

# Direct inhibition of the NOTCH TF. Differential expression analysis

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# 1 Array expression profiling

## Summary

NOTCH proteins regulate signaling pathways involved in cellular differentiation, proliferation and death. Overactive Notch signaling has been observed in numerous cancers and has been extensively studied in the context of T-cell acute lymphoblastic leukemia (T-ALL) where more than 50% of patients harbour mutant NOTCH1. Small molecule modulators of these proteins would be important for understanding the role of NOTCH proteins in malignant and normal biological processes.

We were interested to measure the global changes in gene expression upon treatment of the human T-ALL cell lines HPB-ALL and KOPT-K1 with either vehicle alone (DMSO) or SAHM1, an alpha-helical hydrocarbon stapled peptide derived from the MAML1 co-activator protein.

**Overall design** Triplicate cultures of KOPT-K1 or HPB-ALL cells were treated with either DMSO alone or SAHM1 (20 uM) for 24 hours. Total RNA was extracted and hybridized to Affymetrix human U133 plus 2.0 microarrays (three arrays per treatment per cell line for a total of 12 arrays).

## 1.1 Pipeline

### Script 1.1.1 (python)

```
1 import rpy2.rinterface
2 %reload_ext rpy2.ipython
```

### Script 1.1.2 (R)

```
1 %%R
2 ##1. Load libraries
3 library("affy")
4 library("limma")
5 library("genefilter")
6 library(hgu133plus2.db)
7 wd = getwd()
8 wd
```

```
[1] "/Users/nandoide/misc_work/Desktop/uni/TRREP"
```

### Script 1.1.3 (R)

```
1 %%R
2 #Normalization and differential expression for Affymetrix arrays
3 #2. Import .CEL files
4 setwd("GSE18198_data")
5 files_HPB <- list.files(pattern = "HPB*")
6 names_HPB <- gsub(".CEL.gz", "", files_HPB)
7 abatch_HPB <- ReadAffy(filenamees = files_HPB, compress = TRUE, sampleNames = names_HPB)
8 setwd(wd)
```

### Script 1.1.4 (R)

```
1 %%R
2 #3. Normalize with RMA
3 #generates object eset (class ExprSet),
4 #expresso function provides intensities in log scale
5 #pmonly = perfect match only method
6 eset_HPB <- expresso(abatch_HPB,
7                       bg.correct = TRUE,
8                       bgcorrect.method="rma",
9                       normalize = TRUE,
10                      normalize.method="quantiles",
11                      pmcorrect.method="pmonly",
12                      summary.method="medianpolish",
13                      verbose = TRUE
14 )
```

### Output

```
/Users/nandoide/miniconda3/lib/python3.7/site-packages/rpy2/rinterface/__init__.py:146:
↳ RRuntimeWarning:

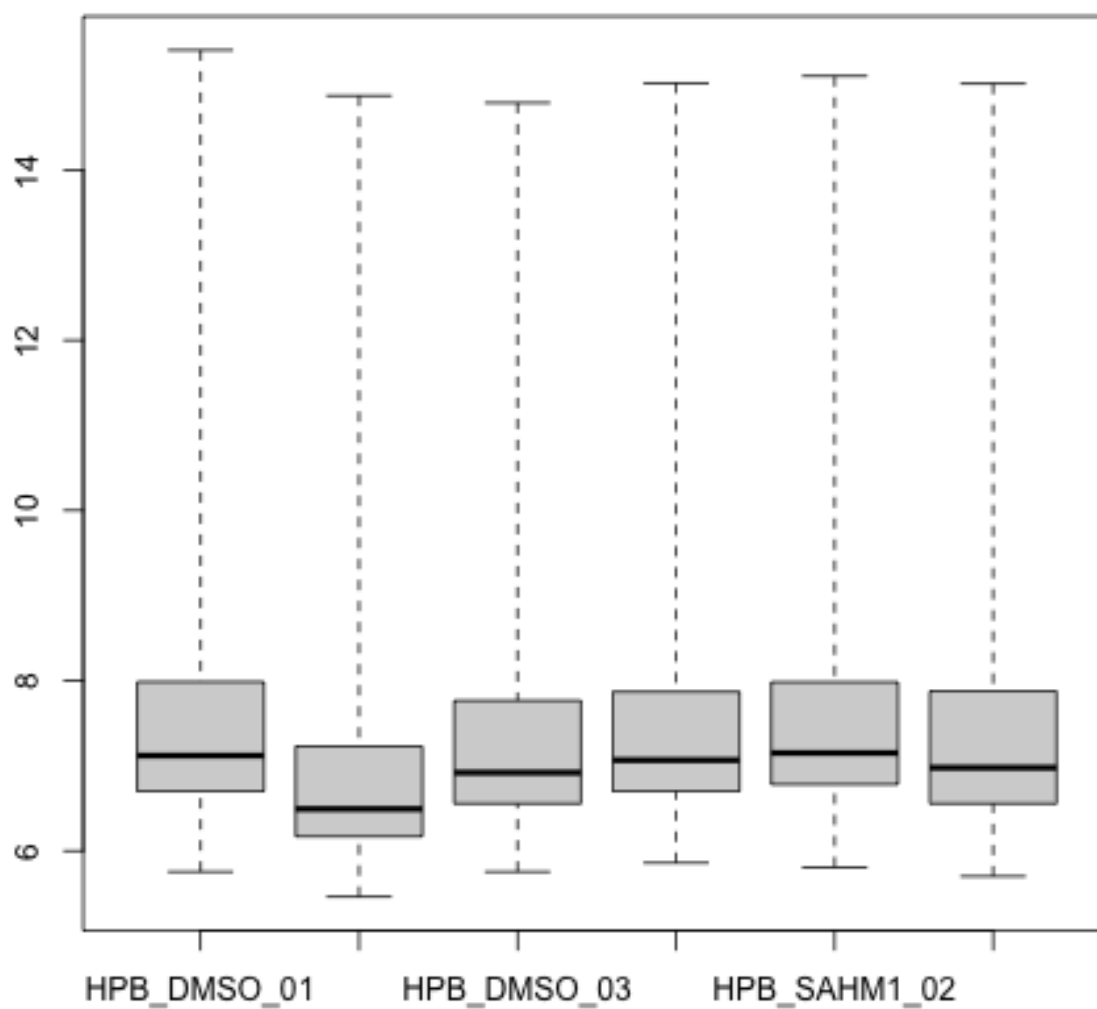
  warnings.warn(x, RRuntimeWarning)
```

```
background correction: rma
normalization: quantiles
PM/MM correction : pmonly
expression values: medianpolish
background correcting...done.
normalizing...done.
54675 ids to be processed
|                               |
|#####|
```

### Script 1.1.5 (R)

```
1 %%R
2 #4. Generate BOXPLOTS before and after normalization
3 #boxplot for raw data
4 boxplot(abatch_HPB,
5         main="Boxplot Before Normalization",
6         col = "lightgrey")
```

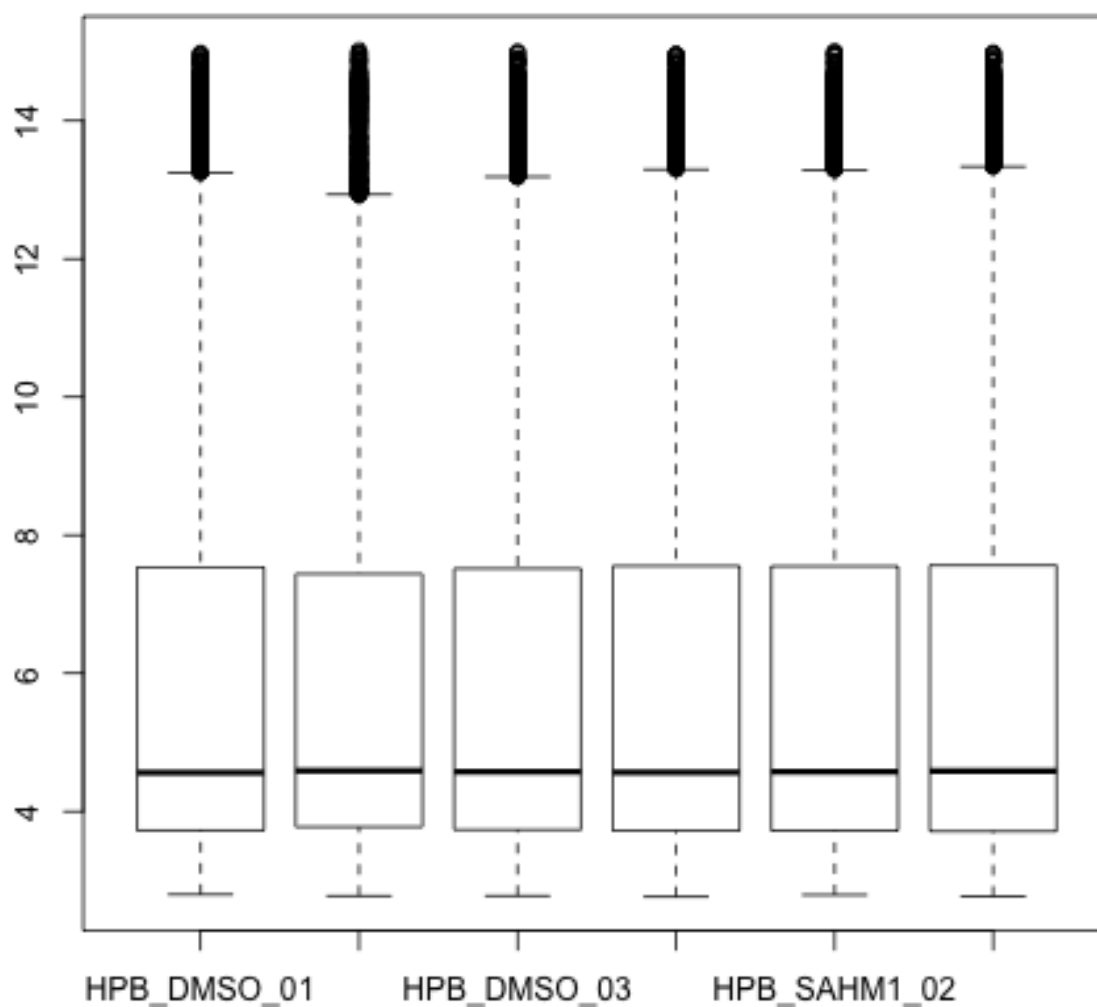
**Boxplot Before Normalization**



Script 1.1.6 (R)

```
1 %%R
2 #boxplot for normalized data
3 df_eset_HPB <- as.data.frame(exprs(eset_HPB))
4 boxplot(data.frame(df_eset_HPB),
5         main="Boxplot After Normalization (log scale)", col = "white")
```

**Boxplot After Normalization (log scale)**



#### Script 1.1.7 (R)

```
1 %%R
2 #5. Data filtering using IQR.
3 esetIQR_HPBB <- varFilter(eset_HPBB, var.func=IQR, var.cutoff=0.5, filterByQuantile=TRUE)
4
5 #####Differential expression analysis.#####
6 #6. Design matrix.
7 design_HPBB <- cbind(DMSO=c(1,1,1,0,0,0), SAHM1=c(0,0,0,1,1,1))
8
```

```

9 rownames(design_HPB) <- names_HPB
10
11 #7. Contrasts matrix.
12 cont.matrix_HPB <- makeContrasts(DMSO_SAHM1 = SAHM1 - DMSO, levels = design_HPB)
13
14 #8. Obtaining differentially expressed genes (DEGs)
15 #Linear model and eBayes
16 fit <- lmFit(esetIQR_HPB, design_HPB) ##getting DEGs from IQR
17 fit2 <- contrasts.fit(fit, cont.matrix_HPB)
18 fit2 <- eBayes(fit2)
19
20 #Table with DEGs results
21 toptableIQR <- topTable(fit2, number=dim(exprs(esetIQR_HPB))[1], adjust.method="BH",
  → sort.by="p")
22
23 ##9. Save results
24 save(toptableIQR,file="IQR_HPB.RData")

```

### Script 1.1.8 (R)

```

1 %%R
2 #Gene Anotation
3 toptableIQR_HPB <- topTable(fit2, adjust.method = "fdr",
4                             number=dim(exprs(esetIQR_HPB))[1], sort.by = "p" )
5
6 toptableIQR_HPB_fdr05 <- subset(toptableIQR_HPB, toptableIQR_HPB$adj.P.Val<=0.05) #fdr<=0.05
7 probenames_toptableIQR_HPB_fdr05 <- as.character(rownames(toptableIQR_HPB_fdr05 )) #vector de
  → los nombres de las sondas
8 genesymbols_toptableIQR_HPB_fdr05 <- as.character(mget(probenames_toptableIQR_HPB_fdr05,
9                                                         hgu133plus2SYMBOL)) #vector con los nombres de los genes
10 toptableIQR_annot <- cbind(Symbol = genesymbols_toptableIQR_HPB_fdr05,
  → toptableIQR_HPB_fdr05) #tabla de resultados
11 #toptableIQR_annot

```

### Script 1.1.9 (bash)

```

1 %%R
2 options(repr.matrix.max.rows=50, repr.matrix.max.cols=6)
3 toptableIQR_annot[c(1,2,6)]

```

	Symbol	logFC	adj.P.Val
201466_s_at	JUN	2.1333931	2.108830e-06
201464_x_at	JUN	1.5541848	7.688286e-06
229147_at	RASSF6	1.6458323	7.688286e-06
230710_at	MIR210HG	-1.9761492	7.688286e-06
201465_s_at	JUN	2.2743608	1.053822e-05
225342_at	AK4	-2.1078858	1.128982e-05
219270_at	CHAC1	1.3362724	3.651273e-05
202672_s_at	ATF3	1.3481402	3.651273e-05

207076_s_at	ASS1	1.4918960	3.651273e-05
201842_s_at	EFEMP1	-1.3678548	6.004820e-05
235638_at	RASSF6	1.7804932	7.997079e-05
200953_s_at	CCND2	-1.2357909	7.997079e-05
227336_at	DTX1	-1.3841443	8.636324e-05
222853_at	FLRT3	1.3254635	1.138577e-04
227347_x_at	HES4	-1.2640712	1.228528e-04
202464_s_at	PFKFB3	-1.1937490	1.228528e-04
202022_at	ALDOC	-1.1753644	1.248092e-04
209921_at	SLC7A11	1.1333321	1.248092e-04
240546_at	LINC01120	-1.1131135	1.552628e-04
201010_s_at	TXNIP	1.1062690	1.552628e-04
201008_s_at	TXNIP	1.4920023	1.663743e-04
201009_s_at	TXNIP	1.2328092	1.663743e-04
244377_at	SLC1A4	1.0880295	2.042060e-04
229541_at	NA	1.6143542	2.042060e-04
209822_s_at	VLDLR	1.1350680	2.104071e-04
202934_at	HK2	-1.0377714	2.104071e-04
230795_at	NA	1.1699268	2.104071e-04
227337_at	ANKRD37	-1.1079168	2.110727e-04
218145_at	TRIB3	1.0673820	2.149263e-04
201170_s_at	BHLHE40	-1.0402130	2.549012e-04
235412_at	ARHGEF7	1.5978442	2.999663e-04
204348_s_at	AK4	-1.3491612	3.350727e-04
213931_at	NA	1.1702639	3.804126e-04
219371_s_at	KLF2	-0.9800918	3.918155e-04
203279_at	EDEM1	0.9785129	3.944123e-04
243871_at	LOC100130476	1.5055489	4.060560e-04
225957_at	CREBRF	1.2981952	4.382754e-04
200894_s_at	FKBP4	-1.0737202	5.300330e-04
218559_s_at	MAFB	1.2553755	5.305252e-04
212907_at	SLC30A1	0.9572462	5.305252e-04
229538_s_at	IQGAP3	1.0315469	5.922793e-04
201194_at	SELENOW	-0.9285463	6.167814e-04
201849_at	BNIP3	-0.9724936	6.167814e-04
201848_s_at	BNIP3	-1.0052154	6.744018e-04
235795_at	PAX6	1.0066337	6.744018e-04
217678_at	SLC7A11	1.0002602	6.787587e-04
203394_s_at	HES1	-0.9993973	7.294799e-04
219892_at	TM6SF1	1.0684116	7.475097e-04
209933_s_at	CD300A	-0.9049911	8.239876e-04
217078_s_at	CD300A	-1.0719092	8.239876e-04
230659_at	NA	0.9742286	8.892420e-04
226348_at	FUT11	-0.8976507	1.075839e-03
244042_x_at	NA	1.2501748	1.080676e-03
242388_x_at	TAGAP	0.8933876	1.116736e-03
218923_at	CTBS	0.9839137	1.116736e-03
205544_s_at	CR2	-0.8502424	1.206402e-03

