115968485	0.000580005	0.020388115
204079	at	TPST2	1.90827712	1.90827712	-9.210564655	0.105039058	0.000383708	0.019641818
221511	x at	CCPG1	1.909152987	1.909152987	-7.368917434	0.126918925	0.000903128	0.021431567
216394	x at		1.910212206	1.910212206	-11.73749003	0.079052356	0.000134096	0.018862319
200796	s at	MCL1	1.912243452	1.912243452	-5.026225373	0.176695199	0.003122298	0.027729832
225382	at	ZNF275	1.91673295	1.91673295	-5.886331542	0.165402454	0.001867649	0.024214643
228551	at	DENND5B	1.923313472	1.923313472	-5.582151747	0.172896797	0.002224699	0.0251134
218324	s at	SPATS2	1.923428219	1.923428219	-5.87289035	0.175914985	0.00187815	0.02423299
244874	at		1.925271015	1.925271015	-7.390474893	0.136905884	0.000889395	0.021431567
234419	x at		1.925985346	1.925985346	-7.523964513	0.133345647	0.000835272	0.021337621
1554383	a at	TRAM2	1.92906127	1.92906127	-8.958477139	0.109432927	0.00042733	0.01973829
229421	s at	RBM47	1.934690189	1.934690189	-5.49364025	0.18269473	0.002332946	0.025420771
226238	at	MCEE	1.938011785	1.938011785	-5.207364193	0.188647101	0.002775624	0.026778738
206223	at	LMTK2	1.939518172	1.939518172	-5.603674235	0.174154764	0.002204504	0.025043106
238961	s at	FNDC3A	1.942967478	1.942967478	-9.46878378	0.100547586	0.000346549	0.019620379
1555294	a at	ERC1	1.945667399	1.945667399	-6.514900945	0.139333668	0.001328842	0.022650896
224342	x at		1.949592895	1.949592895	-8.484534878	0.119685132	0.000538807	0.02003358
213792	s at	INSR	1.950234432	1.950234432	-4.802458065	0.210192058	0.003634322	0.02906584
214723	x at	ANKRD36	1.953631665	1.953631665	-6.751449752	0.138749544	0.001177782	0.022022852

202843	at	DNAJB9	1.955461003	1.955461003	-8.157500515	0.124778626	0.00062605	0.020660046
203640	at	MBNL2	1.95615821	1.95615821	-7.841629103	0.128001783	0.000731065	0.020928903
222015	at	CSNK1E	1.959596053	1.959596053	-8.423148219	0.116478051	0.000551732	0.020263184
234877	x at		1.962050438	1.962050438	-7.274335119	0.144621694	0.000937864	0.021561303
212311	at	SEL1L3	1.965916203	1.965916203	-8.377605923	0.122783907	0.000565465	0.020326287
222594	s at	SPATS2	1.966943385	1.966943385	-10.56322116	0.092360082	0.000204375	0.018999481
243816	at	ZNF70	1.969504017	1.969504017	-4.949237314	0.202979674	0.003289389	0.028205322
234884	x at	IGL@	1.972110382	1.972110382	-9.016404289	0.114125091	0.000415213	0.018651532
229072	at		1.978225325	1.978225325	-5.112758707	0.209336058	0.002951725	0.027182125
208087	s at	ZBP1	1.978669022	1.978669022	-6.93013254	0.148011132	0.00109377	0.021858627
230795	at		1.983617963	1.983617963	-6.16096586	0.162725473	0.001599457	0.023622322
224596	at	SLC44A1	1.990337963	1.990337963	-8.935193498	0.116874586	0.000437023	0.01973829
223325	at	TXNDC11	1.99365736	1.99365736	-8.772179817	0.117502915	0.000469336	0.019899768
202368	s at	TRAM2	1.995395255	1.995395255	-9.133982589	0.111643225	0.000393402	0.019641818
232635	at	C14orf145	1.996629551	1.996629551	-5.009744053	0.216970497	0.003154485	0.027816732
214768	x at	FAM20B	2.000277346	2.000277346	-13.87719655	0.073250798	6.62401E-05	0.018862319
216412	x at		2.00280097	2.00280097	-15.48599426	0.06552524	4.52372E-05	0.018783212