1558920_at	SLC8A1-AS1	0.9839933	1.272470e-03
218280_x_at	NA	1.3495011	1.272470e-03
205047_s_at	ASNS	0.8566562	1.373571e-03
236153_at	NA	0.8615325	1.373571e-03
202847_at	PCK2	0.8839066	1.373571e-03
201212_at	LGMN	-0.8972886	1.381530e-03
1556294_at	FXYD2	1.0219109	1.381530e-03
1558212_at	NA	0.9381646	1.381530e-03
222670_s_at	MAFB	0.8314472	1.414249e-03
225944_at	NLN	-0.9317256	1.421369e-03
203504_s_at	ABCA1	-0.8211483	1.430899e-03
213746_s_at	FLNA	-0.9705676	1.430899e-03
241505_at	NA	0.9630797	1.430899e-03
200965_s_at	ABLIM1	-0.8229490	1.522219e-03
236962_at	NA	1.5966520	1.522219e-03
243495_s_at	ZNF652	1.0513033	1.522219e-03
201516_at	SRM	-0.9428084	1.627743e-03
215071_s_at	HIST1H2AC	0.9867407	1.634677e-03
214752_x_at	FLNA	-0.9018607	1.636952e-03
243368_at	NA	0.9077303	1.731300e-03
228999_at	CHD2	0.8640573	1.731300e-03
202887_s_at	DDIT4	-0.8271607	1.813467e-03
218305_at	IP04	-0.8783786	1.923264e-03
204962_s_at	NA	0.8016614	1.927646e-03
244075_at	NA	0.8555977	1.927646e-03
206864_s_at	HRK	1.0324569	1.969355e-03
201694_s_at	EGR1	1.0139617	2.046982e-03
203523_at	LSP1	-0.9360851	2.263449e-03
207165_at	HMMR	0.8078652	2.263449e-03
207543_s_at	P4HA1	-0.7783781	2.263449e-03
214183_s_at	TKTL1	-0.9290362	2.452591e-03
238407_at	NA	1.0941464	2.452591e-03
208583_x_at	HIST1H2AJ	1.1923339	2.498817e-03
202145_at	LY6E	-0.8406636	2.534145e-03
228582_x_at	MALAT1	2.3240846	2.534145e-03
238419_at	PHLDB2	0.9309473	2.585070e-03
209709_s_at	HMMR	0.7632599	2.585070e-03
240757_at	CLASP1	0.8936359	2.608927e-03
218051_s_at	NT5DC2	-1.0049990	2.851346e-03
243661_at	NA	0.8501866	2.851346e-03
236863_at	C17orf67	0.7642636	2.851346e-03
207084_at	POU3F2	0.9531994	2.851346e-03
242778_at	LPXN	1.3060679	2.851346e-03
200859_x_at	FLNA	-0.8368746	2.851346e-03
227809_at	ZC3H6	0.8791972	2.851346e-03
239307_at	MYH11	0.7837911	2.851346e-03
202472_at	MPI	-0.7831169	2.929531e-03
220359_s_at	ARPP21	0.8065310	2.929826e-03



236180_at	NA	-0.9287828	3.049302e-03
1559205_s_at	LINC02273	0.7949841	3.128383e-03
1562163_at	NA	1.5446677	3.288607e-03
230180_at	DDX17	1.9217781	3.423768e-03
228714_at	LOC101927027	0.9672255	3.686231e-03
235556_at	CREBRF	0.8258149	3.852969e-03
235868_at	MGEA5	0.7966558	3.852969e-03
219389_at	SUSD4	-0.7347418	3.852969e-03
236921_at	NA	0.7869965	3.852969e-03
223916_s_at	BCOR	1.7878196	3.978577e-03
208116_s_at	MAN1A1	-0.7931451	4.037398e-03
1567703_at	NA	1.1321529	4.037398e-03
231922_at	ZNF276	-0.9269927	4.098501e-03
231146_at	FAM24B	0.7263245	4.098501e-03
204184_s_at	GRK3	1.1416004	4.098501e-03
231781_s_at	LRRC2	0.8731029	4.098501e-03
222150_s_at	GSAP	-0.7532244	4.098501e-03
201562_s_at	SORD	-0.7343969	4.098501e-03
235124_at	EIF3J-DT	0.7375141	4.098501e-03
207539_s_at	IL4	-0.7404704	4.098501e-03
229571_at	NA	1.0629433	4.098501e-03
223062_s_at	PSAT1	0.7096560	4.098501e-03
226876_at	RFLNB	0.8836948	4.098724e-03
207147_at	DLX2	0.8346065	4.098724e-03
223195_s_at	SESN2	0.8901754	4.168194e-03
201563_at	SORD	-0.7663457	4.281959e-03
229490_s_at	NA	0.8362954	4.281959e-03
218984_at	PUS7	-0.7076878	4.281959e-03
201251_at	PKM	-0.9787897	4.328581e-03
205895_s_at	NOLC1	-0.7357033	4.328581e-03
225283_at	ARRDC4	0.8531168	4.328581e-03
1555851_s_at	SELENOW	-0.7172279	4.345782e-03
230738_at	NA	0.7471788	4.345782e-03
228834_at	TOB1	0.7715414	4.426359e-03
201797_s_at	VAR5	-0.9949212	4.426359e-03
213338_at	TMEM158	-0.7332039	4.430943e-03
243016_at	NA	0.8392242	4.480613e-03
232155_at	RNF213	-0.7235707	4.482129e-03
229332_at	HPDL	-0.7011927	4.485047e-03
201796_s_at	VAR5	-0.8541775	4.485047e-03
204730_at	RIMS3	0.7403041	4.560139e-03
222145_at	NA	0.7031160	4.565894e-03
1555363_s_at	LINC00663	0.7560319	4.565894e-03
210473_s_at	ADGRA3	-0.7010829	4.565894e-03
208937_s_at	ID1	-0.7073478	4.565894e-03
224989_at	SMIM14	1.0243579	4.666368e-03
232257_s_at	NA	0.9319393	4.696512e-03
231935_at	ARPP21	0.6921329	4.716566e-03

227943_at	NA	0.7512355	4.800183e-03
216925_s_at	TAL1	-0.7165656	4.879036e-03
202718_at	IGFBP2	-0.8181426	4.884795e-03
244808_at	GRAMD1A	-0.7183802	4.916948e-03
218589_at	LPAR6	-0.6989190	4.916948e-03
232311_at	B2M	0.9013020	4.917787e-03
236555_at	TRAF3IP2-AS1	0.6812146	4.929205e-03
227062_at	NA	0.9037554	4.996149e-03
231235_at	NKTR	1.4735894	5.034456e-03
236524_at	NA	1.2676085	5.034456e-03
226727_at	CISD3	-0.6876125	5.321229e-03
214474_at	PRKAB2	0.9210748	5.321229e-03
208079_s_at	AURKA	0.6722312	5.321229e-03
224558_s_at	MALAT1	0.9671436	5.321229e-03
219118_at	FKBP11	-0.7201117	5.321229e-03
212971_at	CARS	0.6851427	5.321229e-03
223502_s_at	TNFSF13B	0.7373747	5.321229e-03
238785_at	NA	1.0431955	5.321229e-03
235456_at	NA	0.7140335	5.330349e-03
218805_at	NA	-0.6944718	5.330349e-03
1557029_at	HMMR-AS1	0.9639293	5.330349e-03
226122_at	PLEKHG1	0.7246476	5.330349e-03
201793_x_at	SMG7	1.0485398	5.363410e-03
243118_at	CEP57L1	0.7353362	5.422209e-03
1554014_at	CHD2	0.7068128	5.475303e-03
236798_at	LINC00888	0.8784015	5.506751e-03
214359_s_at	HSP90AB1	-0.7075813	5.513886e-03
1556402_at	NA	0.6718771	5.513886e-03
241745_at	LOC100507557	0.6878364	5.513886e-03
237246_at	NA	0.7805960	5.513886e-03
204092_s_at	AURKA	0.6631158	5.534479e-03
206585_at	MKRN3	0.8172117	5.566398e-03
237469_at	TOP2A	1.0855420	5.690031e-03
214481_at	HIST1H2AM	0.8934604	5.702532e-03
224828_at	CPEB4	0.7506495	5.702532e-03
219502_at	NEIL3	0.6593751	5.824077e-03
229067_at	NA	0.7942337	5.925667e-03
235476_at	NA	1.7269018	6.224153e-03
244427_at	KIF23	0.8470331	6.224153e-03
215169_at	NA	0.9976171	6.303302e-03
209398_at	HIST1H1C	1.5392191	6.349490e-03
230543_at	USP9X	1.2310811	6.349490e-03
238356_at	DOCK11	1.2478395	6.454393e-03
238476_at	CREBRF	0.7772405	6.454393e-03
236852_at	FBX043	0.6697353	6.456278e-03
227420_at	TNFAIP8L1	0.6787221	6.479909e-03
238790_at	LOC374443	0.6869261	6.479909e-03
235589_s_at	NA	0.7135551	6.479909e-03

239002_at	ASPM	1.4733325	6.550887e-03
235577_at	ZNF652	0.9958025	6.550887e-03
1555105_a_at	MIER1	0.7728025	6.550887e-03
212477_at	ACAP2	0.8400335	6.550887e-03
237943_at	TMCC1	0.7524298	6.550887e-03
223196_s_at	SESN2	0.7548143	6.550887e-03
200737_at	PGK1	-0.6540194	6.570050e-03
210387_at	NA	0.6747424	6.610455e-03
229090_at	ZEB1-AS1	0.6629470	6.662770e-03
241866_at	SLC16A7	0.8826343	6.662770e-03
229130_at	NA	0.6689697	6.731190e-03
242916_at	CNTRL	0.8314943	6.800733e-03
210625_s_at	AKAP1	-0.6892245	6.800733e-03
203010_at	STAT5A	-0.6601592	6.800733e-03
223168_at	RHOU	-0.6380704	6.869623e-03
225647_s_at	CTSC	-0.6973730	6.928616e-03
239486_at	REL	1.4701027	6.928616e-03
220127_s_at	FBXL12	0.6622822	6.972377e-03
229723_at	TAGAP	0.7345478	6.972377e-03
226344_at	ZMAT1	0.7564456	6.972377e-03
219911_s_at	SLC04A1	-0.6485765	6.972377e-03
231003_at	SLC35B3	0.6634473	6.972377e-03
241472_at	DMXL1	0.6527746	6.972377e-03
207622_s_at	ABCF2	-0.6906726	6.972377e-03
219544_at	BORA	0.6357955	6.972377e-03
1561985_at	C14orf39	0.6660405	6.972377e-03
203867_s_at	NLE1	-0.6685042	6.972377e-03
238170_at	NA	0.7278633	6.972377e-03
227361_at	HS3ST3B1	0.7619491	6.972377e-03
205352_at	SERPINI1	0.7025730	6.972377e-03
217884_at	NAT10	-0.6597101	6.972377e-03
226808_at	ZNF862	0.6831171	6.972377e-03
226275_at	MXD1	0.6753624	6.992629e-03
210448_s_at	P2RX5	-0.6602700	6.992629e-03
217544_at	MIR3916	0.7634330	6.992629e-03
205046_at	CENPE	0.6377352	6.992629e-03
223732_at	SLC23A1	0.7065916	7.004626e-03
219250_s_at	FLRT3	0.6638810	7.029275e-03
203857_s_at	NA	-0.6594915	7.053815e-03
207892_at	CD40LG	-0.6442634	7.053815e-03
244132_x_at	ZNF518A	0.7771085	7.082631e-03
244006_at	POU2F1	0.9918674	7.082631e-03
238342_at	NA	1.3033377	7.082631e-03
213922_at	TTBK2	1.2246469	7.082631e-03
214534_at	HIST1H1B	2.7049335	7.155179e-03
205590_at	RASGRP1	0.6392171	7.182326e-03
236665_at	CCDC18	1.6753993	7.285301e-03
208553_at	HIST1H1E	2.3689993	7.317778e-03

213665_at	SOX4	-0.8388864	7.464529e-03
227068_at	PGK1	-0.6280217	7.464529e-03
1553138_a_at	ANKLE1	-0.6489092	7.484886e-03
217850_at	NA	-0.6555097	7.484886e-03
1554096_a_at	RBM33	0.7874097	7.484886e-03
240983_s_at	CARS	0.7648594	7.570265e-03
221563_at	DUSP10	0.6521028	7.570265e-03
206638_at	HTR2B	-0.6265050	7.570265e-03
233559_s_at	WDFY1	0.8545948	7.570265e-03
241444_at	NA	0.6932602	7.610648e-03
215117_at	RAG2	0.6576280	7.610648e-03
204641_at	NEK2	0.6731515	7.610648e-03
210697_at	ZNF257	0.6598435	7.610648e-03
239219_at	AURKB	0.8156447	7.610648e-03
203231_s_at	ATXN1	0.7936988	7.612658e-03
229467_at	PCBP2	0.7317115	7.638131e-03
230263_s_at	DOCK5	-0.6521355	7.681941e-03
227891_s_at	TAF15	0.8308493	7.712162e-03
219949_at	LRRC2	0.9117519	7.712162e-03
232094_at	KATNBL1	1.2314593	7.712162e-03
228643_at	RAB30-AS1	1.0116611	7.714523e-03
244335_at	NA	0.7066549	7.714523e-03
1557267_s_at	GEN1	0.8912466	7.714523e-03
211080_s_at	NEK2	0.6393430	7.714523e-03
205308_at	ZC2HC1A	0.6971081	7.719732e-03
221760_at	MAN1A1	-0.6968154	7.844556e-03
219387_at	CCDC88A	1.4602595	7.870556e-03
226181_at	TUBE1	0.6633373	7.876849e-03
230233_at	NA	0.7589003	8.207893e-03
227931_at	INO80D	0.8373364	8.207893e-03
1555436_a_at	AFF4	1.1734788	8.449897e-03
232238_at	ASPM	1.7114114	8.449897e-03
236908_at	NA	0.9657779	8.449897e-03
214290_s_at	NA	0.7965405	8.449897e-03
235383_at	MYO7B	-0.6918759	8.449897e-03
225883_at	ATG16L2	-0.6161647	8.470017e-03
241885_at	NA	1.5552233	8.546105e-03
239160_at	NA	0.9242741	8.546105e-03
223364_s_at	DHX37	-0.7036069	8.546105e-03
239788_at	NA	0.9423187	8.592737e-03
206923_at	PRKCA	-0.7018538	8.609298e-03
203828_s_at	IL32	-0.7579349	8.609298e-03
213517_at	PCBP2	1.0359115	8.633176e-03
230742_at	RBM5	1.0950464	8.633176e-03
227510_x_at	MALAT1	1.7000141	8.633176e-03
213158_at	ZBTB20	0.7930172	8.633176e-03
236268_at	SEC22C	1.0171190	8.740055e-03
236493_at	NKAPP1	0.6253195	8.792169e-03

205386_s_at	MDM2	0.8681028	8.792169e-03
236957_at	CDCA2	0.8952854	8.792169e-03
227404_s_at	EGR1	0.6811882	8.872161e-03
232095_at	NA	0.7080002	8.890617e-03
203491_s_at	CEP57	0.8925325	8.896904e-03
1555591_at	PIF1	0.7628981	8.896904e-03
241754_at	SCAI	0.9719217	8.922483e-03
232826_at	NA	0.6765366	9.002373e-03
214011_s_at	NOP16	-0.6127926	9.002373e-03
1554980_a_at	ATF3	0.6414555	9.002373e-03
64064_at	NA	-0.6016256	9.019727e-03
215175_at	PCNX1	0.7707103	9.019727e-03
229886_at	C5orf34	0.6291467	9.023624e-03
244033_at	CEP128	0.6445886	9.024380e-03
226085_at	CBX5	1.0716588	9.024380e-03
201656_at	ITGA6	0.6015441	9.024380e-03
1557813_at	NA	0.6421955	9.024380e-03
209569_x_at	NSG1	-0.6057988	9.024380e-03
206744_s_at	ZMYM5	0.7566891	9.024380e-03
213998_s_at	DDX17	1.1177577	9.100637e-03
209383_at	DDIT3	0.6302660	9.131640e-03
244502_at	NA	0.8617368	9.153540e-03
243354_at	NA	0.7398037	9.153540e-03
1556049_at	RTN4	1.1124065	9.153540e-03
243031_at	NA	0.6945105	9.153540e-03
244620_at	NA	0.6068910	9.153540e-03
212422_at	PDCD11	-0.6612868	9.153540e-03
223577_x_at	MALAT1	1.4803259	9.153540e-03
235762_at	TAS2R14	0.7112482	9.153540e-03
227082_at	ZBTB20	0.6264831	9.153540e-03
210821_x_at	CENPA	0.6035383	9.153540e-03
217140_s_at	VDAC1	-0.6001627	9.153540e-03
201487_at	CTSC	-0.5959453	9.153540e-03
208308_s_at	GPI	-0.6175011	9.160738e-03
204135_at	FILIP1L	0.6305731	9.197263e-03
217025_s_at	DBN1	-0.7229927	9.298988e-03
207728_at	ATF7IP	0.7102925	9.343681e-03
241991_at	NA	0.6294884	9.343681e-03
221589_s_at	ALDH6A1	0.7002071	9.343681e-03
243751_at	CHD2	0.8345061	9.343681e-03
214805_at	NA	-0.6114584	9.343681e-03
228646_at	PPP1R1C	0.6143170	9.343681e-03
214734_at	EXPH5	0.6798797	9.343681e-03
1557991_at	METTL6	0.6292004	9.343681e-03
233387_s_at	PCNT	1.0791983	9.343681e-03
216913_s_at	RRP12	-0.6749333	9.343681e-03
203395_s_at	HES1	-0.6190532	9.343681e-03
1552701_a_at	CARD16	-0.6565888	9.343681e-03

212664_at	TUBB4A	-0.7088486	9.361103e-03
236814_at	MDM4	0.6538300	9.485340e-03
1554264_at	CKAP2	0.6203992	9.595381e-03
205646_s_at	PAX6	0.6457059	9.641576e-03
217010_s_at	CDC25C	0.7702645	9.641576e-03
226452_at	PDK1	-0.6334220	9.641576e-03
210407_at	PPM1A	1.0759635	9.657435e-03
201551_s_at	LAMP1	-0.8244769	9.657435e-03
215339_at	NKTR	0.9022176	9.714093e-03
239682_at	KANSL1L	0.6004108	9.714093e-03
201037_at	PFKP	-0.6203411	9.821164e-03
243206_at	CEP95	1.2114182	9.925190e-03
221988_at	SMIM7	0.6438301	9.930921e-03
210976_s_at	PFKM	-0.6217110	9.945735e-03
228066_at	EPOP	-0.6634241	9.995584e-03
200064_at	HSP90AB1	-0.6011707	1.006764e-02
242343_x_at	NA	0.8474391	1.010056e-02
213915_at	NKG7	-0.8115864	1.030228e-02
201668_x_at	MARCKS	0.6861052	1.044450e-02
228998_at	TNRC6B	0.9980708	1.045516e-02
1556007_s_at	CSNK1A1	0.7910244	1.045516e-02
229367_s_at	GIMAP6	-0.6203641	1.045516e-02
226444_at	NA	0.6186377	1.045516e-02
206521_s_at	GTF2A1	1.5195409	1.045521e-02
219477_s_at	NA	0.7011341	1.047794e-02
243747_at	ZNF599	0.6736936	1.047794e-02
228620_at	LOC101927027	0.6390902	1.047794e-02
219174_at	IFT74	0.6017533	1.047794e-02
223254_s_at	G2E3	0.9067671	1.047794e-02
205483_s_at	ISG15	-0.5804304	1.049499e-02
1558142_at	TNRC6B	0.6932284	1.049655e-02
225956_at	CREBRF	0.7299190	1.049655e-02
215443_at	TSHR	0.7835944	1.049655e-02
212192_at	KCTD12	-0.6477459	1.049655e-02
232013_at	ERCC6L2	0.7411699	1.049655e-02
224601_at	NA	-0.5966711	1.049655e-02
205167_s_at	CDC25C	0.5821978	1.049655e-02
44783_s_at	HEY1	-0.6011627	1.049655e-02
212739_s_at	NME4	-0.6285068	1.049655e-02
243198_at	TEX9	0.9331517	1.062450e-02
214537_at	HIST1H1D	2.3950794	1.062450e-02
244443_at	LINC01578	0.7576408	1.063972e-02
204249_s_at	LMO2	0.6099171	1.070579e-02
233803_s_at	MYBBP1A	-0.6212245	1.076560e-02
242723_at	NA	0.7172258	1.077152e-02
1557118_a_at	INTS6-AS1	0.9021687	1.077152e-02
224583_at	COTL1	-0.6296993	1.077152e-02
1569180_at	NA	0.5844680	1.087821e-02

207574_s_at	GADD45B	0.6081704	1.097748e-02
244187_at	NA	0.7654008	1.098462e-02
218803_at	CHFR	0.5819205	1.102120e-02
226882_x_at	WDR4	-0.7248404	1.106101e-02
203023_at	NOP16	-0.6264672	1.114049e-02
1555058_a_at	LPGAT1	1.1624921	1.114049e-02
209050_s_at	RALGDS	-0.6410974	1.114049e-02
1555788_a_at	TRIB3	0.7518633	1.115185e-02
232028_at	ZNF678	0.7764397	1.115185e-02
238457_at	DGKE	0.5920165	1.121616e-02
205565_s_at	FXN	-0.6040281	1.124857e-02
213142_x_at	GSAP	-0.7579606	1.124857e-02
205787_x_at	NA	1.0669147	1.124857e-02
241569_at	NA	1.3403939	1.128761e-02
227892_at	PRKAA2	0.6130078	1.130202e-02
225779_at	SLC27A4	-0.6320345	1.130202e-02
212291_at	HIPK1	0.8290690	1.130202e-02
1554271_a_at	CENPL	0.6840978	1.130202e-02
208276_at	NA	-0.5755023	1.130202e-02
218723_s_at	RGCC	0.5929592	1.130202e-02
231272_at	MED7	0.7368323	1.130202e-02
222420_s_at	UBE2H	0.7121887	1.130202e-02
230083_at	USP53	0.6343587	1.130202e-02
1564907_s_at	NA	-0.7311524	1.130202e-02
202182_at	KAT2A	-0.5695114	1.130202e-02
203931_s_at	MRPL12	-0.6002675	1.130202e-02
238940_at	KLF12	0.9726659	1.130202e-02
232256_s_at	LINC00997	0.5856611	1.130202e-02
211360_s_at	ITPR2	1.0835677	1.130202e-02
235620_x_at	ZMYM5	0.6652258	1.130202e-02
203874_s_at	SMARCA1	-0.6845247	1.130202e-02
236641_at	KIF14	0.6294363	1.130202e-02
239891_x_at	RAB12	0.8076292	1.130202e-02
232510_s_at	DPP3	-0.6129567	1.130202e-02
228628_at	SRGAP2C	0.7474896	1.130202e-02
202715_at	CAD	-0.5789926	1.130202e-02
232291_at	NA	-0.6337424	1.130202e-02
210463_x_at	TRMT1	-0.5781542	1.130202e-02
236497_at	LOC729683	-0.6730679	1.130202e-02
202402_s_at	CARS	0.5762032	1.130202e-02
219797_at	MGAT4A	0.8294461	1.130202e-02
235905_at	ZNF704	1.0454436	1.130202e-02
206652_at	ZMYM5	0.8911779	1.130202e-02
1568955_at	NA	0.6053842	1.130202e-02
237009_at	NA	0.6463724	1.130202e-02
206686_at	PDK1	-0.6458119	1.130202e-02
242352_at	NIPBL	1.0712585	1.130202e-02
213395_at	MLC1	-0.6012847	1.132499e-02

208625_s_at	EIF4G1	-0.6433296	1.135756e-02
215442_s_at	TSHR	0.7800534	1.135756e-02
219339_s_at	EHMT1	-0.6153936	1.135756e-02
224227_s_at	BDP1	1.3359379	1.135756e-02
223172_s_at	MTFP1	-0.5778430	1.138914e-02
212563_at	NA	-0.5830800	1.139310e-02
225937_at	CUX1	1.2686609	1.142725e-02
222585_x_at	KRCC1	0.5839704	1.142993e-02
212018_s_at	RSL1D1	-0.5763141	1.142993e-02
238429_at	TMEM71	0.7058886	1.142993e-02
215629_s_at	NA	0.6193745	1.142993e-02
1568957_x_at	NA	0.6375208	1.142993e-02
1558782_a_at	NFYC-AS1	0.6761555	1.142993e-02
240314_at	NA	0.6810507	1.142993e-02
238949_at	RNF145	-0.6254781	1.142993e-02
232065_x_at	CENPL	0.6026016	1.142993e-02
214131_at	TXLNGY	0.8131321	1.150095e-02
229002_at	FAM69B	-0.5969228	1.154094e-02
1559496_at	PPA2	0.7933718	1.154942e-02
219014_at	PLAC8	-0.5767106	1.154942e-02
235850_at	FAM162A	-0.6018249	1.160806e-02
243995_at	PTAR1	1.0330722	1.168237e-02
233859_at	CEP128	1.0277764	1.168237e-02
218156_s_at	TSR1	-0.5810149	1.168237e-02
203505_at	ABCA1	-0.6823523	1.168237e-02
50314_i_at	C20orf27	-0.7023272	1.168237e-02
208328_s_at	MEF2A	1.0193537	1.169311e-02
215040_at	RNASEH2B	0.5757285	1.171861e-02
217356_s_at	PGK1	-0.5867663	1.171861e-02
214012_at	ERAP1	0.6031732	1.171861e-02
222294_s_at	RAB27A	0.5762971	1.171861e-02
229552_at	NA	0.7616185	1.173547e-02
208003_s_at	NFAT5	1.1804579	1.173547e-02
240141_at	NA	0.7048757	1.175663e-02
231719_at	TOR1AIP2	0.8909878	1.176123e-02
200895_s_at	FKBP4	-0.5716992	1.177800e-02
216360_x_at	RRP12	-0.6314969	1.178199e-02
212193_s_at	LARP1	-0.7313651	1.186739e-02
200659_s_at	PHB	-0.5699330	1.187306e-02
229399_at	CCDC186	1.0570386	1.197735e-02
238996_x_at	ALDOA	-0.5679755	1.197735e-02
235369_at	C14orf28	0.6192754	1.197735e-02
210822_at	NA	0.5848537	1.197735e-02
1568807_a_at	RBM26-AS1	0.6400704	1.197735e-02
1559893_at	GPATCH11	0.7860035	1.197735e-02
218414_s_at	NDE1	0.5832990	1.197735e-02
1560020_at	DNAJC13	1.1861599	1.197735e-02
226905_at	RFLNB	0.5725023	1.197735e-02



228249_at	C11orf74	0.7373512	1.197735e-02
201388_at	PSMD3	-0.6888340	1.197735e-02
223169_s_at	RHOU	-0.6475035	1.197735e-02
230561_s_at	KANSL1L	0.7632989	1.197735e-02
1553750_a_at	FAM76B	0.6407708	1.197735e-02
1552680_a_at	KNL1	1.2110145	1.197735e-02
1558365_at	PGK1	-0.6360511	1.197735e-02
214542_x_at	NA	0.7100492	1.197735e-02
AFFX-HUMRGE/M10098_5_at	NA	3.2171693	1.197735e-02
237464_at	NA	0.5724294	1.197735e-02
243350_at	NA	0.7458583	1.202898e-02
219910_at	FICD	0.6987047	1.202898e-02
203997_at	PTPN3	0.5604162	1.216511e-02
225662_at	MAP3K20	0.6674784	1.216511e-02
214834_at	PWAR5	0.7687555	1.216511e-02
221989_at	NA	-0.5551204	1.216511e-02
205070_at	ING3	0.5785407	1.216511e-02
207237_at	KCNA3	0.7832077	1.216729e-02
204162_at	NDC80	0.5782172	1.218113e-02
210966_x_at	LARP1	-0.6459093	1.218114e-02
207348_s_at	LIG3	-0.5704033	1.218114e-02
242787_at	NA	0.6268709	1.219150e-02
244490_at	LINC01355	0.6164379	1.219150e-02
210132_at	EFNA3	-0.6453099	1.219150e-02
228846_at	MXD1	0.5898793	1.225767e-02
211993_at	WNK1	1.4770560	1.225767e-02
1569499_at	NA	0.5983761	1.225767e-02
212038_s_at	VDAC1	-0.5561548	1.234786e-02
206500_s_at	MIS18BP1	0.9147143	1.235697e-02
216251_s_at	TTL12	-0.6662032	1.235697e-02
209247_s_at	ABCF2	-0.5791697	1.235697e-02
242134_at	NA	0.7827475	1.249546e-02
243259_at	ATXN7	0.6336004	1.249546e-02
235162_at	MDM4	0.7474762	1.252802e-02
209670_at	TRAC	0.5467231	1.252802e-02
237400_at	ATP5S	0.6549641	1.252802e-02
227267_at	POC5	0.5712586	1.258366e-02
1569190_at	SCLT1	0.5921560	1.258366e-02
218681_s_at	SDF2L1	-0.5843595	1.258366e-02
238529_at	NA	0.5749347	1.261762e-02
206708_at	FOXN2	0.8141261	1.261762e-02
230760_at	ZFY	0.6790030	1.266732e-02
239393_at	NA	1.1983390	1.282553e-02
230970_at	NA	0.8883568	1.282553e-02
214043_at	PTPRD	0.6130277	1.282553e-02
223746_at	STK4	0.8601700	1.282553e-02
213280_at	RAP1GAP2	-0.6179148	1.282553e-02
225943_at	NLN	-0.6462270	1.282553e-02

239561_at	NA	0.6785690	1.282553e-02
234192_s_at	GKAP1	0.5842871	1.282553e-02
235732_at	ZNF704	0.7877656	1.282611e-02
243757_at	NA	0.5882727	1.282611e-02
206180_x_at	ZNF747	-0.6264721	1.282611e-02
241905_at	PIK3C2A	0.5874109	1.282611e-02
213286_at	ZFR	0.7955053	1.284196e-02
217878_s_at	CDC27	0.8629507	1.288369e-02
217656_at	NA	0.7293682	1.294499e-02
1556783_a_at	NA	0.6631850	1.307573e-02
210055_at	TSHR	0.5444252	1.307573e-02
211475_s_at	BAG1	-0.5769198	1.307573e-02
226894_at	SLC35A3	0.6100511	1.314249e-02
200769_s_at	MAT2A	-0.5797920	1.314249e-02
235537_at	OCIAD1	0.6718530	1.314249e-02
1556306_at	NA	0.6059116	1.325401e-02
1566363_at	DNTT	0.5531953	1.325401e-02
223257_at	G2E3	0.5518135	1.327866e-02
229312_s_at	GKAP1	0.5888274	1.332533e-02
81737_at	LOC100505915	0.6016121	1.332533e-02
228737_at	TOX2	0.5597339	1.332533e-02
216069_at	PRMT2	0.6578365	1.332533e-02
221649_s_at	NA	-0.5652796	1.332967e-02
222874_s_at	CLN8	-0.5610041	1.334803e-02
203056_s_at	PRDM2	1.0865878	1.337987e-02
212634_at	UFL1	0.7785893	1.339674e-02
44790_s_at	RUBCNL	0.6564807	1.339674e-02
208858_s_at	ESYT1	-0.5683841	1.339674e-02
201565_s_at	ID2	0.5574828	1.339674e-02
201566_x_at	ID2	0.5667462	1.339674e-02
216870_x_at	DLEU2	0.5763947	1.339674e-02
212501_at	CEBPB	0.5484336	1.339674e-02
227755_at	ERN1	0.5541629	1.339674e-02
235766_x_at	RAB27A	0.6293620	1.339674e-02
205655_at	MDM4	0.9702732	1.339674e-02
202212_at	PES1	-0.5801271	1.339674e-02
235132_at	NIFK-AS1	0.5748481	1.340702e-02
236386_at	SUZ12P1	1.0377123	1.350767e-02
218199_s_at	NOL6	-0.5540701	1.350767e-02
200916_at	TAGLN2	-0.5578280	1.350767e-02
218500_at	THEM6	-0.5937382	1.353053e-02
209100_at	IFRD2	-0.5655186	1.353053e-02
225265_at	RBMS1	0.7125681	1.354845e-02
209336_at	PWP2	-0.5831451	1.359919e-02
230815_at	LOC389765	0.5996798	1.362083e-02
243553_x_at	TRAF3IP2-AS1	0.6146483	1.367751e-02
1557290_at	NA	0.6333454	1.368833e-02
242312_x_at	NA	0.8743928	1.368833e-02

235180_at	STYX	0.8543580	1.368833e-02
243796_at	NA	0.7255904	1.368833e-02
201014_s_at	PAICS	-0.5454209	1.368833e-02
AFFX-HUMRGE/M10098_M_at	NA	1.9508778	1.368833e-02
219978_s_at	NUSAP1	0.6630718	1.368833e-02
1559259_at	NA	0.5713936	1.368833e-02
232635_at	CEP128	0.5607942	1.368833e-02
228205_at	TKT	-0.6065466	1.368833e-02
235172_at	GABPB1-AS1	1.4000003	1.368833e-02
200923_at	LGALS3BP	-0.5682071	1.368833e-02
204472_at	GEM	0.5449119	1.368833e-02
240146_at	NA	0.7660545	1.373941e-02
222313_at	NA	0.9602688	1.373941e-02
230779_at	TNRC6B	0.8574995	1.373941e-02
1566191_at	SUZ12	0.8044568	1.377672e-02
235308_at	ZBTB20	0.5923957	1.386294e-02
235425_at	SGO2	0.6380296	1.386556e-02
1554966_a_at	FILIP1L	0.7694543	1.389011e-02
205898_at	CX3CR1	-0.6454776	1.390232e-02
1557910_at	HSP90AB1	-0.5817536	1.395790e-02
243589_at	KANSL1	0.7007983	1.403749e-02
234759_at	LOC100287497	0.6678205	1.403749e-02
239434_at	FGFR10P	0.5658738	1.403749e-02
201850_at	CAPG	-0.5781559	1.410171e-02
224563_at	WASF2	1.1482738	1.410171e-02
217550_at	ATF6	0.8381027	1.410171e-02
222787_s_at	TMEM106B	1.0160237	1.410171e-02
218521_s_at	UBE2W	0.9291247	1.410866e-02
231008_at	UNC5CL	0.5782014	1.414336e-02
228792_at	MYEF2	0.6749333	1.415357e-02
232953_at	LINC00266-1	0.6482261	1.415357e-02
38037_at	HBEGF	0.5662397	1.416229e-02
244024_at	ZNF182	0.6280236	1.424573e-02
228986_at	OSBPL8	1.1631172	1.424573e-02
213503_x_at	ANXA2	-0.5927182	1.424573e-02
206663_at	SP4	1.2074559	1.446193e-02
227101_at	ZNF800	0.9689085	1.447311e-02
1569864_at	SERAC1	0.6013078	1.449577e-02
238831_at	TMEM33	1.0217012	1.464492e-02
220159_at	ABCA11P	0.5916349	1.471311e-02
204285_s_at	PMAIP1	0.6018626	1.472855e-02
221985_at	KLHL24	0.9209531	1.472855e-02
212810_s_at	SLC1A4	0.5341970	1.477400e-02
235653_s_at	THAP6	0.6913345	1.494422e-02
232615_at	NA	0.5474426	1.495852e-02
222880_at	AKT3	0.8461176	1.519924e-02
226404_at	RBM39	0.7816117	1.519924e-02
203796_s_at	BCL7A	0.8629382	1.519924e-02