216852	x at	IGL@	2.004231947	2.004231947	-11.68651176	0.086335967	0.000139751	0.018862319
221286	s at	MGC29506	2.005766205	2.005766205	-9.067595107	0.114817785	0.000403903	0.019641818
1569380	a at		2.007470035	2.007470035	-5.080905707	0.188064189	0.00308272	0.027375526
223754	at	C2orf88	2.008071824	2.008071824	-6.340083316	0.161175037	0.001457283	0.023079343
208130	s at	TBXAS1	2.009116486	2.009116486	-4.811702025	0.198740277	0.00360928	0.02898369
231243	s at	BHLHE41	2.012652317	2.012652317	-5.515584391	0.200744912	0.002307904	0.025359629
225998	at	GAB1	2.01269704	2.01269704	-5.265128875	0.17849664	0.002675456	0.026420625
223362	s at	39327	2.017908269	2.017908269	-7.790734727	0.140808706	0.000748029	0.020928903
216853	x at		2.018457183	2.018457183	-9.084268726	0.11362474	0.000399056	0.019641818
217320	at		2.022904939	2.022904939	-5.799234837	0.167902364	0.001965394	0.024500949
216566	at		2.023957543	2.023957543	-8.277896048	0.125915276	0.000597777	0.020479181
225700	at	GLCCI1	2.030187108	2.030187108	-5.245054033	0.208166913	0.002712615	0.02651744
209031	at	CADM1	2.031665414	2.031665414	-6.452474945	0.225969814	0.001367617	0.022720816
226742	at		2.032447579	2.032447579	-5.48775804	0.197976931	0.002345063	0.02545865
205017	s at	MBNL2	2.037279005	2.037279005	-7.952756887	0.130704795	0.000698753	0.020928903
216363	at		2.046138248	2.046138248	-11.34959979	0.093181223	0.000161561	0.018919652
235353	at	SEL1L3	2.046307093	2.046307093	-6.538008606	0.157206039	0.001311878	0.022558199
216365	x at		2.047970596	2.047970596	-8.658969349	0.12235715	0.000494378	0.019976615
1555227	a at	MANEA	2.04879881	2.04879881	-6.130242738	0.165474365	0.001625307	0.02372368
209217	s at	WDR45	2.05140539	2.05140539	-7.485906011	0.145314412	0.000853044	0.021383976
242020	s at	ZBP1	2.051844169	2.051844169	-8.093908402	0.127529354	0.000640591	0.02066734
213566	at	RNASE6	2.05246451	2.05246451	-15.13057335	0.069081094	4.92762E-05	0.018862319
214602	at	COL4A4	2.057891077	2.057891077	-12.55877006	0.083478192	0.000103399	0.018862319
1568804	at		2.061371205	2.061371205	-14.79561062	0.070596078	5.25074E-05	0.018862319
203096	s at	RAPGEF2	2.06360361	2.06360361	-5.325747055	0.192170016	0.002584173	0.026152331
205992	s at	IL15	2.065257274	2.065257274	-5.786132924	0.20025109	0.001979934	0.024547649
207112	s at	GAB1	2.06947321	2.06947321	-4.750738814	0.207545525	0.003764379	0.029359258
216301	at	LOC100293713	2.072570391	2.072570391	-8.580725822	0.130729923	0.000516188	0.019976615
225233	at	MSI2	2.076666554	2.076666554	-8.88537524	0.11871921	0.000444294	0.01973829
232938	at	SFMBT2	2.082593279	2.082593279	-5.544096254	0.187936509	0.002273976	0.025313127
214970	s at	ST6GAL1	2.084414451	2.084414451	-8.948477378	0.12117806	0.000431369	0.01973829
203725	at	GADD45A	2.091144733	2.091144733	-6.264113365	0.176019205	0.001508175	0.023355947
219505	at	CECR1	2.095507243	2.095507243	-5.985293666	0.205902483	0.001756979	0.023911127
212097	at	CAV1	2.105409288	2.105409288	-5.007154112	0.195989691	0.00316014	0.027830669
216686	at	FLJ40330	2.107312903	2.107312903	-5.154119661	0.197120284	0.002862867	0.026999466