203387_s_at	TBC1D4	-0.5356540	1.519924e-02
238551_at	FUT11	-0.6499275	1.519924e-02
1556188_a_at	ZNF555	0.5851367	1.519924e-02
238430_x_at	SLFN5	0.6191611	1.519924e-02
230651_at	NA	0.7555665	1.519924e-02
35974_at	LRMP	0.5328035	1.519924e-02
235059_at	RAB12	0.9943624	1.519924e-02
203201_at	PMM2	-0.5786458	1.519924e-02
218478_s_at	ZCCHC8	0.5600301	1.525960e-02
236237_at	NA	0.6272392	1.529861e-02
223742_at	MRPL4	-0.5427680	1.531583e-02
228638_at	FAM76A	0.6094984	1.539335e-02
204909_at	DDX6	1.1668594	1.539441e-02
224603_at	NA	-0.6631113	1.545145e-02
242938_s_at	FOXK2	-0.5550919	1.552540e-02
214773_x_at	TIPRL	0.7951423	1.555720e-02
AFFX-HUMRGE/M10098_3_at	NA	1.3328710	1.558363e-02
209936_at	RBM5	0.5330303	1.558363e-02
242555_at	C16orf87	0.9595096	1.560066e-02
201391_at	TRAP1	-0.5406096	1.563178e-02
212384_at	NA	0.8727542	1.565402e-02
208576_s_at	HIST1H3B	0.6339508	1.575499e-02
223505_s_at	DNAJC27	0.6383645	1.578741e-02
239861_at	NA	0.6053874	1.583333e-02
203821_at	HBEGF	0.6067747	1.583333e-02
204732_s_at	TRIM23	0.7063818	1.583333e-02
1552315_at	GIMAP1	-0.5275645	1.583333e-02
228453_at	EPG5	0.6052671	1.583333e-02
210803_at	TXNRD2	-0.6526393	1.590692e-02
1558080_s_at	DNAJC3	1.0450506	1.590692e-02
213533_at	NSG1	-0.5522279	1.590692e-02
228275_at	LINC00888	0.5978090	1.590692e-02
231419_at	NA	0.5237033	1.590692e-02
224568_x_at	MALAT1	1.4527212	1.590692e-02
1564691_at	LOC100128594	0.5789287	1.595567e-02
205807_s_at	TUFT1	0.5869453	1.595567e-02
203119_at	CCDC86	-0.5650631	1.595567e-02
242088_at	KLHL24	0.6617731	1.600685e-02
229146_at	C7orf31	0.5331064	1.600685e-02
225452_at	MED1	0.6854278	1.600685e-02
1560156_at	NA	0.5966266	1.600685e-02
214232_at	ABCF2	-0.6306578	1.600685e-02
222587_s_at	GALNT7	0.6244104	1.600685e-02
1558678_s_at	MALAT1	0.9498661	1.600685e-02
204674_at	LRMP	0.5261070	1.600685e-02
238939_at	ADD1	0.7843466	1.600685e-02
230522_s_at	ARHGEF39	0.5979371	1.606462e-02
218670_at	PUS1	-0.5563790	1.606544e-02

230075_at	RAB39B	0.5742794	1.606544e-02
241685_x_at	PURA	0.6997760	1.606544e-02
219154_at	TMEM120B	-0.5828493	1.612268e-02
213480_at	VAMP4	0.5417146	1.612268e-02
225300_at	KNSTRN	0.5259086	1.612268e-02
242408_at	STYX	1.1234179	1.612268e-02
213281_at	JUN	0.8490223	1.614956e-02
228312_at	PI16	-0.5749414	1.623857e-02
226675_s_at	MALAT1	0.7435267	1.623857e-02
235736_at	SMKR1	-0.6030668	1.623857e-02
227740_at	UHMK1	1.2303041	1.629517e-02
240572_s_at	LOC374443	0.6388509	1.635780e-02
239078_at	BROX	0.8189707	1.636459e-02
201331_s_at	STAT6	-0.5463856	1.636459e-02
206653_at	POLR3G	-0.5461207	1.638125e-02
202264_s_at	TOMM40	-0.5303490	1.638460e-02
207520_at	TROVE2	0.6854319	1.638460e-02
241816_at	NA	0.5624967	1.638460e-02
226565_at	TMEM99	0.5405118	1.639063e-02
221765_at	UGCG	0.9444570	1.648343e-02
206562_s_at	CSNK1A1	0.6956678	1.648343e-02
229010_at	CBL	0.8834418	1.653399e-02
204331_s_at	MRPS12	-0.5356898	1.653399e-02
235783_at	MRT04	-0.6292028	1.653399e-02
1556474_a_at	LOC285097	0.5625250	1.655224e-02
211000_s_at	IL6ST	0.8607941	1.655224e-02
1560912_at	LINC01120	-0.5837116	1.663930e-02
209911_x_at	HIST1H2BD	0.5179576	1.664307e-02
203921_at	CHST2	-0.5317302	1.664307e-02
218924_s_at	CTBS	0.5678844	1.664307e-02
239248_at	SDCBP2-AS1	0.5714971	1.664307e-02
235023_at	VPS13C	0.7098853	1.664307e-02
210978_s_at	TAGLN2	-0.5682518	1.664307e-02
201560_at	CLIC4	0.5208142	1.664307e-02
237234_at	CYTH2	0.9618568	1.664307e-02
1558305_at	GIGYF2	0.5215606	1.664307e-02
238483_at	SSBP2	0.5407195	1.666022e-02
231238_at	NA	0.6249327	1.666022e-02
1558483_at	LRRC27	-0.5774031	1.666022e-02
211794_at	FYB1	0.6026021	1.668361e-02
231576_at	NA	0.5656067	1.668361e-02
238580_at	NA	0.7676535	1.668361e-02
235588_at	ESCO2	0.8758795	1.668361e-02
213593_s_at	TRA2A	0.8055780	1.668361e-02
201282_at	OGDH	-0.6157681	1.668361e-02
229810_at	RSPH3	0.5354116	1.673570e-02
231793_s_at	CAMK2D	1.0790185	1.673570e-02
229072_at	RAB30	0.5212763	1.682378e-02

241403_at	CLK4	1.3132117	1.690871e-02
239049_at	CRIP1	0.6160890	1.690871e-02
227720_at	ANKRD13B	-0.7542921	1.695294e-02
238341_at	NA	1.1954705	1.701102e-02
212252_at	CAMKK2	-0.5682111	1.702184e-02
201674_s_at	AKAP1	-0.5188327	1.702184e-02
236224_at	RIT1	0.5370712	1.702184e-02
230060_at	CDCA7	0.8131871	1.702184e-02
200827_at	PLOD1	-0.6628686	1.710411e-02
230782_at	SORD	-0.5478381	1.716680e-02
203784_s_at	DDX28	-0.5449876	1.721591e-02
203612_at	BYSL	-0.5175317	1.721591e-02
203845_at	KAT2B	0.5193800	1.721591e-02
242829_x_at	NA	0.7400848	1.721591e-02
223055_s_at	XP05	-0.5194655	1.721591e-02
212432_at	GRPEL1	-0.5126284	1.721591e-02
204514_at	DPH2	-0.5190319	1.721591e-02
202871_at	TRAF4	-0.6778477	1.721591e-02
240044_x_at	TNRC6B	0.6051338	1.721591e-02
239571_at	NA	0.6224479	1.722542e-02
239471_at	LRRC28	0.5144728	1.735245e-02
242835_s_at	LOC728730	0.5136103	1.738022e-02
210282_at	ZMYM2	1.1559479	1.738022e-02
204315_s_at	GTSE1	0.6911494	1.738022e-02
210658_s_at	GGA2	-0.5556796	1.738022e-02
1552641_s_at	NA	-0.5964023	1.738022e-02
217966_s_at	FAM129A	0.7305094	1.738022e-02
209196_at	WDR46	-0.5362587	1.738022e-02
214723_x_at	ANKRD36	1.0283983	1.741356e-02
1558546_at	DNASE1	0.5563599	1.741356e-02
211795_s_at	FYB1	0.5170992	1.741964e-02
243899_at	NA	0.6041981	1.741964e-02
232398_at	CCDC150	0.5779150	1.741964e-02
239926_at	NA	0.6409073	1.743997e-02
1552257_a_at	TTL12	-0.6082197	1.751131e-02
215887_at	ZNF277	0.6445609	1.751131e-02
221705_s_at	SIKE1	0.9139873	1.753216e-02
204759_at	RCBTB2	-0.5144750	1.753306e-02
221987_s_at	TSR1	-0.5164660	1.753306e-02
206038_s_at	NR2C2	0.8526406	1.753306e-02
205848_at	GAS2	0.6749123	1.758743e-02
206283_s_at	TAL1	-0.5081815	1.760341e-02
211769_x_at	SERINC3	0.5719431	1.774449e-02
216361_s_at	KAT6A	1.5721618	1.778634e-02
235660_at	NA	0.8264597	1.783465e-02
225864_at	FAM84B	0.5427795	1.785130e-02
215923_s_at	PSD4	-0.6717566	1.798000e-02
218518_at	FAM13B	0.5606490	1.799089e-02

236260_at	NA	0.5411121	1.799089e-02
229261_at	NA	0.5965701	1.815535e-02
1555832_s_at	KLF6	0.5309771	1.823890e-02
212535_at	NA	0.5151635	1.824492e-02
231862_at	CBX5	1.0203405	1.824492e-02
206659_at	NA	-0.5556872	1.827570e-02
220688_s_at	MRT04	-0.5391714	1.829579e-02
221213_s_at	NA	0.5538940	1.836264e-02
212013_at	PXDN	-0.6333205	1.836389e-02
219098_at	MYBBP1A	-0.5091165	1.844636e-02
224559_at	MALAT1	0.7352893	1.844636e-02
228323_at	KNL1	0.5050354	1.844716e-02
1562550_at	NA	0.7703282	1.859962e-02
204513_s_at	ELMO1	-0.5315577	1.862798e-02
1558345_a_at	NA	0.6235093	1.867152e-02
227148_at	PLEKHH2	0.6788693	1.868734e-02
244482_at	NA	0.7499304	1.873635e-02
1568983_a_at	GABPB1-AS1	0.5151974	1.874537e-02
230164_at	ZNF621	0.7309086	1.874537e-02
202431_s_at	MYC	-0.5357831	1.876425e-02
222101_s_at	DCHS1	-0.6109262	1.876425e-02
214522_x_at	NA	0.9785682	1.876425e-02
238687_x_at	ZNF770	0.9942434	1.876425e-02
222540_s_at	RSF1	0.8656521	1.882184e-02
221861_at	ARRB1	-0.5568601	1.882184e-02
229196_at	FAM111A	0.7801959	1.882184e-02
220892_s_at	PSAT1	0.5562932	1.882184e-02
244519_at	ASXL1	0.5687131	1.885748e-02
231012_at	SLC35G1	0.5873666	1.888958e-02
219717_at	DCAF16	0.9819867	1.889144e-02
1554447_at	JPX	0.7321765	1.889284e-02
239265_at	SLC35G1	0.5408076	1.889284e-02
223743_s_at	MRPL4	-0.5750962	1.889284e-02
232497_at	ZNF3	-0.6182320	1.903205e-02
209504_s_at	PLEKHB1	-0.6557400	1.903742e-02
212451_at	SECISBP2L	0.7513056	1.904907e-02
217609_at	NA	0.7164579	1.904907e-02
227454_at	TAOK1	0.8362106	1.909083e-02
238350_at	UBN2	1.2047406	1.914790e-02
201590_x_at	ANXA2	-0.6354037	1.914790e-02
221052_at	TDRKH	0.5901255	1.915197e-02
202549_at	VAPB	1.1130663	1.915197e-02
218747_s_at	TAPBPL	-0.5379003	1.915197e-02
235280_at	POLR1A	-0.5487574	1.915764e-02
219532_at	ELOVL4	0.5174818	1.915764e-02
210427_x_at	ANXA2	-0.5037510	1.921722e-02
1553717_at	NA	0.5006290	1.923151e-02
232283_at	LYSMD1	0.5477990	1.927944e-02

236390_at	SLX4IP	0.9172458	1.929342e-02
226558_at	NA	0.5011550	1.929547e-02
239019_at	KLF12	1.0771751	1.932459e-02
204203_at	CEBPG	0.5524284	1.932459e-02
238946_at	NA	0.5876434	1.932459e-02
223620_at	GPR34	-0.6551204	1.932459e-02
201761_at	MTHFD2	0.5028933	1.932459e-02
218746_at	TAPBPL	-0.5820138	1.932459e-02
200906_s_at	PALLD	0.6046188	1.932459e-02
213311_s_at	TCF25	0.6981908	1.932459e-02
200800_s_at	NA	-0.6002505	1.956781e-02
201378_s_at	UBAP2L	-0.5401814	1.959195e-02
242176_at	MEF2A	0.5557875	1.959195e-02
225767_at	NA	0.5958485	1.961083e-02
204649_at	TROAP	0.5297576	1.961083e-02
201695_s_at	PNP	-0.5141479	1.966020e-02
222214_at	NA	0.6172328	1.968616e-02
201896_s_at	PSRC1	0.5834408	1.984896e-02
224807_at	GRAMD1A	-0.5547393	1.985351e-02
213747_at	AZIN1	0.5920496	1.986256e-02
1560396_at	KLHL6	0.6588354	1.990559e-02
1557215_at	LINC00648	0.5940496	1.995985e-02
1559535_s_at	LOC100996419	0.5089914	1.995985e-02
220321_s_at	CCDC121	0.5059066	1.995985e-02
230187_s_at	LOC102724851	0.5500734	1.995985e-02
224175_s_at	NA	-0.6229809	1.995985e-02
224002_s_at	FKBP7	-0.4986945	1.999204e-02
212019_at	RSL1D1	-0.5138090	1.999204e-02
236321_at	FAM200B	0.5069303	1.999204e-02
228556_at	YTHDC1	0.9489645	1.999204e-02
219253_at	TMEM185B	-0.5052772	1.999204e-02
229236_s_at	SFXN4	-0.5020871	1.999204e-02
232351_at	NA	0.5078935	1.999204e-02
211501_s_at	EIF3B	-0.5019499	1.999204e-02
224567_x_at	MALAT1	0.7087260	1.999204e-02
1557809_a_at	NA	0.6023707	1.999204e-02
206654_s_at	POLR3G	-0.5635291	1.999204e-02
212758_s_at	ZEB1	0.7596842	1.999204e-02
233329_s_at	KRCC1	0.5018338	1.999204e-02
243963_at	NA	0.6616730	1.999204e-02
235266_at	ATAD2	0.9036476	2.002280e-02
239793_at	NA	0.5812687	2.002280e-02
228334_x_at	CEP44	0.5193490	2.002280e-02
234952_s_at	PHRF1	-0.5101954	2.004000e-02
33148_at	ZFR	0.8905105	2.009472e-02
209151_x_at	TCF3	-0.7297760	2.018461e-02
210057_at	NA	0.9344863	2.019274e-02
201580_s_at	TMX4	0.5232536	2.019274e-02



220085_at	HELLS	0.7852439	2.032861e-02
203991_s_at	KDM6A	0.6235544	2.036727e-02
1559575_a_at	NA	0.5149677	2.051713e-02
225475_at	MIER1	0.4890974	2.052711e-02
201420_s_at	WDR77	-0.4946797	2.052711e-02
230270_at	PRPF38B	0.6383798	2.058874e-02
224831_at	CPEB4	0.5091221	2.058874e-02
213957_s_at	CEP350	0.6609320	2.067448e-02
227259_at	CD47	0.7701163	2.070621e-02
212279_at	TMEM97	-0.5147981	2.074612e-02
209776_s_at	SLC19A1	-0.6123470	2.076601e-02
1569189_at	TTC9C	0.6135444	2.076601e-02
230200_at	NSUN6	0.6318632	2.081468e-02
202384_s_at	TCOF1	-0.5873641	2.085975e-02
227687_at	HYLS1	0.4916287	2.087214e-02
206468_s_at	METTL13	-0.5299090	2.087214e-02
225834_at	NA	0.4892623	2.109785e-02
204774_at	EVI2A	0.4972188	2.111593e-02
208615_s_at	PTP4A2	0.5854150	2.111593e-02
220885_s_at	CENPJ	0.5894289	2.113053e-02
225305_at	SLC25A29	-0.5646852	2.113053e-02
212650_at	EHBP1	0.7641754	2.119563e-02
201491_at	AHSA1	-0.4854665	2.128022e-02
223940_x_at	MALAT1	1.2874047	2.129826e-02
236613_at	RBM25	0.7952576	2.129826e-02
222376_at	NA	0.6095529	2.136901e-02
212651_at	RHOBTB1	-0.5033597	2.152355e-02
202806_at	DBN1	-0.4994546	2.152355e-02
231944_at	ER01B	0.4880263	2.152355e-02
236808_at	FGFR10P2	0.5152484	2.164037e-02
210172_at	SF1	1.1946641	2.171182e-02
232150_at	NA	0.5780376	2.171182e-02
242786_at	SBF2-AS1	0.5614558	2.173723e-02
235216_at	ESCO1	0.9352226	2.178743e-02
205187_at	SMAD5	0.7865698	2.185120e-02
224875_at	C5orf24	0.5981412	2.185120e-02
211690_at	RPS6	0.5358073	2.199312e-02
232940_s_at	KMT2C	1.2105000	2.199312e-02
1554317_s_at	TRMT61A	-0.5151369	2.199312e-02
232284_at	NA	0.6450357	2.202138e-02
211450_s_at	MSH6	-0.5229286	2.205443e-02
1554466_a_at	METTL26	-0.5317591	2.205443e-02
207826_s_at	ID3	-0.4897404	2.205443e-02
242701_at	TBRG1	0.7294412	2.205443e-02
218994_s_at	STAG3L4	0.5870050	2.207360e-02
1553106_at	C5orf24	1.0087042	2.207360e-02
214196_s_at	TPP1	-0.6022383	2.208122e-02
223018_at	NOB1	-0.5367332	2.227032e-02