214777	at	IGKV4-1	2.109871165	2.109871165	-10.03473033	0.109140771	0.000271423	0.019573215
238673	at	SAMD12	2.110522224	2.110522224	-7.810467439	0.156898654	0.000743182	0.020928903
202747	s at	ITM2A	2.117241335	2.117241335	-8.886595536	0.126411607	0.000443486	0.01973829
226982	at	ELL2	2.122110375	2.122110375	-4.98746336	0.234781835	0.003196491	0.027926378
213555	at	RWDD2A	2.130077196	2.130077196	-5.063948611	0.235461172	0.003040584	0.02749862
224889	at	FOXO3	2.143004845	2.143004845	-4.782720756	0.236794744	0.003685214	0.029165666
226858	at	CSNK1E	2.150758957	2.150758957	-5.053141125	0.2189498	0.003062395	0.027557245
209030	s at	CADM1	2.166130753	2.166130753	-9.478630658	0.136872196	0.000344933	0.019620379
228308	at	FKBP11	2.167742286	2.167742286	-5.282591339	0.211737642	0.002652029	0.02640868
234792	x at		2.169893114	2.169893114	-7.432433771	0.151284297	0.000871623	0.021417885
230232	at	SEL1L3	2.172055628	2.172055628	-9.632798578	0.118160922	0.000322315	0.019573215
242296	x at		2.174245506	2.174245506	-4.696184436	0.26477493	0.003909784	0.029649012
230777	s at	PRDM15	2.176761593	2.176761593	-5.493612625	0.201855921	0.002333753	0.025420771
239729	at		2.179569488	2.179569488	-5.397210569	0.213381132	0.002472696	0.025835102
216573	at		2.188115281	2.188115281	-6.732993772	0.165424719	0.001188284	0.02203797
204131	s at	FOXO3	2.192293004	2.192293004	-7.560836146	0.149086548	0.000823963	0.02126081
215777	at	IGLV4-60	2.192979028	2.192979028	-4.724387922	0.306240662	0.003841928	0.029447722
217151	at		2.197580731	2.197580731	-10.56635046	0.109697583	0.000203567	0.018999481

234477	at		2.20036119	2.20036119	-6.830418111	0.166378709	0.001131737	0.021927983
216560	x at	IGL@	2.203708343	2.203708343	-10.99286427	0.110384823	0.000173678	0.018919652
243606	at	FAM55C	2.210887151	2.210887151	-7.094846486	0.168695673	0.001017836	0.021615457
200670	at	XBP1	2.216659605	2.216659605	-6.857325408	0.176622275	0.001120428	0.021925493
234366	x at	IGL@	2.217171163	2.217171163	-8.139608491	0.153813698	0.000630897	0.02066047
205141	at	ANG	2.218771201	2.218771201	-5.278341997	0.240791958	0.002658492	0.026420625
222364	at	SLC44A1	2.218813518	2.218813518	-7.141119967	0.16845342	0.000996026	0.021571799
223565	at	MGC29506	2.22335885	2.22335885	-8.940199703	0.134859264	0.0004346	0.01973829
225706	at	GLCCI1	2.22338196	2.22338196	-12.71678855	0.091345435	0.000100976	0.018862319
228485	s at	SLC44A1	2.224567396	2.224567396	-7.745061654	0.154516583	0.000765801	0.020997277
219410	at	TMEM45A	2.242870461	2.242870461	-6.604134938	0.166722243	0.001254524	0.022296703
225714	s at		2.24855495	2.24855495	-6.010916078	0.186290009	0.001727091	0.023909853
224891	at	FOXO3	2.253109477	2.253109477	-8.877598269	0.135033981	0.000445909	0.01973829
226049	at	ERC1	2.257885968	2.257885968	-14.70551748	0.079265715	5.4123E-05	0.018862319
235638	at	RASSF6	2.281018862	2.281018862	-6.298422673	0.185943055	0.001481517	0.023229771
230448	at	SLC38A10	2.283243281	2.283243281	-11.83086709	0.10181601	0.000129249	0.018862319
214116	at	BTBD	2.296454278	2.296454278	-4.674940709	0.25325484	0.003962292	0.029831293
217035	at		2.302852298	2.302852298	-7.82366008	0.144201987	0.000739143	0.020928903
205018	s at	MBNL2	2.308732346	2.308732346	-8.414682698	0.156730764	0.000554155	0.020272862
211642	s at		2.309918953	2.309918953	-6.838220567	0.162688994	0.00112689	0.023927983
244721	at	TP53INP1	2.311717637	2.311717637	-9.749708173	0.128546767	0.000306967	0.019573215
1561940	at	POLE	2.320768457	2.320768457	-5.963266996	0.188571453	0.001777982	0.023946155
217540	at	FAM55C	2.320989313	2.320989313	-6.809483327	0.181553068	0.001143046	0.021953977
208982	at	PECAM1	2.338987833	2.338987833	-12.96196101	0.100430219	9.37056E-05	0.018862319
228898	s at		2.342574135	2.342574135	-9.147048104	0.141086523	0.000390978	0.019641818
232297	at	KLHL5	2.35137774	2.35137774	-7.954008302	0.157842272	0.000697945	0.020928903
210655	s at		2.358175418	2.358175418	-6.433914992	0.175827409	0.001383773	0.022751145
215606	s at	ERC1	2.360784029	2.360784029	-6.989009044	0.168703672	0.001066305	0.021777307
203167	at	TIMP2	2.367693156	2.367693156	-6.388670001	0.198393873	0.001422547	0.022918882
229656	s at	EML6	2.368518374	2.368518374	-4.900440107	0.27542404	0.003408944	0.028561248
234306	s at	SLAMF7	2.387519918	2.387519918	-13.04970794	0.097509675	8.80509E-05	0.018862319
235965	at		2.388850079	2.388850079	-6.132113222	0.216084052	0.001624499	0.02372368
229719	s at	DERL3	2.392430647	2.392430647	-10.96785376	0.120263603	0.000177717	0.018919652
1553536	at	MBNL2	2.406956302	2.406956302	-11.67042925	0.111753603	0.000141366	0.018862319
204964	s at	SSPN	2.417698649	2.417698649	-16.05593154	0.081327318	3.87747E-05	0.018783212
202708	s at	HIST2H2BE	2.422904314	2.422904314	-5.265453123	0.224118931	0.002674648	0.026420625
231931	at	PRDM15	2.426800825	2.426800825	-5.528198564	0.23211526	0.002295786	0.025359629
235602	at	TP53INP1	2.429720036	2.429720036	-10.23682575	0.127617906	0.000243958	0.019377977
217036	at	LOC100293679	2.43249718	2.43249718	-8.302839979	0.148844714	0.000588891	0.020413729
211655	at	IGL@	2.437108121	2.437108121	-5.249518064	0.228660945	0.002700498	0.026479591
217489	s at	IL6R	2.446284775	2.446284775	-5.687026024	0.251876771	0.00209545	0.024808216
204963	at	SSPN	2.454695926	2.454695926	-6.994651496	0.203586989	0.001063881	0.021777307
226216	at	INSR	2.459656889	2.459656889	-5.8146483	0.263869057	0.001947622	0.024456722
233969	at	IGL@	2.495433919	2.495433919	-11.45545241	0.119818784	0.000155907	0.018878161
240915	at		2.500816871	2.500816871	-5.758752757	0.270923447	0.002009015	0.02460486
230728	at		2.502737661	2.502737661	-6.75407027	0.205843363	0.001175359	0.022022852
215035	at		2.505638272	2.505638272	-7.624805074	0.167929378	0.000804575	0.021235971
205903	s at	KCNN3	2.513842972	2.513842972	-7.597800232	0.180798217	0.0008175	0.021257734
226884	at	LRRN1	2.525062249	2.525062249	-5.647344878	0.226370394	0.002148766	0.024921047
244841	at	SEC24A	2.5314862	2.5314862	-6.242809823	0.221484103	0.001522716	0.023382268
1558176	at		2.538978155	2.538978155	-7.760290662	0.169273335	0.000756915	0.02097076
229721	x at	DERL3	2.563606681	2.563606681	-7.158300256	0.202623697	0.000989563	0.021570207