235341_at	DNAJC3	0.8272896	2.227261e-02
1552770_s_at	ZNF563	0.5065053	2.235378e-02
207286_at	CEP135	0.5912655	2.235408e-02
1557236_at	APOL6	0.7650076	2.236464e-02
215948_x_at	ZMYM5	0.5641766	2.240215e-02
240168_at	XP07	0.8785649	2.240215e-02
206445_s_at	PRMT1	-0.5055003	2.240215e-02
232489_at	TRMT13	1.1769324	2.240215e-02
206099_at	PRKCH	-0.4886735	2.247223e-02
219754_at	RBM41	0.5778665	2.258544e-02
235547_at	N4BP2L2	0.6240386	2.268463e-02
209246_at	ABCF2	-0.5200816	2.268463e-02
225740_x_at	MDM4	0.4935998	2.268902e-02
226346_at	MEX3A	-0.5113349	2.273422e-02
211391_s_at	PATZ1	-0.5353999	2.273422e-02
230028_at	KHDC4	0.5918396	2.273422e-02
222562_s_at	TNKS2	0.5822043	2.277762e-02
1559044_at	EXOSC1	0.9362996	2.277762e-02
242752_at	PPM1K	0.9045564	2.277762e-02
221830_at	RAP2A	0.5629148	2.277762e-02
1557756_a_at	CEP128	0.6876901	2.282844e-02
231566_at	NOXRED1	-0.5630028	2.293386e-02
244433_at	NA	0.6667176	2.307515e-02
208917_x_at	NADK	-0.5383233	2.309833e-02
226216_at	INSR	0.6054180	2.309833e-02
1555785_a_at	XRN1	0.7047217	2.309833e-02
242024_at	NA	0.5210098	2.309833e-02
232632_at	NA	0.7175852	2.321702e-02
212891_s_at	GADD45GIP1	-0.4883031	2.325946e-02
200999_s_at	CKAP4	-0.5630333	2.325946e-02
216981_x_at	SPN	-0.5346582	2.327779e-02
235579_at	SCAF11	0.4963717	2.327779e-02
243233_at	NA	0.6414058	2.328335e-02
218120_s_at	HMOX2	-0.5082367	2.328335e-02
1560017_at	TMTC3	0.7002507	2.328335e-02
233573_s_at	WDR6	-0.8440808	2.336583e-02
214472_at	NA	0.6882506	2.336583e-02
217734_s_at	WDR6	-0.5261627	2.336931e-02
217932_at	MRPS7	-0.4863367	2.337430e-02
230389_at	FNBP1	0.5427412	2.337430e-02
210487_at	DNTT	0.4781999	2.337430e-02
222671_s_at	JMJD4	-0.5043043	2.337825e-02
221905_at	CYLD	0.7957185	2.339741e-02
222778_s_at	NSD2	0.5053140	2.340186e-02
201490_s_at	PPIF	-0.5163762	2.340186e-02
238860_at	OARD1	0.4962043	2.346526e-02
204950_at	CARD8	0.4883144	2.348911e-02
1563947_a_at	ERC1	1.1270237	2.353968e-02

236293_at	RHOH	0.8500409	2.354731e-02
1565889_at	NA	0.5588500	2.361134e-02
229574_at	TRA2A	0.5383046	2.370472e-02
243781_at	NA	0.5684147	2.371119e-02
244749_at	FAM111A-DT	0.5530002	2.371119e-02
235003_at	UHMK1	1.0639894	2.372516e-02
244125_at	NA	1.0815201	2.372516e-02
209258_s_at	SMC3	0.8689647	2.382785e-02
1562053_at	LOC101930370	0.5668804	2.387426e-02
211902_x_at	YME1L1	0.4764041	2.389396e-02
209037_s_at	EHD1	-0.5532694	2.389396e-02
243038_at	RBM43	0.5634503	2.391260e-02
229604_at	CMAHP	0.5291090	2.393055e-02
230085_at	PDK3	1.0432305	2.395069e-02
218279_s_at	HIST2H2AA3	0.6917872	2.395069e-02
227438_at	ALPK1	0.5841314	2.396046e-02
232964_at	NA	0.7542137	2.396465e-02
242918_at	NASP	0.8771174	2.399889e-02
209567_at	RRS1	-0.4806248	2.399889e-02
216602_s_at	FARSA	-0.5373139	2.399889e-02
231204_at	ZGRF1	0.7577494	2.399889e-02
223057_s_at	XP05	-0.5568183	2.399889e-02
226365_at	NA	0.6125643	2.399889e-02
1558924_s_at	CLIP1	1.1534382	2.399889e-02
220969_s_at	NA	0.5505187	2.399889e-02
209671_x_at	NA	0.4802584	2.399889e-02
234402_at	YME1L1	0.5124491	2.399889e-02
208962_s_at	NA	-0.5162417	2.399889e-02
222774_s_at	NETO2	-0.4774205	2.405488e-02
208370_s_at	RCAN1	0.4785959	2.405488e-02
204027_s_at	METTL1	-0.4806894	2.407030e-02
214684_at	MEF2A	0.5638613	2.412244e-02
201231_s_at	ENO1	-0.4735755	2.414899e-02
229618_at	SNX16	0.4714334	2.418024e-02
224784_at	MLLT6	-0.5486639	2.418024e-02
235152_at	FAM111A-DT	0.4871896	2.427387e-02
201767_s_at	ELAC2	-0.5013490	2.427387e-02
225682_s_at	POLR3H	-0.5239633	2.427387e-02
1566518_at	NA	0.5902124	2.427387e-02
204827_s_at	CCNF	0.7301774	2.432733e-02
239027_at	DOCK8	1.2809393	2.434643e-02
208915_s_at	GGA2	-0.5163000	2.434643e-02
216856_s_at	DLEU2	0.5550168	2.434643e-02
240859_at	ZFYVE16	0.5569207	2.437869e-02
217139_at	VDAC1	-0.5535893	2.446465e-02
201602_s_at	PPP1R12A	0.7249742	2.446465e-02
239670_at	WNK2	-0.5789192	2.446650e-02
230831_at	FRMD5	0.5598840	2.446650e-02

1558747_at	SMCHD1	1.1366424	2.446650e-02
230589_at	TRAF3IP2-AS1	0.4918811	2.446650e-02
203737_s_at	PPRC1	-0.4979828	2.446650e-02
221986_s_at	KLHL24	0.9794926	2.456477e-02
236023_at	CDK9	0.7662104	2.467470e-02
1565867_a_at	NA	1.1539647	2.471518e-02
202912_at	ADM	-0.5706761	2.478659e-02
205130_at	MOK	0.4869966	2.480481e-02
207555_s_at	TBXA2R	-0.5123653	2.480481e-02
226783_at	PHYKPL	0.5230893	2.480481e-02
209215_at	MFSD10	-0.4985676	2.480481e-02
207063_at	TTY14	0.5945909	2.480481e-02
201489_at	PPIF	-0.4728951	2.484732e-02
210613_s_at	SYNGR1	-0.5560259	2.484732e-02
1553677_a_at	TIPRL	0.6829906	2.484732e-02
222269_at	APOOL	0.7099853	2.485952e-02
211941_s_at	PEBP1	-0.5061097	2.491779e-02
1568680_s_at	YTHDC2	0.9316442	2.491779e-02
1552474_a_at	GAMT	-0.5283664	2.493800e-02
223815_at	CEP95	0.5836035	2.493800e-02
1557828_a_at	TMEM267	0.4996933	2.500630e-02
223666_at	SNX5	-0.4715657	2.503856e-02
212693_at	MDN1	-0.4694334	2.503856e-02
217104_at	ST20	0.5444817	2.509407e-02
230733_at	NA	0.5052610	2.509407e-02
239410_at	HK2	-0.6949498	2.509407e-02
232637_at	SEPT2	0.5451291	2.509407e-02
230292_at	NA	-0.4759111	2.509407e-02
231860_at	BRWD1	0.7981953	2.510079e-02
209446_s_at	NA	-0.5907628	2.510291e-02
217951_s_at	PHF3	1.1549740	2.511879e-02
1566557_at	BAIAP2-DT	-0.5132466	2.514610e-02
235217_at	LINC01004	0.5378569	2.521757e-02
1558504_at	GTF2IP12	0.5047734	2.521757e-02
1552727_s_at	ADAMTS17	0.4926486	2.521757e-02
226999_at	RNPC3	0.5976679	2.521757e-02
204438_at	MRC1	0.4810035	2.524303e-02
235816_s_at	RGL4	-0.5118596	2.530450e-02
219793_at	SNX16	0.5974543	2.530549e-02
213015_at	BBX	0.5613630	2.530549e-02
1563130_a_at	NA	0.8060306	2.536863e-02
217552_x_at	CR1	-0.5943003	2.536863e-02
229949_at	NA	0.5154249	2.541250e-02
224365_s_at	TIGD7	0.4859218	2.550089e-02
201998_at	ST6GAL1	-0.4723309	2.550089e-02
217294_s_at	ENO1	-0.5041678	2.550089e-02
201127_s_at	ACLY	-0.4965993	2.551758e-02
208361_s_at	POLR3D	-0.4804463	2.551758e-02

1564274_at	C9orf47	0.5596462	2.564053e-02
242467_at	NA	0.6978728	2.564454e-02
216733_s_at	GATM	-0.5311526	2.567015e-02
220609_at	LOC202181	0.6925020	2.570409e-02
242431_at	NA	0.7962852	2.572907e-02
201369_s_at	ZFP36L2	-0.5449003	2.572907e-02
210537_s_at	TADA2A	0.5706304	2.578529e-02
204286_s_at	PMAIP1	0.4659734	2.595719e-02
235030_at	NXPE3	0.6290095	2.598249e-02
224634_at	GPATCH4	-0.4968126	2.601580e-02
1553652_a_at	C18orf54	0.6911430	2.601645e-02
226153_s_at	CNOT6L	0.4920512	2.601645e-02
226838_at	TTC32	0.4850272	2.601645e-02
218430_s_at	RFX7	0.7294950	2.601645e-02
236766_at	NA	0.5372853	2.601645e-02
1552370_at	C4orf33	0.4946610	2.601645e-02
230681_at	TBRG1	0.5762796	2.601645e-02
219658_at	PTCD2	0.6282695	2.601645e-02
218532_s_at	RETREG1	0.4877183	2.601645e-02
236487_at	SCLT1	0.5366450	2.602513e-02
238799_at	ATP5S	0.4916334	2.602513e-02
235575_at	NA	0.8096751	2.602513e-02
224726_at	MIB1	0.7052239	2.602513e-02
222771_s_at	MYEF2	0.5006939	2.602513e-02
214874_at	PKP4	0.5497822	2.602513e-02
210201_x_at	BIN1	-0.4881889	2.602513e-02
226368_at	CHST11	0.5101404	2.604785e-02
239892_at	NA	0.5188051	2.604785e-02
221425_s_at	ISCA1	-0.5111556	2.610632e-02
222554_s_at	NOL6	-0.5526873	2.610781e-02
201577_at	NME1	-0.4665613	2.610781e-02
215996_at	GNAI2	0.5026345	2.610781e-02
221740_x_at	LRRC37A2	0.5064938	2.613744e-02
206571_s_at	MAP4K4	-0.4708586	2.616447e-02
225143_at	SFXN4	-0.4621261	2.616447e-02
229966_at	EWSR1	0.7851242	2.616642e-02
223032_x_at	PRELID1	-0.4791726	2.618248e-02
1555427_s_at	SYNCRIP	-0.5186148	2.620450e-02
243332_at	NA	0.7871580	2.620450e-02
218567_x_at	DPP3	-0.5194515	2.620450e-02
235645_at	ESCO1	0.7733002	2.650696e-02
212421_at	KIAA0930	-0.5506454	2.670080e-02
235730_at	NUTM2B-AS1	0.7287105	2.670080e-02
202073_at	OPTN	0.6292685	2.675850e-02
223111_x_at	ARID4B	0.6462963	2.675850e-02
201025_at	EIF5B	-0.4771832	2.675850e-02
213302_at	PFAS	-0.4748575	2.684662e-02
232023_at	TMEM67	0.5465682	2.684662e-02

228291_s_at	KIZ	0.5092794	2.684662e-02
1487_at	ESRRA	-0.5188711	2.684662e-02
227512_at	MEX3A	-0.4972563	2.688929e-02
202074_s_at	OPTN	0.4923583	2.695053e-02
217099_s_at	GEMIN4	-0.4905741	2.699150e-02
218755_at	KIF20A	0.4605370	2.700604e-02
204061_at	PRKX	-0.4802160	2.707872e-02
237187_at	HRK	0.4991890	2.716333e-02
213011_s_at	TPI1	-0.4767918	2.716333e-02
209996_x_at	PCM1	1.2143112	2.716333e-02
237215_s_at	TFRC	-0.5368322	2.716333e-02
1559161_at	NA	0.5533664	2.724972e-02
226650_at	ZFAND2A	0.4797790	2.724972e-02
209754_s_at	TMPO	0.8512285	2.724972e-02
201937_s_at	DNPEP	-0.5171292	2.724972e-02
201340_s_at	ENC1	1.0142191	2.726548e-02
241393_at	IPP	0.6661329	2.727355e-02
235727_at	KLHL28	0.5163666	2.734003e-02
214274_s_at	ACAA1	-0.4613420	2.740629e-02
1555408_at	NA	0.8855489	2.741191e-02
214439_x_at	BIN1	-0.6401366	2.741191e-02
205809_s_at	WASL	1.0225749	2.749125e-02
207046_at	NA	0.5477374	2.749125e-02
206855_s_at	HYAL2	-0.4973919	2.749125e-02
201389_at	ITGA5	-0.5318400	2.749125e-02
201136_at	PLP2	0.4782100	2.754147e-02
225698_at	EPB41L4A-AS1	0.4704782	2.762935e-02
212456_at	CLUH	-0.4747689	2.764038e-02
225473_at	SOGA1	-0.4980534	2.764038e-02
241755_at	UQCRC2	0.8877852	2.764038e-02
1559485_at	ATG2B	0.7186034	2.767375e-02
236026_at	GPATCH2	0.4733408	2.770273e-02
244766_at	NA	0.5839538	2.770273e-02
219083_at	SHQ1	-0.4589420	2.771507e-02
213956_at	CEP350	0.6340489	2.782422e-02
210334_x_at	BIRC5	0.4606398	2.785595e-02
220710_at	ANP32A-IT1	-0.4720932	2.785595e-02
221922_at	GPSM2	0.4567142	2.785595e-02
221683_s_at	CEP290	0.8498546	2.785595e-02
201156_s_at	RAB5C	-0.5243240	2.785595e-02
243092_at	PAN3-AS1	0.4863256	2.785595e-02
231735_s_at	MALAT1	1.0384822	2.785595e-02
205527_s_at	GEMIN4	-0.4571546	2.785595e-02
209051_s_at	RALGDS	-0.6559911	2.785595e-02
201118_at	PGD	-0.5098141	2.785595e-02
242639_at	ICE2	0.4814776	2.785595e-02
244020_at	NA	0.5312925	2.785595e-02
1555905_a_at	TCAIM	0.6352439	2.787899e-02

238484_s_at	SSBP2	0.5024732	2.787899e-02
204318_s_at	GTSE1	0.4969092	2.797251e-02
204169_at	IMPDH1	-0.4607572	2.797251e-02
223780_s_at	MED13	0.6775504	2.797945e-02
1560926_at	NA	0.7374665	2.801543e-02
222704_at	POLR1A	-0.5010144	2.801543e-02
224565_at	NA	0.5002323	2.807474e-02
1556006_s_at	CSNK1A1	0.5859414	2.807474e-02
233595_at	USP34	0.6846003	2.807474e-02
213330_s_at	STIP1	-0.4586999	2.807474e-02
1554808_at	ACP1	0.6135032	2.817447e-02
235352_at	MR1	0.6323109	2.817882e-02
235428_at	MINCR	0.4610029	2.819793e-02
205027_s_at	MAP3K8	-0.5592818	2.819793e-02
212420_at	ELF1	0.7096659	2.820857e-02
243667_at	NA	0.6368056	2.822312e-02
63009_at	SHQ1	-0.4606570	2.822511e-02
200835_s_at	MAP4	1.1179967	2.822693e-02
219559_at	SLC17A9	-0.4676519	2.827999e-02
200822_x_at	TPI1	-0.4672209	2.838281e-02
239504_at	NA	0.5432356	2.842813e-02
221081_s_at	DENND2D	-0.4715631	2.846116e-02
219881_s_at	CTC-338M12.4	0.4725865	2.847024e-02
223255_at	G2E3	0.4805250	2.847024e-02
209528_s_at	TEL02	-0.4887158	2.847024e-02
1558750_a_at	NA	0.4732482	2.850989e-02
226123_at	CHD7	-0.4993258	2.850989e-02
243189_at	NRF1	0.4709646	2.853816e-02
225033_at	ST3GAL1	-0.4589715	2.860636e-02
212556_at	SCRIB	-0.4615250	2.860636e-02
235823_at	ACSF3	0.4987485	2.879438e-02
235999_at	NA	0.5436658	2.879438e-02
225537_at	TRAPPC6B	0.4672001	2.882245e-02
232392_at	SRSF3	0.4837951	2.887856e-02
228990_at	NA	-0.4600797	2.890682e-02
238803_at	HECTD2	0.4690516	2.890682e-02
242878_at	NA	0.5802638	2.892548e-02
239978_at	NA	0.6326289	2.898922e-02
219777_at	GIMAP6	-0.4680925	2.905365e-02
214843_s_at	USP33	0.5615039	2.911978e-02
1569106_s_at	SETD5	-0.5383948	2.911978e-02
1565602_at	PCDH9	0.8265569	2.911978e-02
217808_s_at	MAPKAP1	-0.4771183	2.919073e-02
1554636_at	NA	0.5453314	2.929298e-02
221314_at	GDF9	0.5608093	2.929298e-02
240166_x_at	TRMT10B	0.5167398	2.929298e-02
228519_x_at	CIRBP	0.4874496	2.929298e-02
201404_x_at	PSMB2	-0.6371045	2.933961e-02