244033	at	C14orf145	2.574363178	2.574363178	-6.793001901	0.220321543	0.001155164	0.022007113
1560316	s at	GLCCI1	2.592082934	2.592082934	-5.054303848	0.254692327	0.003059164	0.027545093
243880	at	GOSR2	2.596129965	2.596129965	-6.185327893	0.204455209	0.001574415	0.023563252
216829	at		2.632457013	2.632457013	-6.723788187	0.207092726	0.001194746	0.022053059
230673	at	PKHD1L1	2.643094125	2.643094125	-9.029259183	0.164690888	0.000412789	0.019651532
236766	at		2.653736153	2.653736153	-6.826073393	0.211030752	0.001135776	0.021927983
1557756	a at	C14orf145	2.662298405	2.662298405	-7.10706094	0.197445007	0.001009758	0.021615457
227627	at	SGK3	2.666453368	2.666453368	-7.660359253	0.186336477	0.000792458	0.02122286
215036	at	IGL@	2.675761946	2.675761946	-8.372034558	0.167525269	0.00056708	0.020326287
231181	at		2.744858517	2.744858517	-21.82198805	0.067645375	8.8587E-06	0.016554695
225341	at	MTERFD3	2.759397693	2.759397693	-15.30749311	0.092470239	4.76606E-05	0.018783212
208983	s at	PECAM1	2.772803824	2.772803824	-6.212333169	0.260511131	0.001549373	0.023450447
244040	at		2.795237407	2.795237407	-9.085086887	0.164755027	0.000398249	0.019641818
235030	at	FAM55C	2.814315042	2.814315042	-7.728334663	0.200367454	0.000767416	0.020997277
207734	at	LAX1	2.825157094	2.825157094	-6.831435732	0.230162108	0.001130121	0.021927983
215042	at	BMP6	2.827124771	2.827124771	-4.686921232	0.311690387	0.003932403	0.029737364
231428	at		2.830513868	2.830513868	-6.012675162	0.233277118	0.001724667	0.023908606
205692	s at	CD38	2.835613988	2.835613988	-7.263072003	0.217358649	0.00094271	0.021561303

240118	at		2.841679345	2.841679345	-5.77471671	0.239680442	0.001989628	0.024547992
219390	at	FKBP14	2.843320531	2.843320531	-6.716520601	0.213534083	0.001199593	0.022058093
228486	at	SLC44A1	2.871583961	2.871583961	-7.842084585	0.204116591	0.000730257	0.020928903
208981	at	PECAM1	2.895335507	2.895335507	-7.481148787	0.207963462	0.000856275	0.021383976
236067	at		2.913495305	2.913495305	-6.089638931	0.234092253	0.001662466	0.023741856
222693	at	FNDC3B	2.919104528	2.919104528	-5.316088943	0.299414828	0.002604369	0.026251598
207321	s at	ABCB9	2.933500699	2.933500699	-5.047520498	0.325930779	0.003076128	0.027576675
220214	at	ZNF215	2.938977099	2.938977099	-10.47460695	0.154629737	0.000215684	0.018999481
205902	at	KCNN3	2.982201643	2.982201643	-6.429246255	0.237129752	0.001387812	0.022751145
231167	at		2.998572153	2.998572153	-5.98985364	0.263341515	0.00175294	0.023911127
227620	at	SLC44A1	3.035625026	3.035625026	-7.366944746	0.223315645	0.000903936	0.021431567
217853	at	TNS3	3.054935095	3.054935095	-4.997177956	0.34542881	0.003178719	0.027890909
244593	at	C17orf28	3.07369205	3.07369205	-5.367507559	0.279957941	0.002513086	0.025962099
1569040	s at	FLJ40330	3.142678912	3.142678912	-8.05709623	0.208722051	0.0006519	0.020796193
210387	at		3.196569936	3.196569936	-5.724733272	0.379622524	0.002042135	0.024719592
206150	at	CD27	3.308254099	3.308254099	-10.58095312	0.171951467	0.000201144	0.018999481
232792	at	TRIM69	3.329915713	3.329915713	-5.795725233	0.307366565	0.001972664	0.024500949