204923_at	SASH3	-0.4934788	2.937026e-02
224870_at	DANCR	-0.4558340	2.937693e-02
216247_at	NA	-0.5773403	2.940514e-02
1555943_at	PGAM5	-0.5385441	2.940514e-02
243857_at	MORF4L2	0.5441894	2.940514e-02
1555062_s_at	GTPBP3	-0.4555765	2.940514e-02
240035_at	NA	-0.4728679	2.940514e-02
239175_at	NA	0.5708153	2.940514e-02
218600_at	LIMD2	-0.5894087	2.940514e-02
202115_s_at	NOC2L	-0.4817644	2.940514e-02
207332_s_at	TFRC	-0.4523028	2.942257e-02
1568857_a_at	NBR1	0.5496095	2.942257e-02
201262_s_at	BGN	-0.6344162	2.947668e-02
1558449_at	NA	0.5446229	2.954336e-02
206865_at	HRK	0.4985675	2.954336e-02
228273_at	PRR11	0.4707935	2.956900e-02
222037_at	MCM4	-0.4881501	2.960480e-02
1561346_at	LOC101927166	0.4875230	2.961360e-02
1565436_s_at	KMT2A	0.7902169	2.961822e-02
208644_at	PARP1	-0.4704340	2.961822e-02
216109_at	MED13L	0.5079154	2.974526e-02
217967_s_at	FAM129A	0.4738628	2.998712e-02
1569157_s_at	NA	0.5259720	3.005809e-02
221258_s_at	KIF18A	0.4479123	3.019491e-02
228771_at	GRK3	0.4594138	3.020087e-02
236149_at	NA	0.5820980	3.022974e-02
224832_at	DUSP16	0.4710555	3.023691e-02
210337_s_at	ACLY	-0.4875845	3.023959e-02
243997_x_at	NA	0.5171114	3.024275e-02
244292_at	NA	0.7212142	3.027609e-02
226975_at	RNPC3	0.4886606	3.040515e-02
212984_at	ATF2	0.5123852	3.044749e-02
243739_at	NA	0.5510382	3.044749e-02
223321_s_at	FGFRL1	-0.4893805	3.045369e-02
220397_at	MDM1	0.4567309	3.045718e-02
201989_s_at	CREBL2	0.4619519	3.048739e-02
229388_at	NA	0.4974647	3.056799e-02
219834_at	CARF	0.4996503	3.056799e-02
231999_at	ANKRD11	0.9973906	3.063732e-02
1554242_a_at	COCH	-0.4461614	3.066909e-02
228977_at	NA	-0.4810779	3.070773e-02
1562921_at	EP300-AS1	0.5149484	3.081548e-02
221473_x_at	SERINC3	0.5034517	3.085063e-02
227944_at	PTPN3	0.4596816	3.085063e-02
226439_s_at	NBEA	0.4842634	3.087513e-02
204969_s_at	RDX	0.4813591	3.099052e-02
201770_at	SNRPA	-0.4648707	3.099052e-02
227095_at	LEPROT	0.4885918	3.099052e-02



1552656_s_at	UHK1	0.9940006	3.099052e-02
217576_x_at	SOS2	0.5406659	3.099052e-02
222801_s_at	STAG3L4	0.4530777	3.100319e-02
233819_s_at	LTN1	1.2847592	3.100319e-02
224354_at	NA	1.0460280	3.104469e-02
217791_s_at	ALDH18A1	-0.4613878	3.104876e-02
61732_r_at	IFT74	0.4499517	3.104876e-02
213479_at	NPTX2	-0.4647686	3.105401e-02
229413_s_at	PCGF3	0.6468187	3.105401e-02
1559439_s_at	C21orf58	0.5015786	3.106844e-02
217197_x_at	N4BP2L1	0.4764247	3.107859e-02
223046_at	EGLN1	-0.4770459	3.107859e-02
239757_at	ZFAND6	0.6704907	3.107859e-02
229903_x_at	RNPC3	0.4567537	3.112281e-02
224727_at	EMC10	-0.4751727	3.122379e-02
233156_at	RNASEH2B	0.5034170	3.123833e-02
214205_x_at	GLRX3	-0.4825738	3.123833e-02
1557353_at	NA	0.4980272	3.123833e-02
235435_at	AASDH	0.6170359	3.126394e-02
233445_at	NA	0.4603601	3.126394e-02
220789_s_at	NA	-0.4562364	3.129752e-02
1554015_a_at	CHD2	0.4503880	3.129752e-02
212805_at	PRUNE2	0.4908271	3.134724e-02
203785_s_at	DDX28	-0.4551597	3.134724e-02
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210693_at	SPPL2B	0.5290617	3.142671e-02
230065_at	ZNF180	0.5660918	3.142671e-02
227732_at	ATXN7L1	0.5338950	3.142671e-02
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244767_at	FRA10AC1	0.7188559	3.146329e-02
230870_at	NA	-0.4857254	3.146329e-02
225168_at	FRMD4A	-0.4699367	3.146329e-02
231886_at	NA	0.5500569	3.146329e-02
218764_at	PRKCH	-0.4487635	3.146329e-02
220216_at	C8orf44	0.4739937	3.146329e-02
222768_s_at	TRMT6	-0.4639321	3.147196e-02
232410_at	NA	0.4894795	3.167501e-02
232362_at	CCDC18	0.5411667	3.167501e-02
203462_x_at	EIF3B	-0.4451965	3.167501e-02
1558076_at	SLF1	0.6799023	3.167501e-02
1555303_at	NA	0.4868358	3.168214e-02
242911_at	MED13L	1.1875478	3.169372e-02
204180_s_at	ZBTB43	0.6369899	3.169372e-02
207022_s_at	LDHC	-0.5325056	3.169372e-02
226671_at	LAMP2	0.4616171	3.169372e-02

216583_x_at	NA	-0.4471432	3.169372e-02
238695_s_at	RAB39B	0.5047870	3.169372e-02
226637_at	UBE2H	0.9229733	3.169372e-02
1555784_s_at	IRAK1	-0.5601842	3.178664e-02
1554251_at	HP1BP3	0.4733303	3.182454e-02
221783_at	WIZ	-0.4613149	3.182454e-02
243985_at	GTF2A2	0.4829700	3.182454e-02
216527_at	HCG18	0.5237735	3.182454e-02
1557388_at	RTTN	0.8603182	3.182454e-02
213328_at	NEK1	0.5832905	3.186327e-02
231989_s_at	NA	0.4888765	3.195719e-02
227152_at	KIAA1551	0.6720707	3.197139e-02
230141_at	ARID4A	0.4797817	3.197139e-02
1554036_at	ZBTB24	-0.4559061	3.197139e-02
204355_at	DHX30	-0.5026898	3.197139e-02
236650_at	NA	0.6842074	3.199036e-02
213742_at	SRSF11	0.6324999	3.200112e-02
230497_at	CELF5	0.4827639	3.204998e-02
216761_at	NA	0.5534358	3.204998e-02
216483_s_at	MYDGF	-0.4575001	3.204998e-02
225993_at	EARS2	-0.4469173	3.206110e-02
1558078_at	NA	0.5948032	3.218906e-02
238593_at	C11orf80	0.4861550	3.222942e-02
236494_x_at	NA	0.5806095	3.228322e-02
208816_x_at	ANXA2P2	-0.4671416	3.228322e-02
211074_at	FOLR1	1.3111462	3.233685e-02
220941_s_at	C21orf91	0.5505958	3.233685e-02
216321_s_at	NR3C1	0.4615324	3.233685e-02
206050_s_at	RNH1	-0.4971890	3.249874e-02
202025_x_at	ACAA1	-0.4469163	3.254450e-02
217826_s_at	UBE2J1	0.5355358	3.254450e-02
202531_at	IRF1	-0.4784550	3.261103e-02
218303_x_at	KRCC1	0.4581146	3.272916e-02
240243_at	NA	0.4702845	3.278461e-02
242872_at	NA	0.6297802	3.279792e-02
213607_x_at	NADK	-0.4810994	3.288390e-02
203582_s_at	NA	-0.4410044	3.288390e-02
210972_x_at	NA	0.4395680	3.288390e-02
205013_s_at	NA	0.4722716	3.288390e-02
209853_s_at	PSME3	-0.4502303	3.290986e-02
228478_at	SPPL2A	0.6566694	3.290986e-02
242208_at	ZNF37BP	0.5436856	3.290986e-02
203355_s_at	PSD3	-0.5926506	3.290986e-02
232515_at	ASB3	0.4829582	3.290986e-02
224517_at	POLR2J4	0.5152144	3.290986e-02
224933_s_at	JMJD1C	0.5707898	3.290986e-02
223281_s_at	COX15	0.6445960	3.290986e-02
1558710_at	NA	0.5516697	3.290986e-02

208859_s_at	ATRX	0.8814597	3.290986e-02
219487_at	BBS10	0.4538306	3.290986e-02
211503_s_at	RAB14	0.5756229	3.290986e-02
206190_at	GPR17	-0.4657605	3.300348e-02
235193_at	FAM214A	0.5165598	3.302274e-02
235551_at	NA	-0.7900422	3.313296e-02
60815_at	POLR2J4	0.5240846	3.322356e-02
242110_at	NA	0.6721528	3.324556e-02
1552470_a_at	ABHD11	-0.5374080	3.324556e-02
224615_x_at	HM13	-0.4605825	3.324556e-02
218166_s_at	RSF1	0.5262375	3.339436e-02
238064_at	NA	0.5239088	3.339436e-02
1552664_at	FLCN	0.4737664	3.350741e-02
200831_s_at	SCD	-0.4654380	3.350741e-02
226987_at	RBM15B	-0.4809224	3.356504e-02
227217_at	WNK2	-0.4539340	3.360529e-02
220961_s_at	TBRG4	-0.4539666	3.360529e-02
214250_at	NUMA1	0.5835234	3.360980e-02
225861_at	MCRIP2	-0.4654525	3.360980e-02
212079_s_at	KMT2A	0.6317245	3.360980e-02
244669_at	NA	0.8002544	3.361482e-02
242923_at	ZNF678	0.4877902	3.366893e-02
212009_s_at	STIP1	-0.4556322	3.366893e-02
237465_at	USP53	0.6360763	3.371912e-02
1557718_at	PPP2R5C	0.4633208	3.371912e-02
212570_at	ENDOD1	0.6600108	3.371912e-02
242560_at	FANCD2	0.4583921	3.381299e-02
212620_at	ZNF609	0.6281928	3.381488e-02
202644_s_at	TNFAIP3	0.4389237	3.383226e-02
241336_at	NA	0.6400309	3.387001e-02
236879_at	NA	0.5415312	3.393471e-02
230398_at	TNS4	-0.5495711	3.398828e-02
202967_at	GSTA4	-0.4398424	3.398828e-02
218811_at	ORAI2	-0.5347641	3.398828e-02
48808_at	DHFR	0.4888950	3.398828e-02
240221_at	CSNK1A1	0.5049867	3.398828e-02
208799_at	PSMB5	-0.4507986	3.398828e-02
215942_s_at	GTSE1	0.4599335	3.398828e-02
230918_at	GALK2	0.5072836	3.404934e-02
205354_at	GAMT	-0.4508850	3.413680e-02
200658_s_at	PHB	-0.4589554	3.422470e-02
220647_s_at	COA4	-0.4485253	3.423259e-02
236000_s_at	NA	0.6399137	3.423259e-02
202631_s_at	APPBP2	0.5475032	3.423858e-02
1554894_a_at	PCBD2	0.4649446	3.434346e-02
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238587_at	UBASH3B	0.4768065	3.436969e-02
222614_at	RWDD2B	0.5059358	3.436969e-02

235264_at	HCFC2	0.5603448	3.436969e-02
212996_s_at	URB1	-0.4465139	3.440881e-02
208499_s_at	DNAJC3	0.8498640	3.443610e-02
203037_s_at	MTSS1	0.4558990	3.443742e-02
1552644_a_at	PHC3	0.5551757	3.444665e-02
232140_at	FRG1HP	0.4431029	3.444665e-02
1566603_s_at	RPUSD3	-0.4628839	3.444665e-02
203064_s_at	FOXK2	-0.4341937	3.444665e-02
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208206_s_at	RASGRP2	-0.4799828	3.450048e-02
239831_at	TMEM106C	0.9527533	3.453426e-02
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213954_at	FAM169A	0.6925587	3.453426e-02
241702_at	NA	1.0349165	3.463088e-02
240636_at	NA	0.7125748	3.468222e-02
227517_s_at	NA	-0.4425125	3.473713e-02
218544_s_at	RCL1	-0.4569487	3.473713e-02
228499_at	PFKFB4	-0.5051120	3.473713e-02
204341_at	TRIM16	-0.4500656	3.473713e-02
235688_s_at	TRAF4	-0.5244475	3.473713e-02
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200742_s_at	TPP1	-0.4582706	3.478409e-02
227477_at	ZMYND19	-0.4620115	3.479143e-02
239040_at	HNRNPD	0.9000514	3.479143e-02
218238_at	GTPBP4	-0.4392544	3.479143e-02
222850_s_at	DNAJB14	0.6075676	3.481280e-02
214484_s_at	SIGMAR1	-0.4996866	3.481280e-02
236079_at	NA	0.5508966	3.481280e-02
225712_at	GEMIN5	-0.4332588	3.481280e-02
1554741_s_at	NA	0.4794716	3.481280e-02
228277_at	FBXL19	-0.4372243	3.484741e-02
212468_at	SPAG9	0.9287126	3.493222e-02
219700_at	PLXDC1	0.4353040	3.504355e-02
235889_at	RSPH3	0.4511012	3.508398e-02
1562056_at	NA	0.5226395	3.508398e-02
207300_s_at	F7	-0.5428961	3.508398e-02
223501_at	TNFSF13B	0.5135651	3.508398e-02
218318_s_at	NLK	0.4811341	3.508398e-02
215451_s_at	AFF1	0.7558402	3.508398e-02
230892_at	NA	0.5415293	3.508398e-02
212844_at	RRP1B	-0.4933659	3.508398e-02
222398_s_at	EFTUD2	-0.4416344	3.508398e-02
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210008_s_at	MRPS12	-0.4828848	3.508685e-02
225054_x_at	LINC00674	0.5133567	3.508685e-02
235354_s_at	RSRC1	0.6128081	3.515376e-02

35436_at	GOLGA2	0.5463505	3.520588e-02
238130_at	NFATC2IP	0.8433041	3.527056e-02
209030_s_at	CADM1	0.5240986	3.528718e-02
201605_x_at	CNN2	-0.4978699	3.528718e-02
223882_at	FAM172A	0.7668543	3.528718e-02
238491_at	TAF1A-AS1	0.5505369	3.528718e-02
241966_at	MYO5A	0.8975449	3.528718e-02
236207_at	SSFA2	0.8116271	3.529222e-02
244803_at	NA	0.4793322	3.529702e-02
200664_s_at	DNAJB1	-0.4499883	3.529702e-02
1559382_at	SMIM7	0.5430839	3.538190e-02
228250_at	FNIP1	0.7590084	3.561382e-02
1558762_a_at	ZNF789	0.4887912	3.564065e-02
223263_s_at	FGFR10P2	0.5068192	3.564065e-02
209344_at	TPM4	0.6784597	3.564065e-02
215092_s_at	NFAT5	0.6762721	3.564065e-02
238890_at	BRWD1	0.4395714	3.564065e-02
228604_at	FAM76A	0.5261523	3.564065e-02
224713_at	NIFK	-0.4304823	3.565306e-02
200607_s_at	RAD21	0.4768030	3.565306e-02
227621_at	WTAP	0.4957242	3.567317e-02
222472_at	AFTPH	0.4589384	3.567317e-02
239000_at	BRD4	-0.5036053	3.569057e-02
214140_at	SLC25A16	0.4442737	3.577621e-02
202345_s_at	FABP5	-0.4415415	3.577621e-02
221588_x_at	ALDH6A1	0.4344962	3.577621e-02
228007_at	CEP85L	0.4333702	3.577621e-02
221014_s_at	RAB33B	0.4748023	3.577621e-02
235572_at	SPC24	0.4384301	3.577621e-02
235094_at	NA	0.5260887	3.577621e-02
200987_x_at	PSME3	-0.4385854	3.577621e-02
207595_s_at	BMP1	-0.4891389	3.577621e-02
204535_s_at	REST	0.7999416	3.577621e-02
212983_at	HRAS	-0.4881911	3.577621e-02
225678_at	POLR3H	-0.4357559	3.577621e-02
223679_at	CTNNB1	0.4386746	3.577621e-02
209459_s_at	ABAT	0.6369988	3.577621e-02
238148_s_at	ZNF818P	0.5181567	3.585063e-02
204666_s_at	SIKE1	0.7451158	3.585063e-02
218732_at	PTRH2	-0.4284450	3.587087e-02
204822_at	TTK	0.4718622	3.613186e-02
202645_s_at	MEN1	-0.4578729	3.613186e-02
205263_at	BCL10	0.4764395	3.616577e-02
236574_at	NA	0.4323887	3.616738e-02
235010_at	ZBED5-AS1	0.4269568	3.616738e-02
203701_s_at	TRMT1	-0.4503202	3.619532e-02
223056_s_at	XP05	-0.4302288	3.621477e-02
208490_x_at	NA	0.4713466	3.644598e-02

1553349_at	ARID2	0.4647264	3.644598e-02
1568853_at	NA	0.5288943	3.644789e-02
243417_at	ZADH2	0.4386198	3.647357e-02
212443_at	NBEAL2	-0.5918463	3.655438e-02
232216_at	YME1L1	0.6415140	3.657987e-02
226363_at	ABCC5	0.4312168	3.667962e-02
208886_at	H1FO	0.5371331	3.668389e-02
1561720_at	RECQL5	0.5600538	3.668389e-02
227859_at	DNAJC27	0.4587179	3.668389e-02
209205_s_at	LMO4	0.4879530	3.668389e-02
229353_s_at	NUCKS1	0.5218653	3.683936e-02
225818_s_at	TBRG1	0.6569006	3.687477e-02
218270_at	MRPL24	-0.4389881	3.687477e-02
211936_at	HSPA5	-0.4352737	3.694173e-02
AFFX-M27830_5_at	NA	0.7030388	3.694173e-02
1552611_a_at	JAK1	0.7205476	3.699766e-02
225412_at	TMEM87B	0.4869505	3.709449e-02
202004_x_at	SDHC	-0.4320518	3.709449e-02
219990_at	E2F8	0.4847088	3.709449e-02
209124_at	MYD88	-0.4384253	3.709449e-02
227918_s_at	ZYG11B	0.6057292	3.709449e-02
235258_at	DCP2	0.4531343	3.709449e-02
229586_at	CHD9	0.6787639	3.709449e-02
238541_at	C21orf58	0.4922458	3.709449e-02
228545_at	ZNF148	0.5458611	3.709449e-02
228867_at	TATDN3	0.4567313	3.709449e-02
200990_at	TRIM28	-0.4767099	3.709449e-02
211697_x_at	PN01	-0.7371347	3.709449e-02
240246_at	FRG1JP	0.7070272	3.709449e-02
202704_at	TOB1	0.4615519	3.709449e-02
220223_at	ATAD5	0.7288405	3.709449e-02
207746_at	POLQ	0.4688964	3.709449e-02
234992_x_at	ECT2	0.4914349	3.723082e-02
212106_at	FAF2	0.7418346	3.723082e-02
212333_at	FAM98A	-0.4253494	3.727679e-02
243648_at	ZBED6	1.0796319	3.729697e-02
1553315_at	SLFNL1	0.5209315	3.729697e-02
233652_at	NA	-0.4872332	3.743967e-02
240145_at	DGKH	0.7097687	3.744140e-02
229765_at	ZNF207	0.7169104	3.744140e-02
205805_s_at	ROR1	-0.5762554	3.744661e-02
213413_at	STON1	0.5064836	3.747797e-02
222366_at	NA	0.7372762	3.750116e-02
236437_at	NA	0.4811392	3.750116e-02
225227_at	SKIL	0.5028525	3.750116e-02
209570_s_at	NSG1	-0.4240881	3.759252e-02
204146_at	RAD51AP1	0.4277770	3.759648e-02
208710_s_at	AP3D1	0.7180121	3.767526e-02

225183_at	C16orf72	0.4324364	3.767671e-02
211392_s_at	PATZ1	-0.5198434	3.767671e-02
234291_s_at	SLC6A20	-0.4298807	3.768338e-02
235276_at	EPSTI1	0.4638462	3.768338e-02
226700_at	U2AF1L4	0.4673542	3.768757e-02
223240_at	FBX08	0.4439430	3.773029e-02
210581_x_at	PATZ1	-0.5241790	3.773029e-02
224631_at	NA	0.7739479	3.775723e-02
205059_s_at	IDUA	-0.5111579	3.781437e-02
215743_at	NMT2	0.4760131	3.781437e-02
205264_at	CD3EAP	-0.4300188	3.781437e-02
214744_s_at	NA	-0.4422279	3.783178e-02
236453_at	NA	0.4879861	3.792791e-02
207824_s_at	MAZ	-0.6806167	3.799518e-02
219622_at	RAB20	-0.5730871	3.799518e-02
217771_at	GOLM1	-0.4641185	3.799518e-02
206951_at	HIST1H4E	0.4542807	3.803105e-02
226977_at	IGIP	0.4729268	3.811136e-02
227255_at	PDIK1L	0.4402938	3.819794e-02
243295_at	RBM27	0.6682837	3.819794e-02
213225_at	PPM1B	0.4693020	3.819794e-02
1555446_s_at	TRAPPC10	0.5202147	3.819794e-02
225674_at	BCAP29	0.4790005	3.820422e-02
241546_at	SPATA5	0.4722272	3.821131e-02
232121_at	TRDMT1	0.6235733	3.824028e-02
209741_x_at	SCAPER	0.4322412	3.829397e-02
223464_at	OSBPL5	0.4306056	3.830683e-02
205748_s_at	RNF126	-0.4252709	3.832691e-02
226473_at	CBX2	-0.4482731	3.834847e-02
215600_x_at	FBXW12	0.4416218	3.834847e-02
235484_at	PTAR1	0.4861779	3.834847e-02
238694_at	DGKE	0.4379276	3.834847e-02
226337_at	GORAB	0.4724355	3.834847e-02
218025_s_at	ECI2	-0.4274850	3.834847e-02
223276_at	SMIM3	0.4359346	3.834847e-02
238468_at	TNRC6B	0.5361562	3.834847e-02
208699_x_at	TKT	-0.4574018	3.838877e-02
1555464_at	IFIH1	0.4854968	3.840911e-02
242643_x_at	NA	-0.4547501	3.840911e-02
201075_s_at	SMARCC1	-0.4442125	3.840911e-02
225814_at	XRN1	0.4496104	3.844884e-02
213322_at	OARD1	0.4249323	3.844884e-02
219179_at	DACT1	0.5532390	3.846450e-02
213326_at	VAMP1	0.4377318	3.860852e-02
243835_at	ZDHHC21	0.5006382	3.863159e-02
1553122_s_at	RBAK	0.9014068	3.877272e-02
214347_s_at	DDC	0.4358379	3.877272e-02
1559051_s_at	CGAS	0.7837961	3.880953e-02

222282_at	NA	0.4651000	3.884498e-02
201661_s_at	ACSL3	0.4367754	3.884498e-02
205107_s_at	EFNA4	-0.4476011	3.884498e-02
238723_at	ATXN3	0.8088073	3.884498e-02
220295_x_at	DEPDC1	0.4860268	3.884498e-02
201990_s_at	CREBL2	0.4224442	3.884498e-02
243498_at	NA	0.8033714	3.884498e-02
217196_s_at	CAMSAP2	-0.4965792	3.884498e-02
240442_at	NA	0.5059812	3.884498e-02
233746_x_at	NA	-0.4316507	3.884498e-02
237999_at	NA	0.5919561	3.884498e-02
202689_at	RBM15B	-0.4886766	3.884498e-02
1560509_at	NA	0.5072895	3.884498e-02
239035_at	MTHFR	0.5186023	3.884498e-02
1553267_a_at	CNOT6L	0.5315230	3.884498e-02
1554770_x_at	ZNF785	0.6285184	3.884498e-02
229417_at	NA	0.4341999	3.884498e-02
238563_at	NA	0.5379577	3.886148e-02
207452_s_at	CNTN5	-0.5048197	3.888356e-02
1558236_at	DR1	0.5298169	3.894718e-02
219491_at	LRFN4	-0.4519261	3.915632e-02
1568941_a_at	HNRNPC	0.7005769	3.916105e-02
244133_at	USP49	0.5220023	3.921137e-02
235784_at	NA	0.4479967	3.921137e-02
207614_s_at	CUL1	-0.4253932	3.921137e-02
1559276_at	PCAT18	0.5835463	3.921137e-02
218829_s_at	CHD7	-0.4305817	3.921137e-02
228797_at	NLN	-0.4207814	3.921137e-02
225433_at	GTF2A1	0.4241501	3.921137e-02
243071_at	NA	0.5423382	3.921137e-02
212378_at	GART	-0.4262892	3.923646e-02
210543_s_at	PRKDC	-0.4471426	3.925355e-02
238811_at	ATP11B	1.1059638	3.933220e-02
238757_at	DBF4B	0.5242455	3.947041e-02
239251_at	NA	0.4869802	3.955490e-02
242225_at	NA	0.4938771	3.964152e-02
241661_at	JMJD1C	0.7024286	3.964152e-02
211587_x_at	CHRNA3	0.4467666	3.964152e-02
1568592_at	TRIM69	0.4211307	3.964270e-02
238635_at	TMEM267	0.5795432	3.964270e-02
207339_s_at	LTB	0.4239680	3.964270e-02
206472_s_at	TLE3	-0.4238144	3.970452e-02
1557782_s_at	C21orf62-AS1	0.4726462	3.970452e-02
219865_at	LINC00339	0.6104523	3.971115e-02
220967_s_at	ZNF696	-0.4320293	3.972848e-02
240307_at	NA	0.4655799	3.975230e-02
239376_at	DCLRE1C	0.4575795	3.975230e-02
201421_s_at	WDR77	-0.4281485	3.975230e-02



232194_at	METTL4	0.4381284	3.975230e-02
205287_s_at	TFAP2C	0.4232450	3.975230e-02
202095_s_at	BIRC5	0.4167248	3.975230e-02
238496_at	NSD3	0.4468384	3.975230e-02
216101_at	NA	0.5149399	3.978512e-02
209744_x_at	ITCH	0.5641779	3.978512e-02
205339_at	STIL	0.4521091	3.981908e-02
210867_at	CNOT4	0.6681116	3.988080e-02
225196_s_at	MRPS26	-0.4432305	3.988080e-02
202571_s_at	DLGAP4	-0.4677018	3.989401e-02
211518_s_at	BMP4	-0.4553706	3.989438e-02
202984_s_at	BAG5	0.6865501	3.993336e-02
213715_s_at	KANK3	-0.4689873	4.001613e-02
1557129_a_at	FAM111B	0.9611386	4.006987e-02
202841_x_at	OGFR	-0.5312033	4.006987e-02
217185_s_at	NA	-0.4229564	4.008299e-02
243964_at	NA	0.7207365	4.009716e-02
206804_at	CD3G	0.6873767	4.016294e-02
230630_at	AK4	-0.4293764	4.016294e-02
223381_at	NUF2	0.4275223	4.019590e-02
230355_at	SEPT7P2	0.5303454	4.019590e-02
227368_at	NA	0.4219481	4.025533e-02
243529_at	MARS2	-0.4334873	4.026062e-02
213544_at	ING2	0.5618913	4.036052e-02
212090_at	GRINA	-0.4767664	4.036052e-02
228304_at	RBM43	0.5090755	4.036052e-02
228248_at	RICTOR	0.4713093	4.036052e-02
212674_s_at	DHX30	-0.4270767	4.043157e-02
220466_at	CCDC15	0.4789701	4.050858e-02
215792_s_at	DNAJC11	-0.4226541	4.055319e-02
219237_s_at	DNAJB14	0.6082610	4.063999e-02
231111_at	SCYL3	0.4736864	4.065409e-02
203826_s_at	PITPNM1	-0.6316645	4.066068e-02
204290_s_at	ALDH6A1	0.4182417	4.074784e-02
242385_at	RORB	0.5111643	4.076704e-02
215599_at	NA	0.5550017	4.076704e-02
209865_at	SLC35A3	0.4989176	4.077429e-02
218103_at	FTSJ3	-0.4229042	4.087034e-02
1553107_s_at	C5orf24	0.6464178	4.087852e-02
225954_s_at	MIDN	-0.5008485	4.101040e-02
211527_x_at	VEGFA	-0.4863348	4.107308e-02
200832_s_at	SCD	-0.4157738	4.109676e-02
213929_at	EXPH5	0.4696674	4.116870e-02
229120_s_at	CDC42SE1	0.4402891	4.129988e-02
206921_at	GLE1	0.4665711	4.129988e-02
230926_s_at	ODF2L	0.4904008	4.139408e-02
1552542_s_at	TAGAP	0.4538622	4.139408e-02
235811_at	NA	0.6621220	4.139408e-02

221688_s_at	IMP3	-0.4237516	4.139408e-02
244151_at	SMLR1	-0.5827547	4.139408e-02
242859_at	NA	0.6133129	4.139408e-02
227074_at	CCDC18-AS1	0.4245612	4.139408e-02
226638_at	ARHGAP23	0.4174405	4.139408e-02
208657_s_at	SEPT9	-0.4835210	4.139408e-02
212461_at	AZIN1	0.4133713	4.139408e-02
219215_s_at	SLC39A4	-0.4513387	4.139408e-02
220122_at	MCTP1	0.5360048	4.141943e-02
210479_s_at	RORA	0.7830921	4.142467e-02
212186_at	ACACA	-0.4148683	4.148068e-02
223627_at	MEX3B	-0.4859039	4.148068e-02
203479_s_at	OTUD4	0.7084220	4.148068e-02
202682_s_at	USP4	0.4988497	4.148068e-02
212070_at	ADGRG1	0.4517415	4.153067e-02
224716_at	NA	-0.4653870	4.154989e-02
217644_s_at	SOS2	0.7459044	4.167302e-02
212956_at	TBC1D9	-0.4884838	4.169186e-02
235179_at	ZNF641	0.6079120	4.175781e-02
202581_at	NA	-0.4611901	4.177722e-02
221440_s_at	RBBP9	0.4508718	4.177722e-02
243252_at	NA	0.4642695	4.177722e-02
206687_s_at	PTPN6	-0.4802138	4.179378e-02
227801_at	TRIM59	0.4245545	4.179378e-02
202463_s_at	MBD3	-0.4490478	4.180354e-02
236375_at	NA	0.6063086	4.180354e-02
237299_at	NARF	-0.4364296	4.180354e-02
212290_at	SLC7A1	0.6390742	4.181199e-02
231149_s_at	ULK4	0.5058562	4.181444e-02
206810_at	NA	0.4630067	4.183074e-02
234976_x_at	NA	0.4720041	4.184092e-02
200866_s_at	PSAP	-0.4560725	4.184308e-02
222385_x_at	SEC61A1	-0.5034890	4.184308e-02
201332_s_at	STAT6	-0.4516322	4.196057e-02
235894_at	NA	0.5267003	4.197071e-02
225527_at	CEBPG	0.4112202	4.210727e-02
226791_at	KIFC2	-0.4916147	4.218030e-02
1552733_at	KLHDC1	0.4654266	4.222087e-02
215220_s_at	TPR	0.6778630	4.222597e-02
232312_at	PPP6R3	0.4758476	4.226295e-02
228825_at	PTGR1	0.4621186	4.231823e-02
225344_at	NCOA7	0.4285572	4.234885e-02
231450_at	NA	0.5008458	4.249725e-02
222657_s_at	UBE2W	0.4766514	4.251593e-02
212745_s_at	BBS4	0.4490393	4.251593e-02
220905_at	NA	0.5028922	4.251593e-02
222979_s_at	SURF4	-0.4524950	4.251593e-02
201367_s_at	ZFP36L2	-0.6041180	4.251593e-02

243558_at	NA	0.4670335	4.269809e-02
203833_s_at	TGOLN2	0.6951418	4.269809e-02
213054_at	HAUS5	0.4182259	4.269809e-02
209640_at	PML	-0.4973627	4.276298e-02
217804_s_at	ILF3	-0.4293822	4.276467e-02
225726_s_at	PLEKHH1	0.5973596	4.276467e-02
208637_x_at	ACTN1	-0.4139202	4.276467e-02
241391_at	NA	0.5901670	4.276467e-02
235597_s_at	NA	-0.4345570	4.276467e-02
218121_at	HMOX2	-0.4273322	4.277534e-02
220940_at	ANKRD36B	0.4640054	4.277754e-02
212679_at	TBL2	0.5032996	4.277754e-02
214049_x_at	CD7	-0.4493192	4.281781e-02
215188_at	STK24	0.5667038	4.285141e-02
224854_s_at	SLAIN2	0.5121523	4.287257e-02
1560741_at	NA	0.4583865	4.289658e-02
1569608_x_at	LOC105379426	0.4339076	4.302830e-02
220607_x_at	NELFCD	-0.4226976	4.302830e-02
1558605_at	NA	0.4849272	4.312276e-02
1569557_at	ZNF248	0.4677813	4.313499e-02
205457_at	C6orf106	0.7063161	4.323576e-02
1555460_a_at	SLC39A6	-0.4191563	4.324367e-02
215501_s_at	DUSP10	0.4278712	4.324545e-02
206499_s_at	RCC1	-0.4899275	4.325027e-02
209088_s_at	UBN1	0.6915763	4.330135e-02
201101_s_at	BCLAF1	0.6083053	4.330478e-02
213526_s_at	LIN37	0.4594454	4.330478e-02
226530_at	BMF	0.4207351	4.338532e-02
225041_at	MPHOSPH8	0.4716231	4.352329e-02
244429_at	NA	0.4327478	4.352833e-02
222837_s_at	NAA15	-0.4303800	4.352833e-02
217499_x_at	NA	-0.4148486	4.354724e-02
206861_s_at	CGGBP1	0.4602339	4.355388e-02
225228_at	DRAM2	0.4097165	4.355388e-02
222714_s_at	LACTB2	0.4495448	4.355388e-02
242260_at	MATR3	-0.4558315	4.355388e-02
222133_s_at	PHF20L1	0.4675638	4.355388e-02
223134_at	BBX	0.5105593	4.355388e-02
221881_s_at	CLIC4	0.6066249	4.355388e-02
225261_x_at	NELFCD	-0.4310948	4.355388e-02
214829_at	AASS	0.4139179	4.355388e-02
202803_s_at	ITGB2	-0.4511599	4.355388e-02
201739_at	SGK1	0.4263342	4.355388e-02
214971_s_at	ST6GAL1	-0.5256050	4.355388e-02
227190_at	TMEM37	0.4325259	4.357259e-02
216863_s_at	MORC2	-0.4231792	4.357259e-02
242722_at	LMO7	0.5848125	4.357259e-02
207445_s_at	CCR9	-0.4060500	4.362573e-02

1554277_s_at	FANCM	0.9855801	4.362573e-02
1559960_x_at	SYCE1L	0.4362882	4.363053e-02
209468_at	LRP5	-0.4943632	4.363814e-02
204280_at	RGS14	-0.4761725	4.384045e-02
1562327_at	NA	-0.4519183	4.384045e-02
227604_at	TMEM185B	-0.4640356	4.384464e-02
201425_at	ALDH2	0.5067454	4.396491e-02
227359_at	OSCP1	0.4517530	4.396628e-02
207492_at	NGLY1	0.4691296	4.399359e-02
236417_at	NA	0.4619581	4.404947e-02
224018_s_at	SCD5	-0.5353200	4.404947e-02
238760_at	YARS	0.4590220	4.404947e-02
238875_at	NA	0.5731604	4.404947e-02
225942_at	NLN	-0.5179162	4.404947e-02
217640_x_at	SKA1	0.4141597	4.404947e-02
216397_s_at	NA	-0.5300869	4.406677e-02
236377_at	TMEM132D	-0.4234808	4.406677e-02
213474_at	NA	0.4827917	4.406677e-02
208152_s_at	DDX21	-0.4066665	4.406677e-02
225201_s_at	MRPL14	-0.4040755	4.406677e-02
212713_at	MFAP4	0.4120439	4.407270e-02
219642_s_at	PEX5L	0.7990520	4.407270e-02
231890_at	NA	0.4367850	4.407270e-02
238289_at	NA	0.4262391	4.407270e-02
207655_s_at	BLNK	0.6095692	4.407270e-02
210086_at	HR	-0.4294254	4.407270e-02
212218_s_at	FASN	-0.4931326	4.407926e-02
1566558_x_at	BAIAP2-DT	-0.4213898	4.415674e-02
1554574_a_at	CYB5R3	-0.4902015	4.415674e-02
208793_x_at	SMARCA4	-0.4856391	4.415674e-02
216277_at	BUB1	0.4503602	4.416732e-02
223649_s_at	SLC25A39	-0.4669114	4.416732e-02
209515_s_at	RAB27A	0.4065488	4.416732e-02
228295_at	WDR59	0.8237178	4.416732e-02
223812_at	FAM178B	-0.4623027	4.416732e-02
204444_at	KIF11	0.4083231	4.416732e-02
218638_s_at	NA	-0.4249227	4.416732e-02
203899_s_at	CRCP	0.5428126	4.416732e-02
1557961_s_at	C8orf88	0.4575317	4.416732e-02
230310_at	NA	0.4314245	4.416732e-02
229734_at	NA	-0.4591066	4.416732e-02
202295_s_at	CTSH	-0.4130691	4.421254e-02
235765_at	TLE4	0.7018424	4.421254e-02
241853_at	NA	0.4755226	4.421254e-02
237062_at	NA	0.7034718	4.421254e-02
230703_at	NA	0.6717646	4.421254e-02
214820_at	BRWD1	0.4919361	4.426173e-02
220234_at	CA8	-0.5663636	4.428941e-02