230397	at		3.385664863	3.385664863	-7.972841593	0.232150253	0.000685828	0.020928903
1556183	at	FLJ40330	3.393296102	3.393296102	-5.027629798	0.334665553	0.003118941	0.027713148
201656	at	ITGA6	3.458101961	3.458101961	-5.513933005	0.293410105	0.002309519	0.025359629
243810	at		3.679458715	3.679458715	-6.097366592	0.307831283	0.001652772	0.023741856
229865	at	FNDC3B	3.710829127	3.710829127	-5.92330169	0.35646633	0.001828066	0.024092138
204740	at	CNKSR1	3.747099651	3.747099651	-9.470201209	0.197954342	0.000345741	0.019620379
225032	at	FNDC3B	3.853379874	3.853379874	-8.223739343	0.25927393	0.000613933	0.020625522
242320	at		3.992482969	3.992482969	-5.125532424	0.312157216	0.002920221	0.027086777
222692	s at	FNDC3B	4.142728144	4.142728144	-7.940635392	0.282984183	0.000701176	0.020928903
238674	at		4.182042981	4.182042981	-4.738360906	0.385201807	0.003798307	0.029383494
215721	at		4.249545829	4.249545829	-10.48890024	0.194036985	0.000214877	0.018999481
218618	s at	FNDC3B	4.544136926	4.544136926	-4.944360184	0.405414317	0.00329989	0.028214779
215177	s at	ITGA6	4.705973158	4.705973158	-7.204841658	0.301543758	0.000964521	0.021570207

Functionally Distinct Subpopulations of CpG-Activated Memory B Cells

Henn A, Laski M, Yang H, Welle S, Qiu X, Miao H, Barry CT, Wu H, Zand MS

Normal human memory B cells were activated with CpG ODN and a cocktail of IL-2, IL-10, IL-15, and rhBAFF in vitro for 96hrs before FACS-sorting and RNA isolation. This table contains p-values from unadjusted paired t-test comparisons of qRT-PCR data from the cell subsets. An unpaired t-test was used for samples with zero values.

Target	Probe ID	CD27lo/CD27hi	CD27lo/Undivided	CD27hi/Undivided
AICDA	Hs00757808_m1	0.010199	0.0225398	0.187677
BACH2	Hs00222364_m1	0.025746	0.001772	1.92E-05
BCL6		0.228112	0.0238924	9.67E-06
CCL22	Hs00171080_m1	0.002612	0.3088699	0.002899
CCR6	Hs01890706_s1	0.079277	0.004507	5.30E-05
CCR7	Hs01013469_m1	0.005532	0.0118232	4.10E-05
CD19		0.025679	0.0027626	0.001711
CD27	Hs00386811_m1	0.000922	0.0171464	0.000173
CD38		0.002373	0.0154767	0.001462
CD40	Hs00374176_m1	0.011262	0.0048813	8.16E-05
CD59	Hs00174141_m1	0.015997	0.0002148	8.39E-06
CD74	Hs00269961_m1	0.016001	0.0050797	0.000376
CD80	Hs00175478_m1	0.019873	0.1115677	0.135248
CD83	Hs00188486_m1	0.003097	0.0275328	1.81E-05
CIITA	Hs00172094_m1	0.011701	0.001992	4.83E-05
CXCR5	Hs00540548_s1	0.00518	0.0050477	2.46E-05
FAM129C	Hs00403541_m1	0.143744	0.039159	0.018509
FCRL3	Hs00364720_m1	0.024723	0.0008712	5.04E-05
HSPA5	Hs00946084_g1	0.00696	8.81E-05	7.35E-06
IGL@	Hs00760769_s1	0.011176	0.0043649	5.90E-05
IL2RA	Hs00907779_m1	0.015502	0.0007305	0.417546
IL4R	Hs00166237_m1	0.005577	0.0194869	0.000405
IL6	Hs00985639_m1	0.004615	0.0029348	0.000105
IL6R	Hs01075667_m1	0.009966	0.0004041	0.000177
PAX5		2.13E-05	9.55E-05	3.03E-07
PRDM1	Hs00153357_m1	0.005854	0.0004301	2.04E-05
PTPRC	Hs00365634_g1	0.060017	0.1725698	0.004752
STAT6		1.90E-05	0.0005841	1.19E-06
TCL1A	Hs00951350_m1	0.007154	0.0087015	3.25E-06
TNFRSF17	Hs03045080_m1	0.006512	0.0007453	4.06E-05
XBP1	Hs00231936_m1	0.00017	0.00061	2.13E-05