204118_at	CD48	-0.4057245	4.429385e-02
200687_s_at	SF3B3	-0.4263067	4.430377e-02
1558527_at	PAXIP1-AS2	0.5602795	4.433375e-02
236696_at	U2SURP	0.4915687	4.437633e-02
242144_at	NA	0.6097990	4.440197e-02
1558237_x_at	DR1	0.4647459	4.444829e-02
238642_at	ANKRD13D	0.4625453	4.444829e-02
1556958_at	NA	0.4644889	4.445599e-02
242518_at	RAD51-AS1	0.4053500	4.452293e-02
230536_at	PBX4	0.4372750	4.452293e-02
202825_at	SLC25A4	-0.4076149	4.452293e-02
222103_at	ATF1	0.4292113	4.452293e-02
1565692_at	NA	0.4539693	4.461745e-02
202705_at	CCNB2	0.4033479	4.475000e-02
219581_at	TSEN2	-0.4162598	4.475000e-02
229317_at	KPNA5	0.4331084	4.475000e-02
244341_at	NA	0.6059480	4.475000e-02
235722_at	NA	0.7970354	4.475000e-02
206503_x_at	PML	-0.4831194	4.480188e-02
212249_at	PIK3R1	0.6024817	4.480603e-02
230388_s_at	KANSL1-AS1	0.4324894	4.480603e-02
244822_at	GART	0.5881320	4.480603e-02
218264_at	BCCIP	-0.4054263	4.480603e-02
203280_at	SAFB2	-0.4844650	4.480603e-02
227052_at	SMIM14	0.4386140	4.480603e-02
211962_s_at	ZFP36L1	0.5751589	4.482499e-02
237158_s_at	MPHOSPH9	0.5018131	4.484255e-02
205967_at	NA	0.4594898	4.491426e-02
226419_s_at	SRSF1	0.4798024	4.491426e-02
225507_at	PNISR	0.4658070	4.491426e-02
1557987_at	NA	0.5407135	4.504587e-02
236953_s_at	NHLRC3	0.5095920	4.505775e-02
208534_s_at	NA	-0.4251435	4.505775e-02
212629_s_at	PKN2	0.5122508	4.510204e-02
214509_at	HIST1H3I	0.6373755	4.513560e-02
242606_at	NA	0.5174397	4.513560e-02
225762_x_at	RNA45SN5	0.5890126	4.513560e-02
216562_at	NA	-0.4454105	4.513560e-02
224218_s_at	TRPS1	0.4307722	4.521212e-02
219543_at	PBLD	0.4988909	4.529169e-02
201846_s_at	RYBP	0.4646746	4.529169e-02
228879_at	NA	-0.4898447	4.529454e-02
202330_s_at	UNG	-0.4095858	4.535709e-02
211433_x_at	FAM214B	-0.4409245	4.535709e-02
1557283_a_at	ZNF519	0.4532338	4.535709e-02
1559957_a_at	LOC642852	0.5013402	4.535709e-02
212088_at	PMPCA	-0.4102989	4.535709e-02
231721_at	JAM3	-0.5457450	4.539542e-02

204152_s_at	MFNG	-0.4332260	4.540885e-02
1554780_a_at	PHTF2	0.4377167	4.542583e-02
221496_s_at	TOB2	0.5988764	4.544381e-02
238462_at	UBASH3B	0.4094440	4.550982e-02
244104_at	MGAT3	-0.4405852	4.553947e-02
243683_at	MORF4L2	0.4886652	4.553947e-02
229694_at	WDR11	0.4458157	4.561256e-02
1564002_a_at	AK9	0.4805447	4.562799e-02
240240_at	NA	0.4707771	4.562799e-02
210995_s_at	TRIM23	0.4149708	4.562799e-02
223701_s_at	USP47	0.5105902	4.562799e-02
217960_s_at	TOMM22	-0.4161306	4.567243e-02
219380_x_at	POLH	0.5868168	4.567243e-02
204495_s_at	C15orf39	-0.4217849	4.567243e-02
225919_s_at	C9orf72	0.4479396	4.574144e-02
237510_at	MYNN	0.4500918	4.574144e-02
228402_at	ZBED3	-0.4287475	4.574144e-02
226310_at	RICTOR	0.4440274	4.574144e-02
203434_s_at	MME	0.5128300	4.574144e-02
219492_at	CHIC2	0.4229132	4.574144e-02
243264_s_at	NA	0.4619258	4.574144e-02
242756_at	NA	0.4466018	4.574144e-02
212424_at	PDCD11	-0.4169977	4.574144e-02
60794_f_at	ZNF814	0.6725606	4.574144e-02
228156_at	NA	0.7387923	4.574144e-02
226753_at	FAM76B	0.4148540	4.574144e-02
220952_s_at	PLEKHA5	0.4175893	4.574144e-02
220374_at	KLHL28	0.4862158	4.574144e-02
226036_x_at	CASP2	-0.5752266	4.574144e-02
1568951_at	NA	0.4727730	4.574144e-02
202426_s_at	RXRA	-0.4665998	4.574144e-02
223103_at	STARD10	-0.4844757	4.574144e-02
231957_s_at	DPP9	-0.5883290	4.575682e-02
230165_at	SGO2	0.4345767	4.579960e-02
218888_s_at	NETO2	-0.4012410	4.579960e-02
244611_at	MED13	0.4566619	4.579960e-02
224520_s_at	BEST3	0.5600275	4.579960e-02
1565614_at	NA	0.7815336	4.580720e-02
201456_s_at	BUB3	0.4125565	4.580720e-02
216232_s_at	GCN1	-0.4403254	4.580720e-02
203958_s_at	ZBTB40	0.5185259	4.580720e-02
221632_s_at	WDR4	-0.4737596	4.580720e-02
208967_s_at	AK2	-0.4047276	4.581396e-02
243537_at	NA	0.4507498	4.584148e-02
224401_s_at	FCRL4	-0.4845067	4.584148e-02
221507_at	TNP02	-0.4376560	4.584148e-02
213971_s_at	NA	0.5447941	4.584148e-02
235294_at	SIKE1	0.6704496	4.584148e-02

204094_s_at	TSC22D2	0.4553907	4.592697e-02
204367_at	SP2	0.4330345	4.592697e-02
214592_s_at	SNAPC5	0.4587841	4.596621e-02
241242_at	NA	0.6271128	4.596621e-02
227223_at	RBM39	0.8220181	4.597087e-02
217825_s_at	UBE2J1	0.4254279	4.597087e-02
231894_at	SARS	0.4136484	4.598788e-02
233080_s_at	PRPF40A	0.4915703	4.598788e-02
231866_at	LNPEP	0.4228763	4.598788e-02
212016_s_at	NA	-0.4520816	4.598788e-02
230337_at	SOS1	0.5195233	4.598788e-02
202242_at	TSpan7	-0.4035162	4.607232e-02
1557755_at	CEP128	0.4612887	4.611716e-02
239107_at	NA	0.4530322	4.612040e-02
215170_s_at	CEP152	0.4371610	4.612040e-02
227674_at	ZNF585A	0.4127484	4.617344e-02
241891_at	NA	0.4531270	4.618261e-02
201779_s_at	RNF13	0.4077135	4.618811e-02
244011_at	PPM1K	0.4289319	4.624262e-02
222015_at	CSNK1E	-0.4443687	4.624262e-02
221078_s_at	CCDC88A	0.4189003	4.624262e-02
203236_s_at	LGALS9	-0.4477580	4.632267e-02
207515_s_at	POLR1C	-0.4154248	4.632514e-02
205637_s_at	SH3GL3	0.3968548	4.632514e-02
213792_s_at	INSR	0.4493615	4.632514e-02
211233_x_at	ESR1	-0.4360309	4.635357e-02
236096_at	SIPA1L3	-0.4677775	4.638681e-02
222039_at	KIF18B	0.4014675	4.653850e-02
225823_at	C19orf70	-0.4070368	4.653850e-02
207993_s_at	CHP1	0.7549888	4.659346e-02
212801_at	NA	0.4138473	4.674386e-02
229274_at	GNAS	0.6335487	4.686835e-02
214504_at	ABO	-0.4430351	4.686835e-02
218136_s_at	SLC25A37	-0.4336679	4.696377e-02
202870_s_at	CDC20	0.4055569	4.696377e-02
227001_at	NIPAL2	0.4447866	4.696377e-02
243496_at	RAB18	0.7488910	4.696377e-02
220572_at	LOC100506282	0.4521075	4.696377e-02
241036_at	NA	0.4703458	4.696377e-02
229590_at	NA	-0.4066017	4.696377e-02
236480_at	MIR210HG	-0.5248418	4.696377e-02
1556690_s_at	NA	0.5472031	4.696377e-02
1555349_a_at	ITGB2	-0.4429847	4.697270e-02
235900_at	SPNS3	0.5600649	4.697270e-02
235376_at	NA	0.6751517	4.699908e-02
201012_at	ANXA1	-0.4043479	4.700531e-02
222565_s_at	PRKD3	0.4811924	4.701366e-02
200650_s_at	LDHA	-0.3974905	4.701366e-02

234990_at	CBX5	0.6015304	4.701366e-02
207538_at	IL4	-0.4082057	4.704365e-02
210943_s_at	LYST	0.6805409	4.704365e-02
237442_at	NA	0.4209400	4.706233e-02
242456_at	MRE11	0.5537514	4.709989e-02
233405_at	NA	0.5050750	4.716131e-02
204663_at	ME3	-0.4581019	4.717300e-02
1555952_at	SLC19A1	-0.4371025	4.720319e-02
213713_s_at	GLB1L2	-0.4354430	4.720319e-02
1564040_a_at	TMEM235	-0.5449588	4.721219e-02
235611_at	SREK1	0.4472488	4.721219e-02
202062_s_at	SEL1L	0.6858330	4.730355e-02
221059_s_at	NA	-0.3979185	4.730355e-02
238149_at	ZNF818P	0.6939994	4.730355e-02
228550_at	RTN4R	-0.4248303	4.730355e-02
215018_at	CEP295	0.4808360	4.730355e-02
205392_s_at	NA	-0.4388478	4.734489e-02
233175_at	ZNF460	0.4375693	4.736027e-02
224216_at	NA	0.8894696	4.736027e-02
205661_s_at	FLAD1	-0.4322774	4.747167e-02
235338_s_at	SETDB2	0.4358958	4.755382e-02
1558807_at	ATAD2B	0.6649130	4.756729e-02
210342_s_at	TPO	-0.4553567	4.756729e-02
235339_at	SETDB2	0.4122437	4.756729e-02
1555858_at	THUMPD3-AS1	0.4038127	4.770094e-02
201478_s_at	NA	-0.4059170	4.772712e-02
203192_at	ABCB6	-0.4154369	4.778269e-02
217989_at	HSD17B11	0.3944269	4.778817e-02
212035_s_at	EXOC7	-0.4720743	4.778817e-02
218083_at	PTGES2	-0.4336589	4.778817e-02
241480_at	RNF213	-0.4114252	4.783566e-02
211019_s_at	LSS	-0.5036631	4.791560e-02
201729_s_at	KIAA0100	-0.4129713	4.795311e-02
220369_at	PPP4R3A	0.4230116	4.795311e-02
1569154_a_at	GRAMD4	-0.4057253	4.795311e-02
205718_at	ITGB7	-0.5027667	4.795311e-02
236223_s_at	RIT1	0.5400155	4.795311e-02
226743_at	SLFN11	-0.4060238	4.795311e-02
214369_s_at	RASGRP2	-0.4241317	4.795311e-02
1565759_at	NA	-0.4309098	4.795311e-02
206310_at	SPINK2	0.4635329	4.796721e-02
225551_at	CNST	0.5323340	4.796721e-02
221758_at	ARMC6	-0.4136602	4.796721e-02
241405_at	TOB1-AS1	0.4596361	4.800022e-02
230064_at	NA	0.4730097	4.804231e-02
202016_at	MEST	-0.4359723	4.804231e-02
204465_s_at	INA	-0.4406458	4.804231e-02
209551_at	YIPF4	0.4213985	4.807194e-02



220770_s_at	ZBED8	0.4527488	4.807194e-02
215747_s_at	RCC1	-0.4607151	4.807194e-02
209392_at	ENPP2	0.4825244	4.807381e-02
240108_at	NA	0.5461828	4.807381e-02
218701_at	LACTB2	0.4497858	4.807381e-02
1555892_s_at	CUTALP	0.5025865	4.807381e-02
1552326_a_at	CFAP53	0.4879532	4.807381e-02
222291_at	FAM149A	0.4246400	4.807381e-02
224783_at	UBALD2	0.4271298	4.807381e-02
212707_s_at	NA	-0.4277139	4.807381e-02
1555360_a_at	DNAJC11	-0.4866682	4.807381e-02
226130_at	RPS16	-0.4126986	4.807381e-02
227227_at	NA	0.4968709	4.807381e-02
1553034_at	SDCCAG8	0.4134833	4.807381e-02
215592_at	NA	0.4347284	4.807381e-02
239992_at	NA	0.4049539	4.807381e-02
242521_at	CARD8-AS1	0.4734146	4.807381e-02
204494_s_at	C15orf39	-0.4645110	4.807381e-02
202146_at	IFRD1	0.4003698	4.807381e-02
215138_s_at	KAZN	-0.4128090	4.807381e-02
231825_x_at	ATF7IP	0.4074773	4.807381e-02
240926_at	LRCH3	0.5474154	4.807381e-02
224345_x_at	FAM162A	-0.3928440	4.807381e-02
209997_x_at	PCM1	0.5543356	4.807381e-02
209461_x_at	WDR18	-0.4120514	4.807381e-02
221679_s_at	ABHD6	-0.4806127	4.807381e-02
1554095_at	RBM33	0.3975166	4.812996e-02
222909_s_at	BAG4	0.6517831	4.812996e-02
203140_at	BCL6	0.4544531	4.824122e-02
222820_at	TNRC6C	0.4091911	4.824122e-02
221904_at	FAM131A	0.4690049	4.841702e-02
205885_s_at	ITGA4	-0.4004401	4.845158e-02
228361_at	E2F2	0.4208377	4.845158e-02
201917_s_at	SLC25A36	0.6091638	4.869475e-02
202497_x_at	SLC2A3	-0.4042339	4.869475e-02
216370_s_at	TKTL1	-0.4803291	4.869475e-02
209852_x_at	PSME3	-0.4341516	4.888498e-02
216236_s_at	NA	-0.4115282	4.892295e-02
235006_at	CDKN2AIPNL	-0.4330202	4.892295e-02
215907_at	NA	0.4307390	4.892295e-02
220178_at	MFS12	-0.4228946	4.900807e-02
1557452_at	NA	0.4651032	4.900807e-02
231292_at	EID3	0.4963435	4.916921e-02
221087_s_at	APOL3	-0.3951902	4.927200e-02
241887_at	UBE2W	0.4026701	4.927446e-02
204840_s_at	EEA1	1.0408514	4.939202e-02
207518_at	DGKE	0.4610694	4.939885e-02
226674_at	SHISA4	-0.4316444	4.941335e-02

212209_at	MED13L	0.4016582	4.944273e-02
1558392_at	SYNE2	0.8608968	4.944273e-02
204709_s_at	KIF23	0.4056187	4.944273e-02
207740_s_at	NUP62	-0.4233236	4.944273e-02
231775_at	TNFRSF10A	0.4721119	4.944273e-02
1561130_at	HECTD4	0.4305466	4.944273e-02
222620_s_at	DNAJC1	0.4122727	4.957156e-02
1553304_at	LSM14B	0.6859399	4.964040e-02
228562_at	ZBTB10	0.3961746	4.966259e-02
216591_s_at	SDHC	-0.4366645	4.970340e-02
230172_at	IFI27L1	0.3972795	4.970340e-02
224632_at	GPATCH4	-0.3951551	4.971920e-02
242163_at	THRAP3	0.5818141	4.973262e-02
233058_at	GPSM2	0.5044043	4.976014e-02
239680_at	WDR76	0.4350374	4.981465e-02
235274_at	GABPB1-AS1	0.4711036	4.981465e-02
224614_at	DYNC1LI2	0.3953255	4.981465e-02
202657_s_at	SERTAD2	0.4002155	4.983678e-02
239537_at	ST8SIA2	0.4194397	4.987705e-02
230465_at	HS2ST1	0.7524084	4.987705e-02
228806_at	RORC	0.4417067	4.987705e-02
1553666_at	CCDC34	0.4894706	4.987705e-02
235138_at	NA	0.4340546	4.987705e-02
216957_at	USP22	0.5203983	4.987727e-02
238094_at	LOC101928728	0.5193411	4.987727e-02
243070_at	INO80D	0.6049687	4.999160e-02
205062_x_at	ARID4A	0.4278700	4.999160e-02
210598_at	NA	0.4476336	4.999160e-02
204133_at	RRP9	-0.4772602	4.999160e-02
223193_x_at	FAM162A	-0.3905812	4.999160e-02
227682_at	SPPL2A	0.4497089	4.999160e-02
238037_at	LMLN	0.4265864	4.999160e-02
217799_x_at	UBE2H	0.4423078	4.999160e-02